ELMARK HOLDING SE United Kingdom



CATALOGUE 2019

7 YEARS WARRANTY

ELMARK®

The Brand of Electricity



EUROPEAN MANUFACTURER

DIVERSIFIED PORTFOLIO

INTERNATIONAL INSURANCE

CERTIFIED QUALITY

WHAT MAKES US DIFFERENT?

ELMARK is European trusted brand for LV electrical automation and supplies, indoor and outdoor luminaires. Our diversified portfolio offers an effective path to fast growth, we answer to our existing customers' needs and at the same time we have the opportunity to establish new markets. We have more than 19 years of experience in providing high performance solutions across a range of different sectors such as residential, hospitality and recreation, office, industry, road and cityscape.

Our well-balanced portfolio ensures excellent market coverage with outstanding quality. We have built trust and creditability with our partners as ELMARK enjoys the recognition of INTERTEK for safe and reliable products, manufactured in accordance with the European safety requirements and quality standards.

ELMARK showcases and maintains product safety and performance, we provide 7 years worldwide warranty as confidence in our production quality.

For more than 13 years partnership with ALLIANZ, Germany we do not have a single claim for the International insurance which guarantees coverage of damages that may occur as a result of any act or omission relating to ELMARK products. We always stay in tune with the environment, safety standards and comfort demand.

Our research and development department currently works on new features and technologies important for the future, that will generate benefits to all our partners, such as smart buildings solutions tailored to clients personal needs and comfort. We constantly develop our product portfolio into a meaningful, differentiated and winning asset. Thanks to continuous improvement and developments we successfully leverage our core competences of lighting and electrical under one roof.

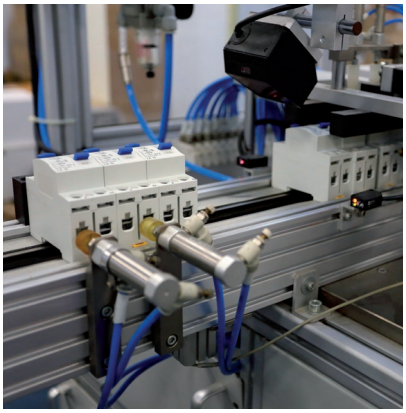
2000	2002	2003	2004
ELMARK Brand was born	Dynamic expansion on Bulgarian market	NEW company in ROMANIA	Starts production of Low Voltage Electrical Equipment



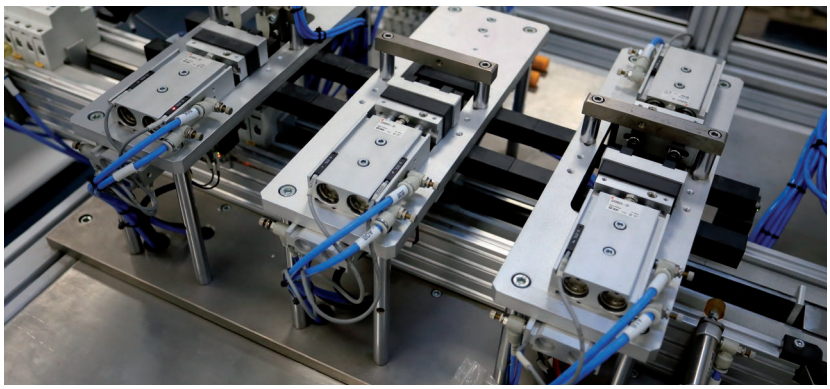
PRODUCTION FACILITIES

ELMARK Production Complex consists of a manufacturing plant and testing centres for both low- voltage electrical and lighting solutions. We successfully combine automated technology with experience to meet quality highest standards, ensure high efficiency and add value to our clients.

The Complex together with the adjacent warehouse facilities occupy a total area of 10,000 m2, strategically located in Bulgaria, nearby the Black Sea where it benefits from its proximity to major transport links and direct access to European market.







2005	2006	2007	2008	2009
NEW company in SERBIA	ELMARK Holding AD has been established	Moves to a new Headquarter of 3500 sq.m	NEW Logistic centre of 5000 sq.m	NEW company in CROATIA



MAIN SHOWROOM

COMMERCIAL BENEFITS

ELMARK offers its customers unrivalled combination of products at competitive prices.

We are proud with our widespread international network of highly-valued business partners in over 50 countries. Understanding our clients' requirements stays at the centre of our business cooperation. We apply proven industry and market concepts and training for both business-to-business and business-to-consumer companies.

We focus to build strong and lasting relationships and maintain friendly communication with our partners. All of our customers are provided with a dedicated account manager to deliver the highest level of customer service.

- PROFIT MIX
- TRAINING
- MARKETING SUPPORT
- DEDICATED ACCOUNT MANAGER
- AFTERSALES SUPPORT
- LONG TERM PARTNERSHIP

2010	2011	2012	2013	2014
NEW Production line for LED Lighting	NEW company in GREECE and BOSNIA AND HERZEGOVINA	NEW company in HUNGARY	Intertek: S Mark NEW Automatic Testing Equipment for LV & Lighting Lab	NEW company in SLOVENIA

HEADQUARTER



OUR VISION

ELMARK aims to be your trusted partner that offers the balance of high quality, efficiency and comfort.

MISSION

ELMARK is focused to ensure high reliability and cost effective solutions to all consumers. We keep improving our components and products, productivity, quality control, added value, and cost reduction in order to offer market-aligned solutions worldwide.

OUR VALUES

Ethical / Respectful / Team Player / Dedicated / Caring / Sustainable / Flexible

United Kingdom, London
HEADQUARTER

Bulgaria, Dobrich
European Factory & Warehouse

UAE, Dubai
Middle East Test Centre & Warehouse

2015	2016	2017	2018
Middle East-Sales and Logistics Branch and Test Centre in Dubai Silicon Oasis, UAE	NEW company in UNITED KINGDOM and SLOVAKIA	NEW product line Decorative Lighting	Building Second Logistic Centre of 4000 sq.m, Retail Franchise ELMARK DIGITAL, E-Business Platform, Mobile Application, Check & Order System

TECHNICAL SUPPORT AND CONSULTING

We operate from 10 different locations across the globe to ensure flexible approach to every project worldwide. Our experienced engineers and advisors have a proven ability to provide technical expertise on different projects from small private clients to large-scale market centres. We ensure viable and sustainable product solutions as well as clear and useful advice.

Our ELMARK library offers a variety of technical documents to provide guidance on standards, safety, usage and installation. Each product dossier contains certificates, Data Sheet with product specification, test reports, Photometric Data (IES) Files that help professionals select products and systems that are most appropriate for their requirements.



LOGISTICS AND SUPPLY CHAIN

Successful inventory management plays a key role for our growth strategy. ELMARK keeps in stock more than 10 000 finished products to answer customer demand and reduce the lead time. Our customized ERP, WMS and digital business solutions increase our organization productivity and visibility at all levels. Flexibility and cost-effective operations helps us increase speed, improve competitiveness and maintain customer satisfaction. ELMARK fleet of vehicles and trusted logistic partners provide fast and reliable delivery solutions.



FLEXIBLE SUPPLY CHAIN

STOCK AVAILABILITIES

MOBILE CHECK & ORDER APP

ECOMMERCE DATABASE

EXTENDED WARRANTY UP TO 7 YEARS

The production of ELMARK products is closely supervised by qualified engineers to guarantee high quality level. We warrant that our products are manufactured in accordance with all applicable European standards and are free from defects in materials and workmanship.

We are proud with **ALLIANZ GERMANY** recognition for the lack of claims for **13 consecutive years** in regard of insurance "Product liability" for **1 500 000 EUR**. ELMARK guarantees professional production and products durability and offers its clients the possibility to receive an Extended Warranty for all ELMARK products that have been purchased.

Extended warranty package:

- total **7 years full warranty** for products in **Automation**
- total **5 years full warranty** for products in **Electrical materials**
- total **5 years full warranty** for products in **LED Lighting**
- total **5 years full warranty** for products in **Decor lighting**



Register your purchase *at www.elmarkholding.eu and get up to* ***7 years extended warranty*** *for ELMARK products.*



For more information read the General Terms and Conditions

Allianz Bulgaria
Insurance Co. Ltd.

General Insurance

TO WHOM IT MAY CONCERN

CERTIFICATE OF COVER

This is to certify that we, "Allianz Bulgaria" Insurance Co., Ltd., Bulgaria, Sofia, IN 040638060, in our capacity as Insurers, have issued an insurance Policy No 13000190390000001 and effected Product Liability insurance as follows:

ASSURED:	**ELMARK INDUSTRIES AD**, BULSTAT No. 124634156, Dobrich, Dobrudzha 2 Boul.
Interest	Production of Miniature Circuit Breakers (MCB), Molded Case Circuit Breakers (MCCB), Residual Current Devices (RCD) and Contactors and Devices for Control and Protection of Electrical Motors. Assembly and testing of Decorative, Luminescent, Industrial and LED lighting.
Limits:	**1 500 000 EUR** any one occurrence **1 500 000 EUR** in aggregate for the insurance period
PERIOD:	TWELVE MONTHS with effect from 01-01-2019
Territorial Scope:	Worldwide except USA and Canada and the territories under their jurisdiction

Warranties, if any :

In the event that the Assured or anyone acting on his behalf uses the above information as evidence for insurance or evidence of financial responsibility under any applicable law relating to nsibility, or otherwise shows or offers it to any other party as evidence of insurance, rly understood that this confirmation relates only to the dates set out above and rance is subject to General Conditions of "Allianz Bulgaria", attached clauses and ns, limitations, exclusions and other provisions of the Insurance Policy issued.

mber 28TH 2018

, Bratya Miladinovi 68 Str., General representation 039, varna.centre@allianz.bg tel.: +35952668733

"ALLIANZ BULGARIA" INS Co., LTD.

Allianz Bulgaria
Insurance Co. Ltd.

Allianz

Allianz Bulgaria
Insurance Co. Ltd.

General Insurance

CERTIFICATE

This is to certify that we, "Allianz Bulgaria" Insurance Co., Ltd., Bulgaria, Sofia, in our capacity as Insurers, have issued Product Liability insurance policies for 13 (thirteen) consecutive years as follows:

ASSURED:	**ELMARK INDUSTRIES SC**, BULSTAT No. 124634156, Dobrich, Dobrudzha 2 Boul., Bulgaria
Interest	Production of Miniature Circuit Breakers (MCB), Molded Case Circuit Breakers (MCCB), Residual Current Devices (RCD) and Contactors and Devices for Control and Protection of Electrical Motors. Assembly and testing of Decorative, Luminescent, Industrial and LED lighting.
Limits:	**1 500 000 EUR** any one occurrence **1 500 000 EUR** in aggregate for the insurance period

We gladly declare that no claim has been raised against ELMARK INDUSTRIES SC and no indemnification has been paid.

Issued on January 30TH 2019

Place of issue: Sofia

Andrey Alexandrov,
Chief Executive Officer
"ALLIANZ BULGARIA" INS Co., LTD.

Allianz Bulgaria
Insurance Co. Ltd. 039

Allianz

Allianz Bulgaria Insurance Co. Ltd. declares that no claim has been raised against ELMARK INDUSTRIES SC and no indemnification has been paid for 13 consecutive years.

BUREAU VERITAS
Certification

ELMARK INDUSTRIES AD

2, Dobrudzha Blvd., 9300 Dobrich, Bulgaria

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standard detailed below

ISO 9001:2015

Scope of certification

Production and trade of Miniature Circuit Breakers (MCB), Molded Case Circuit Breakers (MCCB), Residual Current Devices (RCD) and Contactors and Devices for Control and Protection of Electrical Motors. Assembly and testing of Fluorescent, Industrial and LED lighting. Assembly and testing of decorative lighting.

Original Cycle start date: **7 April 2009**

Recertification cycle start date: **17 March 2018**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **16 March 2021**

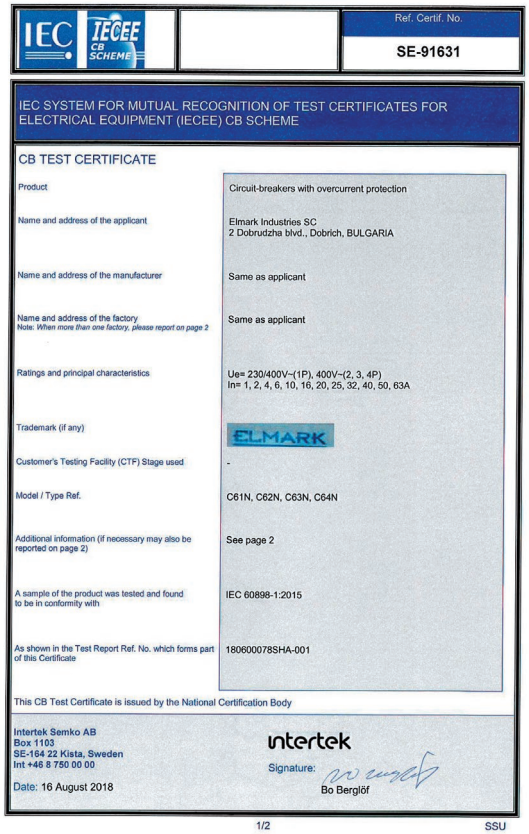
Certificate No: BG.121218Q/U Version 1, Revision date: **7 March 2018**

Certification body address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom
Local Office: 81A, Bulgaria Blvd., 1404 Sofia, Bulgaria

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity please call: +359 (2) 983 60 44

UKAS MANAGEMENT SYSTEMS
0008

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IEC IECEE CB SCHEME

Ref. Certif. No.
SE-91631

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Circuit-breakers with overcurrent protection
Name and address of the applicant	Elmark Industries SC 2 Dobrudzha blvd., Dobrich, BULGARIA
Name and address of the manufacturer	Same as applicant
Name and address of the factory Note: When more than one factory, please report on page 2	Same as applicant
Ratings and principal characteristics	Ue= 230/400V~(1P), 400V~(2, 3, 4P) In= 1, 2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
Trademark (if any)	ELMARK
Customer's Testing Facility (CTF) Stage used	-
Model / Type Ref.	C61N, C62N, C63N, C64N
Additional information (if necessary may also be reported on page 2)	See page 2
A sample of the product was tested and found to be in conformity with	IEC 60898-1:2015
As shown in the Test Report Ref. No. which forms part of this Certificate	180600078SHA-001

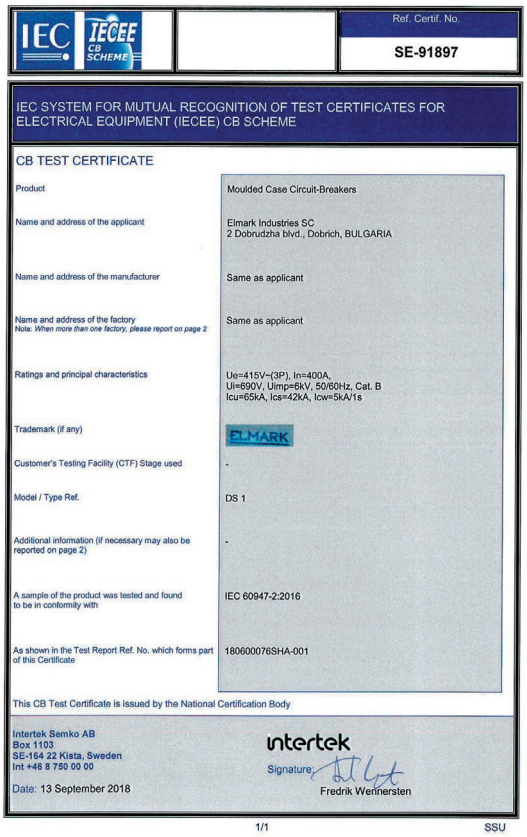
This CB Test Certificate is issued by the National Certification Body

Intertek Semko AB
Box 1103
SE-164 22 Kista, Sweden
Int +46 8 750 00 00

Date: 16 August 2018

intertek
Signature:
Bo Berglöf

1/2 SSU



IEC IECEE CB SCHEME

Ref. Certif. No.
SE-91897

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Moulded Case Circuit-Breakers
Name and address of the applicant	Elmark Industries SC 2 Dobrudzha blvd., Dobrich, BULGARIA
Name and address of the manufacturer	Same as applicant
Name and address of the factory Note: When more than one factory, please report on page 2	Same as applicant
Ratings and principal characteristics	Ue=415V~(3P), In=400A, Ui=690V, Uimp=6kV, 50/60Hz, Cat. B Icu=65kA, Ics=42kA, Icw=5kA/1s
Trademark (if any)	ELMARK
Customer's Testing Facility (CTF) Stage used	-
Model / Type Ref.	DS 1
Additional information (if necessary may also be reported on page 2)	-
A sample of the product was tested and found to be in conformity with	IEC 60947-2:2016
As shown in the Test Report Ref. No. which forms part of this Certificate	180600076SHA-001

This CB Test Certificate is issued by the National Certification Body

Intertek Semko AB
Box 1103
SE-164 22 Kista, Sweden
Int +46 8 750 00 00

Date: 13 September 2018

intertek
Signature:
Fredrik Wennersten

1/1 SSU



Intertek

Certificate

Intertek for European Product Safety

Reference No. 1814486

Circuit-breakers with overcurrent protection

Type designation	C61N, C62N, C63N, C64N
Certificate holder	**Elmark Industries SC** **2 Dobrudzha blvd., Dobrich,** **BULGARIA**
The product complies with the standard(s)	EN 60898-1:2003+A1+A11+A12 +A13
Date of expiry	16 August 2023
EU Directive information	According to the principle of presumption of conformity, this certificate constitutes support for an EC Declaration of Conformity and CE marking according to the Low Voltage Directive 2014/35/EU.

Additional information in Appendix.

Certification Body Intertek Semko AB, Product Certification *Place* Kista - Stockholm

Signed Bo Berglöf *Date* 16 August 2018

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This certificate is issued in accordance with the terms and conditions set out in the Appendix.



Intertek

Certificate

Intertek for European Product Safety

Reference No. 1815647

Moulded Case Circuit-Breakers

Type designation	DS 1
Certificate holder	**Elmark Industries SC** **2 Dobrudzha blvd., Dobrich,** **BULGARIA**
The product complies with the standard(s)	EN 60947-2:2017
Date of expiry	13 September 2023
EU Directive information	According to the principle of presumption of conformity, this certificate constitutes support for an EC Declaration of Conformity and CE marking according to the Low Voltage Directive 2014/35/EU.

Additional information in Appendix.

Certification Body Intertek Semko AB, Product Certification *Place* Kista - Stockholm

Signed Fredrik Wennersten *Date* 13 September 2018

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This certificate is issued in accordance with the terms and conditions set out in the Appendix.

IEC IECEE CB SCHEME

Ref. Certif. No.
SE-92201

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	AC Contactor
Name and address of the applicant	Elmark Industries SC 2 Dobrudzha blvd., Dobrich, Bulgaria
Name and address of the manufacturer	Same as applicant
Name and address of the factory Note: When more than one factory, please report on page 2	Same as applicant
Ratings and principal characteristics	See page 2
Trademark (if any)	ELMARK
Customer's Testing Facility (CTF) Stage used	-
Model / Type Ref.	LT1-D4011, LT1-D5011, LT1-D6511, LT1-D8011, LT1-D9511
Additional information (if necessary may also be reported on page 2)	-
A sample of the product was tested and found to be in conformity with	IEC 60947-4-1:2009+A1 IEC 60947-5-1:2016
As shown in the Test Report Ref. No. which forms part of this Certificate	180600074SHA-001, 180600074SHA-002, 180600074SHA-003

This CB Test Certificate is issued by the National Certification Body

Intertek Semko AB
Box 1103
SE-164 22 Kista, Sweden
Int +46 8 750 00 00

intertek
Signature:
Bo Berglöf

Date: 15 October 2018

1/2 EHG

IEC IECEE CB SCHEME

Ref. Certif. No.
SE-92359

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)
Name and address of the applicant	Elmark Industries SC 2 Dobrudzha blvd., Dobrich, BULGARIA
Name and address of the manufacturer	Same as applicant
Name and address of the factory Note: When more than one factory, please report on page 2	Same as applicant
Ratings and principal characteristics	Un= 240V~(1P+N), 415V~(3P+N), 50/60Hz, switched neutral pole In= 10, 16, 20, 25, 32, 40, 63A; -25~40°C IΔn= 0,03, 0,1, 0,3A, type AC & type A Inc= IΔc= 6000A; IP20
Trademark (if any)	ELMARK
Customer's Testing Facility (CTF) Stage used	-
Model / Type Ref.	JEL1
Additional information (if necessary may also be reported on page 2)	-
A sample of the product was tested and found to be in conformity with	IEC 61008-1:2010+A1+A2 IEC 61008-2-1:1990
As shown in the Test Report Ref. No. which forms part of this Certificate	180600072SHA-001

This CB Test Certificate is issued by the National Certification Body

Intertek Semko AB
Box 1103
SE-164 22 Kista, Sweden
Int +46 8 750 00 00

intertek
Signature:
Paul Klemets

Date: 31 October 2018

1/1 EHG

intertek
Total Quality. Assured.

Certificate

Intertek for European Product Safety

Reference No. 1817119

AC Contactor

Type designation	LT1-D4011, LT1-D5011, LT1-D6511, LT1-D8011, LT1-D9511
Certificate holder	**Elmark Industries SC** **2 Dobrudzha blvd., Dobrich,** **BULGARIA**
The product complies with the standard(s)	EN 60947-4-1:2010+A1 EN 60947-5-1:2017
Date of expiry	15 October 2023
EU Directive information	According to the principle of presumption of conformity, this certificate constitutes support for an EC Declaration of Conformity and CE marking according to the Low Voltage Directive 2014/35/EU.

Additional information in Appendix.

Certification Body Intertek Semko AB, Product Certification *Place* Kista - Stockholm

Signed Bo Berglöf *Date* 15 October 2018

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This certificate is issued in accordance with the terms and conditions set out in the Appendix.

intertek
Total Quality. Assured.

Certificate

Intertek for European Product Safety

Reference No. 1817803

Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)

Type designation	JEL1
Certificate holder	**Elmark Industries SC** **2 Dobrudzha blvd., Dobrich,** **BULGARIA**
The product complies with the standard(s)	EN 61008-2-1:1994+A11 EN 61008-1:2012+A1+A2+A11+A12
Date of expiry	31 October 2023
EU Directive information	According to the principle of presumption of conformity, this certificate constitutes support for an EC Declaration of Conformity and CE marking according to the Low Voltage Directive 2014/35/EU.

Additional information in Appendix.

Certification Body Intertek Semko AB, Product Certification *Place* Kista - Stockholm

Signed Helen Gustafsson *Date* 31 October 2018

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This certificate is issued in accordance with the terms and conditions set out in the Appendix.

AUTOMATION



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C60N-6kA
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C100L-10kA
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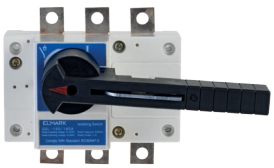
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ISS2
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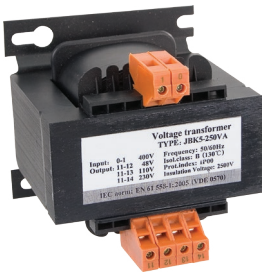
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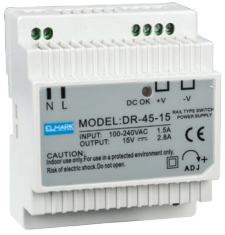
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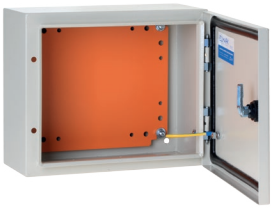
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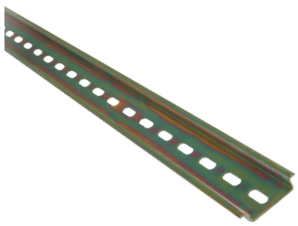
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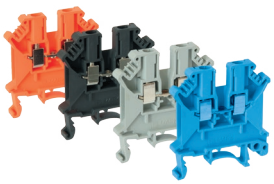
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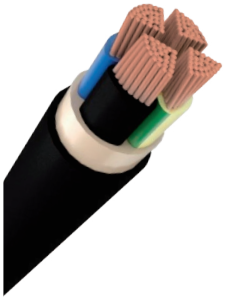


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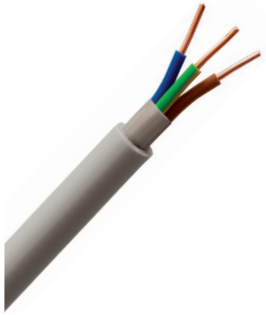
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NYY
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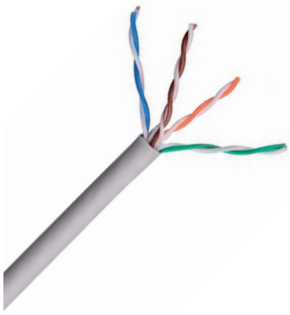
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SMART HOME CONTROL



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WIRELESS REMOTE
SMART HOME CONTROL
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WIFI RELAY
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RF DIMMER SWITCH
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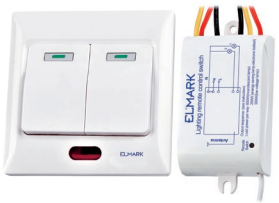
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REMOTE CONTROL SWITCH
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Wi-Fi SMART CAMERA
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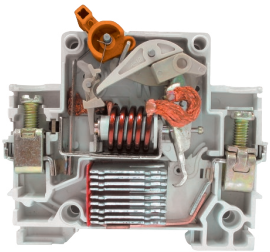


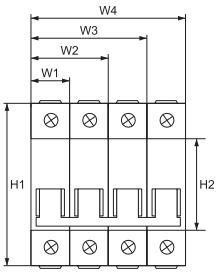
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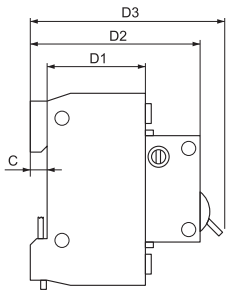
C4XN
- number of poles (1,2,3)
- breaking capacity in (kA)
- tripping curve C

C X
- rated current in (A)
- tripping curve C

Documents corresponding to the product:
Standard EN60898-1
EN60947-2







Dimensions (mm)

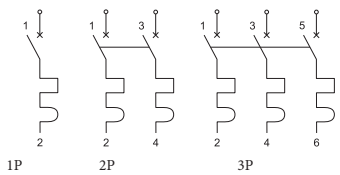
C	D1	D2	D3	H1
5	40	65	72	78
H2	W1	W2	W3	W4
45	18	36	54	72

MINIATURE CIRCUIT BREAKERS (MCB) C40N

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

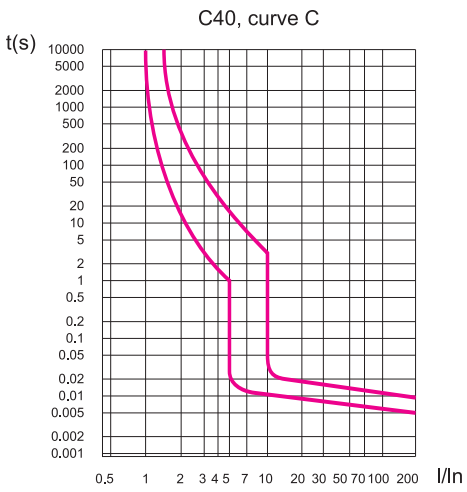
FUNCTIONS:
- protection of the electrical circuits from overload or short circuits of the outer circuit
- it can be used as a device for commutation and control of electrical circuits
- in combination with auxiliary devices it allows remote control, commutation or indication of the protected circuit
- for mounting in residential and industrial buildings
- for mounting at a distance from the transformer post from 150 to 850 m
- allows protection of consumers generating short circuit currents up to 4500 A

TECHNICAL DATA:
- Rated voltage: 230/400V; 50/60Hz
- Breaking capacity (cycle O-CO) in accordance with standard EN 60 898-1: 4500A
- Rated breaking capacity Ics= 75% Icu
- Isolating voltage:≥2000V
- Electrical wear resistance (number of cycles): 4000
- Mechanical (number of cycles): 20000
- Class of current limiting:3
- IP code: IP>20
- Tripping:
  - C – the maximum current release breaks between 5 and 10 In; used to protect main power supply cables and conventional consumers
- Joining terminal: flat (tunnel) screw terminal with composition 1.5 coldly draw-plated plane Q235– A
- Plastic box – not keeping the burning material nylon PA66, UV rays wear resistance
- Box permitivity strength: >18MV/m
- Abnormal heating wear resistance and fire of the outer parts: 960°C / 3s



- Maximum current release containing:
  - copper coil - composition: pure copper T2 type
  - resistance: from 0.6 to 180m
  - welding effort: <150 000 N/mm
  - bimetal plate – composition: 5J158 to TB180 depending on the current
  - thickness: 0.6mm (up to 40A) and 0.8mm (up to 63A)
  - magnetic core – composition: coldly draw-plated metal wire (1Gr18Ni9)
  - thickness: 1.15 to 2.24µm
  - drawing effort: from 200 to 400N/mm
  - contact head of the movable contact – composition: silver graphite CAg(5)
  - dimension 3x3x0.8 (up to 40A) and 4x4x0.8 (up to 63A)
  - static contact – composition: pure copper T2Y2
  - composition of the contact head: silver graphite CAg(5)
- Power supply (conducting)
  - power supply busbar 1P63, 2P63, 3P63
  - rigid conductors up to 25 mm
  - flexible conductors up to 16 mm
- Tightening moment:1.33Nm

MOUNTING:
- vertical
- DIN-rail
- for mounting in housing or industrial environment without serious interference
- ambient temperature: -5°C to + 65°C±2° C



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C
C41N / 2A	1P	2	4.5	1.0	12 / 240	**41460C**
C41N / 4A	1P	4	4.5	1.0	12 / 240	**41461C**
C41N / 6A	1P	6	4.5	1.0	12 / 240	**41451C**
C41N / 10A	1P	10	4.5	1.5	12 / 240	**41452C**
C41N / 16A	1P	16	4.5	2.5	12 / 240	**41453C**
C41N / 20A	1P	20	4.5	2.5	12 / 240	**41454C**
C41N / 25A	1P	25	4.5	4.0	12 / 240	**41455C**
C41N / 32A	1P	32	4.5	6.0	12 / 240	**41456C**
C41N / 40A	1P	40	4.5	10.0	12 / 240	**41457C**
C41N / 50A	1P	50	4.5	10.0	12 / 240	**41458C**
C41N / 63A	1P	63	4.5	16.0	12 / 240	**41459C**



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C
C42N / 6A	2P	6	4.5	1.0	6 / 120	**41470C**
C42N / 10A	2P	10	4.5	1.5	6 / 120	**41471C**
C42N / 16A	2P	16	4.5	2.5	6 / 120	**41472C**
C42N / 20A	2P	20	4.5	2.5	6 / 120	**41473C**
C42N / 25A	2P	25	4.5	4.0	6 / 120	**41474C**
C42N / 32A	2P	32	4.5	6.0	6 / 120	**41475C**
C42N / 40A	2P	40	4.5	10.0	6 / 120	**41476C**
C42N / 50A	2P	50	4.5	10.0	6 / 120	**41477C**
C42N / 63A	2P	63	4.5	16.0	6 / 120	**41478C**



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C
C43N / 6A	3P	6	4.5	1.0	4 / 80	**41541C**
C43N / 10A	3P	10	4.5	1.5	4 / 80	**41542C**
C43N / 16A	3P	16	4.5	2.5	4 / 80	**41543C**
C43N / 20A	3P	20	4.5	2.5	4 / 80	**41544C**
C43N / 25A	3P	25	4.5	4.0	4 / 80	**41545C**
C43N / 32A	3P	32	4.5	6.0	4 / 80	**41546C**
C43N / 40A	3P	40	4.5	10.0	4 / 80	**41547C**
C43N / 50A	3P	50	4.5	10.0	4 / 80	**41548C**
C43N / 63A	3P	63	4.5	16.0	4 / 80	**41549C**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



UNTIL SUPPLY **LAST**

Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C
C41N/6A	1P	6	4.5	1.0	12/240	**71106**
C41N/10A	1P	10	4.5	1.5	12/240	**71110**
C41N/20A	1P	20	4.5	2.5	12/240	**71120**
C41N/25A	1P	25	4.5	4.0	12/240	**71125**
C41N/32A	1P	32	4.5	6.0	12/240	**71332**
C41N/40A	1P	40	4.5	10.0	12/240	**71140**
C41N/50A	1P	50	4.5	10.0	12/240	**71150**

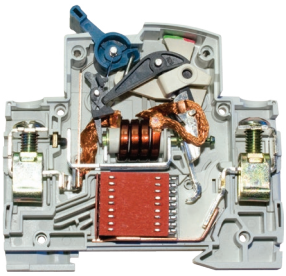


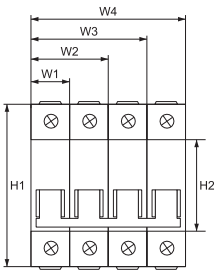
UNTIL SUPPLY **LAST**

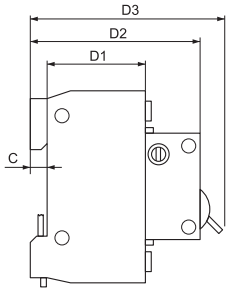
Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C
C43N/6A	3P	6	4.5	1.0	1/4	**71306**
C43N/10A	3P	10	4.5	1.5	1/4	**71310**
C43N/16A	3P	16	4.5	2.5	1/4	**71316**
C43N/20A	3P	20	4.5	2.5	1/4	**71320**
C43N/25A	3P	25	4.5	4.0	1/4	**71325**
C43N/32A	3P	32	4.5	6.0	1/4	**71332**

C6XN
- number of poles (1,2,3,4)
- breaking capacity in (kA)
- tripping curve C
- **C X** — rated current in (A)
- tripping curve C,B

Documents corresponding to the product:
Standard EN60898-1







Dimensions (mm)

C	D1	D2	D3	H1
5	50	65	72	81
H2	W1	W2	W3	W4
45	18	36	54	72

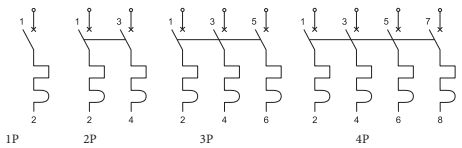
MINIATURE CIRCUIT BREAKERS (MCB) C60N

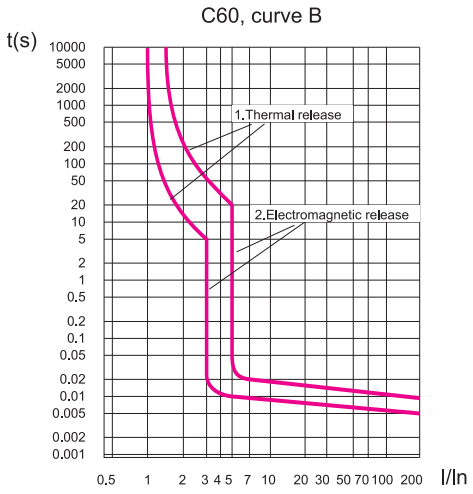
7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

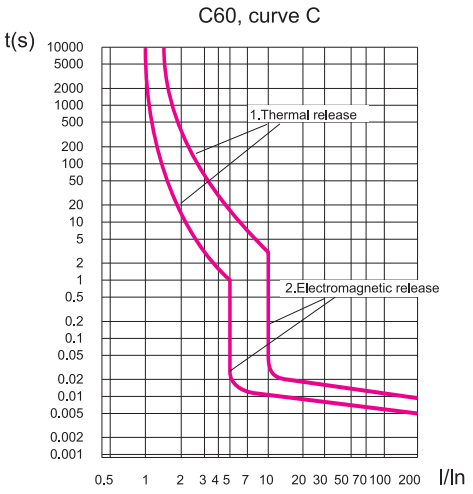
FUNCTIONS:
- protection of the electrical circuits from overload or short circuits of the outer circuit
- it can be used as a device for commutation and control of electrical circuits
- in combination with auxiliary devices it allows remote control, commutation or indication of the protected circuit
- for mounting in industrial buildings with high contamination level of the electric systems
- for mounting at a distance from the transformer post from 150 to 850 m
- allows protection of consumers generating short circuit currents up to 6000 A

TECHNICAL DATA:
- Rated voltage: 230/400V; 50/60Hz
- Breaking capacity (cycle O-CO) in accordance with standard EN 60 898-1: 6000A
- Rated breaking capacity Ics= 75% Icu
- Isolating voltage:≥2000V
- Electrical wear resistance (number of cycles): 8000
- Mechanical (number of cycles): 50000
- Class of current limiting: 3
- IP code: IP>20
- Tripping curve:
  - B – the maximum current release breaks between 3 and 5 In; used to protect long circuits and generators
  - C – the maximum current release breaks between 5 and 10 In; used to protect main power supply cables and conventional consumers
- Joining terminal: Combined screw clamp made of 1.5 cold extruded Q235-A material with additional coating
- Plastic box – not keeping the burning material nylon PA66, UV rays wear resistance
- Status indicator
- Box permitivity strength: >18MV/m
- Abnormal heating wear resistance and fire of the outer parts: 960°C / 3s
- Heat resistance of internal non-electrical components: 850°C / 10 s
- Maximum current release containing:
  - copper coil - composition: pure copper T2 type
  - resistance: from 0.6 to 180m
  - welding effort: <150 000 N/mm
  - bimetal plate – composition: 5J158 to TB180 depending on the current
  - thickness: 0.6mm (up to 40A) and 0.8mm (up to 63A)
  - magnetic core – composition: coldly draw-plated metal wire (1Gr18Ni9)
  - thickness: 1.15 to 2.24µm
  - drawing effort: from 200 to 400N/mm
  - contact head of the movable contact – composition: silver graphite CAg(5)
  - dimension 3x3x0.8 (up to 40A) and 4x4x0.8 (up to 63A)
  - static contact – composition: pure copper T2Y2
  - composition of the contact head: silver graphite CAg(5)
- Power supply (conducting)
  - power supply busbar 1P63, 2P63, 3P63
  - rigid conductors up to 25 mm
  - flexible conductors up to 16 mm
- Tightening moment: 1.33Nm

MOUNTING:
- vertical
- DIN-rail
- for mounting in housing or industrial environment without serious interference
- ambient temperature: -5°C to + 65°C±2° C







In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductors (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C	Catalogue number Curve B
C61N / 1A	1P	1	6	1.0	12 / 240	**41100N**	**41501N**
C61N / 2A	1P	2	6	1.0	12 / 240	**41102N**	**41502N**
C61N / 4A	1P	4	6	1.0	12 / 240	**41104N**	**41504N**
C61N / 6A	1P	6	6	1.0	12 / 240	**41106N**	**41506N**
C61N / 10A	1P	10	6	1.5	12 / 240	**41110N**	**41510N**
C61N / 16A	1P	16	6	2.5	12 / 240	**41116N**	**41516N**
C61N / 20A	1P	20	6	2.5	12 / 240	**41120N**	**41520N**
C61N / 25A	1P	25	6	4.0	12 / 240	**41125N**	**41525N**
C61N / 32A	1P	32	6	6.0	12 / 240	**41132N**	**41532N**
C61N / 40A	1P	40	6	10.0	12 / 240	**41140N**	**41540N**
C61N / 50A	1P	50	6	10.0	12 / 240	**41150N**	**41550N**
C61N / 63A	1P	63	6	16.0	12 / 240	**41163N**	**41563N**



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C	Catalogue number Curve B
C62N / 2A	2P	2	6	1.0	6 / 120	**41202N**	**41602N**
C62N / 4A	2P	4	6	1.0	6 / 120	**41204N**	**41604N**
C62N / 6A	2P	6	6	1.0	6 / 120	**41206N**	**41606N**
C62N / 10A	2P	10	6	1.5	6 / 120	**41210N**	**41610N**
C62N / 16A	2P	16	6	2.5	6 / 120	**41216N**	**41616N**
C62N / 20A	2P	20	6	2.5	6 / 120	**41220N**	**41620N**
C62N / 25A	2P	25	6	4.0	6 / 120	**41225N**	**41625N**
C62N / 32A	2P	32	6	6.0	6 / 120	**41232N**	**41632N**
C62N / 40A	2P	40	6	10.0	6 / 120	**41240N**	**41640N**
C62N / 50A	2P	50	6	10.0	6 / 120	**41250N**	**41650N**
C62N / 63A	2P	63	6	16.0	6 / 120	**41263N**	**41663N**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C	Catalogue number Curve B
C63N/2A	3P	2	6	1.0	4 / 80	**41302N**	**41702N**
C63N/4A	3P	4	6	1.0	4 / 80	**41304N**	**41704N**
C63N / 6A	3P	6	6	1.0	4 / 80	**41306N**	**41706N**
C63N / 10A	3P	10	6	1.5	4 / 80	**41310N**	**41710N**
C63N / 16A	3P	16	6	2.5	4 / 80	**41316N**	**41716N**
C63N / 20A	3P	20	6	2.5	4 / 80	**41320N**	**41720N**
C63N / 25A	3P	25	6	4.0	4 / 80	**41325N**	**41725N**
C63N / 32A	3P	32	6	6.0	4 / 80	**41332N**	**41732N**
C63N / 40A	3P	40	6	10.0	4 / 80	**41340N**	**41740N**
C63N / 50A	3P	50	6	10.0	4 / 80	**41350N**	**41750N**
C63N / 63A	3P	63	6	16.0	4 / 80	**41363N**	**41763N**



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C	Catalogue number Curve B
C64N / 2A	4P	2	6	1.0	3 / 60	**41402N**	**41802N**
C64N / 4A	4P	4	6	1.0	3 / 60	**41404N**	**41804N**
C64N / 6A	4P	6	6	1.0	3 / 60	**41406N**	**41806N**
C64N / 10A	4P	10	6	1.5	3 / 60	**41410N**	**41810N**
C64N / 16A	4P	16	6	2.5	3 / 60	**41416N**	**41816N**
C64N / 20A	4P	20	6	2.5	3 / 60	**41420N**	**41820N**
C64N / 25A	4P	25	6	4.0	3 / 60	**41425N**	**41825N**
C64N / 32A	4P	32	6	6.0	3 / 60	**41432N**	**41832N**
C64N / 40A	4P	40	6	10.0	3 / 60	**41440N**	**41840N**
C64N / 50A	4P	50	6	10.0	3 / 60	**41450N**	**41850N**
C64N / 63A	4P	63	6	16.0	3 / 60	**41463N**	**41863N**



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductors (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C
C61N / 1A	1P	1	6	1.0	12 / 240	**41100**
C61N / 2A	1P	2	6	1.0	12 / 240	**41102**
C61N / 4A	1P	4	6	1.0	12 / 240	**41104**
C61N / 6A	1P	6	6	1.0	12 / 240	**41106**
C61N / 10A	1P	10	6	1.5	12 / 240	**41110**
C61N / 16A	1P	16	6	2.5	12 / 240	**41116**
C61N / 20A	1P	20	6	2.5	12 / 240	**41120**
C61N / 25A	1P	25	6	4.0	12 / 240	**41125**
C61N / 32A	1P	32	6	6.0	12 / 240	**41132**
C61N / 40A	1P	40	6	10.0	12 / 240	**41140**
C61N / 50A	1P	50	6	10.0	12 / 240	**41150**
C61N / 63A	1P	63	6	16.0	12 / 240	**41163**

UNTIL SUPPLY **LAST**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



UNTIL SUPPLY **LAST**

Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm^2)	Packing/Box (pcs)	Catalogue number Curve C
C62N / 2A	2P	2	6	1.0	6 / 120	**41202**
C62N / 4A	2P	4	6	1.0	6 / 120	**41204**
C62N / 6A	2P	6	6	1.0	6 / 120	**41206**
C62N / 10A	2P	10	6	1.5	6 / 120	**41210**
C62N / 20A	2P	20	6	2.5	6 / 120	**41220**
C62N / 25A	2P	25	6	4.0	6 / 120	**41225**
C62N / 32A	2P	32	6	6.0	6 / 120	**41232**
C62N / 40A	2P	40	6	10.0	6 / 120	**41240**
C62N / 50A	2P	50	6	10.0	6 / 120	**41250**



UNTIL SUPPLY **LAST**

Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm^2)	Packing/Box (pcs)	Catalogue number Curve C
C63N/2A	3P	2	6	1.0	4 / 80	**41302**
C63N/4A	3P	4	6	1.0	4 / 80	**41304**
C63N / 6A	3P	6	6	1.0	4 / 80	**41306**
C63N / 10A	3P	10	6	1.5	4 / 80	**41310**
C63N / 16A	3P	16	6	2.5	4 / 80	**41316**
C63N / 20A	3P	20	6	2.5	4 / 80	**41320**
C63N / 25A	3P	25	6	4.0	4 / 80	**41325**
C63N / 32A	3P	32	6	6.0	4 / 80	**41332**
C63N / 40A	3P	40	6	10.0	4 / 80	**41340**
C63N / 50A	3P	50	6	10.0	4 / 80	**41350**
C63N / 63A	3P	63	6	16.0	4 / 80	**41363**



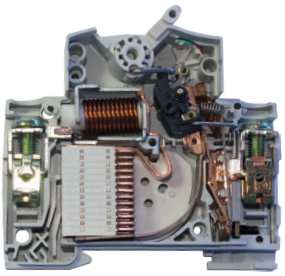
UNTIL SUPPLY **LAST**

Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm^2)	Packing/Box (pcs)	Catalogue number Curve C
C64N / 10A	4P	10	6	1.5	3 / 60	**41410**
C64N / 16A	4P	16	6	2.5	3 / 60	**41416**
C64N / 20A	4P	20	6	2.5	3 / 60	**41420**
C64N / 25A	4P	25	6	4.0	3 / 60	**41425**

C10XL
- number of poles (1,2,3)
- breaking capacity in (kA)
- tripping curve B, C

C X
- rated current in (A)
- tripping curve C, B

Documents corresponding to the product:
Standard EN60898-1
EN60947-2



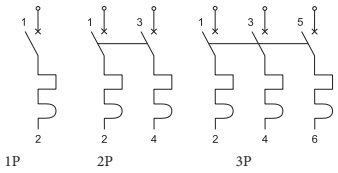
MINIATURE CIRCUIT BREAKERS (MCB) C100L

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

FUNCTIONS:
- protection of the electrical circuits from overload or short circuits of the outer circuit
- it can be used as a device for commutation and control of electrical circuits
- in combination with auxiliary devices it allows remote control, commutation or indication of the protected circuit

TECHNICAL DATA:
- Rated voltage: 230/400V; 50/60Hz
- Breaking capacity (cycle O-CO) in accordance with standard EN 60 898-1: 10000A
- Rated breaking capacity Ics= 75% Icu
- Isolating volatage:≥2000V, 1 min at impulse wave 1.2/50μs
- Electrical wear resistance (number of cycles):≥4000
- Mechanical wear resistance (number of cycles): ≥20000
- Class of current limiting:3
- IP code: IP>20
- Tripping curve: C

MOUNTING:
- vertical
- DIN-rail
- possibility for labeling





Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductors (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C	Catalogue number Curve B
C101L/6A	1P	6	10	1.0	12 / 240	**41101**	**41101B**
C101L/10A	1P	10	10	1.5	12 / 240	**41103**	**41103B**
C101L/16A	1P	16	10	2.5	12 / 240	**41105**	**41105B**
C101L/20A	1P	20	10	2.5	12 / 240	**41107**	**41107B**
C101L/25A	1P	25	10	4.0	12 / 240	**41108**	**41108B**
C101L/32A	1P	32	10	6.0	12 / 240	**41109**	**41109B**
C101L/40A	1P	40	10	10.0	12 / 240	**41111**	**41111B**
C101L/50A	1P	50	10	10.0	12 / 240	**41112**	**41112B**
C101L/63A	1P	63	10	16.0	12 / 240	**41113**	**41113B**



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductors (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C	Catalogue number Curve B
C102L/6A	2P	6	10	1.0	6/120	**41201**	**41201B**
C102L/10A	2P	10	10	1.5	6/120	**41203**	**41203B**
C102L/16A	2P	16	10	2.5	6/120	**41205**	**41205B**
C102L/20A	2P	20	10	2.5	6/120	**41207**	**41207B**
C102L/25A	2P	25	10	4.0	6/120	**41208**	**41208B**
C102L/32A	2P	32	10	6.0	6/120	**41209**	**41209B**
C102L/40A	2P	40	10	10.0	6/120	**41211**	**41211B**
C102L/50A	2P	50	10	10.0	6/120	**41212**	**41212B**
C102L/63A	2P	63	10	16.0	6/120	**41213**	**41213B**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductors (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C	Catalogue number Curve B
C103L/6A	3P	6	10	1.0	4 / 80	**41301**	**41301B**
C103L/10A	3P	10	10	1.5	4 / 80	**41303**	**41303B**
C103L/16A	3P	16	10	2.5	4 / 80	**41305**	**41305B**
C103L/20A	3P	20	10	2.5	4 / 80	**41307**	**41307B**
C103L/25A	3P	25	10	4.0	4 / 80	**41308**	**41308B**
C103L/32A	3P	32	10	6.0	4 / 80	**41309**	**41309B**
C103L/40A	3P	40	10	10.0	4 / 80	**41311**	**41311B**
C103L/50A	3P	50	10	10.0	4 / 80	**41312**	**41312B**
C103L/63A	3P	63	10	16.0	4 / 80	**41313**	**41313B**



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductors (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C	Catalogue number Curve B
C104L/6A	4P	6	10	1.0	3/60	**41401**	**41401B**
C104L/10A	4P	10	10	1.5	3/60	**41403**	**41403B**
C104L/16A	4P	16	10	2.5	3/60	**41405**	**41405B**
C104L/20A	4P	20	10	2.5	3/60	**41407**	**41407B**
C104L/25A	4P	25	10	4.0	3/60	**41408**	**41408B**
C104L/32A	4P	32	10	6.0	3/60	**41409**	**41409B**
C104L/40A	4P	40	10	10.0	3/60	**41411**	**41411B**
C104L/50A	4P	50	10	10.0	3/60	**41412**	**41412B**
C104L/63A	4P	63	10	16.0	3/60	**41413**	**41413B**

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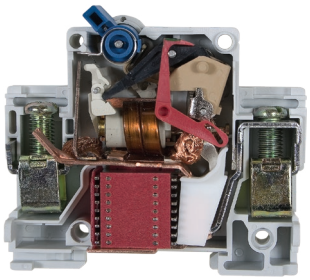
C100M constructive series
number of poles (1;2;3;4)

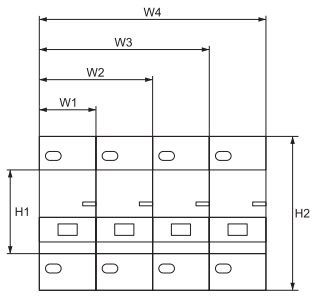
D X rated current
tripping curve C, D, B

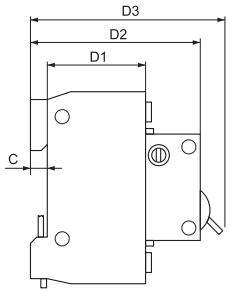
Documents corresponding to the product:
Standard EN60898-1
EN 60947-2

MINIATURE CIRCUIT BREAKERS (MCB) C100M

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty







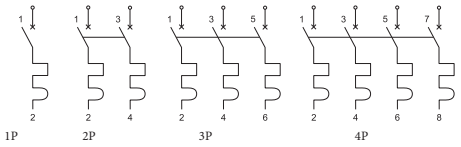
Dimensions (mm)

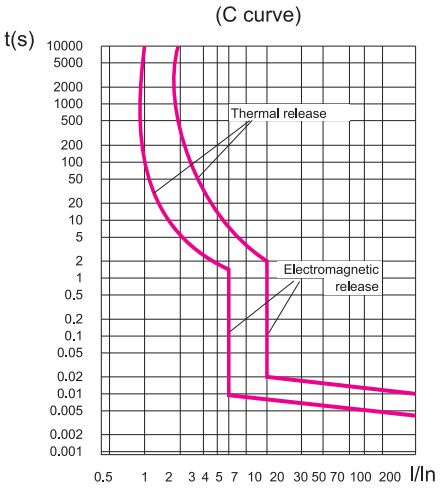
C	D1	D2	D3	H1
5	50	65	74	45
H2	W1	W2	W3	W4
81	27	54	81	108

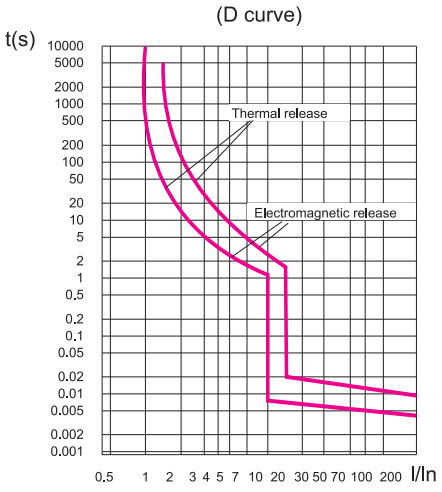
FUNCTIONS:
- protection of the electrical circuits from overload or short circuits of the outer circuit
- it can be used as a device for commutation and control of electrical circuits
- in combination with auxiliary devices it allows remote control, commutation or indication of the protected circuit

TECHNICAL DATA:
- Rated voltage: 230/400V; 50/60Hz
- Breaking capacity (cycle O-CO) in accordance with standard EN 60 898-1: 10000A
- Rated breaking capacity Ics= 75% Icu
- Isolating volatage:≥2000V
- Electrical wear resistance (number of cycles):≥4000
- Mechanical wear resistance (number of cycles):≥20000
- Class of current limiting:3
- IP code: IP>20
- Tripping curve: C,D
- Joining terminal: flat (tunnel) screw terminal with composition 1.5 coldly draw-plated plane Q235 – A
- Plastic box – not keeping the burning material nylon PA66, UV rays wear resistance
- Box permitivity strength: >18MV/m
- Abnormal heating wear resistance and fire of the outer parts: 960°C / 3s
- Maximum current release containing:
  - copper coil - composition: pure copper T2 type
  - resistance: from 148 to 230m
  - welding effort: <400 N/
  - bimetal plate – composition: TB180/0.5
  - thickness: 0.8mm
  - magnetic core – composition: coldly draw-plated metal wire (1Gr18Ni9)
  - thickness: 1.15 to 2.24µm
  - drawing effort: 20N/mm^2
  - contact head of the movable contact – composition: silver graphite CAg(5)
  - dimension 6x6x1
  - static contact – composition: pure copper T2Y2
  - composition of the contact head: silver graphite CAg(5)
- Power supply (conducting)
  - power supply busbar
  - rigid conductors up to 50
  - flexible conductors up to 35
- Tightening moment:1.33Nm

MOUNTING:
- vertical
- DIN-rail
- possibility for labeling
- for mounting in industrial environment
- ambient temperature: -5°C to + 65°C±2° C







In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Packing/Box (pcs)	Catalogue number Curve B	Catalogue number Curve C	Catalogue number Curve D
C100M	1P	80	10	9 / 180	**41180B**	**41180**	**41180D**
C100M	1P	100	10	9 / 180	**41190B**	**41190**	**41190D**
C100M	1P	125	10	9 / 180	**41195B**	**41195**	**41195D**



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Packing/Box (pcs)	Catalogue number Curve B	Catalogue number Curve C	Catalogue number Curve D
C100M	2P	80	10	6 / 120	**41282**	**41280**	**41281**
C100M	2P	100	10	6 / 120	**41292**	**41290**	**41291**



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Packing/Box (pcs)	Catalogue number Curve B	Catalogue number Curve C	Catalogue number Curve D
C100M	3P	80	10	4 / 60	**41382**	**41380**	**41381**
C100M	3P	100	10	4 / 60	**41392**	**41390**	**41391**

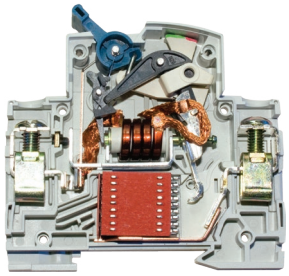


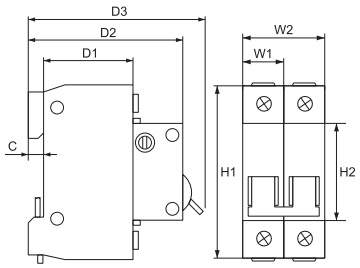
Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Packing/Box (pcs)	Catalogue number Curve B	Catalogue number Curve C	Catalogue number Curve D
C100M	4P	80	10	3 / 60	**41482**	**41480**	**41481**
C100M	4P	100	10	3 / 60	**41492**	**41490**	**41491**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

C6XDC
- number of poles (1,2)
- breaking capacity in (kA)
- tripping curve C
- **C X** — rated current in (A)
- tripping curve C

Documents corresponding to the product:
Standard EN60898-1
EN60898-2





Dimensions (mm)

C	D1	D2	D3
5	49	65	72
H1	H2	W1	W2
78	45	18	36

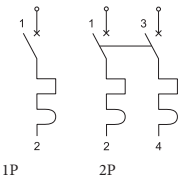
MINIATURE CIRCUIT BREAKERS (MCB) C60DC

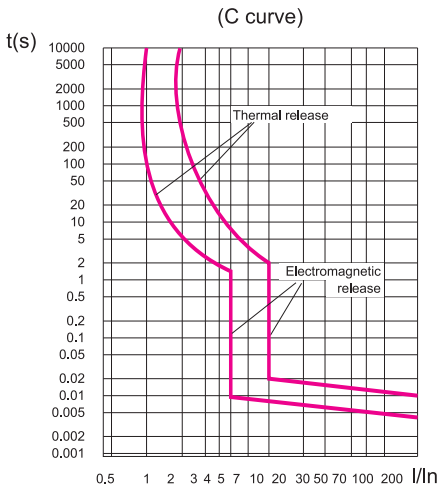
7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

FUNCTIONS:
- for lowering constant current voltaic arc and use of the breaker at constant current consumer protection
- protection of the electrical circuits from overload or short circuit of the outer circuit at alternating current and constant current power supply circuits
- for commutation and control of electrical circuits
- in combination with auxiliary alternating current devices for remote control, commutation or indication of the protected circuit
- for mounting in industrial buildings
- for protection of consumers generating short circuit currents to 6000 A at alternating current power supply

TECHNICAL DATA:
- Rated voltage: 240V; AC/DC
- Breaking capacity (cycle O -CO) in accordance with standard EN 60 898- 1: 6000A
- Rated breaking capacity Ics=75% Icu
- Insulating voltage: ≥2000V
- Electrical wear resistance (number of cycles): ≥4000
- Mechanical wear resistance (number of cycles): ≥20000
- Class of current limiting: 3
- IP code: IP>20
- Tripping curve: C – the maximum current release breaks between 5 and 10 In; used to protect power supply cables and conventional consumers
- Joining terminal: flat (tunnel) screw terminal with composition 1.5 coldly draw-plated plane Q235– A
- Plastic box – not keeping the burning material nylon PA66, UV rays wear resistance
- Box permitivity strength: >18MV/m
- Abnormal heating wear resistance and fire of the outer parts: 960°C / 3s
- Maximum current release containing:
  - copper coil - composition: pure copper T2 type
  - resistance: from 0.6 to 180m
  - welding effort: <150 000 N/mm
  - bimetal plate – composition: 5J158 to TB180 according to the current
  - thickness: 0.6mm (up to 40A) and 0.8mm (up to 63A)
  - magnetic core – composition: coldly draw-plated metal wire (1Gr18Ni9)
  - thickness: 1.15 to 2.24µm
  - drawing effort: from 200 to 400N/mm
  - contact head of the movable contact – composition: silver graphite CAg(5)
  - dimension 3x3x0.8 (up to 40A) and 4x4x0.8 (up to 63A)
  - static contact – composition: pure copper T2Y2
  - composition of the contact head: silver graphite CAg(5)
  - metal magnetic plate for lowering the constant current arc
- Conducting:
  - power supply busbar 1P63, 2P63
  - rigid conductors up to 25 mm
  - flexible conductors up to 16 mm
- Tightening moment: 1.33Nm

MOUNTING
- vertical
- DIN-rail
- for mounting in housing or industrial environment without serious current interference
- Ambient temperature: -5°C to + 65°C±2° C





In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C
61DC / 1A	1P	1	6	1.0	12 / 240	**41164**
61DC / 2A	1P	2	6	1.0	12 / 240	**41165**
61DC / 4A	1P	4	6	1.0	12 / 240	**41166**
61DC / 6A	1P	6	6	1.0	12 / 240	**41167**
61DC / 10A	1P	10	6	1.5	12 / 240	**41168**
61DC / 16A	1P	16	6	2.5	12 / 240	**41169**
61DC / 20A	1P	20	6	2.5	12 / 240	**41170**
61DC / 25A	1P	25	6	4.0	12 / 240	**41171**
61DC / 32A	1P	32	6	6.0	12 / 240	**41172**
61DC / 40A	1P	40	6	10.0	12 / 240	**41173**
61DC / 50A	1P	50	6	10.0	12 / 240	**41174**
61DC / 63A	1P	63	6	16.0	12 / 240	**41175**



Type	Number of poles	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C
62DC / 2A	2P	2	6	1.0	6 / 120	**41176**
62DC / 4A	2P	4	6	1.0	6 / 120	**41177**
62DC / 6A	2P	6	6	1.0	6 / 120	**41178**
62DC / 10A	2P	10	6	1.5	6 / 120	**41179**
62DC / 16A	2P	16	6	2.5	6 / 120	**41181**
62DC / 20A	2P	20	6	2.5	6 / 120	**41182**
62DC / 25A	2P	25	6	4.0	6 / 120	**41183**

MINIATURE CIRCUIT BREAKERS DP1N (1P + E)

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty



FUNCTIONS:
- protection of the electrical circuits from overload or short circuit of the outer circuit
- it can be used as a device for commutation and control of electrical circuits
- it breaks simultaneously the lead and the neutral conductor as the heat protection is only at the lead conductor

TECHNICAL DATA:
- Rated voltage: 230V; 50/60Hz
- Breaking capacity (cycle O-CO) in accordance with standard EN 60 898-1: 4500 A
- Rated breaking capacity Ics = 50% Icu
- Insulating voltage: ≥2000V
- IP code: IP>20
- Tripping curve: C – the maximum current release breaks between 5 and 10 In; used to protect main power supply
- cables and conventional consumers

CONNECTING:
- Joining terminal: flat (tunnel) screw terminal
- Power supply (conducting):
  - power supply busbar DP1N
  - flexible or rigid conductor
- Mounting: on DIN-rail

Type	Rated current In (A)	Breaking capacity (kA)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number Curve C
DP1N / 6	6	4.5	1.0	12 / 240	**41006**
DP1N / 10	10	4.5	1.5	12 / 240	**41010**
DP1N / 16	16	4.5	2.5	12 / 240	**41016**
DP1N / 20	20	4.5	2.5	12 / 240	**41020**
DP1N / 25	25	4.5	4.0	12 / 240	**41025**
DP1N / 32	32	4.5	6.0	12 / 240	**41032**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
EN 60255-1; IEC60947-5-1

SINGLE POLE MONITORING VOLTAGE RELAY MN1

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty



FUNCTIONS:
- Protect electrical equipment from over & under voltage
- Voltage measurement accuracy <1%
- Relay status is indicated by LED

TECHNICAL CHARACTERISTICS:
- Rated voltage: 220V AC; 50/60Hz
- Hysteresis: 0-20% adjustable
- Time dalay: 0.1-10s adjustable
- Reset time: 0.2 sec max
- Current ratting: 3A/AC-15
- Mechanical life: $1X10^7$
- Electrical life: $1X10^5$
- Ambiente temperature: -10C°/+55C°
- Dimensions: 90x18x64mm
- Mounting: on DIN rail

Type	Rated voltage	Hysteresis	Packing/Box (pcs)	Catalogue number
ELMARK MN1	220V AC	0-20% adjustable	12 / 240	**41900**

Documents corresponding to the product:
EN 60255-1; IEC60947-5-1

THREE POLE MONITORING VOLTAGE RELAY MN3

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty



FUNCTIONS:
- Protect electrical equipment from over & under voltage
- Voltage measurement accuracy <1%
- Relay status is indicated by LED

TECHNICAL CHARACTERISTICS:
- Rated voltage: 415V AC; 50/60Hz
- Hysteresis: 0-20% adjustable
- Time dalay: 0.1-10s adjustable
- Reset time: 0.2 sec max
- Current ratting: 3A/AC-15
- Mechanical life: $1X10^7$
- Electrical life: $1X10^5$
- Ambiente temperature: -10C°/+55C°
- Dimensions: 90x18x64mm
- Mounting: on DIN rail

Type	Rated voltage	Hysteresis	Packing/Box (pcs)	Catalogue number
ELMARK MN3	415V AC	0-20% adjustable	12 / 240	**41927**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

COMBINED VOLTAGE CIRCUIT-BREAKER MN2

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

Type designation:
MN - constructive series
number of poles - 1
Documents corresponding to the product:
Standard EN60898-1



FUNCTIONS:
- when the voltage is reduced below 170V operation is initiated and the automatic switch is turned off
- when the voltage is increased above 280V operation is initiated and the automatic switch is turned off
- allows manual turning on of the switch after powering is restored
- indication of the position of the device

TECHNICAL CHARACTERISTICS:
- Rated voltage: 230V; 50/60Hz
- Insulation voltage: ≥2000V
- IP code: IP>20

CONNECTION METHOD:
- Double connector: flat (tunnel) screw connector
- Feeding (conducting):
  - flexible conductors up to 1.5mm^2
- Tightening moment of the screw: 1.33Nm

MOUNTING:
- vertical, by means of two pins attached to the rivets of the circuit-breaker, while the operating mechanism is connected to the switching off mechanism of the circuit breaker after the sealing lid is demounted

Type	Rated voltage	Type breaker	Packing/Box (pcs)	Catalogue number
ELMARK MN 2 60	230V	C60	12 / 240	**41909**

SHUNT RELEASE MX (INDEPENDENT RELEASE)

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

Type designation:
MX - constructive series
number of poles - 1
Documents corresponding to the product:
Standard EN60898-1



FUNCTIONS:
- remote circuit breaker switching off at voltage feed
- allows manual switching on of the breaker at voltage recovery
- indication of the device's location

TECHNICAL DATA:
- Rated voltage: 230V; 50/60Hz
- Isolating voltage: ≥2000V
- IP code: IP>20

CONNECTING:
- Joining terminal: flat (tunnel) screw terminal
- Power supply (conducting):
  - flexible conductors up to 1.5mm^2
- Tightening moment: 1.33Nm
- The power supply of the release is accomplished at the outlet of the breaker

MOUNTING:
- vertical, clamps with two pins to the breaker's rivets and the executive mechanism is joined up to the switching mechanism of the breaker after dismounting the seal cover

Type	Rated voltage	Type breaker	Packing/Box (pcs)	Catalogue number
ELMARK MX 60	230V	C60	12 / 240	**41902**

AUXILIARY CONTACT OF

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

Type designation:
OF - constructive series
number of poles - 1
Documents corresponding to the product:
Standard EN60898-1



FUNCTIONS:
- at circuit breaker switching off it sends a signal to the control or signalization system
- indication of the location of the auxiliary contact and the breaker

TECHNICAL DATA:
- Rated voltage: 230V
- Isolating voltage: ≥2000V
- IP code: IP>20

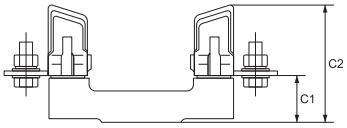
CONNECTING:
- Joining terminal: flat (tunnel) screw terminal
- Power supply (conducting): - flexible conductors up to 1.5mm

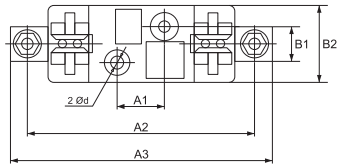
MOUNTING:
- vertical, clamps with two pins to breaker's rivets, and the executive mechanism is joined up to the switching mechanism of the breaker after dismounting the seal cover

Type	Rated voltage	Type breaker	Packing/Box (pcs)	Catalogue number
ELMARK OF 60	230V	C60	17 / 170	**41901**
ELMARK SD100	230V	C60	12 / 240	**41905**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60269-1





BASES FOR HIGH POWER SAFETY DEVICES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The series bases for high power safety device is manufactured of permitivity alloy with mounted contact jaws of electrolytic copper supplied with special springs for contact compression and easy fuse links taking out. All current leading parts are connected to inlet outlet terminals with bolts; the terminals also end with bolts, to which the power supply conductors are connected. The bases are offered in five type sizes corresponding to the five types of fuse links.
Remark : Fuse bases SIST are made of resin / **Remark :** Fuse bases SISP are made of porcelain

UNTIL SUPPLY LAST * Until Supply Last

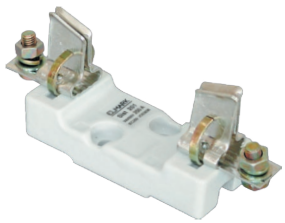
Base type	Overall dimensions (mm)							
	A1	A2	A3	B1	B2	C1	C2	Ød
SIST00	25	100	120	-	30	25	60	7.5
SIST 0	25	150	170	-	30	37	72	7.5
SIST1	25	175	200	30	58	38	84	10.5
SIST2	25	200	225	30	60	38	100	10.5
SIST3	25	210	250	30	60	40	105	10.5



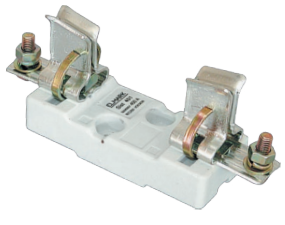
Base type	Fuse link type	Rated current (A)	Rated voltage Un (V)	Weight (gr)	Packing / Box (pcs)	Catalogue number
SIST00	NT 00	up to 160	600	193	5 / 120	**12001**



Base type	Fuse link type	Rated current (A)	Rated voltage Un (V)	Weight (gr)	Packing / Box (pcs)	Catalogue number
SIST0	NT 0	up to 160	600	295	3 / 54	**12010**
SISP0*	NT 0	up to 160	600	319	3 / 54	**12010P**



Base type	Fuse link type	Rated current (A)	Rated voltage Un (V)	Weight (gr)	Packing / Box (pcs)	Catalogue number
SIST1	NT 1	up to 250	600	550	3 / 36	**12100**
SISP1*	NT 1	up to 250	600	550	3 / 36	**12100P**



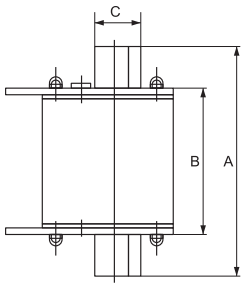
Base type	Fuse link type	Rated current (A)	Rated voltage Un (V)	Weight (gr)	Packing / Box (pcs)	Catalogue number
SIST2	NT 2	up to 400	600	770	1 / 20	**12200**

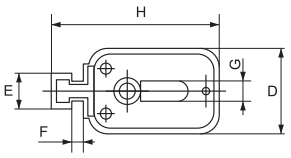


Base type	Fuse link type	Rated current (A)	Rated voltage Un (V)	Weight (gr)	Packing / Box (pcs)	Catalogue number
SIST3	NT 3	up to 630	600	965	1 / 20	**12300**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60269-1
EN 60269-2





FUSE LINKS FOR HIGH POWER SAFETY DEVICE

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The series fuse links for high power safety devices is designed for short circuit protection. They are distinguished with high speed of operation and high reliability. The element is a ceramic (porcelain) body filled with fine quartz sand for voltaic arc lowering. In the ceramic body is mounted a fusible, specially profiled wafer connecting the current leading terminals. These terminals are manufactured of copper alloy with special nickel coating and have the form of knives to provide more contact surface. The fuse links correspond to "gL – gG" class which means that they are with common function and normal response time. NH Fuses

TWO OPERATING CLASSES OF NH FUSES ARE AVAILABLE:

- Operating class gL/gG – general purpose, line protection, slow acting

TECHNICAL DATA:

- Rated voltage: 500V
- Rated short circuit current: 120 kA
- IP code: IP 00
- Ambient temperature: -5 to +65°C
- Altitude: up to 2000m

Base type	Overall dimensions (mm)				
	A	B	C	D	H
NT00	78	40	15	29	56.5
NT 0	125	68	15	29	56.5
NT1	135	68	21	48	62
NT 2	150	68	27	58	72
NT 3	150	68	33	67	84.5
NT00C	78	40	15	21	56,5
NT1C	135	68	21	29	62
NT2C	150	68	33	48	84,5



Type	In (A)	Un (V)	Packing / Box (pcs)	Catalogue number
NT00	16	500,600	3 / 90	**10001**
NT00	25	500,600	3 / 90	**10002**
NT00	32	500,600	3 / 90	**10003**
NT00	40	500,600	3 / 90	**10004**
NT00	50	500,600	3 / 90	**10005**
NT00	63	500,600	3 / 90	**10006**
NT00	80	500,600	3 / 90	**10008**
NT00	100	500,600	3 / 90	**10009**
NT00	125	500,600	3 / 90	**10012**
NT00	160	500,600	3 / 90	**10016**



Type	In (A)	Un (V)	Packing / Box (pcs)	Catalogue number
NT0	16	500,600	3 / 90	**10015**
NT0	25	500,600	3 / 90	**10025**
NT0	32	500,600	3 / 90	**10032**
NT0	40	500,600	3 / 90	**10040**
NT0	50	500,600	3 / 90	**10050**
NT0	63	500,600	3 / 90	**10063**
NT0	80	500,600	3 / 90	**10080**
NT0	100	500,600	3 / 90	**10090**
NT0	125	500,600	3 / 90	**10092**
NT0	160	500,600	3 / 90	**10096**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	In (A)	Un (V)	Packing / Box (pcs)	Catalogue number
NT1	80	500,600	3 / 36	**10108**
NT1	100	500,600	3 / 36	**10110**
NT1	125	500,600	3 / 36	**10112**
NT1	160	500,600	3 / 36	**10116**
NT1	200	500,600	3 / 36	**10120**
NT1	225	500,600	3 / 36	**10122**
NT1	250	500,600	3 / 36	**10125**



Type	In (A)	Un (V)	Packing / Box (pcs)	Catalogue number
NT2	160	500,600	1 / 24	**10216**
NT2	200	500,600	1 / 24	**10220**
NT2	250	500,600	1 / 24	**10225**
NT2	315	500,600	1 / 24	**10231**
NT2	400	500,600	1 / 24	**10240**



Type	In (A)	Un (V)	Packing / Box (pcs)	Catalogue number
NT3	500	500,600	1 / 24	**10350**
NT3	630	500,600	1 / 24	**10363**



Type	In (A)	Un (V)	Packing / Box (pcs)	Catalogue number
NT00C	16	500,600	3/120	**10001C**
NT00C	25	500,600	3/120	**10002C**
NT00C	32	500,600	3/120	**10003C**
NT00C	40	500,600	3/120	**10004C**
NT00C	50	500,600	3/120	**10005C**
NT00C	63	500,600	3/120	**10006C**
NT00C	80	500,600	3/120	**10008C**
NT00C	100	500,600	3/120	**10009C**



Type	In (A)	Un (V)	Packing / Box (pcs)	Catalogue number
NT1C	80	500,600	3/54	**10108C**
NT1C	100	500,600	3/54	**10110C**
NT1C	125	500,600	3/54	**10112C**
NT1C	160	500,600	3/54	**10116C**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	In (A)	Un (V)	Packing / Box (pcs)	Catalogue number
NT2C	160	500,600	1/30	**10216C**
NT2C	200	500,600	1/30	**10220C**
NT2C	250	500,600	1/30	**10225C**

Documents corresponding to the product:
Standard EN 60947-1; EN 60947-3

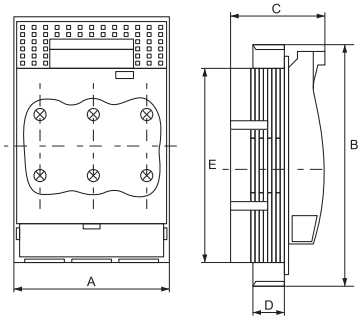
ISOLATING SWITCHES

3+2 standard +extended 5 YEAR TOTAL WARRANTY



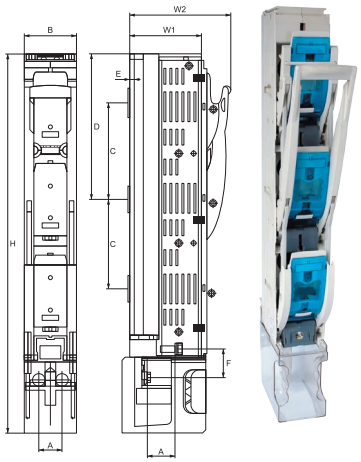
Designed in two types – horizontal and vertical. They represent a combination of low voltage isolating switch and high power safety devices mounted in a common plastic corpus. They are used for low voltage distribution boards and complete transformer substations (CTS) where visible circuit distribution is necessary. They provide safety and convenience at fuse links change. The plastic corpus increases the IP code and the plastic lid provides simultaneous circuits switching on/off. The lid allows easy removing which is additional measure at repairs. The vertical isolating switches are mounted directly to the power supply rails which enables the exploitation and improves the safety of the staff.

TECHNICAL DATA:
- Rated voltage: 500V
- Rated short circuit current: according to the mounted fuse links
- Number of poles: 3
- Impulse voltage wear resistance: 8kV
- Mechanical wear resistance: 3000 cycles
- IP code: IP 40
- Plastic: UV rays wear resistance
- Ambient temperature: -5 to +65°C
- Altitude: up to 2000m



Base type	Overall dimensions (mm)				
	A	B	C	D	E
THB -160	105	160	85	45	100
THB - 250	185	220	111	66	180
THB - 400	210	260	130	88	205
THB - 630	256	270	140	94.5	245

Type	In (A)	Un (V)	Fuse link size	Packing / Box (pcs)	Catalogue number
THB	**160**	**500, 660**	**NT00**	**1 / 18**	**44801**
THB	**250**	**500, 660**	**NT1**	**1 / 6**	**44802**
THB	**400**	**500, 660**	**NT2**	**1 /4**	**44803**
THB	**630**	**500, 660**	**NT3**	**1/4**	**44804**



Overall dimensions (mm)

A	B	C	D	E	F	G	H	W1	W2
50	99	185	290	2	57	58	746	146	195

Type	In (A)	Un (V)	Fuse link size	Packing / Box (pcs)	Catalogue number
HG2B	**160**	**500, 660**	**NT00**	**1 /4**	**44805**
HG2B	**250**	**500, 660**	**NT1**	**1 /4**	**44806**
HG2B	**400**	**500, 660**	**NT2**	**1 /4**	**44807**
HG2B	**630**	**500, 660**	**NT3**	**1 /4**	**44808**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60269-2;
IEC269-2









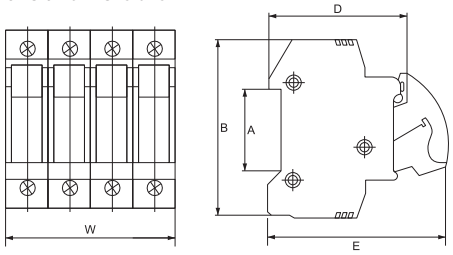
SWITCH DISCONNECTORS RT18

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The series of switch disconnectors are developed for short-circuit protection. They have a high speed of start and high reliability. They have a plastic body of non-flammable plastics adapted for mounting on a DIN rail, where a porcelain round plug, which is filled with fine quartz sand for extinguishing the electric arc. LED indicator is mounted on the front panel to show fuse link condition. In this ceramic body is mounted melting, specifically profiled plate, which connects the input power terminals. These terminals are produced from copper alloy with especially laid nickel layer and contact with the projecting bolts from the plastic body. There are offered two types of insertions according to the degree of quick operation: normally quickly operating ones – class "gG". Suitable for DC system.

TECHNICAL DATA:
- Rated voltage: 500V
- Insulation voltage: >2500V
- Rated current on short-circuit: 100 кA
- Direct mounting to the load
- Two insulated points to the load
- IP code: IP 44
- Cross-section of the supply conductors: up to 35mm^2
- Environmental temperature: -5° to +65°C
- Utization category: AC - 20B; DC - 20B
- Altitude: up to 2000m

Overall dimensions



Base type	Number of poles	Rated current (A)	Type of the fuse	Base dimensions (mm)					Packing / Box (pcs)	Catalogue number
				A	B	W	D	E		
1PRT18 - 32x	1P	32	xxG1038	37	82	18	60	78	12 / 240	**10RT1831**
1NRT18 - 32x	1P+N	32	xxG1038	37	82	36	60	78	6 / 120	**10RT18311**
2PRT18 - 32x	2P	32	xxG1038	37	82	36	60	78	6 / 120	**10RT1832**
3PRT18 - 32x	3P	32	xxG1038	37	82	54	60	78	4 / 80	**10RT1833**
3NRT18 - 32x	3P+N	32	xxG1038	37	82	72	60	78	3 / 60	**10RT18331**
1PRT18 - 63x	1P	63	xxG1451	37	105	27	80	110	6 / 108	**10RT1861**
1NRT18 - 63x	1P+N	63	xxG1451	37	105	54	80	110	6 / 108	**10RT18611**
2PRT18 - 63x	2P	63	xxG1451	37	105	54	80	110	6 / 108	**10RT1862**
3PRT18 - 63x	3P	63	xxG1451	37	105	81	80	110	6 / 108	**10RT1863**
3NRT18 - 63x	3P+N	63	xxG1451	37	105	108	80	110	6 / 108	**10RT18631**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

FUSE FOR SWITCH DISCONNECTORS RT18

3+0 standard +extended 3 YEAR TOTAL WARRANTY



RT18 Type

Type of the fuse class gG	Voltage (V)	Rated current (A)	Size of the fuse A x ØB x C	Packing / Box (pcs)	Catalogue number
01G1038	500	1	38xØ10.3x10mm	10 / 2000	**10G10381**
02G1038	500	2	38xØ10.3x10mm	10 / 2000	**10G10382**
04G1038	500	4	38xØ10.3x10mm	10 / 2000	**10G10384**
06G1038	500	6	38xØ10.3x10mm	10 / 2000	**10G10386**
10G1038	500	10	38xØ10.3x10mm	10 / 2000	**10G103810**
16G1038	500	16	38xØ10.3x10mm	10 / 2000	**10G103816**
20G1038	500	20	38xØ10.3x10mm	10 / 2000	**10G103820**
25G1038	500	25	38xØ10.3x10mm	10 / 2000	**10G103825**
32G1038	500	32	38xØ10.3x10mm	10 / 2000	**10G103832**
40G1451	500	40	51xØ14.3x12mm	10 / 500	**10G145140**
50G1451	500	50	51xØ14.3x12mm	10 / 500	**10G145150**
63G1451	500	63	51xØ14.3x12mm	10 / 500	**10G145163**

FUSE FOR SWITCH DISCONNECTORS EL-D02

3+0 standard +extended 3 YEAR TOTAL WARRANTY



EL-D02 Type

UNTIL SUPPLY LAST

Type of the fuse class gG	Voltage (V)	Rated current (A)	Size of the fuse A x ØB x C	Catalogue number
RO 26/32 2A	500	2	Ø11x 36mm	10R0232
RO 26/32 4A	500	4	Ø11x 36mm	10R0234
RO 26/32 6A	500	6	Ø11x 36mm	10R0236
RO 26/32 10A	500	10	Ø11x 36mm	10R0240
RO 26/32 16A	500	16	Ø11x 36mm	10R0246
RO 26/32 20A	500	20	Ø15x 36mm	10R0248
RO 26/63 40A	500	40	Ø15x 36mm	10R0640
RO 26/63 50A	500	50	Ø15x 36mm	10R0650

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-3 and IEC947-3

SWITCH DISCONNECTORS ISS FROM 20A TO 125A SERIES

5+2 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

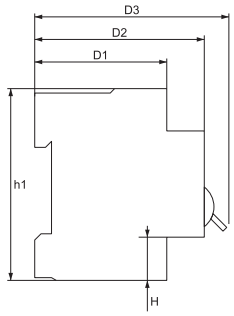


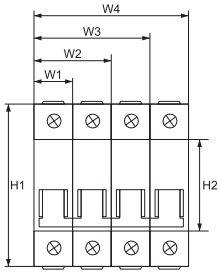
FUNCTIONS:
- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits
- can be used as a main breaker
- it has no protective function
-

TECHNICAL DATA:
- Rated voltage: 230/400V; 50/60Hz
- Joining terminal: flat (tunnel) screw terminal
- Connecting: power supply busbar, rigid or flexible conductors
- Tightening moment: 1.33Nm
- Isolating voltage: ≥500V
- Electrical wear resistance (number of cycles): ≥10000
- Mechanical wear resistance (number of cycles): ≥20000
- IP code: IP>20
- Mounting: DIN-rail
- Plastic material of UV rays
- Ambient temperature: -20°C + 65°C

Dimensions (mm)

H1	H2	D1	D2	D3
81	45	50	65	76
W1	W2	W3	W3	
17,5	35	52,5	70	

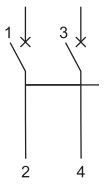






Type	Number of poles	Rated current In (A)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number
ISS	1P	40	10	12 / 240	**41914**
ISS	1P	63	16	12 / 240	**41911**
ISS	1P	80	25	12 / 240	**41912**
ISS	1P	100	35	12 / 240	**41913**
ISS	1p	125	50	12 / 240	**41916**

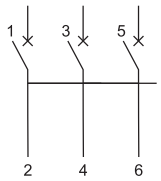




Type	Number of poles	Rated current In (A)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number
ISS	2P	40	10	6 / 120	**41924**
ISS	2P	63	16	6 / 120	**41921**
ISS	2P	80	25	6 / 120	**41922**
ISS	2P	100	35	6 / 120	**41923**
ISS	2p	125	50	6 / 120	**41925**

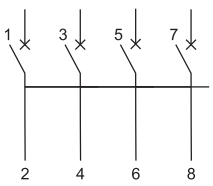
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.





Type	Number of poles	Rated current In (A)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number
ISS	3P	20	2.5	4/80	**41935**
ISS	3P	32	6.0	4/80	**41936**
ISS	3P	40	10	4 / 80	**41934**
ISS	3P	63	16	4 / 80	**41931**
ISS	3P	80	25	4 / 80	**41932**
ISS	3P	100	35	4 / 80	**41933**
ISS	3p	125	50	4 / 80	**41937**





Type	Number of poles	Rated current In (A)	Recommended sections of the conductor (g/mm²)	Packing/Box (pcs)	Catalogue number
ISS	4P	40	10	3 / 60	**41944**
ISS	4P	63	16	3 / 60	**41941**
ISS	4P	80	25	3 / 60	**41942**
ISS	4P	100	35	3 / 60	**41943**
ISS	4p	125	50	3 / 60	**41945**

PADLOCK ADAPTOR FOR MCB

3+0 standard +extended 3 YEAR TOTAL WARRANTY



An adaptor makes it possible to block the operating lever whether switched ON or OF

Type	Catalogue number
Padlock adaptor for MCB	**41904**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

DOCUMENTS CORRESPONDING TO THE PRODUCT:
Standard EN 60947-1
EN 60947-3 and IEC 60947-6

SWITCH DISCONNECTORS ISS2 FROM 125A TO 800A

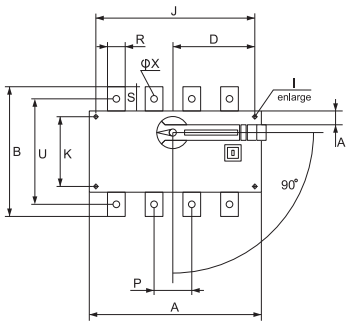
5+2 standard +extended **7 YEAR TOTAL WARRANTY** *for industrial usage, 3 years warranty

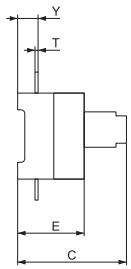


The series three- and four-pole load switch disconnectors ISS2 xxx are produced for mounting in main electrical boards for disconnection of the circuits, switching on of generators because of the fact they are not affected by the frequency variations. High mechanical strength and resistance to circulation. Simple and secure management.

FUNCTIONS:
- switching on and off of electrical circuits under load
- disconnection of electrical circuits
- used as main circuit-breaker
- resistant to high voltages, to short circuits in the protected circuit
- it has no protective function

TECHNICAL FEATURES:
- Rated voltage: not higher than 660V; 50/60Hz
- Double connector: screw connection
- Connection: solid or flexible conductors
- Insulation voltage: ≥1000V
- Resistance to impulse voltage: 8000V
- Electrical endurance (number of cycles): ≥5 000
- Mechanical endurance (number of cycles): ≥10 000
- IP code: IP>20
- Mounting method: to a surface by means of bolts
- Plastic resistant to UV raysPlastic resistant to UV rays
- Ambient temperature: -20°÷65°C





Type	Dimensions (mm)											
	A	B	C	D	E	J	J1	K	R	S	T	Y
ISS2-125/3	140	135	125	27	73	120	120	65	20	25	3.5	25
ISS2-125/4	170	135	125	27	73	150	150	65	20	25	3.5	25
ISS2-160/3	140	135	125	27	73	120	120	65	20	25	3.5	25
ISS2-160/4	170	135	125	27	73	150	150	65	20	25	3.5	25
ISS2-250/3	180	170	138	35	86	160	160	90	25	30	3.5	25
ISS2-250/4	230	170	138	35	86	210	210	90	25	30	3.5	25
ISS2-400/3	230	240	165	50	110	210	210	140	32	40	5	37
ISS2-400/4	295	240	165	50	110	275	275	140	32	40	5	37
ISS2-630/3	230	260	165	50	110	210	210	140	40	50	6	37
ISS2-630/4	295	260	165	50	110	275	275	140	40	50	6	37
ISS2-800/3	378	312	240	50	140	353	353	175	60	56	8	48
ISS2-800/4	498	312	240	50	140	473	473	175	60	56	8	48

Type	Rated current In (A)	Maximum breaking capacity Icu (A)	Tightening moment (Nm)	Packing/Box (pcs)	Catalogue number three-pole	Catalogue number four-pole
ISS2-125in	**125**	**1250**	**6.5**	**1 / 12**	**41951**	**41961**
ISS2-125out	**125**	**1250**	**6.5**	**1 / 12**	**41952**	**41962**
ISS2-160in	**160**	**1250**	**6.5**	**1 / 12**	**41953**	**41963**
ISS2-160out	**160**	**1250**	**6.5**	**1 / 12**	**41954**	**41964**
ISS2-250in	**250**	**2000**	**10**	**1 / 6**	**41955**	**41965**
ISS2-250out	**250**	**2000**	**10**	**1 / 6**	**41956**	**41966**
ISS2-400in	**400**	**3200**	**14.5**	**1 / 2**	**41957**	**41967**
ISS2-630in	**630**	**4000**	**14.5**	**1 / 2**	**41958**	**41968**
ISS2-800in	**800**	**1000**	**27**	**1 / 2**	**41959**	**41969**

Note: ISS2-xxx in – load circuit-breaker for mounting in the interior of a board
ISS2 -xxx out – load circuit-breaker with an extended lever for mounting on the front panel of the board

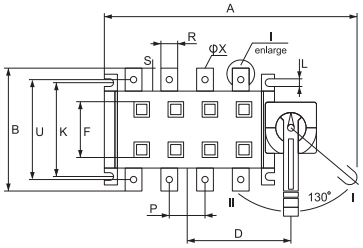
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

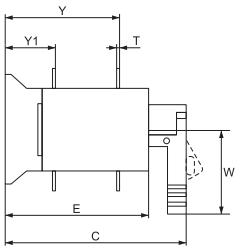
DOCUMENTS CORRESPONDING TO THE PRODUCT:
Standard EN 60947-1
EN 60947-3 and IEC 60947-6

MANUAL SWITCHING TO RESERVE SERIES EQ 2M FROM FROM 160A TO 800A

5+2 standard +extended **7 YEAR TOTAL WARRANTY** *for industrial usage, 3 years warranty







The series three- and four-pole load isolating switch EQ 2 M xxx are produced for mounting in main electrical boards for disconnection of the circuits, manual switching between two power supplies or switching ON of generators because of the fact they are not affected by the frequency variations. High mechanical strength and resistance to circulation. Simple and secure management.

FUNCTIONS:
- switching on and off of low voltage electrical circuits under load
- disconnection of the electrical circuit from one of the power supplies, while providing immediately switching to the other
- used as main switch
- resistant to high voltages, to short circuits in the protected circuit
- it has no protective function

TECHNICAL CHARACTERISTICS:
- Rated voltage: not higher than 690V; 50/60Hz
- Double connector: screw connection
- Connection: hard or flexible conductors
- Insulation voltage: ≥1000V
- Resistance to impulse voltage: 8000V
- Electrical endurance (number of cycles): ≥5 000
- Mechanical endurance (number of cycles): ≥10 000
- IP code: IP>20
- Mounting method: to a surface by means of bolts
- Plastic resistant to UV rays
- Ambient temperature: -20°÷65°C
- Small size
- Indication which of the two supplies is operating

Type	Dimensions (mm)												
	A	B	C	D	E	J	J1	K	R	S	T	Y	Y1
EQ2M-160/3	270	135	212	89	150	120	65	95	20	25	3.5	55	25
EQ2M-160/4	300	135	212	104	150	150	65	95	20	25	3.5	55	25
EQ2M-250/3	307	170	260	110	180	160	65	115	25	30	3.5	70	25
EQ2M-250/4	357	170	260	135	180	210	65	115	25	30	3.5	70	25
EQ2M-400/3	372	240	297	150	236	210	77	180	32	40	5	83	37
EQ2M-400/4	432	240	297	180	236	275	77	180	32	40	5	83	37
EQ2M-630/3	372	240	297	150	236	210	77	180	40	50	6	83	37
EQ2M-630/4	432	240	297	180	236	275	77	180	40	50	6	83	37
EQ2M-8003	372	240	297	150	236	210	77	180	60	56	8	83	48
EQ2M-800/4	432	240	297	180	236	275	77	180	60	56	8	83	48

Type	Rated current In (A)	Maximum breaking capacity Icu (A)	Tightening moment (Nm)	Packing/Box (pcs)	Catalogue number three-pole	Catalogue number four-pole
EQ2M-160	160	1250	6.5	1 / 4	**44641**	**44641P**
EQ2M-250	250	2000	10	1 / 2	**44642**	**44642P**
EQ2M-400	400	3200	14.5	1 / 2	**44643**	**44643P**
EQ2M-630	630	4000	14.5	1 / 2	**44644**	**44644P**
EQ2M-800	800	1000	27	1 / 2	**44645**	**44645P**

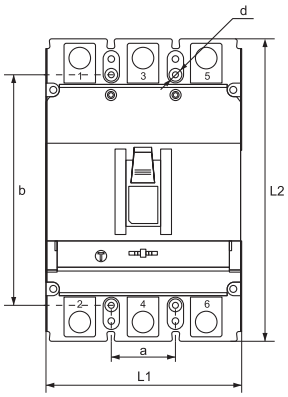
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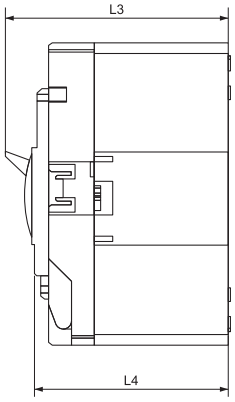
Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2

HIGH BREAKING CAPACITY LEVEL MOULDED CASE CIRCUIT BREAKERS (MCCB) DS1 MAX FROM 63A... 800A

7+0 standard +extended **7 YEAR TOTAL WARRANTY** *for industrial usage, 3 years warranty







FUNCTIONS:
- high breaking capacity level
- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits and control of powerful consumers
- can be used as a main breaker in housing or industrial distributing installations
- endures high currents of short circuit in the protected circuit
- remarkable with high reliability of current characteristics control: manual
- possibility for auxiliary devices mounting for automation

TECHNICAL DATA:
- Rated operating voltage: 415/690V; 50/60Hz
- Isolating voltage: 2000V
- Surge voltage wear resistance: ≥8000V
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal
- Plastic elements
  - not keeping the burning material nylon PA66
  - box permitivity strength: >16MV/m
- Abnormal heating wear resistance and fire of the outer parts: 960°C
- Static contacts – alloy: pure copper T2Y2
  - acontact head: silver graphite CAg(5)
  - athickness: depends on the current
- Tightening moment: 1.33Nm
- Electrical wear resistance (number of cycles): ≥10000
- Mechanical wear resistance (number of cycles): ≥20000
- IP code: IP>20
- Mounting:
  - joining with bolts
  - mounting position: vertical
- Plastic material of UV rays and non-flammable
- Test button
- Ambient temperature: -20°/65°C.

Type	Overall dimensions (mm)						
	L1	L2	L3	L4	a	b	d
DS1 MAX 125/63 3P M	92	150	110	92	30	129	4.5
DS1 MAX 125/80 3PM	92	150	110	92	30	129	4.5
DS1 MAX 125/100 3P M	92	150	110	92	30	129	4.5
DS1 MAX 125/125 3P M	92	150	110	92	30	129	4.5
DS1 MAX 250/160 3P M	92	165	110	90	35	126	4.5
DS1 MAX 250/200 3P M	107	165	110	90	35	126	4.5
DS1 MAX 250/250 3P H	107	165	110	90	35	126	4.5
DS1 MAX 400/400 3P H	150	257	146	106	44	194	7
DS1 MAX 630/630 3P H	182	270	155	116	116	200	7
DS1 MAX 800/800 3P H	210	28	155	116	70	243	7
DS1 MAX 125/63 4P M	122	150	110	92	60	129	4.5
DS1 MAX 125/80 4PM	122	150	110	92	60	129	4.5
DS1 MAX 125/100 4P M	122	150	110	92	60	129	4.5
DS1 MAX 125/125 4P M	122	150	110	92	60	129	4.5
DS1 MAX 250/160 4P M	142	165	110	90	70	126	4.5
DS1 MAX 250/200 4P M	142	165	110	90	70	126	4.5
DS1 MAX 250/250 4P H	142	165	110	90	70	126	4.5
DS1 MAX 400/400 4P H	198	257	146	106	44	194	7
DS1 MAX 630/630 4P H	240	270	155	116	116	200	7
DS1 MAX 800/800 4P H	280	280	155	116	70	243	7

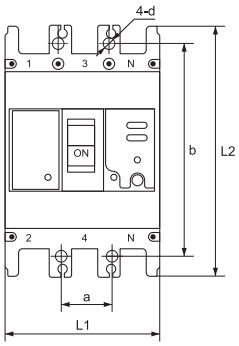
Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu		Thermal current adjusment (A)	Packing/ box	Catalogue number three-poles	Catalogue number four-poles
			415V	690V				
DS1 MAX - 125	63	36	50	20	50,4-63	1/16	**44163MM**	**444163MM**
DS1 MAX - 125	80	36	50	20	64-80	1/16	**44164MM**	**444164MM**
DS1 MAX - 125	100	36	50	20	80-100	1/16	**44165MM**	**444165MM**
DS1 MAX - 125	125	36	50	20	100-125	1/16	**44166MM**	**444166MM**
DS1 MAX - 250	160	36	50	20	128-160	1/6	**44160MM**	**444160MM**
DS1 MAX - 250	200	36	50	20	160-200	1/6	**44200MM**	**444200MM**
DS1 MAX - 250	250	42	65	25	200-250	1/6	**44250MH**	**444250MH**
DS1 MAX - 400	400	50	85	30	320-400	1/3	**44401MH**	**444401MH**
DS1 MAX - 630	630	50	85	30	504-630	1/2	**44630MH**	**444630MH**
DS1 MAX - 800	800	65	100	50	640-800	1/2	**44800MH**	**444800MH**

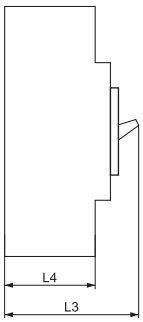
Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2

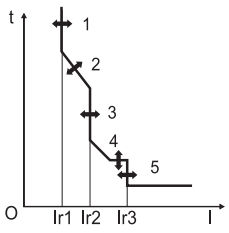
HIGH BREAKING CAPACITY LEVEL MOULDED CASE CIRCUIT BREAKERS (MCCB) DS1 MAX TO 800A-ELECTRONIC TYPE

7+0 standard +extended **7 YEAR TOTAL WARRANTY** *for industrial usage, 3 years warranty







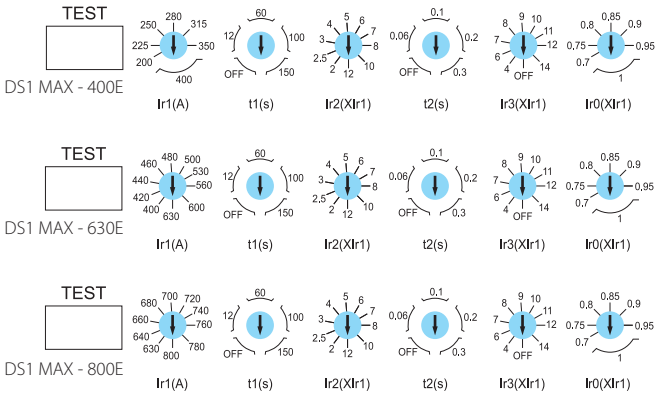


FUNCTIONS:
- high breaking capacity level
- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits and control of powerful consumers
- can be used as a main breaker in housing or industrial distributing installations
- endures high currents of short circuit in the protected circuit
- remarkable with high reliability of current characteristics
- control: manual
- possibilities for electrical module parameters adjustment through direct modules (combination of keys) thus providing accurate protection from overload and short circuit
- simultaneous protection of the three phases
- possibility for auxiliary devices mounting for automation
- contactor for TT test 15V DC

TECHNICAL DATA:
- Rated operating voltage: 415/690V; 50/60Hz
- Isolating voltage: 2000V
- Surge voltage wear resistance: ≥8000V
- Joining terminal: flat (tunnel) screw terminal
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal
- Electrical wear resistance (number of cycles):≥ 10000
- Mechanical wear resistance (number of cycles):≥ 20000
- IP code: IP>20
- Abnormal heating wear resistance and fire of the outer parts: 960°C
- Mounting:
  - joining with bolts
  - mounting position: vertical
- Plastic material of UV rays and non-flammable
- Test button
- Ambient temperature: -20°÷65°C

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu		Thermal current adjusment (A)	Packing/ box	Catalogue number three-poles	Catalogue number four-poles
			415V	690V				
DS1 MAX - 400E	400	50	85	30	200-400	1/3	**44940MH**	**444940MH**
DS1 MAX - 630E	630	50	85	30	400-630	1/2	**44963MH**	**444963MH**
DS1 MAX - 800E	800	65	100	50	630-800	1/2	**44980MH**	**444980MH**

Tripping characteristic:
Ir1(A) Over-load long time delay tripping current
Ir1 adjustment, according to the different rated current of MCCB.
t1(s) Long time delay tripping time t1 adjustment.
Ir2(XIr1) Short circuit short time delay tripping time Ir2 adjustment.
t2(s) Short time delay tripping time t2 adjustment.
Ir3(XIr1) Short circuit instantaneous tripping current Ir3 adjustment.
Ir0(XIr1) Pre-alarm tripping current Ir0 adjustment.



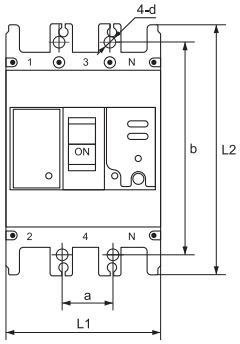
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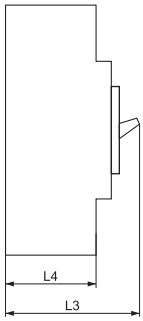
Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2

HIGH BREAKING CAPACITY LEVEL MOULDED CASE CIRCUIT BREAKERS (MCCB) DS1 MAX WITH ELCB

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty







Earth Leakage Circuit Breaker (ELCB). Combine all functions of a standard circuit breaker, and prevent the consequences caused by short circuit, overload and shock. Widely used product for protection of low voltage circuits from fire.

TECHNICAL DATA:

- Rated operating voltage: 415/690V; 50/60Hz
- Rated residual operating current IΔn (mA) - 100mA; 300mA 500mA- adjustable
- Tripping time IΔn- instantaneous; 0.4s; 1s -adjustable
- Max delayed 2 In limit non-actuating time 1s 0.2/0.5
- Isolating voltage: 2000V.
- Surge voltage wear resistance: ≥8000V
- Joining terminal: flat (tunnel) screw terminal.
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal.
- Electrical wear resistance (number of cycles):≥ 10000.
- Mechanical wear resistance (number of cycles):≥ 20000.
- IP code: IP>20.
- Abnormal heating wear resistance and fire of the outer parts: 960°C
- Mounting:
  - joining with bolts
  - mounting position: vertical.
- Plastic material of UV rays and non-flammable.
- Residual indicating push button
- Test button.
- Ambient temperature: -20°÷65°C

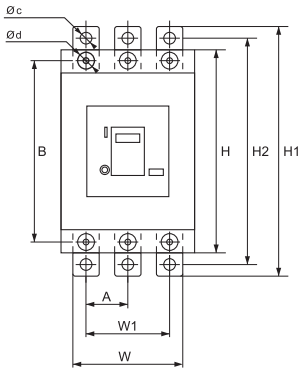
Type	Overall dimensions (mm)						
	L1	L2	L3	L4	a	b	d
DS1 MAX 225/125 3P M	92	150	110	92	30	129	4.5
DS1 MAX 400/250 3P H	150	257	146	106	44	194	7
DS1 MAX 400/400 3P H	150	257	146	106	44	194	7
DS1 MAX 225/125 4P M	122	150	110	92	60	129	4.5
DS1 MAX 400/250 4P H	198	257	146	106	44	194	7
DS1 MAX 400/400 4P H	198	257	146	106	44	194	7

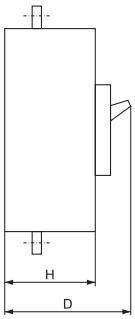
Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu		Rated residual operating current IΔn (mA)	Packing / box	Catalogue number three-poles	Catalogue number four-poles
			415V	690V				
DS1 MAX - 225	125	36	50	20	100/300/500	1/16	**44163MMEL**	**444163MMEL**
DS1 MAX - 400	250	42	65	25	100/300/500	1/6	**44250MHEL**	**444250MHEL**
DS1 MAX - 400	400	50	85	30	100/300/500	1/3	**44401MHEL**	**444401MHEL**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2







MOULDED CASE CIRCUIT BREAKERS (MCCB) DS1 SERIES FROM 40A TO 1250A

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

FUNCTIONS:

- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits and control of powerful consumers
- can be used as a main breaker in housing or industrial distributing installations
- endures high currents of short circuit in the protected circuit
- remarkable with high reliability of current characteristics
- control: manual
- possibility for auxiliary devices mounting for automation

TECHNICAL DATA:

- Rated operating voltage: 415/690V; 50/60Hz
- Isolating voltage: 2000V
- Surge voltage wear resistance: ≥8000V
- Joining terminal: flat (tunnel) screw terminal for the breakers up to 160A and a bolt connection for the breakers from 250A to 1600A
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal
- Plastic elements
  - not keeping the burning material nylon PA66
  - box permitivity strength: >16MV/m
- Abnormal heating wear resistance and fire of the outer parts: 960°C
- Static contacts – alloy: pure copper T2Y2
  - contact head: silver graphite CAg(5)
  - thickness: depends on the current
- Tightening moment: 1.33Nm
- Electrical wear resistance (number of cycles):≥10000
- Mechanical wear resistance (number of cycles):≥20000
- IP code: IP>20
- Mounting:
  - joining with bolts
  - mounting position: vertical
- Plastic material of UV rays and non-flammable
- Test button
- Ambient temperature: -20°÷65°C

Type	Overall dimensions (mm)					Installation dimensions (mm)					
	W	H	D	H1	D1	A	B	W1	H2	Ø d	Ø e
DS1-125/3P	76.2	120	70		90	25	100	50		4	
DS1-160/3P	90	120	70		93	30	100	60		5	
DS1-250/3P	105	170	104	238	143.5	35	139	70	210	6	8.5
DS1-400/3P	140	257	104	316	144	44	214	87.5	285	6	11
DS1-630/3P	210	275	104	310	172	70	230	140	280	6	11
DS1-800/3P	210	275	104	347	172	70	230	140	307	6	16
DS1-1600/3P	210	410	140	410	210	70	300	140	350	10	12
DS1-125/4P	110	120	70		90	25	100	50		4	
DS1-160/4P	120	120	70		93	30	100	60		5	
DS1-250/4P	140	170	104	238	143.5	35	139	70	210	6	8.5
DS1-400/4P	184	257	104	316	144	44	214	87.5	285	6	11
DS1-630/4P	280	275	104	310	172	70	230	140	280	6	11
DS1-800/4P	280	275	104	347	172	70	230	140	307	6	16
DS1-1600/4P	280	410	140	410	210	70	300	140	350	10	12

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu		Thermal current adjustment (A)	Section of the conductor (mm^2)	Packing/Box (pcs)	Catalogue number tree-poles
			415V	690V				
DS1-125	40	16	35	10	fixed	16	1 / 20	**44040**
DS1-125	50	16	35	10	fixed	16	1 / 20	**44050**
DS1-125	63	16	35	10	fixed	25	1 / 20	**44063**
DS1-125	80	16	35	10	fixed	25	1 / 20	**44080**
DS1-125	100	16	35	10	fixed	35	1 / 20	**44090**
DS1-125	125	16	35	10	fixed	50	1 / 20	**44125**

UNTIL SUPPLY LAST



UNTIL SUPPLY **LAST**

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	Maximum breaking capacity (kA) Icu 690V	Thermal current adjustment (A)	Section of the conductor (mm^2)	Packing/Box (pcs)	Catalogue number tree-poles
DS1 - 160	63	22	35	15	44 - 63	25	1 / 20	**44163**
DS1 - 160	80	22	35	15	56 - 80	25	1 / 20	**44164**
DS1 - 160	100	22	35	15	70 - 100	50	1 / 20	**44165**
DS1 - 160	125	22	35	15	88 - 125	50	1 / 20	**44166**
DS1 - 160	160	22	35	15	112 - 160	70	1 / 20	**44160**
DS1 - 160	160	22	35	15	fixed	70	1 / 20	**441601**



UNTIL SUPPLY **LAST**

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	Maximum breaking capacity (kA) Icu 690V	Thermal current adjustment (A)	Section of the conductor (mm^2)	Packing/Box (pcs)	Catalogue number tree-poles
DS1 - 250	200	35	50	15	140 - 200	120	1 / 8	**44200**
DS1 - 250	250	35	50	15	175 - 250	120	1 / 8	**44250**



UNTIL SUPPLY **LAST**

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	Maximum breaking capacity (kA) Icu 690V	Thermal current adjustment (A)	Section of the conductor (mm^2)	Packing/Box (pcs)	Catalogue number tree-poles
DS 1 - 400	315	50	65	25	fixed	240	1 / 4	**44315**
DS 1 - 400	400	50	65	25	fixed	240	1 / 4	**44401**



UNTIL SUPPLY **LAST**

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	Maximum breaking capacity (kA) Icu 690V	Thermal current adjustment (A)	Section of the conductor (mm^2)	Packing/Box (pcs)	Catalogue number tree-poles	Catalogue number four-poles
DS1 - 630	500	65	75	25	fixed	185	1 / 2	**44500**	**444500**
DS1 - 630	630	65	75	25	fixed	185	1 / 2	**44630**	**444630**
DS1 - 800	800	75	85	30	fixed	240	1 / 2	**44800**	**444800**



UNTIL SUPPLY **LAST**

Type	Rated current In (A)	Max. breaking capacity (kA) Icu	Operating breaking capacity (kA)Ics	Section of the power supply conductor (mm^2)	Protection from overload	Packing/Box (pcs)	Catalogue number
DS1 - 1250	1000	85	65	240	fixed	1 / 1	**44000**
DS1 - 1250	1250	85	65	240	fixed	1 / 1	**44502**

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2

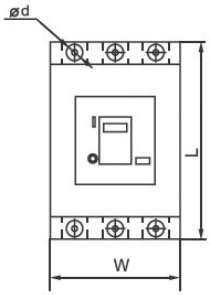
MOULDED CASE CIRCUIT BREAKER (MCCB) DS2 SERIES

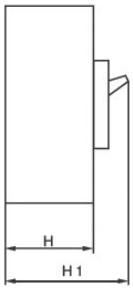
3+0 standard +extended 3 YEAR TOTAL WARRANTY



FUNCTIONS:
- no auxiliaries available for this type of MCCB
- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits and control of powerful consumers
- can be used as a main breaker in housing or industrial distributing installations
- endures high currents of short circuit in the protected circuit
- remarkable with high reliability of current characteristics
- control: manual

TECHNICAL DATA:
- Rated operating voltage: 400V; 50/60Hz
- Isolating voltage: 690V
- Surge voltage wear resistance: ≥6000V
- Joining terminal: flat (tunnel) screw terminal
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal
- Electrical wear resistance (number of cycles):≥6000
- Mechanical wear resistance (number of cycles):≥10000
- IP code: IP>20
- Mounting:
  - joining with bolts
  - mounting position: vertical
- Plastic material of UV rays and non-flammable
- Test button
- Ambient temperature: -20°÷55°C





UNTIL SUPPLY LAST

Type	Overall dimensions (mm)			
	W	L	H	H1
DS2-63	76	135	73,5	90,5
DS2-500	180	270	111,5	160
DS2-630	180	270	111,5	160
DS2-800	210	274,3	109	145,8

Type	Rated current In (A)	Max. breaking capacity (kA) Icu	Operating breaking capacity (κA) Ics	Section of the power supply conductor (mm^2)	Protection from overload	Packing/Box (pcs)	Catalogue number tree-poles
DS2-63	63	18	12	16	fixed	1/12	**44006**
DS2-500	500	50	42	240	fixed	1/1	**44005**
DS2-630	630	50	42	240	fixed	1/2	**44036**
DS2-800	800	65	48	240	fixed	1/1	**44008**

MOULDED CASE CIRCUIT BREAKERS (MCCB) DS1 TO 1600A-ELECTRONIC TYPE

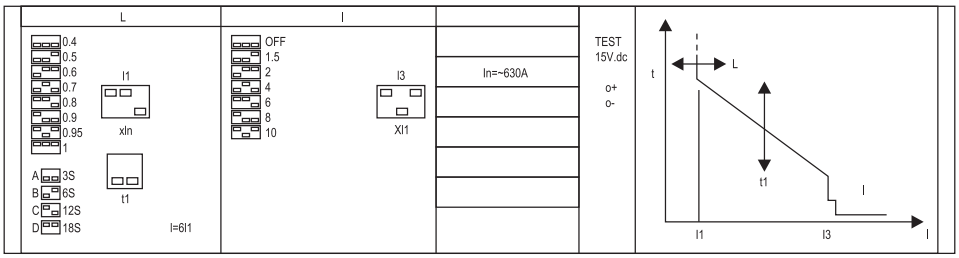
7+0 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2



FUNCTIONS:
- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits and control of powerful consumers
- can be used as a main breaker in housing or industrial distributing installations
- endures high currents of short circuit in the protected circuit
- remarkable with high reliability of current characteristics
- control: manual
- possibilities for electrical module parameters adjustment through direct modules (combination of keys) thus providing accurate protection from overload and short circuit
- simultaneous protection of the three phases
- possibility for auxiliary devices mounting for automation
- contactor for TT test 15V DC

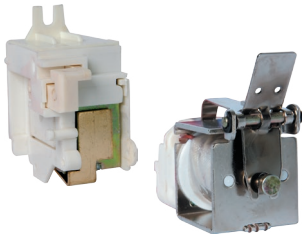
TECHNICAL DATA:
- Rated operating voltage: 415/690V; 50/60Hz
- Isolating voltage: 2000V
- Surge voltage wear resistance: ≥8000V
- Joining terminal: flat (tunnel) screw terminal
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal
- Electrical wear resistance (number of cycles):≥10000
- Mechanical wear resistance (number of cycles):≥20000
- IP code: IP>20
- Abnormal heating wear resistance and fire of the outer parts: 960°C
- Mounting:
  - joining with bolts
  - mounting position: vertical
- Plastic material of UV rays and non-flammable
- Test button
- Ambient temperature: -20°÷65°C



PROTECTING FUNCTIONS:
Function L – step adjustment for protection against overload. Adjustment of the operating current I1=0.4+1xIn with discreet coefficients as the value can be 0.4; 0.5; 0.6; 0.7; 0.8; 0.9; 0.95 and 1
Time delay adjustment t1 of the protection against overload – step adjustment with four values A-3s; B-6s; C-12s; D-18s when current is I=6I1. The diagram of the current curves is presented on fig.1
Adjustment of the transitory protection current against short circuit I3=X x I1 where X can take discreet value OFF; 1.5; 2; 4; 6; 8; 10

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu		Thermal current adjustment (A)	Section of the conductor (mm^2)	Packing/Box (pcs)	Catalogue number tree-poles
			415V	690V				
DS1 - 400E	400	50	65	25	160 - 400	240	1 / 3	**44940**
DS1 - 630E	630	65	75	25	252 - 630	240	1 / 2	**44963**
DS1 - 1250E	1000	85	100	65	400 - 1000	240	1 / 1	**44999**
DS1 - 1250E	1250	85	100	65	500 - 1250	240	1 / 1	**44925**
DS1 - 1600E	1600	85	100	65	640 - 1600	240	1 / 1	**44960**

UNTIL SUPPLY LAST





SHUNT RELEASE (MX)

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

The device is used for remote control of breakers as at voltage signal it starts operating and switches off the breaker to which it is mounted

TECHNICAL DATA:
- rated operating voltage: 230/400V 50/60Hz
- electromagnetic coil 100VA for breakers up to 400A
- electromagnetic coil 150VA for breakers 630-800A
- available joining conductors

UNTIL SUPPLY LAST * Until Supply Last

MOUNTING:
Mounted in a special jack after cover dismounting

CONNECTING:
Connected with the operative system through the provided conductors

DS1-ELECTRONIC TYPE WITH MOUNTED MX

Type	Catalogue number	
	400V	230V
DS1 400/3300*	**444511**	**44452**
DS1 630/3300*	**44455**	**44456**

DS1 MAX-ELECTRONIC TYPE WITH MOUNTED MX

Type	Catalogue number	
	400V	230V
DS1 MAX 400/3300	**444511M**	**44452M**
DS1 MAX 630/3300	**44455M**	**44456M**
DS1 MAX 800/3300	**44459M**	**44460M**

DS1-THERMOMAGNETIC TYPE WITH MOUNTED MX

Type	Catalogue number	
	400V	230V
DS1 125/40*	**44317**	**44318**
DS1 125/50*	**44321**	**44322**
DS1 125/63*	**44326**	**44327**
DS1 125/80*	**44331**	**44332**
DS1 125/100*	**44336**	**44337**
DS1 125/125*	**44340**	**44341**
DS1 160/100*	**44463**	**44464**
DS1 160/160*	**44333**	**44344**
DS1 250/200*	**44347**	**44348**
DS1 250/250*	**44351**	**44352**
DS1 400/315*	**44467**	**44468**
DS1 400/400*	**44355**	**44356**
DS1 630/500*	**44359**	**44360**
DS1 630/630*	**44363**	**44364**
DS1 800/800*	**44367**	**44368**

DS1 MAX-THERMOMAGNETIC TYPE WITH MOUNTED MX

Type	Catalogue number	
	400V	230V
DS1 MAX 125/63	**44326M**	**44327M**
DS1 MAX 125/80	**44331M**	**44332M**
DS1 MAX 125/100	**44336M**	**44337M**
DS1 MAX 125/125	**44340M**	**44341M**
DS1 MAX 250/160	**44333M**	**44344M**
DS1 MAX 250/200	**44347M**	**44348M**
DS1 MAX 250/250	**44351M**	**44352M**
DS1 MAX 400/400	**44355M**	**44356M**
DS1 MAX 630/630	**44363M**	**44364M**
DS1 MAX 800/800	**44367M**	**44368M**

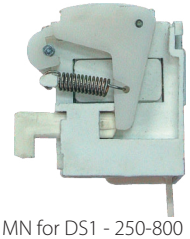
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

UNDER VOLTAGE RELEASE (MN)

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty



MN for DS1 - 125-160



MN for DS1 - 250-800



The device switches off and/or does not allow the switching on of the breaker to which it is mounted at power breakdown or voltage decrease under certain limits

TECHNICAL DATA:
- operating voltage: 230/400V 50Hz
- electromagnetic coil 6VA for breakers up to 400A
- electromagnetic coil 10VA for breakers 630-800A
- available joining conductors
- switches off at voltage decrease under 75% of the operating

UNTIL SUPPLY LAST * Until Supply Last

MOUNTING:
Mounted in a special jack after cover dismounting
Note: The breakers are offered with mounted accessory

CONNECTING:
Connected with the operative system through the provided conductors

DS1-ELECTRONIC TYPE WITH MOUNTED MN

Type	Catalogue number	
	400V	230V
DS1 400/3300*	**44483**	**44484**
DS1 630/3300*	**44487**	**44488**

DS1 MAX-ELECTRONIC TYPE WITH MOUNTED MN

Type	Catalogue number	
	400V	230V
DS1 MAX 400/3300	**44483M**	**44484M**
DS1 MAX 630/3300	**44487M**	**44488M**
DS1 MAX 800/3300	**44491M**	**44492M**

DS1-THERMOMAGNETIC TYPE WITH MOUNTED MN

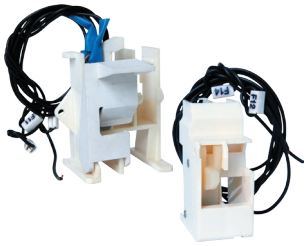
Type	Catalogue number	
	400V	230V
DS1 125/40*	**44383**	**44384**
DS1 125/50*	**44387**	**44388**
DS1 125/63*	**44391**	**44392**
DS1 125/80*	**44395**	**44396**
DS1 125/100*	**44399**	**44402**
DS1 125/125*	**44407**	**44408**
DS1 160/100*	**44475**	**44476**
DS1 160/160*	**44411**	**44412**
DS1 250/200*	**44415**	**44416**
DS1 250/250*	**44419**	**44420**
DS1 400/315*	**44479**	**44480**
DS1 400/400*	**44423**	**44424**
DS1 630/500*	**44427**	**44428**
DS1 630/630*	**44431**	**44432**
DS1 800/800*	**44435**	**44436**

DS1 MAX-THERMOMAGNETIC TYPE WITH MOUNTED MN

Type	Catalogue number	
	400V	230V
DS1 MAX 125/63	**44391M**	**44392M**
DS1 MAX 125/80	**44395M**	**44396M**
DS1 MAX 125/100	**44399M**	**44402M**
DS1 MAX 125/125	**44407M**	**44408M**
DS1 MAX 250/160	**44411M**	**44412M**
DS1 MAX 250/200	**44415M**	**44416M**
DS1 MAX 250/250	**44419M**	**44420M**
DS1 MAX 400/400	**44423M**	**44424M**
DS1 MAX 630/630	**44431M**	**44432M**
DS1 MAX 800/800	**44435M**	**44436M**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2



AUXILIARY CONTACT (OF)

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

According to the way of mounting the auxiliary devices can be divided into two groups:
- internal devices – accessories for whose mounting it is necessary to dismount the cover of the breakers and fix them in specially designed jacks
- external devices – they are mounted right on the top cover of the breaker

INTERNAL DEVICES

AUXILIARY CONTACT (OF)
The device changes its condition conformably to the breaker's condition; it has a NO and a NC contactor.

UNTIL SUPPLY LAST * Until Supply Last

TECHNICAL DATA:
- for breakers up to 160A operating current through the auxiliary contact: 3A
- for breakers from 250 to 800A operating current through the auxiliary contact: 6A
- available joining conductors
- labeling of the cables

MOUNTING:
Mounted in a special jack after cover dismounting
NOTE:
The breakers are offered with mounted accessory
CONNECTING:
Connected with the operative system through the provided conductors



DS1-THERMOMAGNETIC TYPE WITHMOUNTED OF

Type	Catalogue number
DS1 125/40*	**44301**
DS1 125/50*	**44302**
DS1 125/63*	**44303**
DS1 125/80*	**44304**
DS1 125/100*	**44305**
DS1 125/125*	**44306**
DS1 160/160*	**44307**
DS1 250/200*	**44308**
DS1 250/250*	**44309**
DS1 400/400*	**44310**
DS1 630/500*	**44311**
DS1 630/630*	**44312**
DS1 800/800*	**44313**

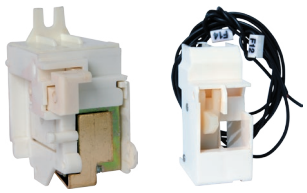
DS1 MAX-THERMOMAGNETIC TYPE WITH MOUNTED OF

Type	Catalogue number
DS1 MAX 125/63	**44303M**
DS1 MAX 125/80	**44304M**
DS1 MAX 125/100	**44305M**
DS1 MAX 125/125	**44306M**
DS1 MAX 250/160	**44307M**
DS1 MAX 250/200	**44308M**
DS1 MAX 250/250	**44309M**
DS1 MAX 400/400	**44310M**
DS1 MAX 630/630	**44312M**
DS1 MAX 800/800	**44313M**

DS1 -ELECTRONIC TYPE WITH MOUNTED MX+OF

	Catalogue number 400V	Catalogue number 230V
DS1 400/3300*	**44453**	**44454**
DS1 630/3300*	**44457**	**44458**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.







MCCB WITH AUXILIARY DEVICES MOUNTED (MX+OF) AND (MN+OF)

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

UNTIL SUPPLY LAST * Until Supply Last

DS1-THERMOMAGNETIC TYPE WITH MOUNTED MX+OF

	Catalogue number 400V	Catalogue number 230V
DS1 125/40*	**44319**	**44320**
DS1 125/50*	**44323**	**44324**
DS1 125/63*	**44328**	**44330**
DS1 125/80*	**44334**	**44335**
DS1 125/100*	**44338**	**44339**
DS1 125/125*	**44342**	**44343**
DS1 160/100*	**44465**	**44466**
DS1 160/160*	**44345**	**44346**
DS1 250/200*	**44349**	**44350**
DS1 250/250*	**44353**	**44354**
DS1 400/315*	**44469**	**44470**
DS1 400/400*	**44357**	**44358**
DS1 630/500*	**44361**	**44362**
DS1 630/630*	**44365**	**44366**
DS1 800/800*	**44369**	**44370**

DS1 MAX-THERMOMAGNETIC TYPE WITH MOUNTED MN+OF

	Catalogue number 400V	Catalogue number 230V
DS1 MAX 125/63	**44393M**	**44394M**
DS1 MAX 125/80	**44397M**	**44398M**
DS1 MAX 125/100	**44405M**	**44406M**
DS1 MAX 125/125	**44409M**	**44410M**
DS1 MAX 250/160	**44413M**	**44414M**
DS1 MAX 250/200	**44417M**	**44418M**
DS1 MAX 250/250	**44421M**	**44422M**
DS1 MAX 400/400	**44425M**	**44426M**
DS1 MAX 630/630	**44433M**	**44434M**
DS1 MAX 800/800	**44437M**	**44438M**

DS1 MAX-ELECTRONIC TYPE WITH MOUNTED MN+OF

	Catalogue number 400V	Catalogue number 230V
DS1 MAX 400/3300	**44485M**	**44486M**
DS1 MAX 630/3300	**44489M**	**44490M**
DS1 MAX 800/3300	**44493M**	**44494M**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



DS1 MAX-ELECTRONIC TYPE WITH MOUNTED MX+OF

	Catalogue number 400V	Catalogue number 230V
DS1 MAX 400/3300	**44453M**	**44454M**
DS1 MAX 630/3300	**44457M**	**44458M**
DS1 MAX 800/3300	**44461M**	**44462M**

DS1 MAX- THERMOMAGNETIC TYPE WITH MOUNTED MX+OF

	Catalogue number 400V	Catalogue number 230V
DS1 MAX 125/63	**44328M**	**44330M**
DS1 MAX 125/80	**44334M**	**44335M**
DS1 MAX 125/100	**44338M**	**44339M**
DS1 MAX 125/125	**44342M**	**44343M**
DS1 MAX 250/160	**44345M**	**44346M**
DS1 MAX 250/200	**44349M**	**44350M**
DS1 MAX 250/250	**44353M**	**44354M**
DS1 MAX 400/400	**44357M**	**44358M**
DS1 MAX 630/630	**44365M**	**44366M**
DS1 MAX 800/800	**44369M**	**44370M**

DS1-THERMOMAGNETIC TYPE WITH MOUNTED MN+OF

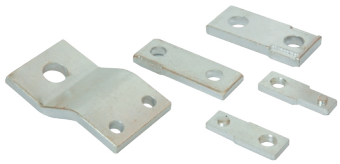
	Catalogue number 400V	Catalogue number 230V
DS1 125/40	**44385**	**44386**
DS1 125/50	**44389**	**44390**
DS1 125/63	**44393**	**44394**
DS1 125/80	**44397**	**44398**
DS1 125/100	**44405**	**44406**
DS1 125/125	**44409**	**44410**
DS1 160/100	**44477**	**44478**
DS1 160/160	**44413**	**44414**
DS1 250/200	**44417**	**44418**
DS1 250/250	**44421**	**44422**
DS1 400/315	**44481**	**44482**
DS1 400/400	**44425**	**44426**
DS1 630/500	**44429**	**44430**
DS1 630/630	**44433**	**44434**
DS1 800/800	**44437**	**44438**

UNTIL SUPPLY **LAST**

DS1-ELECTRONIC TYPE WITH MOUNTED MN+OF

	Catalogue number 400V	Catalogue number 230V
DS1 400/3300	**44485**	**44486**
DS1 630/3300	**44489**	**44490**

UNTIL SUPPLY **LAST**



TERMINAL PLATES FOR MCCB - DS1 AND DS1 MAX TYPE

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

Straight copper electro-tinned extensions enabling cable connection outside the switch terminals and providing excellent contact with the switch terminal base. Terminal extensions with different cross section are available depending on the switch rated power.

MOUNTING:
Extensions are directly bolt mounted to the switch terminal base.

TERMINAL PLATES FOR MCCB - DS1

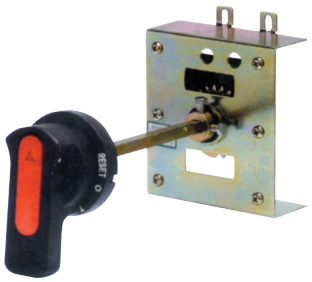
Type	Rated current (A)	Catalogue number 3pcs/set
TP 125	125	**31125**
TP 160	160	**31160**
TP 250	250	**31250**
TP 400	400	**31400**
TP 630	630	**31630**
TP 800	800	**31850**

UNTIL SUPPLY LAST

TERMINAL PLATES FOR MCCB - DS1 MAX

Type	Rated current (A)	Catalogue number 3pcs/set	Catalogue number 4pcs/set
TP 125 MAX	125	**31125M**	-
TP 250 MAX	250	**31250M**	-
TP 400 MAX	400	**31400M**	**314400M**
TP 630 MAX	630	**31630M**	**314630M**
TP 800 MAX	800	**31850M**	**314850M**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

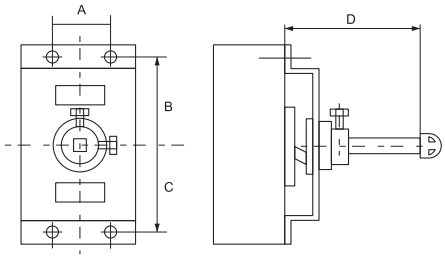


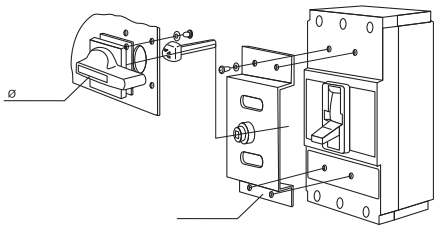
REMOTE CONTROL (MANUAL)

5+2 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

Description:
The device switches off/on the breaker to which manual operative rotary mechanism is mounted
- two operating positions of the executive mechanism fixed at 90°C

Mounting:
The base is mounted with bolts right on the cover (scheme 1 mounting), and the handle is mounted at the door of the distribution box, using an extension axis it is joined to the base





REMOTE CONTROL FOR MCCB, DS1

Type of the breaker	Dimensions (mm)					Packing/Box (pcs)	Catalogue number
	A	B	C	Dmin	Dmax		
DS1 125A	25	50	50	65	115	1	**44967**
DS1 160A	30	50	50	65	115	1	**44968**
DS1 250A	35	70	70	80	130	1	**44969**
DS1 400A	45	107	107	85	105	1	**44970**
DS1 630A	70	119	119	110	110	1	**44971**
DS1 800A	70	119	119	110	110	1	**44972**

UNTIL SUPPLY LAST

REMOTE CONTROL FOR MCCB, DS1 MAX

Type of the breaker	Dimensions (mm)					Packing/Box (pcs)	Catalogue number
	A	B	C	Dmin	Dmax		
DS1 MAX 63A	25	50	50	65	115	1	**44966M**
DS1 MAX 125A	25	50	50	65	115	1	**44967M**
DS1 MAX 250A	35	70	70	80	130	1	**44969M**
DS1 MAX 400A	45	107	107	85	105	1	**44970M**
DS1 MAX 630/800A	70	119	119	110	110	1	**44972M**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



DS1 - 125-160

REMOTE CONTROL (ELECTRICAL)

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

Description:
The device switches off/on the breaker to which manual operative rotary mechanism is mounted
- two operating positions of the executive mechanism fixed at 90°C

Mounting:
The base is mounted with bolts right on the cover (scheme 1 mounting), and the handle is mounted at the door of the distribution box, using an extension axis it is joined to the base



DS1 - 250-800

UNTIL SUPPLY LAST

ELECTRICAL REMOTE CONTROL FOR MCCB DS1

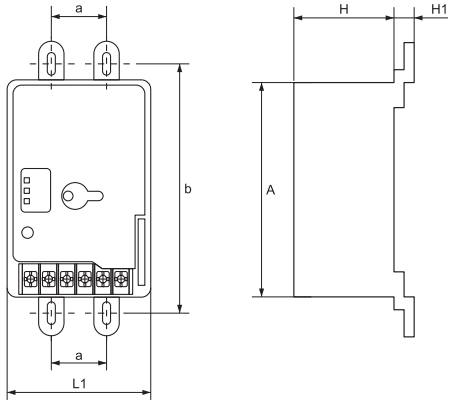
Type of the breaker	Dimensions (mm)					Packing/Box (pcs)	Catalogue number Operating voltage (V)	
	A	A1	B	B1	H		230V	400V
DS1 125	103.5	110	30	90	92	1	**44912**	**44907**
DS1 160	103.5	110	35	90	92	1	**44913**	**44908**
DS1 250	139	-	132	-	105	1	**44914**	**44909**
DS1 400	226	-	132	-	132	1	**44915**	**44910**
DS1 630	226	-	132	-	132	1	**44916**	**44911**
DS1 800	226	-	132	-	132	1	**44916**	**44911**



DS1 MAX - 63-250

ELECTRICAL REMOTE CONTROL FOR MCCB DS1 MAX

Type of the breaker	Dimensions (mm)					Packing/Box (pcs)	Catalogue number Operating voltage (V)	
	L1	B	B	H	H1		230V	400V
DS1 MAX 63A	116	90	50	77	12,5	1	**44917M**	**44906M**
DS1 MAX 125A	116	90	50	77	12,5	1	**44912M**	**44907M**
DS1 MAX 250A	116	90	70	77	15	1	**44914M**	**44909M**
DS1 MAX 400A	176	130	107	115	27	1	**44915M**	**44910M**
DS1 MAX 630/800A	176	130	119	115	31	1	**44916M**	**44911M**



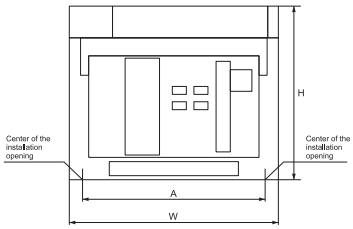
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-1; EN 60947-2; IEC 947-2

MOULDED CASE CIRCUIT BREAKER(MCCB) DW1 SERIES

5+2 standard +extended **7 YEAR TOTAL WARRANTY** *for industrial usage, 3 years warranty



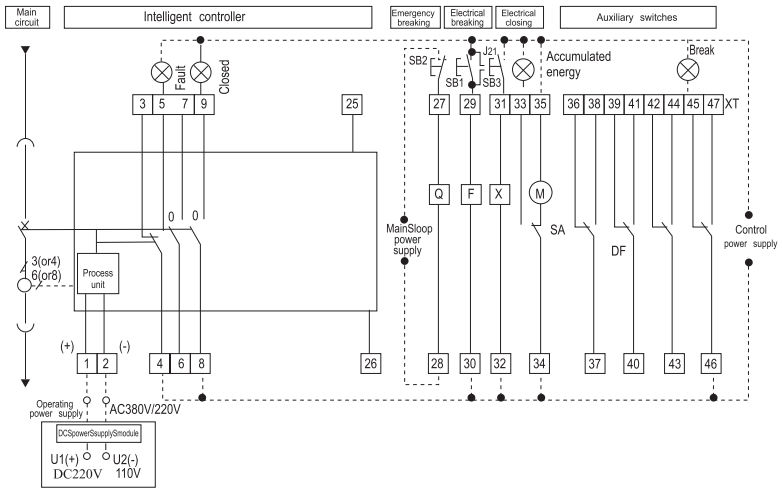


The DW1 series is an intelligent type circuit breaker used to control and protect low voltage electrical distribution network. Possibility to set the parameters of the circuit protection, built in under voltage release, remote control, earth protection and load monitoring.

FUNCTIONS:
- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits and control of powerful consumers
- used as a main breaker in housing or industrial distributing installations
- endures high currents of short circuit in the protected circuit
- remarkable with high reliability of current characteristics
- motor control
- mounted auxiliary devices for automation - under voltage release, earth protection, intelligent controlling block with a possibility for a choice of the protected function

TECHNICAL DATA:
- Rated operating voltage: 690V; 50/60Hz
- Isolating voltage: 690V
- Surge voltage wear resistance: 2kV
- Joining terminal: bolt connection with 4 bolts to the power supply railConnecting:
  - copper rails
  - busway connection – at the back
- Electrical wear resistance (number of cycles): ≥2000
- Mechanical wear resistance (number of cycles): ≥9000
- IP code: IP54
- Mounting:
  - clamping with bolts
  - mounting position: vertical gradient – maximum 5°
- Plastic material of UV rays and non-flammable
- Test button
- Ambient temperature: -10°C + 65°C
- Installation altitude: up to 2000m

BASIC PROTECTIVE FUNCTIONS:
- Overload protection with long time delay
- Short circuit protection with short time delay, time inversion limit
- Short circuit protection with short time delay, time fixed limit
- Instantaneous short circuit protection
- Earth protection function
- Full stability function
- "Overload alarm" function
- Test function
- Auto diagnostics function



A commutation type of breakers with RS 485 connection for duplex transmission of all function parameters, adjustment and data can also be produced at client's order and delivery terms agreement.

Type	Dimensions		
	A	H	W
DW1-2000 FIXED	362	402	373
DW1-3200 FIXED	422	402	363
DW1-2000 DRAW-OUT	375	432	461
DW1-3200 DRAW-OUT	435	432	494
DW1-4000 DRAW-OUT	550	432	494
DW1-6300 DRAW-OUT	813	452	504

Type	Rated current In (A)	Rated voltage Un (V)	Breaking capacity (кA)		Electrical wear resistance (number of cycles)	Mechanical wear resistance (number of cycles)	Packing/Box (pcs)	Catalogue number
			400 V	690 V				
DW1-2000 FIXED	1600	AC400V	80	50	2000	9000	1/1	**44208**
DW1-2000 FIXED	2000	AC400V	80	50	2000	9000	1/1	**44209**
DW1-3200 FIXED	2500	AC400V	100	65	2000	9000	1/1	**44255**
DW1-3200 FIXED	3200	AC400V	100	65	2000	9000	1/1	**44329**
DW1-2000 DRAW-OUT	1600	AC400V	80	50	2000	9000	1/1	**44208DO**
DW1-2000 DRAW-OUT	2000	AC400V	80	50	2000	9000	1/1	**44209DO**
DW1-3200 DRAW-OUT	2500	AC400V	100	65	2000	9000	1/1	**44255DO**
DW1-3200 DRAW-OUT	3200	AC400V	100	70	2000	9000	1/1	**44329DO**
DW1-4000 DRAW-OUT	3600	AC400V	100	75	2000	9000	1/1	**44436DO**
DW1-4000 DRAW-OUT	4000	AC400V	100	75	2000	9000	1/1	**44440DO**
DW1-6300 DRAW-OUT	5000	AC400V	120	75	2000	9000	1/1	**44650DO**
DW1-6300 DRAW-OUT	6300	AC400V	120	75	2000	9000	1/1	**44663DO**

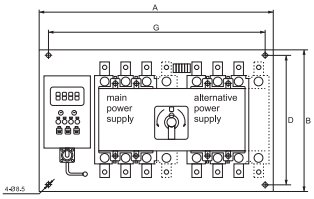
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Documents corresponding to the product:
EN 60947-1
EN 60947-2; EN 60947-6-1

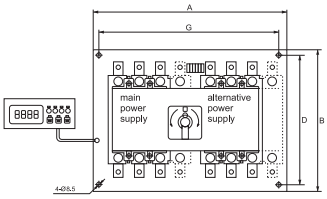
DUAL POWER CHANGE-OVER SWITCH EQ1 SERIES (ATS)

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty









The system for dual power change-over switch EQ1 is designed to provide continuous power supply and two electrical sources automatic switch in case of failure or deviation from the set parameters. It switches only when the three phases of the second power supply source are available. The system for dual power change-over switch consists of two molded case circuit breakers mounted on a metal frame connected with common operating mechanism and controlled by a command device that controls the system parameters' correspondence.

FUNCTIONS:
- Switching on/off heavy loaded electrical circuits at main power supply discrepancy
- Switching to dual power change-over at power supply phase lack
- with option to connect to fire alarm controller. In case of fire, the ATS switches off both power supply sources
- Breaking of electrical circuits and control of powerful consumers
- Used as a main breaker in housing or industrial distributing installations supplied with a generator or a second power supply source (hospitals, post offices, military sites, control rooms)
- Remarkable with high reliability of current characteristics
- Control: motor
- Controls the following circuit parameters:
  - presence of the three phases
  - the phase voltage to be in the set limits
  - overload
  - short circuit at the outlet

TECHNICAL DATA:
- Rated operating voltage: 690V; 50/60Hz
- Surge voltage wear resistance: ≥6000V
- Joining terminal: bolt connection with 4 bolts to the power supply rail
- Connecting:
  - copper rails
  - flexible or rigid conductors
- Electrical wear resistance (number of cycles): ≥2000
- Mechanical wear resistance (number of cycles): ≥6000
- IP code: IP21
- Mounting:
  - clamping with bolts
  - mounting position: vertical gradient, maximum 5°
- Plastic material of the breakers of UV rays and non-flammable
- Ambient temperature: -10°C + 65°C
- Installation altitude: up to 2000m

BASIC FUNCTIONS OF THE CONTROL DEVICE:
- Overload protection
- Instantaneous short circuit protection
- Under phase protection
- Undervoltage protection
- Possibility for setting the change-over time between the two sources – min 3s
- Possibility for automatic switch-over to the main power supply source after restoring its parameters

The system for dual power change-over switch is offered in two types:
- with display (control device) mounted on the mounting plate (integrated type)
- with separated control display

Type of the breaker	Overall dimensions (mm)				
	A	B	C	D	H
EQ1 - 100	405	365	230	250	<170
EQ1 - 225	450	410	230	250	<190
EQ1 - 400	570	510	300	330	<200
EQ1 - 630	680	620	300	330	<250
EQ1 - 800	750	690	300	330	<250

Type	Rated current In (A)	Max. breaking capacity (kA) Icu	Operating breaking capacity (кA)Ics	Section of the power supply conductor (mm^2)	Electrical wear resistance (number of cycles)	Mechanical wear resistance (number of cycles)	Packing / Box (pcs)	Catalogue number
EQ1 - 100	100	50	35	35	2000	6000	1 / 1	**44100**
EQ1 - 225	225	50	35	70	2000	6000	1 / 1	**44225**
EQ1 - 400	400	100	65	180	2000	6000	1 / 1	**44403**
EQ1 - 630	630	100	65	240	1000	3000	1 / 1	**44633**
EQ1 - 800	800	100	65	240	1000	3000	1 / 1	**44833**
EQ1 - 100*	100	50	35	35	2000	6000	1 / 1	**44101**
EQ1 - 225*	225	50	35	70	2000	6000	1 / 1	**44226**
EQ1 - 400*	400	100	65	180	2000	6000	1 / 1	**44404**
EQ1 - 630*	630	100	65	240	1000	3000	1 / 1	**44634**
EQ1 - 800*	800	100	65	240	1000	3000	1 / 1	**44834**

Note: *Dual power change-over switch with separated control display

Documents corresponding to the product:
EN 61008-1
EN 61008-2; EN 60947-1



TYPE AC FOR AC CURRENT

ELECTRO-MAGNETIC RESIDUAL CURRENT DEVICES (RCD) JEL1

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

The residual current device works with no extra power supply to the operating mechanism. It compares the magnitude of the currents through the neutral and phase conductors. The conductors are coiled on toroid and together with the secondary winding form a measurement transformer. The power conductors are coiled in such a way that the magnetic fields generated at electrical current flow through them are mutually neutralized. At failure in the insulation of some of the conductors or at presence of a person under voltage, the system is misbalanced and the magnetic fields can not be neutralized. This residual field generates in the secondary current winding, called current leakage. The device breaks when the value of this current exceeds the limit value of the residual current breaker.

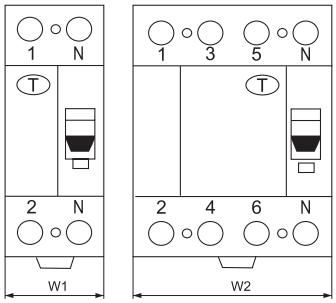
FUNCTIONS:
- switching off heavy-loaded electrical circuits at insulation damage of the conductors to the consumers
- switching off heavy-loaded electrical circuits at presence of a person under voltage
- used to protect not only particular consumers/ circuits, but also the whole panel
- remarkable with high reliability of current characteristics
- control: manual switching on and automatic switching off at exit failure

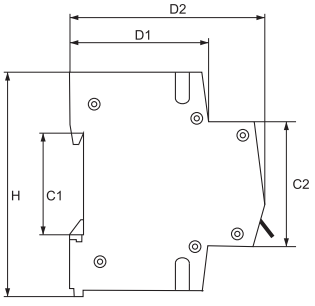
TECHNICAL DATA:
- Rated operating voltage: 230/400V; 50/60 Hz
- Rated current: according to the table
- Responsiveness: 30; 100; 300; 500mA
- Time delay until break: <0.1s at I Δ n and <0.04s at 2I Δ n
- Surge voltage wear resistance: ≥2000V
- Short circuit current wear resistance: 4500A, 6000A
- Joining terminal: flat (tunnel) screw terminal made of 1.5 coldly draw-plated plane Q235A
- Type of the plastic:
  - material: self-extinguishing nylon PA66
  - permitivity strength: >18MV/m
- Contact head: silver graphite CAg(5)
- Static contact: pure copper T2Y2 type
- Electrical wear resistance (number of cycles):≥5000
- Mechanical wear resistance (number of cycles):≥10000
- IP code: IP>20
- Indication for operating (switched on) position
- Plastic material of the breakers of UV rays and non-flammable
- Ambient temperature: -10°C + 65°C
- Installation altitude: up to 2000m

CONNECTING:
- power supply busbar (only for bipolar)
- flexible or rigid conductors with corresponding section

MOUNTING:
- on DIN-rail
- mounting position: vertical

The residual current device is mounted in the distribution box, and after the device the neutral conductor and the earthing conductor must not be connected together. In order to work accurately, the device must have three- or five-conductor grid with separate protective conductor (PE) (e.g. earthing system TN-S or TT with three or five conductors). The corpus of the consumer depending on the grid type must be connected either to the protective conductor or be earthed. (Fig.1)





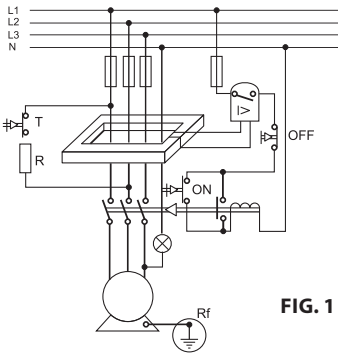
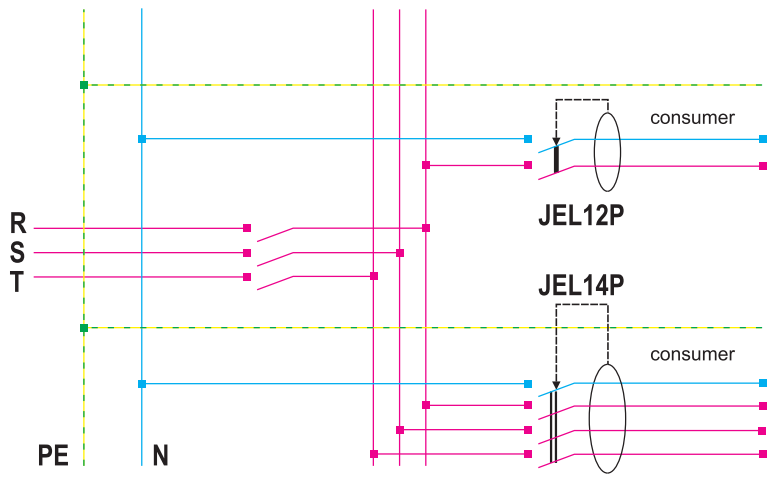


FIG. 1

Dimensions (mm)

W1	W2	H	H1	H2	D1	D2
35	70	81	35	45	50	72

CONNECTING SCHEME



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

ELECTRO-MAGNETIC RESIDUAL CURRENT DEVICES (RCD) JEL1 AND JEF

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty



TYPE AC FOR AC CURRENT

Residual current devices JEL 1, 6kA - Type AC - alternating fault currents sensible. Impulse withstand voltage 2000VAC

Type	Number of poles	Breaking capacity (kA)	Rated current In (A)	Packing/Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 1	2P	6	10.0	1 / 60	**40210**	**40212**	**40213**	**40214**
JEL 1	2P	6	16.0	1 / 60	**40216**	**40217**	**40218**	**40219**
JEL 1	2P	6	20.0	1 / 60	**40292**	**40293**	**40294**	**40295**
JEL 1	2P	6	25.0	1 / 60	**40221**	**40222**	**40223**	**40224**
JEL 1	2P	6	32.0	1 / 60	**40231**	**40232**	**40233**	**40234**
JEL 1	2P	6	40.0	1 / 60	**40241**	**40242**	**40243**	**40244**
JEL 1	2P	6	63.0	1 / 60	**40261**	**40262**	**40263**	**40264**
JEL 1	2P	6	80.0	1 / 60	**40281**	**40282**	**40283**	**40284**
JEL 1	2P	6	100.0	1 / 60	**40291**	**40296**	**40297**	**40298**



TYPE AC FOR AC CURRENT

Type	Number of poles	Breaking capacity (kA)	Rated current In (A)	Packing/Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 1	4P	6	10.0	1 / 30	**40410**	**40412**	**40413**	**40414**
JEL 1	4P	6	16.0	1 / 30	**40416**	**40417**	**40418**	**40419**
JEL 1	4P	6	20.0	1 / 30	**40492**	**40493**	**40494**	**40495**
JEL 1	4P	6	25.0	1 / 30	**40421**	**40422**	**40423**	**40424**
JEL 1	4P	6	32.0	1 / 30	**40431**	**40432**	**40433**	**40434**
JEL 1	4P	6	40.0	1 / 30	**40441**	**40442**	**40443**	**40444**
JEL 1	4P	6	63.0	1 / 30	**40461**	**40462**	**40463**	**40464**
JEL 1	4P	6	80.0	1 / 30	**40481**	**40482**	**40483**	**40484**
JEL 1	4P	6	100.0	1 / 30	**40491**	**40496**	**40497**	**40498**



TYPE AC FOR AC CURRENT

UNTIL SUPPLY LAST

Type	Number of poles	Breaking capacity (kA)	Rated current In (A)	Packing/Box (pcs)	Leakage current I Δ n (mA)	Catalogue number
JEF	2P	4.5	10	1/60	**300**	**40713JEF**
JEF	2P	4.5	10	1/60	**30**	**40710JEF**
JEF	2P	4.5	16	1/60	**300**	**40718JEF**
JEF	2P	4.5	20	1/60	**300**	**40794JEF**
JEF	2P	4.5	25	1/60	**300**	**40723JEF**
JEF	2P	4.5	32	1/60	**300**	**40733JEF**
JEF	2P	4.5	32	1/60	**30**	**40761JEF**
JEF	2P	4.5	63	1/60	**300**	**40763JEF**

*3 year standard+0 year extended warranty

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
EN 61008-1
EN 61008-2; EN 60947-1

ELECTRO-MAGNETIC RESIDUAL CURRENT DEVICES (RCD) JEL1A

7+0 standard +extended **7 YEAR TOTAL WARRANTY** *for industrial usage, 3 years warranty



TYPE A FOR AC/DC CURRENT

These are Residual Current Devices (RCDs) JEL 1A with enhanced sensibility and fast - operating protection devices applicable in circuits with harmonic or direct pulsating current component presence.

FUNCTIONS:
- switching off electrical circuits on load at conductor insulation breaking to the consumer
- switching off electrical circuits on load at direct and indirect contact
- switching off electrical circuits on load at alternating earth fault currents during consequent light impact
- switching off consumers at harmonic presence due to luminescent lights
- switching off consumers in DC circuits at fault currents presence
- mechanical indicator for ON position

TECHNICAL DATA:
- Rated operating voltage: 230/400V; 50 Hz
- Rated current: according to the table
- Responsiveness: 30; 100; 300; 500mA
- Time delay until break: <0.1s at I Δ n and <0.04s at 2I Δ n
- Short circuit current wear resistance: 6000A
- Electrical wear resistance (number of cycles):≥5000
- Mechanical wear resistance (number of cycles):≥10000
- IP code: IP>20

CONNECTING:
- power supply busbar (only for bipolar)
- flexible or rigid conductors with corresponding section

MOUNTING:
- on DIN-rail
- mounting position: vertical



TYPE A FOR AC/DC CURRENT

Residual current devices JEL 1A, 6kA - Type A - alternating and pulsating direct fault currents sensible Impulse withstand voltage 2000VAC/ 400VDC

Type	Number of poles	Breaking capacity (kA)	Rated current In (A)	Packing/Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 1A	2P	6	10.0	1 / 60	**40510**	**40512**	**40513**	**40514**
JEL 1A	2P	6	16.0	1 / 60	**40516**	**40517**	**40518**	**40519**
JEL 1A	2P	6	20.0	1 / 60	**40592**	**40593**	**40594**	**40595**
JEL 1A	2P	6	25.0	1 / 60	**40521**	**40522**	**40523**	**40524**
JEL 1A	2P	6	32.0	1 / 60	**40531**	**40532**	**40533**	**40534**
JEL 1A	2P	6	40.0	1 / 60	**40541**	**40542**	**40543**	**40544**
JEL 1A	2P	6	63.0	1 / 60	**40561**	**40562**	**40563**	**40564**
JEL 1A	2P	6	80.0	1 / 60	**40581**	**40582**	**40583**	**40584**
JEL 1A	2P	6	100.0	1 / 60	**40591**	**40596**	**40597**	**40598**



TYPE A FOR AC/DC CURRENT

Type	Number of poles	Breaking capacity (kA)	Rated current In (A)	Packing/Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 1A	4P	6	10.0	1 / 30	**40610**	**40612**	**40613**	**40614**
JEL 1A	4P	6	16.0	1 / 30	**40616**	**40617**	**40618**	**40619**
JEL 1A	4P	6	20.0	1 / 30	**40692**	**40693**	**40694**	**40695**
JEL 1A	4P	6	25.0	1 / 30	**40621**	**40622**	**40623**	**40624**
JEL 1A	4P	6	32.0	1 / 30	**40631**	**40632**	**40633**	**40634**
JEL 1A	4P	6	40.0	1 / 30	**40641**	**40642**	**40643**	**40644**
JEL 1A	4P	6	63.0	1 / 30	**40661**	**40662**	**40663**	**40664**
JEL 1A	4P	6	80.0	1 / 30	**40681**	**40682**	**40683**	**40684**
JEL 1A	4P	6	100.0	1 / 30	**40691**	**40696**	**40697**	**40698**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

ELECTRO-MAGNETIC RESIDUAL CURRENT DEVICES (RCD) JEL2

3+0 standard +extended 3 YEAR TOTAL WARRANTY



TYPE AC FOR AC CURRENT

UNTIL SUPPLY **LAST**

Residual current devices JEL2, 4,5kA - Type AC - alternating fault currents sensible. Impulse withstand voltage 2000VAC

Type	Number of poles	Breaking capacity (kA)	Rated current In (A)	Packing/Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 2	2P	4,5	10.0	1 / 60	**40710**			
JEL 2	2P	4,5	16.0	1 / 60	**40716**		**40718**	
JEL 2	2P	4,5	25.0	1 / 60	**40721**		**40723**	
JEL 2	2P	4,5	32.0	1 / 60	**40731**			
JEL 2	2P	4,5	40.0	1 / 60	**40741**		**40743**	**40744**
JEL 2	2P	4,5	63.0	1 / 60	**40761**		**40763**	



UNTIL SUPPLY **LAST**

TYPE AC FOR AC CURRENT

Type	Number of poles	Breaking capacity (kA)	Rated current In (A)	Packing/Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 2	4P	4,5	16.0	1 / 30	**40816**		**40818**	
JEL 2	4P	4,5	25.0	1 / 30			**40823**	
JEL 2	4P	4,5	40.0	1 / 30			**40843**	**40844**
JEL 2	4P	4,5	63.0	1 / 30			**40863**	**40864**

ELECTRO-MAGNETIC RESIDUAL CURRENT DEVICES (RCD) JEL2 SIGMA

3+0 standard +extended 3 YEAR TOTAL WARRANTY



TYPE AC FOR AC CURRENT

UNTIL SUPPLY **LAST**

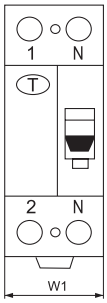
Type	Number of poles	Breaking capacity (kA)	Rated current In (A)	Packing/Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 2 SIGMA	2P	6	10.0	1 / 30			**40213S**	
JEL 2 SIGMA	2P	6	16.0	1 / 30	**40216S**			
JEL 2 SIGMA	2P	6	20.0	1 / 30	**40292S**		**40294S**	**40295S**
JEL 2 SIGMA	2P	6	25.0	1 / 30	**40221S**		**40223S**	
JEL 2 SIGMA	2P	6	40.0	1 / 30		**40242S**	**40243S**	
JEL 2 SIGMA	2P	6	63.0	1 / 30		**40262S**	**40263S**	
JEL 2 SIGMA	4P	6	20.0	1 / 30	**40492S**		**40494S**	
JEL 2 SIGMA	4P	6	25.0	1 / 30	**40421S**		**40423S**	
JEL 2 SIGMA	4P	6	32.0	1 / 30		**40432S**		
JEL 2 SIGMA	4P	6	40.0	1 / 30			**40443S**	
JEL 2 SIGMA	4P	6	63.0	1 / 30				**40464S**

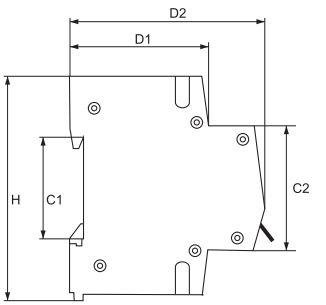


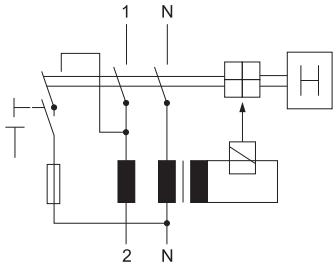
Documents corresponding to the product:
EN 61 009-1; EN 61009-2;



TYPE AC FOR AC CURRENT









TYPE AC FOR AC CURRENT

ELECTRO-MAGNETIC RESIDUAL CURRENT OPERATED CIRCUIT BREAKER (RCBO)- JEL5

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

DESCRIPTION OF THE OPERATING SYSTEM:
It is a combination of automatic circuit breaker and residual current electromagnetic device. It combines the properties of the two elements. The circuit breaker reacts at short circuit or overload in the protected circuit, and the electromagnetic residual current device - at failure in the conductors' insulation. It compares the magnitude of the currents through the neutral and phase conductors. The conductors are coiled on toroid and together with the secondary winding form a measurement transformer. The power conductors are coiled in such a way that the magnetic fields generated at electrical current flow through them are mutually neutralized. At failure in the insulation of some of the conductors or at presence of a person under voltage, the system is misbalanced and the magnetic fields can not be neutralized. This residual magnetic field generates in the secondary current winding, called current leakage. When the value of this current exceeds the limit value of the residual current breaker the device breaks and the residual current device switches off from the power supply grid. The device operates without any extra power supply to the electromagnetic residual current and is not influenced by voltage varying or decreasing.

FUNCTIONS:
- switching off heavy-loaded electrical circuits at short circuit or overload
- switching off heavy-loaded electrical circuits at insulation damage of the conductors to the consumers
- switching off heavy-loaded electrical circuits at presence of a person and animals under voltage
- used to protect not only particular consumers/circuits, but also the whole panel
- remarkable with high reliability of current characteristics
- control: manual switching on and automatic switching off at failure in the insulation after the breaker

TECHNICAL DATA:
- Rated operating voltage: 230V 50 Hz
- Circuit breaker rated current: according to the table
- Residual current responsiveness: 30; 100; 300; 500mA
- Time delay until break:
  - of the residual current device: <0.1s at I Δ n and <0.04s at 2I Δ n
  - of the circuit breaker: <0.1s
- Circuit breaker tripping curve: C
- Surge voltage wear resistance:≥2000V
- Breaking capacity: 10000
- Joining terminal: flat (tunnel) screw terminal made of 1.5 coldly draw-plated plane Q235A
- Type of the plastic:
  - material: self-extinguishing nylon PA66
  - dielectrical strength: >18MV/m
- Contact head: silver graphite CAg(5)
- Static contact: pure copper T2Y2 type
- Electrical wear resistance (number of cycles):≥5000
- Mechanical wear resistance (number of cycles):≥10000
- IP code: IP>20
- Indication for operating (switched on) position
- Breakers plastic material of UV rays and non-flammable
- Ambient temperature: -10°C + 65°C
- Installation altitude: up to 2000m

CONNECTING:
- flexible or rigid conductors with corresponding section

MOUNTING:
- on DIN-rail
- mounting position: vertical

The residual current device is mounted in the distribution box, and after the device the neutral conductor and the earthing conductor must not be connected together. In order to work accurately, the device must have three- or five-conductor grid with separate operating neutral conductor (N) and separate protecting conductor (PE) (e.g. earthing system TN-S or TT with three or five conductors).

Dimensions (mm)

W1	H	C1	C2	D1	D2
35	81	35	45	50	72

Combined electromagnetic residual current device and circuit breaker 2P 6kA

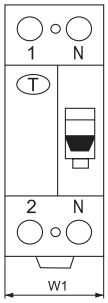
Type designation	Number of poles	Breaking capacity (kA)	Rated current (A)	Packing / Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL5	2p	6	10	1 / 60	**40010**	**40011**	**40013**	**40015**
JEL5	2p	6	16	1 / 60	**40016**	**40017**	**40018**	**40019**
JEL5	2p	6	25	1 / 60	**40025**	**40021**	**40023**	**40026**
JEL5	2p	6	32	1 / 60	**40032**	**40031**	**40033**	**40035**
JEL5	2p	6	40	1 / 60	**40040**	**40041**	**40043**	**40045**

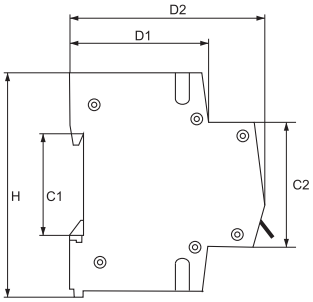
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
EN 61 009-1; EN 61009-2;



TYPE AC FOR AC CURRENT





ELECTRONIC RESIDUAL CURRENT OPERATED CIRCUIT BREAKER (RCBO)

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

DESCRIPTION OF THE OPERATING SYSTEM:
It is a combination of automatic circuit breaker and residual current electromagnetic device. It combines part of the properties of the two elements. The circuit breaker reacts at short circuit in the protected circuit, and the electromagnetic residual current device - at failure in the conductors' insulation. It compares the rate of the currents through the conductors in an electronic comparator. The residual current device operates normally at voltage feed. The voltage is needed for the comparator's energizing – a semi-conductor element with constantly set leakage current rate. This rate is compared with the actual rate. When the margin of the comparison is neutral, the residual current device does not operate, but at failure in the protected circuit insulation when it exceeds the set margin it operates and switches off the protection. For the normal operation of the residual current device, the power supplying circuit voltage must be over 170V and there must be no time variation.

FUNCTIONS:
- switching off heavy-loaded electrical circuits at short circuit or overload
- switching off heavy-loaded electrical circuits at insulation damage of the conductors to the consumers
- switching off heavy-loaded electrical circuits at presence of a person under voltage
- used to protect not only particular consumers/ circuits, but also the whole panel
- remarkable with high reliability of current characteristics
- control: manual switching on and automatic switching off at exit failure

TECHNICAL DATA:
- Rated operating voltage: 230/400V 50 Hz
- Circuit breaker rated current: according to the table
- Residual current responsiveness: 30; 100; 300; 500mA
- Time delay until break:
  - of the residual current device: <0.1s at I Δ n and <0.04s at 2I Δ n
  - of the circuit breaker: <0.1s
- Circuit breaker tripping curve: C
- Surge voltage wear resistance:≥2000V
- Breaking capacity: 4500A; 6000A; 10000A
- Joining terminal: flat (tunnel) screw terminal
- Electrical wear resistance (number of cycles):≥500
- Mechanical wear resistance (number of cycles):≥2000
- IP code: IP>20
- Indication for operating (switched on) position

CONNECTING:
- power supply busbar (for two- or three polar)
- flexible or rigid conductors with corresponding section

MOUNTING:
- on DIN-rail
- mounting position: vertical
- Breakers plastic material of UV rays and non-flammable
- Ambient temperature: -10°C + 65°C
- Installation altitude: up to 2000m

The residual current device is mounted in the distribution box, and after the device the neutral conductor and the earthing conductor must not be connected together. In order to work accurately, the device must have separate conductors for operational neutral conductor (N) and protective conductor (e.g. earthing system TN-S or TT with three or five conductors).

Dimensions (mm)

W1	H	C1	C2	D1	D2
35	81	35	45	50	72

Combined electronic residual current device with circuit breaker 2P, 6кA

Type designation	Number of poles	Breaking capacity (kA)	Rated current (A)	Packing / Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 4 C10	2p	6	10	1 / 60	**40211E**	**40207E**	**40208E**	**40209E**
JEL 4 C16	2p	6	16	1 / 60	**40215E**	**40245E**	**40235E**	**40237E**
JEL 4 C20	2p	6	20	1 / 60	**40225E**	**40229E**	**40230E**	**40238E**
JEL 4 C25	2p	6	25	1 / 60	**40240E**	**40204E**	**40246E**	**40268E**
JEL 4 C32	2p	6	32	1 / 60	**40265E**	**40260E**	**40236E**	**40269E**
JEL 4 C40	2p	6	40	1 / 60	**40274E**	**40270E**	**40273E**	**40275E**



TYPE AC FOR AC CURRENT

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



TYPE AC FOR AC CURRENT

ELECTRONIC RESIDUAL CURRENT OPERATED CIRCUIT BREAKER (RCBO) JEL3

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

Combined electronic residual current device with circuit breaker 2P, 10кA

Type designation	Number of poles	Breaking capacity (kA)	Rated current (A)	Packing/Box (pcs)	Leakage current I Δ n (mA)	Catalogue number curve B	Catalogue number curve C
JEL 3 C6	1p+N	10	6	5/100	30	**40906B**	**40906**
JEL 3 C10	1p+N	10	10	5/100	30	**40910B**	**40910**
JEL 3 C16	1p+N	10	16	5/100	30	**40916B**	**40916**
JEL 3 C20	1p+N	10	20	5/100	30	**40920B**	**40920**
JEL 3 C25	1p+N	10	25	5/100	30	**40925B**	**40925**
JEL 3 C32	1p+N	10	32	5/100	30	**40932B**	**40932**
JEL 3 C40	1p+N	10	40	5/100	30	**40940B**	**40940**



TYPE AC FOR AC CURRENT

Combined electronic residual current device with circuit breaker 2P, 6кA

Type designation	Number of poles	Breaking capacity (kA)	Rated current (A)	Packing/Box (pcs)	Leakage current I Δ n (mA)	Catalogue number curve B	Catalogue number curve C
JEL 3 B6	1p+N	6	6	5/100	30	**40956B**	**40956C**
JEL 3 B10	1p+N	6	10	5/100	30	**40960B**	**40960C**
JEL 3 B16	1p+N	6	16	5/100	30	**40966B**	**40966C**
JEL 3 B20	1p+N	6	20	5/100	30	**40970B**	**40970C**
JEL 3 B25	1p+N	6	25	5/100	30	**40975B**	**40975C**
JEL 3 B32	1p+N	6	32	5/100	30	**40982B**	**40982C**
JEL 3 B40	1p+N	6	40	5/100	30	**40990B**	**40990C**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

ELECTRONIC RESIDUAL CURRENT OPERATED CIRCUIT BREAKER (RCBO) JEL6

3+0 standard +extended 3 YEAR TOTAL WARRANTY



UNTIL SUPPLY LAST

Combined electronic residual current device 2P

Compares the leakage current between the phase and neutral conductors or between two phases.

Type designation	Number of poles	Breaking capacity (kA)	Rated current (A)	Packing / Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 6 C10	2P	6	10	6 / 120	**40211**	**40207**	**40208**	**40209**
JEL 6 C16	2P	6	16	6 / 120	**40215**	**40245**	**40235**	**40237**
JEL 6 C25	2P	6	25	6 / 120	**40225**	**40229**	**40230**	**40238**
JEL 6 C40	2P	6	40	6 / 120	**40240**	**40204**	**40246**	**40268**
JEL 6 C50	2P	6	50	6 / 120	**40265**	**40260**	**40236**	**40269**



UNTIL SUPPLY LAST

Combined electronic residual current device 3P

Compares the leakage current between the phases

Type designation	Number of poles	Breaking capacity (kA)	Rated current (A)	Packing / Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 6 C10	3P	6	10	3 / 60	**40310**	**40311**	**40313**	**40314**
JEL 6 C16	3P	6	16	3 / 60	**40316**	**40317**	**40318**	**40319**
JEL 6 C25	3P	6	25	3 / 60	**40325**	**40321**	**40323**	**40324**
JEL 6 C40	3P	6	40	3 / 60	**40340**	**40341**	**40343**	**40344**
JEL 6 C50	3P	6	50	3 / 60	**40363**	**40361**	**40336**	**40365**



UNTIL SUPPLY LAST

Combined electronic residual current device 3P+N

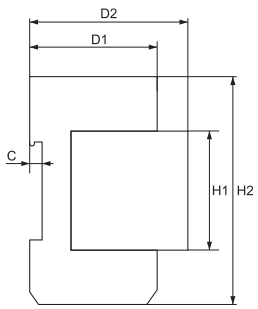
Compares the leakage current between the three phases and neutral conductors.

Type designation	Number of poles	Breaking capacity (kA)	Rated current (A)	Packing / Box (pcs)	Catalogue number			
					Leakage current I Δ n (mA)			
					30	100	300	500
JEL 6 C10	3P+N	6	10	2 / 40	**40411**	**40407**	**40408**	**40409**
JEL 6 C16	3P+N	6	16	2 / 40	**40415**	**40445**	**40439**	**40438**
JEL 6 C25	3P+N	6	25	2 / 40	**40425**	**40420**	**40428**	**40429**
JEL 6 C40	3P+N	6	40	2 / 40	**40440**	**40404**	**40447**	**40446**
JEL 6 C50	3P+N	6	50	2 / 40	**40465**	**40401**	**40436**	**40469**

Documents corresponding to the product:
Standard EN61 643-1



TYPE AC FOR AC CURRENT



Dimensions (mm)

C	H1	H2	D1	D2
5	90	45	43,5	58

SURGE ARRESTERS SPD TYPE

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

The surge arrester consists of a semi-conductor valve element that opens at certain conditions. At normal conditions of the system, the surge arrester has infinitely high resistance between the protected conductors and earthing circuit. At voltage increase due to atmospheric nature or system failure, the valve element opens and leads the excessive voltage to the grounded circuit.
After reversion of the normal voltage the valve element closes. The arrester can endure high momentary overloading.

FUNCTIONS:
- protection of heavy-loaded electrical circuits from overload
- used to protect not only particular consumers/ circuits, but also the whole panel
- remarkable with high reliability of current characteristics
- control: automatic switching off at exit failure and recovery after eliminating the danger

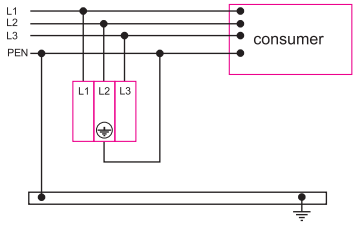
TECHNICAL DATA:
- Rated operating voltage Uc: - the operating voltage of the surge arrester 275/440V; 50Hz
- Surge voltage Up: the voltage created in surge arrester terminals at rated discharge current running: according to the tables
- Rated discharge current In – the rated value of discharge current with a sinusoid 8/20μs, which can be repeatedly led to the ground: according to the tables
- Full discharge current Imax – the peak value of the discharge current with a sinusoid 8/20μs, which the surge arrester can bear once: according to the table
- Constant operating current: up to 800μA for 1P, 2P and 3P; up to 600μA for 1P + N, 3P + N
- Indication for damaged surge arrester
- Offered in types: 1P; 1P + N; 3P; 3P + N

CONNECTING:
- flexible or rigid conductors with corresponding section

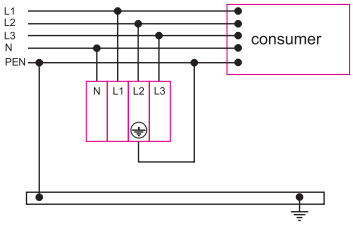
MOUNTING:
- on DIN-rail
- mounting position: vertical
- mounting in the distribution box on the front or right before the breaker according to the attached schemes
- Breakers plastic material of UV rays and non-flammable
- Ambient temperature: -10°C + 65°C
- Installation altitude: up to 2000m

COLOUR CODE for all types 5κA - yellow; white – 10κA; green – 20 κA and red 40κA

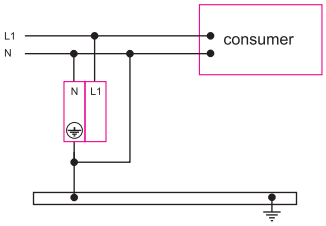
Three phase protection TN-C system



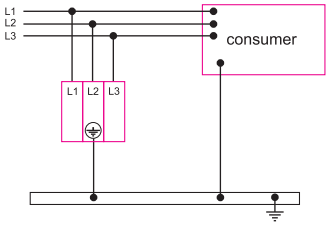
Three phase protection TN-C system



Monophase protection TT system



Three phase protection IT system



The surge arrester selection is made according to the overload risk level or atmosphere activity, named B, C or D (from high to low risk level).

THE COMPANY OFFERS THE FOLLOWING MODELS OF ARRESTERS:
Model SPD – Bxxxx – for systems with exceptionally high risk level. Mounted mainly in the beginning of the installation or in the main panel.
Model SPD – Cxxxx – for systems with high or average risk level. Mounted in the beginning of the installation or before the breaker.
Model SPD – Dxxxx – for systems with low risk level. Suitable for secondary protection of consumers in combination with SPD – Bxxxx/SPD – Cxxxx

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type of the arrester	In (kA)	Imax (kA)	Uc (V)	Up (kV)	Packing/Box (pcs)	Catalogue number
SPD-D5/1p	5	10	275	1.2	17 / 170	**64101**
SPD-C10/1p	10	20	275	1.2	17 / 170	**64102**
SPD-C20/1p	20	40	275	1.8	17 / 170	**64103**
SPD-B40/1p	40	60	275	2	17 / 170	**64104**



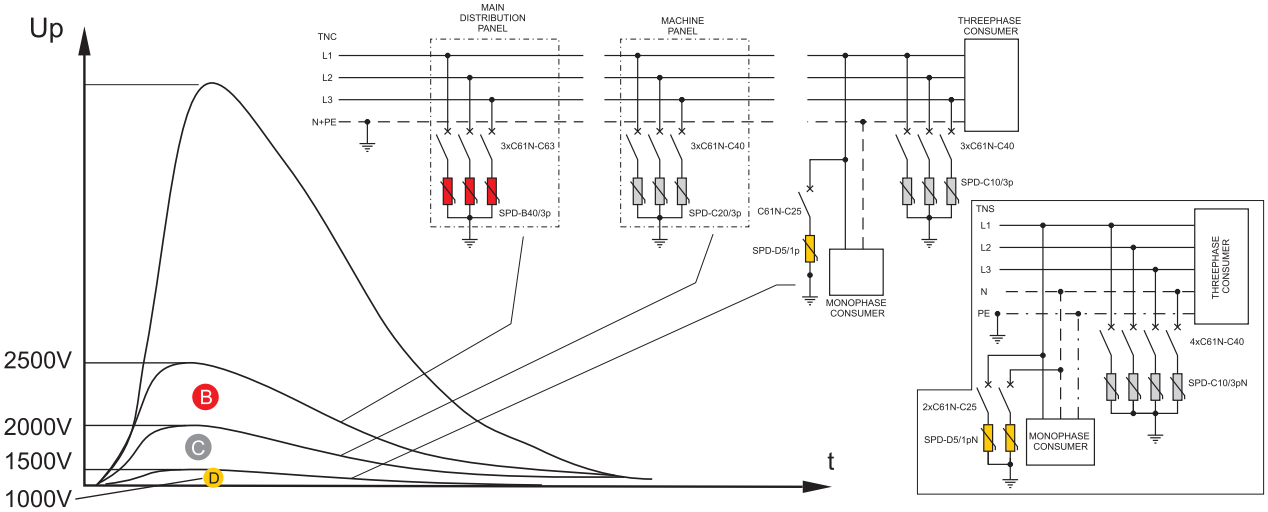
Type of the arrester	In (kA)	Imax (kA)	Uc (V)	Up (kV)	Packing/Box (pcs)	Catalogue number
SPD-D5/1pN	5	10	275	1.2	8 / 80	**64201**
SPD-C10/1pN	10	20	275	1.2	8 / 80	**64202**
SPD-C20/1pN	20	40	275	1.8	8 / 80	**64203**
SPD-B40/1pN	40	60	275	2	8 / 80	**64204**



Type of the arrester	In (kA)	Imax (kA)	Uc (V)	Up (kV)	Packing/Box (pcs)	Catalogue number
SPD-D5/3p	5	10	440	1.2	5 / 50	**64301**
SPD-C10/3p	10	20	440	1.2	5 / 50	**64302**
SPD-C20/3p	20	40	440	1.8	5 / 50	**64303**
SPD-B40/3p	40	60	440	2	5 / 50	**64304**



Type of the arrester	In (kA)	Imax (kA)	Uc (V)	Up (kV)	Packing/Box (pcs)	Catalogue number
SPD-D5/3pN	5	10	440	1.2	4 / 40	**64401**
SPD-C10/3pN	10	20	440	1.2	4 / 40	**64402**
SPD-C20/3pN	20	40	440	1.8	4 / 40	**64403**
SPD-B40/3pN	40	60	440	2	4 / 40	**64404**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



COMBINED SURGE ARRESTERS TYPE 1 + 2

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

Combined surge arresters Type 1 + 2 are coordinated in advance.They can manage and prevent the high energy during a thunderbolt and to assure the better level of security of electricity of the electrical equipment

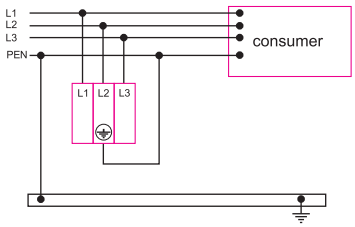
Surge arresters Type 1 is used to catch the energy caused by higher electricity compared to the capacity of direct thunderbolt. The security device has passed a successful test according to the standards with electric wave 10/350 (class 1 test).

Surge arresters Type 2 is used to catch the energy caused by higher electricity, compared to the capacity of indirect strike or commutative overvoltage. The security device has passed a successful test according to the standards with electric wave 8/20 (class 2 test).

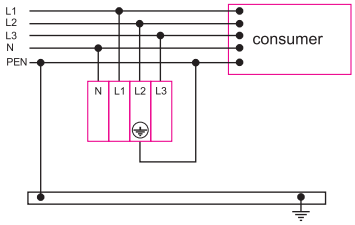
Response time: <25 nS
Voltage protection level: 1,5kV

Type of arrester	Max inpluse current Iimp (10/350μS)	Max discharge current Imax (8/20 μS)	Nominal line voltage Un (V)	Earthing system	Catalogue number
SPD-X/1P+N	12.5kA	50kA	230	TT,TN-S	**64502**
SPD-X/3P	12.5kA	50kA	230/400	TN-C	**64503**
SPD-X/3P+N	12.5kA	50kA	230/400	TT,TN-S	**64504**

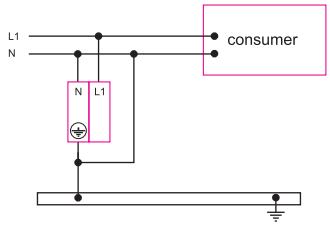
Three phase protection TN-C system



Three phase protection TN-S system



Monophase protection TT system



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

COMBINED SURGE ARRESTERS AC – DC

7+0 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

Specially designed surge arresters providing protection of solar and photo - voltaic systems; designed to protect system against overvoltages resulting from indirect light impact. They could be installed in earthed and non - earthed systems. They break photo - voltaic generator electric circuit when voltage reaches or over passes limit threshold value, providing photo - voltaic protection against destroying.

COLOUR CODE for all types 5кА - yellow; white – 10кА; green – 20 кА and red 30кА



TYPE AC FOR AC/DC CURRENT

Type of the arrester	In (kA)	Imax (kA)	Uc (V)	Up (kV)	Packing/Box (pcs)	Catalogue number
SPD-DC-D5/1p	5	10	275 AC/440 DC	≤ 1.2	17 / 170	**64105**
SPD-DC-C10/1p	10	20	275 AC/440 DC	≤ 1.5	17 / 170	**64106**
SPD-DC-C20/1p	20	40	275 AC/440 DC	≤ 1.8	17 / 170	**64107**
SPD-DC-B40/1p	30	60	275 AC/440 DC	≤ 2.2	17 / 170	**64108**



TYPE AC FOR AC/DC CURRENT

Type of the arrester	In (kA)	Imax (kA)	Uc (V)	Up (kV)	Packing/Box (pcs)	Catalogue number
SPD-DC-D5/1pN	5	10	275 AC/440 DC	≤ 1.2	8 / 80	**64205**
SPD-DC-C10/1pN	10	20	275 AC/440 DC	≤ 1.5	8 / 80	**64206**
SPD-DC-C20/1pN	20	40	275 AC/440 DC	≤ 1.8	8 / 80	**64207**
SPD-DC-B40/1pN	30	60	275 AC/440 DC	≤ 2.2	8 / 80	**64208**



TYPE AC FOR AC/DC CURRENT

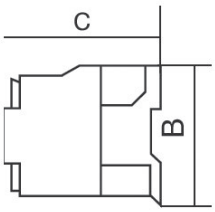
Type of the arrester	In (kA)	Imax (kA)	Uc (V)	Up (kV)	Packing/Box (pcs)	Catalogue number
SPD-DC-D5/3p	5	10	385 AC/500 DC	≤ 1.2	5 / 50	**64305**
SPD-DC-C10/3p	10	20	385 AC/500 DC	≤ 1.5	5 / 50	**64306**
SPD-DC-C20/3p	20	40	385 AC/500 DC	≤ 1.8	5 / 50	**64307**
SPD-DC-B40/3p	30	60	385 AC/500 DC	≤ 2.2	5 / 50	**64308**

TYPE AC FOR AC/DC CURRENT

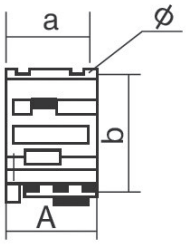
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

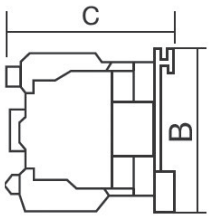
Documents corresponding to the product:
Standard EN 60947-1; EN 60 947-4-1
The products are in accordance with the directives of EC "Low voltage directives (LVD) no. 2006/95/EC" and "Electromagnetic Compatibility Directives (EMC) no. 2004/108/EC".



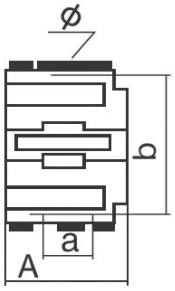


LH1-D 09~32





LH1-D 40



UNTIL SUPPLY LAST

LOW VOLTAGE CONTACTORS LH1 - D

3+0 standard +extended 3 YEAR TOTAL WARRANTY

LH 1 D contactors are alternating current contactors for control of circuits and consumers operating in class AC3.
It is suitable for consumers with rated current up to 95A. The contactors are offered in a type with 1 NO contact
for operating circuit making and the models over 40A also have 1NC operating contactor.

FUNCTIONS:
- switching on/off heavy-loaded electrical circuits at controlling signal to the coil
- making of control systems
- used as an operating element in process control panels
- remarkable with high reliability of current characteristics
- reliable separation of power contactors
- secured cover of the movable part of the contactor

TECHNICAL DATA:
- Operation class: AC 3
- Rated operating voltage of power contactors: up to 690V; 50/60Hz
- Composition of the power contact surfaces: unalloyed copper with coating 80% AgSnO
- Surge voltage wear resistance: >6000V
- Rated voltage of the coil: from 12 to 400V AC
- Limits of the controlling coil voltage: from 0.8 to 1.15 Uc
- Joining terminal: screw terminal
- Connecting:
  - flexible conductors with or without cable terminal
  - rigid conductors
- Electrical wear resistance (number of cycles):≥500000
- Mechanical wear resistance (number of cycles):≥500000
- Number of cycles per hour: 500 UP TO 32A; 600 for 40-95A
- Pole leaking power: up to 10W

MOUNTING:
- on DIN-rail or
- -ith bolts to the surface
- mounting position: vertical gradient – maximum ± 5°
- Ambient temperature: -10°C + 60°C
- Altitude: up to 2000m

Type	Overall dimensions (mm)					
	a	b	Φ	A	B	C
LH1 - D09-12	34/35	50/60	4.5	47	70	82
LH1 - D2510	40	48	4.5	57	80	95
LH1 - D3210	40	48	4.5	57	80	100
LH1 - D4011	40	100	6.5	77	126	116

Type number	Motor rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440Vtp up	Tightening moment (N.m)	Coil voltage	Packing/ Box (pcs)	Catalogue number
	220V 230V	380V 400V	415V	440V	660V 690V	closed	open					
LH1 - D0910 1NO	2.2	4	4	4	5.5	7	60	9A	1.7	230 400	1/50	**73091** **73092**
LH1-D1210 NO	3	5.5	5.5	5.5	7.5	7	60	12A	1.7	230 400	1/50	**73121** **73122**
LH1 - D2510 1NO	5.5	11	11	11	15	7.5	90	25A	2.5	230 400	1/50	**73251** **73252**
LH1 - D3210 1NO	7.5	15	15	15	18.5	7.5	90	32A	2.5	230 400	1/50	**73321** **73322**
LH1 - D4011 1NO	11	18.5	22	22	30	20	200	40A	5	230 400	1/20	**73401** **73402**

Documents corresponding to the product:
Standard EN 60947-1; EN 60 947-4-1



LOW VOLTAGE CONTACTORS LT1-D/HK

5+2 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

LT 1 D contactors are alternating current contactors for control of circuits and consumers operating in class AC3. It is suitable for consumers with rated current up to 95A. The contactors are offered in a type with 1 NO contact for operating circuit making and the models over 40A also have 1NC operating contactor.

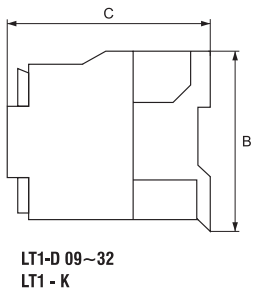
FUNCTIONS:
- switching on/off heavy-loaded electrical circuits at controlling signal to the coil
- making of control systems
- used as an operating element in process control panels
- remarkable with high reliability of current characteristics
- reliable separation of power contactors
- secured cover of the movable part of the contactor

TECHNICAL DATA:
- Operation class: utilization category AC-3
- Rated operating voltage of power contactors: up to 690V; 50/60Hz
- Composition of the power contact surfaces: unalloyed copper with coating 80% AgSnO
- Surge voltage wear resistance: >8000V
- Rated voltage of the coil: from 12 to 400V AC
- Coil material: pure copper type QA-1
- Magnetic core material: alloy steel type 360
- Moveable part material: Bakelite
- Limits of the controlling coil voltage: operating range of coil
- Joining terminal: screw terminal
- Connecting:
  - flexible conductors with or without cable terminal
  - rigid conductors
- Electrical wear resistance (number of cycles):≥1000000
- Mechanical wear resistance (number of cycles):≥10000000
- Number of cycles per hour: 1200 UP TO 32A; 600 for 40-95A
- Pole leaking power: up to 13W

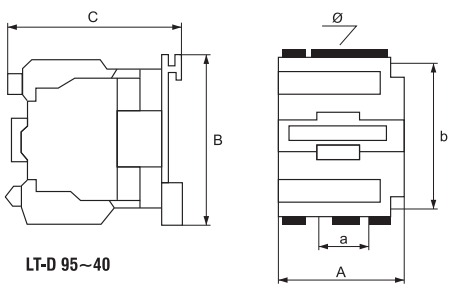
MOUNTING:
- on DIN-rail
- with bolts to the surface
- mounting position: vertical gradient – maximum ± 5°
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m



Type	Overall dimensions (mm)					
	a	b	Ø	A	B	C
LT1-HK 06~12/LT-1K	34/35	45	4.5	45	50	50
LT-D 09~12	34/35	50/60	4.5	47	70	82
LT1 D18	34/35	50/60	4.5	47	70	87
LT1 D25	40	48	4.5	57	80	95
LT1 D32	40	48	4.5	57	80	100
LT-D 40~65	40	100/110	6.5	77	126	116
LT-D 80~95	40	100/110	6.5	87	126	127



LT1-D 09~32
LT1 - K



LT-D 95~40

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

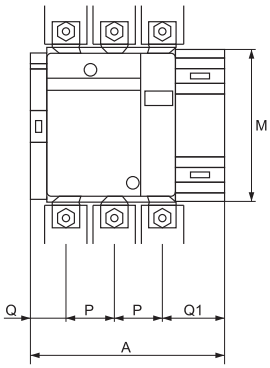
Type number	Rated capacity (kW)					Power consumption of coil (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Packing/ Box (pcs)	Catalogue number according to the coil voltage (V)						
	220V 230V	380V 400V	415V	440V	660V 690V	closed inrush	open hold					230V	400V	12V	24V	36V	48V	110V
LT 1 - HK 0610 1NO	1.5	2.2	2.2	2.2	3	7	60	6A	1.7	0.75-2.5	1 / 100	**23061E**	**23062E**	**23063E**	**23064E**	**23065E**	**23066E**	**23067E**
LT 1 - HK 0910 1NO	2.2	3.7	3.7	3.7	4	7	60	9A	1.7	0.75-2.5	1 / 100	**23091E**	**23092E**	**23093E**	**23094E**	**23095E**	**23096E**	**23097E**
LT 1 - HK 1210 1NO	3	4	4	4	5	7	60	12A	1.7	0.75-2.5	1 / 100	**23121E**	**23122E**	**23123E**	**23124E**	**23125E**	**23126E**	**23127E**
LT 1 - HK 0610 1NO*	1.5	2.2	2.2	2.2	3	7	60	6A	1.7	0.75-2.5	1 / 100	**23061**	**23062**	**23063**	**23064**	**23065**	**23066**	**23067**
LT1 - D0910 1NO	2.2	4	4	4	5.5	7	60	9A	1.7	1-4	1 / 50	**23091**	**23092**	**23093**	**23094**	**23095**	**23096**	**23097**
LT1 - D0901 1NC	2.2	4	4	4	5.5	7	60	9A	1.7	1-4	1 / 50	**23273**	**23270**	**23271**	**23272**	**23277**	**23278**	**23279**
LT1 - D1210 1NO	3	5.5	5.5	5.5	7.5	7	60	12A	1.7	1-4	1 / 50	**23121**	**23122**	**23123**	**23124**	**23125**	**23126**	**23127**
LT1 - D1201 1NC	3	5.5	5.5	5.5	7.5	7	60	12A	1.7	1-4	1 / 50	**23274**	**23280**	**23281**	**23282**	**23283**	**23284**	**23285**
LT1 - D1810 1NO	4	7.5	9	9	10	7	60	18A	1.7	1-4	1 / 50	**23181**	**23182**	**23183**	**23184**	**23185**	**23186**	**23187**
LT1 - D1801 1NC	4	7.5	9	9	10	7	60	18A	1.7	1-4	1 / 50	**23275**	**23286**	**23287**	**23288**	**23289**	**23290**	**23291**
LT1 - D2510 1NO	5.5	11	11	11	15	7.5	90	25A	2.5	2.5-10	1 / 50	**23251**	**23252**	**23253**	**23254**	**23255**	**23256**	**23257**
LT1 - D2501 1NC	5.5	11	11	11	15	7.5	90	25A	2.5	2.5-10	1 / 50	**23276**	**23292**	**23293**	**23294**	**23295**	**23296**	**23297**
LT1 - D3210 1NO	7.5	15	15	15	18.5	7.5	90	32A	2.5	2.5-10	1 / 50	**23321**	**23322**	**23323**	**23324**	**23325**	**23326**	**23327**
LT1 - D4011 1NO+1NC	11	18.5	22	22	30	20	200	40A	5	2.5-16	1 / 20	**23401**	**23402**	**23403**	**23404**	**23405**	**23406**	**23407**
LT1 - D5011 1NO+1NC	15	22	25	25	33	20	200	50A	5	6-25	1 / 20	**23501**	**23502**	**23503**	**23504**	**23505**	**23506**	**23507**
LT1 - D6511 1NO+1NC	18.5	30	37	37	37	20	200	65A	5	6-25	1 / 20	**23651**	**23652**	**23653**	**23654**	**23655**	**23656**	**23657**
LT1 - D8011 1NO+1NC	22	37	45	45	45	20	200	80A	9	10-50	1 / 15	**23801**	**23802**	**23803**	**23804**	**23805**	**23806**	**23807**
LT1 - D9511 1NO+1NC	25	45	45	45	45	20	200	95A	9	10-50	1 / 15	**23951**	**23952**	**23953**	**23954**	**23955**	**23956**	**23957**

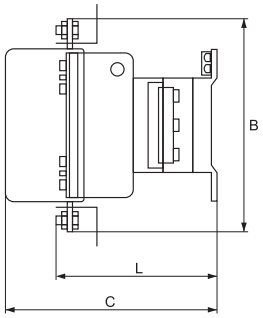
Note: *Until supply last

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-1; EN 60 947-4-1







LOW VOLTAGE CONTACTORS LT1-F

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

The contactors LT 1- F are alternating current contactors used to control circuits and consumers operating in normal working conditions with switching on /off the consumer and dirty working environment. They are suitable for consumers with electrical power consumption from 115A to 800A.

FUNCTIONS:
- frequently switching on/off heavy-loaded electrical circuits at controlling signal to the coil
- making of systems for consumers' control
- used as an operating element in process control panels
- remarkable with high reliability of current characteristics
- reliable separation of power contactors
- secured cover of the movable part of the contactor

TECHNICAL DATA:
- Operation class: utilization category AC-3
- Rated operating voltage of power contactors: up to 1000V; 50/60Hz
- Composition of the power contact surfaces: unalloyed copper with coating 80% AgSnO
- Surge voltage wear resistance: >8000V
- Coil composition: pure coil copper QA-1 type
- Magnetic core composition: steel alloy 360
- Movable part composition: bakelite
- Limits of the controlling coil voltage: operating range of coil
- Joining terminal: screw terminal
- Connecting:
  - flexible conductors with or without cable terminal
  - rigid conductors
  - rail
- Electrical wear resistance (number of cycles):≥10000000
- Mechanical wear resistance (number of cycles):≥10000000
- Number of cycles (switching on) per hour: 200
- Pole leaking power: from 16 to 80W
- Mounting:
  - with bolts to the surface
  - mounting position: vertical gradient – maximum± 10°C
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m

Type	Overall dimensions (mm)							
	A	B	C	L	M	Q	Q1	P
LT 1 F150	163.5	170	171	107	150	26	57.5	40
LT 1 F225	168.5	197	181	113.5	172	21	51.5	48
LT 1 F265	201.5	203	181	141	178	39	66.5	48
LT 1 F400	213	206	219	145	182	43	74	48
LT 1 F630	309	304	255	155	264	60	89	80
LT 1 F800	309	304	255	155	264	60	89	80

Type number	Motor rated capacity (kW)							Power consumption of coil (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Packing/ Box (pcs)	Catalogue number according to the coil voltage (V)						
	220V 230V	380V 400V	415V	440V	500V	660V 690V	1000V	closed	open				230V	400V	12V	24V	36V	48V	110V
LT1 - F115	30	55	59	59	59	80	60	45	550	115 A	18	1 / 4	**23111**	**23112**	**23113**	**23114**	**23115**	**23116**	**23117**
LT1 - F150	40	75	80	80	90	100	65	45	550	150 A	25	1 / 4	**23151**	**23152**	**23153**	**23154**	**23155**	**23156**	**23157**
LT1 - F225	63	110	110	110	129	129	100	55	805	225 A	35	1 / 2	**23861**	**23862**	**23863**	**23864**	**23865**	**23866**	**23867**
LT1 - F265	75	132	140	140	160	160	147	10	700	265 A	35	1 / 2	**23261**	**23262**	**23263**	**23264**	**23265**	**23266**	**23267**
LT1 - F400	110	200	220	250	257	280	185	18	1000	400 A	50	1 / 1	**23751**	**23752**					
LT1 - F630	200	335	375	400	400	450	450	25	1500	630 A	50	1 / 1	**23771**	**23772**					
LT1 - F800	250	450	450	450	450	475	450	15	1300	800 A	50	1 / 1	**23881**	**23882**					

Note: At mounting the containers from the series in control schemes a distance must be provided at the side of the contactor in case of eventual coil change.

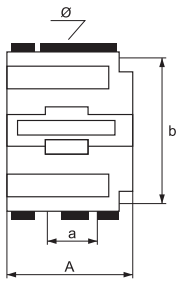
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

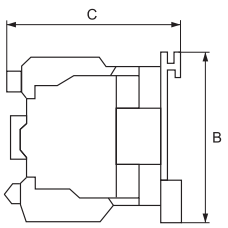
Documents corresponding to the product:
Standard EN60947-1; EN 60947-4-1

LOW VOLTAGE CONTACTORS WITH DIRECT CURRENT COIL LP1-D

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty







LP1-D 09~95

The contactors LP1 D are alternating current contactors with DC operating of coil for control. The power plugs of the contactor are designed for control of alternating current circuits and consumers operating in normal operating class AC-3 with frequently switching on/off the consumer and dirty working environment. The contactors are suitable for consumers with electrical power consumption from 9A to 225A.

FUNCTIONS:
- switching on/off alternating current consumers in direct current controlling schemes at controlling signal to the coil
- making of systems for consumers' control
- used as an operating element in process control panels
- remarkable with high reliability of current characteristics
- reliable separation of power contacts
- secured cover of the movable part of the contactor

TECHNICAL DATA:
- Rated operating voltage of the coil: from 12V DC to 220V DC
- Rated operating voltage of the power circuit: up to 690V DC
- insulation voltage: 690V
- Surge voltage wear resistance: >8000V
- Limits of the controlling coil voltage: operating range of coil
- Joining terminal: screw terminal
- Connecting:
  - flexible conductors with or without cable terminal
  - rigid conductors
- Electrical wear resistance (number of cycles):≥10000000
- Mechanical wear resistance (number of cycles):≥10000000
- Number of cycles per hour: 1200 up to 32A; 600 for 40-95A
- Pole leaking power: up to 13W

MOUNTING:
- on DIN-rail
- with bolts to the surface
- mounting position: vertical gradient – maximum± 5°
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m

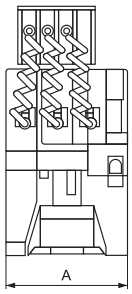
Type	Overall dimensions (mm)				
	A	B	C	a	b
LP 1 D0910	47	76	95	34/35	50/60
LP 1 D1210	47	76	95	34/35	50/60
LP 1 D1810	47	76	95	34/35	50
LP 1 D2510	57	86	101	40	50
LP 1 D3210	57	86	101	40	50
LP 1 D4011	77	129	176	40	100
LP 1 D5011	77	129	176	40	100
LP 1 D6511	77	129	176	40	100
LP 1 D9511	87	129	182	40	100
LP 1 F115	163.5	170	171	40	150
LP 1 F150	163.5	170	171	40	150
LP 1 F225	168.5	197	181	48	172

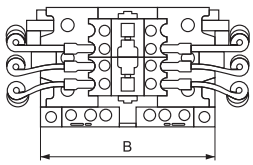
Type	Rated current (A)	Auxiliary contact (pcs.)	Rated capacity of the consumer (kW)					Packing/ Box (pcs)	Catalogue number according to the coil voltage (V DC)					
			230V	400V	415V	440V	690V		12V	24V	36V	48V	110V	230V
LP 1 D0910	9	1NO	2.20	4.00	4.00	4.00	5.50	1/40	**23962**	**23098**	**23130**	**23971**	**23980**	**23139**
LP 1 D1210	12	1NO	3.00	5.50	5.50	5.50	7.50	1/40	**23963**	**23128**	**23131**	**23972**	**23981**	**23140**
LP 1 D1810	18	1NO	4.00	7.50	7.50	7.50	10.0	1/30	**23964**	**23188**	**23132**	**23973**	**23982**	**23141**
LP 1 D2510	25	1NO	5.50	11.0	11.0	11.0	15.0	1/20	**23925**	**23258**	**23133**	**23974**	**23983**	**23142**
LP 1 D3210	32	1NO	7.50	15.0	15.0	15.0	18.5	1/30	**23966**	**23328**	**23134**	**23975**	**23984**	**23143**
LP 1 D4011	40	1NO+1NC	11.0	18.5	18.5	18.5	30.0	1/10	**23967**	**23408**	**23135**	**23976**	**23985**	**23144**
LP 1 D5011	50	1NO+1NC	15.0	22.0	22.0	22.0	33.0	1/10	**23968**	**23508**	**23136**	**23977**	**23986**	**23145**
LP 1 D6511	65	1NO+1NC	18.5	30.0	30.0	30.0	37.0	1/10	**23969**	**23658**	**23137**	**23978**	**23987**	**23146**
LP 1 D9511	95	1NO+1NC	25.0	45.0	45.0	45.0	45.0	1/10	**23970**	**23958**	**23138**	**23979**	**23988**	**23147**
LP 1 F115	115	1NO	30.0	55.0	59.0	59.0	80.0	1/4	**23911**	**23118**	**23914**	**23917**	**23989**	**23148**
LP 1 F150	150	1NO	40.0	75.0	80.0	80.0	100	1/4	**23912**	**23158**	**23915**	**23918**	**23990**	**23149**
LP 1 F225	225	1NO	63.0	110	110	110	129	1/2	**23913**	**23228**	**23916**	**23919**	**23994**	**23201**

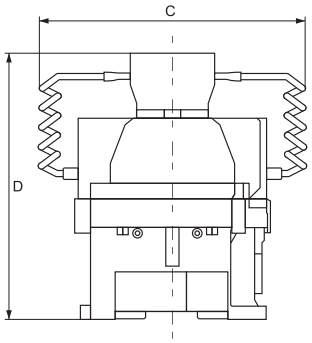
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN60947-1; EN 60947-4-1









LOW VOLTAGE CONTACTORS FOR SWITCHING ON OF CAPACITOR BANKS CJ19-43

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

The AC contactors CJ19-43 are specially designed electrical devices for commutation of three phase capacitors used for power correction. They are alternating current contactor LT1 Dxx with mounted a group for peak current lowering from the transitional process of the capacitor's switching on/off. This group is a combination of current limiting resistors, switched on in the beginning of the transitional process (switching on/off of the capacitor group).
The contactors are suitable for capacitors with rate up to 50 kVAr.

FUNCTIONS:
- switching on/off of capacitor banks for reactive power compensation
- making of systems for compensation of the energy reactive component
- lowering of the peak transitional currents at switching on/off of the capacitor
- remarkable with high reliability of current characteristics
- reliable separation of power contacts
- secured part of the contactor against consumer contact
- do not allow manual operation

TECHNICAL DATA:
- Operation class: utilization category AC6b
- Rated operating voltage of the controlling coil: 230V AC; 50/60Hz
- Rated operating voltage of the power circuit: up to 690V AC
- insulation voltage: 690V
- Surge voltage wear resistance: >8000V
- Limits of the controlling coil voltage: from 0.8 to 1.15 Uc
- Number of the contacts: 3 NO power contacts +1NO operative
- Joining terminal: screw terminal
- Connecting:
  - flexible conductors with or without cable terminal
  - rigid conductors
- Electrical wear resistance (number of cycles):≥300000
- Mechanical wear resistance (number of cycles):≥1000000
- Number of cycles (switching on) per hour: up to 600
- Pole leaking power: up to 13W

MOUNTING:
- on DIN-rail or
- with bolts to the surface
- mounting position: vertical gradient – maximum± 5°
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m

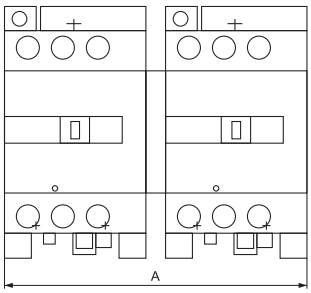
Type	Overall dimensions (mm)			
	A	B	C	D
CJ19-32 DPK	56	74	130	150
CJ19-40 DPK	75	127	180	150
CJ19-65 DPK	85	127	200	157
CJ19-95 DPK	85	127	200	157
CJ19-115DPK	122	165	230	157
CJ19-150DPK	122	165	230	157
CJ19-170DPK	122	165	230	157

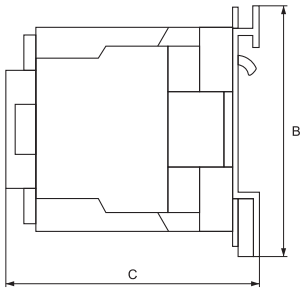
Type	Rated current (A)	Rated capacity of the consumer (kVAr)		Coil voltage (V)	Packing/Box (pcs)	Catalogue number
		400/440V	690V			
CJ19-32 DPK	32	8	12.5	230	1/20	**23932**
CJ19-32 DPK	32	8	12.5	400	1/20	**23910**
CJ19-40 DPK	40	12.5	15	230	1/16	**23900**
CJ19-40 DPK	40	12.5	15	400	1/16	**23940**
CJ19-65 DPK	65	25	30	230	1/16	**23961**
CJ19-65 DPK	65	25	30	400	1/16	**23965**
CJ19-95 DPK	95	30	36	230	1/16	**23909**
CJ19-95 DPK	95	30	36	400	1/16	**23995**
CJ19-115 DPK	115	35	40	230	1/4	**23991**
CJ19-150 DPK	150	40	50	230	1/4	**23992**
CJ19-170 DPK	170	50	60	230	1/4	**23993**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN60947-1; EN 60947-4-1







Type	Overall dimensions (mm)		
	A	B	C
LT 4 - D1810	100	70	83
LT 4 - D2510	130	80	98
LT 4 - D3210	130	80	105
LT 4 - D4011	167	126	116
LT 4 - D6511	167	126	116
LT 4 - D9511	182	127	127

REVERSE CONTACTORS LT4-DXX

5+2 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

LT 4-Dxx series contactors is suitable for across- the line starting and reversing of-3 phase squirrel cage and slip ring motors. It consist of two magnetic contactors LT1D. The contactor is provided whit a built-in interlock safety mechanism. The contactor is used for reverse control of induction motors with shortly rotor.
The contactors from the series are offered for consumers up to 95A.

FUNCTIONS:
- switching on of electrical motors in one direction of rotation and reversing of the rotation direction at outside command
- making of control systems
- remarkable with high reliability of current characteristics
- reliable switching on or separation of power contacts
- secured part of the contactors against consumer contact
- secured cover of the movable part of the contactor
- impossibility for simultaneous switching on of the two contactors from the group due to mechanical locking

TECHNICAL DATA:
- Operation class: AC 3
- Rated operating voltage of the controlling coil: 230V AC; 50/60 Hz
- Rated operating voltage of the power circuit: up to 690V AC
- insulation voltage: 690V
- Surge voltage wear resistance: >8000V
- Limits of the controlling coil voltage: from 0.8 to 1.15 Uc
- Number of plugs: 3 NO power contacts +1NO operative (for contactors over 40A there is also additional 1NC contact)
- Joining terminal: screw terminal
- Connecting:
  - flexible conductors with or without cable terminal
  - rigid conductors

NOTE: The contactors are offered without factory cabling
- Electrical wear resistance (number of cycles):≥1 000 000
- Mechanical wear resistance (number of cycles):≥10 000 000
- Number of cycles (switching on) per hour: up to 600
- Pole leaking power: up to 13W

MOUNTING:
- on DIN-rail or
- with bolts to the surface
- mounting position: vertical gradient – maximum± 5°
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m

Type	Rated current (A)	Rated capacity of the consumer (kW)					Packing/Box (pcs)	Catalogue number
		230V	400V	415V	440V	690V		
LT 4 D1810	18	4	7.5	7.5	7.5	10	1 / 20	**23301**
LT 4 D2510	25	5.5	11	11	11	15	1 / 20	**23302**
LT 4 D3210	32	7.5	15	15	15	18.5	1 / 20	**23303**
LT 4 D4011	40	11	18.5	18.5	18.5	30	1 / 8	**23304**
LT 4 D6511	65	18.5	30	30	30	37	1 / 8	**23305**
LT 4 D9511	95	25	45	45	45	45	1 / 6	**23306**



Dimensions (mm)					
W	W2	L1	h1	h2	H
33	45	48	22	14	59

TIME DELAY CONTACT BLOCK LT02-DXX

5+2 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

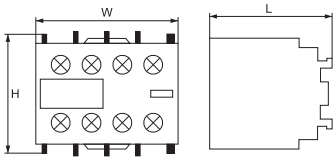
LT02-Dxx is designed to set time intervals from 0.1 to 180s in different control schemes. It is used most frequently in combination with contactors from LT1-Dxx series to form "star/delta" starters for electrical motor control, as it provides the necessary time for motor winding.

Type	Number of contacts	Time delay	Catalogue number
LT02-DT0	NO+NC	0.1~3s	**23901**
LT02-DT2	NO+NC	0.1~30s	**23902**
LT02-DT4	NO+NC	10~180s	**23903**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-4-1





Dimensions (mm)

H	W	L	W1	W2
32	40	35	26	45
H2	L1	L2		
48	6,5	37		

AUXILIARY CONTACTS

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

AUXILIARY CONTACTS
At necessity the element provide auxiliary number of contacts. They are specially designed for mounting on the movable part of the magnetic core of the contactors LT 1K/D series.

FUNCTIONS:
- extending the number of the operative contactors up to 4 in different
- Combinations
  - switches on simultaneously with the other contact system of the contactor
- Operation class: AC 3
- insulation voltage: 690V
- Joining terminal: screw terminal
- Connecting:
  - flexible conductors with or without cable terminal
  - rigid conductors

MOUNTING:
- on the movable cover of the contactor through pinching
- mounting position: vertical gradient – maximum± 5°
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)

Type	For Contactor Series	Number of contacts	Rated current	Section of the conductor (mm2)	Catalogue number
LT01-DN02	LT1-D & LT1-F	2NC	6A	0,5-1	**23002**
LT01-DN11	LT1-D & LT1-F	NO+NC	6A	0,5-1	**23011**
LT01-DN20	LT1-D & LT1-F	2NO	6A	0,5-1	**23020**
LT01-DN22	LT1-D & LT1-F	2NO+2NC	6A	0,5-1	**23022**
LT01-DN40	LT1-D & LT1-F	4NO	6A	0,5-1	**23040**
LT01-DN04	LT1-D & LT1-F	4NC	6A	0,5-1	**23004**
LT01-KN11	LT1-HK	NO+NC	6A	0,5-1	**23001**
LT01-KN22	LT1-HK	2NO+2NC	6A	0,5-1	**23003**



Dimensions (mm)

W1	W2	H	L	A
73	48	22	12,5	72

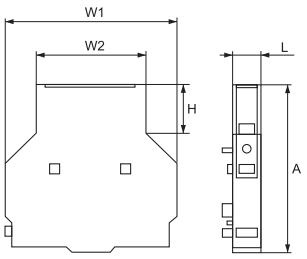
AUXILIARY CONTACTS LT03-DN11

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

Providing on necessity additional number of plug points and are mounted sideward to the movable part of the magnetic cores of contactors of the series LT1 D. and LT1-F Variants with two additional plug points NO and NC are offered.

FUNCTIONS:
- expanding the number of the operational plug points
- switching on simultaneously with the rest of the contact system
- of the contactor

TECHNICAL CHARACTERISTICS:
- Environment operational regime: AC 3
- Insulation voltage: 690V
- Double connector: screw connector
- Connection:
  - flexible conductors with or without cable end
  - solid conductors
- Mounting method:
  - mounting position – sideward to the contactor
- Plastic: resistant to UV and non-burning (self-extinguishing material)

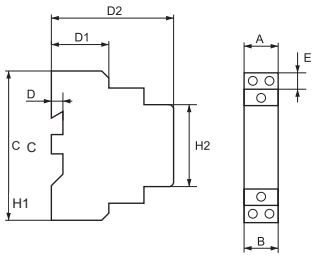


Type	Rated current	Section of the conductor (mm2)	Catalogue number
LT03-DN11	6A	0,5-1	**23311**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 61095

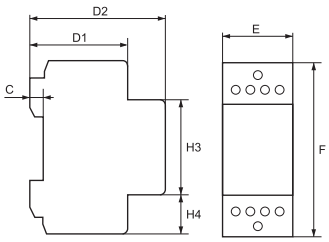




Dimensions (mm)

H1	C	D1	D2	A	E
81	5	31	66	18	9





Dimensions (mm)

C	D1	D2	H3	H4
5	66	48	45	20

E	F
35	85

MODULE CONTACTORS K SERIES

5+2 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

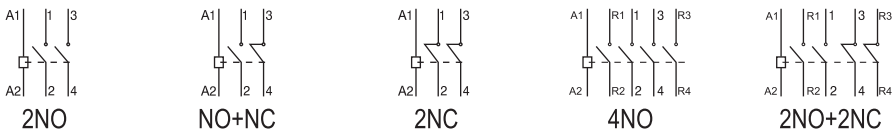
Modular contactors K series are used for commutation of mono-phase and three-phase low power electrical consumers. They provide connection between the consumers in small overall dimensions, silent work, mounting only at DIN-rails.

FUNCTIONS:
- switching on of consumers
- making of control systems
- remarkable with high reliability of current characteristics
- reliable switching on or separation of power contacts

TECHNICAL DATA:
- Operation class: AC 7a
- Rated operating voltage of the controlling coil: 230V AC; 50/60 Hz
- Rated operating voltage of the power circuit: up to 690V AC
- insulation voltage: 690V
- Surge voltage wear resistance: >8000V
- Joining terminal: screw terminal
- Connecting:
  - flexible conductors with or without cable terminal
  - rigid conductors

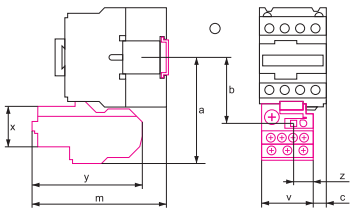
MOUNTING:
- on DIN-rail or
- mounting position: vertical gradient – maximum± 5°
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m

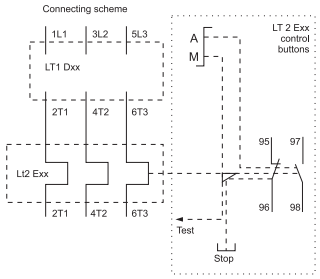
Type	In	Coil voltage (V)	Contacts	Packing/Box (pcs)	Catalogue number
K20	20A	230V	2NO	1/12/120	**23008**
K20	20A	230V	NO+NC	1/12/120	**23007**
K20	20A	230V	2NC	1/12/120	**23009**
K20	25A	230V	NO+NC	1/12/100	**23012**
K20	25A	230V	2NO	1/12/100	**23013**
K20	25A	230V	2NC	1/10/100	**23014**
K20	40A	230V	NO+NC	1/6/60	**23015**
K20	40A	230V	2NO	1/6/60	**23016**
K20	40A	230V	2NC	1/6/60	**23017**
K20	100A	230V	2NO	1/4/40	**23080**
K20	100A	230V	1NO+1NC	1/4/40	**23083**
K20	100A	230V	2NC	1/4/40	**23084**
K40	25A	230V	2NO+2NC	1/6/60	**23410**
K40	25A	230V	3NO+1NC	1/6/60	**23411**
K40	25A	230V	4NO	1/6/60	**23412**
K40	25A	230V	4NC	1/6/60	**23413**
K40	40A	230V	2NO+2NC	1/4/40	**23422**
K40	40A	230V	3NO+1NC	1/4/40	**23423**
K40	40A	230V	4NO	1/4/40	**23409**
K40	40A	230V	4NC	1/4/40	**23424**
K40	63A	230V	2NO+2NC	1/4/40	**23425**
K40	63A	230V	3NO+1NC	1/4/40	**23426**
K40	63A	230V	4NO	1/4/40	**23427**
K40	63A	230V	4NC	1/4/40	**23428**
K40	80A	230V	4NO	1/2/20	**23480**
K40	80A	230V	2NO+2NC	1/2/20	**23483**
K40	80A	230V	4NC	1/2/20	**23484**
K40	80A	230V	3NO+1NC	1/2/20	**23485**

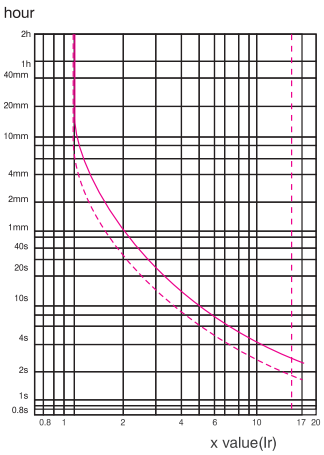


In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-4-1







THERMAL OVERLOAD RELAYS

5+2 standard +extended | 7 YEAR TOTAL WARRANTY | *for industrial usage, 3 years warranty

The thermal relays LT 2- K/Exx series are three pole relays designed for protection of induction motors from overload or overheat. They are mounted to contactors LT 1 K/Dxx series and an operating circuit for motor control is passed through their NC contacts. They have bimetallic releases /1 per phase/ through them the motors current flows and indirectly mated. The bimetallic releases bend subject to the influence of mating and this results in tripping of the relay. The contacts change switch position. The choice of a suitable protection prevents motor's operation at unusual temperature conditions and guarantees maximum constant operation, increases the effectiveness and prolongs the term of exploitation.

FUNCTIONS:
- switching off alternating current consumers at current overload
- making of control systems for consumers
- used as a protective operating element in control panels of induction motors
- remarkable with high reliability of current characteristics

TECHNICAL DATA:
- Rated operating voltage: up to 690V AC; 50/60 Hz
- Rated operating current range: up to 690V AC
- insulation voltage: >690V
- Surge voltage wear resistance:≥6000V
- Joining terminal: screw terminal
- temperature compensation: -25 +55
- tripping category: class 10A
- Connecting:
  - flexible or rigid conductors with or without cable terminal for joining to the consumer
  - to the contactor through the relay terminals
  - the connecting terminals with the consumer can be adjusted according to the type of the contactor
- Electrical wear resistance (number of cycles):≥1000000
- Mechanical wear resistance (number of cycles):≥10000000
- Indication for protection activating
- Possibility for choice of the protection restoring (through the blue button)
- Possibility for range adjustment of the protection activating
- Possibility for operation at higher frequency

MOUNTING:
- mounting to the contactor: to the terminals of the contactor as it is additionally clamped to its frame through a pin
- mounting position: vertical gradient – maximum ± 5°
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Ambient temperature: -10°C + 65°C
- Installation altitude: up to 2000m

NOTE: To protect the consumer from short circuit, before the combination contactor- thermal relay, a suitably measured breaker or safety device should be mounted.

Type	Dimensions (mm)							
	a	b	c	m	x	y	v	z
LT 2 - Kxx	81	50	0	98	47	92	44	17
LT 2 - E13xx	86	55	10.7	108	47	92	44	17
LT 2 - E23xx	86	55	9	109	47	92	44	17
LT 2 - E33xx	115	76	9.5	124	54	109	70	30

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



For contactor LT1-K06 type	Motor capacity (kW) 220V 230V	380V 400V	660V 690V	Rated current (A)	Protection adjustment range	Packing/Box (pcs)	Catalogue number
LT2-K0303	-	-	-	0.30	0.25 - 0.30	1 / 100	**13403**
LT2-K0306	-	0.37	1.10	1.20	0.80 - 1.20	1 / 100	**13406**
LT2-K0307	0.37	0.75	1.50	1.80	1.20 - 1.80	1 / 100	**13407**
LT2-K0308	0.75	1.10	2.20	2.60	1.80 - 2.60	1 / 100	**13408**
LT2-K0310	1.10	1.50	3.00	3.70	2.60 - 3.70	1 / 100	**13410**
LT2-K0312	1.10	2.20	4.00	5.50	3.70 - 5.50	1 / 100	**13411**
LT2-K0314	2.20	4.00	5.50	8.00	5.50 - 8.00	1 / 100	**13412**
LT2-K0316	3.00	5.00	7.50	11.5	8.00 - 11.5	1 / 100	**13413**



UNTIL SUPPLY **LAST**

For contactor LT1-K06 type	Rated current (A)	Protection adjustment range	Packing/Box (pcs)	Catalogue number
LT2-K0301	0.16	0.10 - 0.16	1 / 100	**13401**
LT2-K0302	0.25	0.16 - 0.25	1 / 100	**13402**
LT2-K0304	0.54	0.30 - 0.54	1 / 100	**13404**
LT2-K0305	0.80	0.54 - 0.80	1 / 100	**13405**



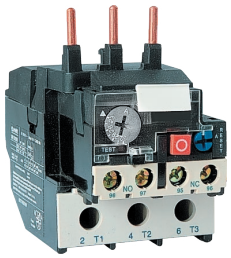
For contactor LT1-D9 to LT1-D25 type	Motor capacity (kW) 220V 230V	380V 400V	660V 690V	Rated current (A)	Protection adjustment range	Packing/Box (pcs)	Catalogue number
LT2-E1301	-	-	-	0.16	0.10 - 0.16	1 / 100	**13001**
LT2-E1302	-	-	-	0.25	0.16 - 0.25	1 / 100	**13002**
LT2-E1303	-	-	-	0.40	0.25 - 0.40	1 / 100	**13003**
LT2-E1304	-	-	0.37	0.63	0.40 - 0.63	1 / 100	**13004**
LT2-E1305	-	-	0.55	1.00	0.63 - 1.00	1 / 100	**13005**
LT2-E1306	-	0.37	1.10	1.60	1.0 - 1.60	1 / 100	**13006**
LT2-E1307	0.37	0.75	1.50	2.50	1.6 - 2.50	1 / 100	**13007**
LT2-E1308	0.75	1.50	3.00	4.00	2.5 - 4.00	1 / 100	**13008**
LT2-E1310	1.10	2.20	4.00	6.00	4.0 - 6.00	1 / 100	**13010**
LT2-E1312	2.00	3.70	5.50	8.00	5.5 - 8.00	1 / 100	**13012**
LT2-E1314	2.20	4.00	7.50	10.0	7.0 - 10.0	1 / 100	**13014**
LT2-E1316	3.70	5.50	11.0	13.0	9.0 - 13.0	1 / 100	**13016**
LT2-E1321	4.00	7.50	15.0	18.0	12.0 - 18.0	1 / 100	**13021**
LT2-E1322	5.50	9.00	18.5	25.0	17.0 - 25.0	1 / 100	**13022**
LT2-E1353	9.00	11.0	18.5	33.0	23.0 - 32.0	1 / 100	**13053**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



For contactor LT1-D32 type	Motor capacity (kW) 220V 230V	380V 400V	660V 690V	Rated current (A)	Protection adjustment range	Packing/Box (pcs)	Catalogue number
LT2-E2353	11	11	18.5	32	23.0 - 32.0	1 / 100	**13253**
LT2-E2355	15	15	22.0	36	28.0 - 36.0	1 / 100	**13255**



For contactor LT1-D40 to LT1-D95 type	Motor capacity (kW) 220V 230V	380V 400V	660V 690V	Rated current (A)	Protection adjustment range	Packing/Box (pcs)	Catalogue number
LT2-E3355	18.5	18.5	30	40	30.0 - 40.0	1 / 50	**13355**
LT2-E3357	22	22	30	50	37.0 - 50.0	1 / 50	**13357**
LT2-E3359	30	30	37	65	48.0 - 65.0	1 / 50	**13359**
LT2-E3363	45	45	55	80	63.0 - 80.0	1 / 50	**13363**
LT2-E3365	55	55	75	93	80.0 - 93.0	1 / 50	**13365**

For contactor LT1-F115 to LT1-F150	Motor capacity (kW) 220V 230V	380V 400V	660V 690V	Rated current (A)	Protection adjustment range	Packing/Box (pcs)	Catalogue number
LT2-F4367	40	75	100	150	90-150	1/30	**13367**



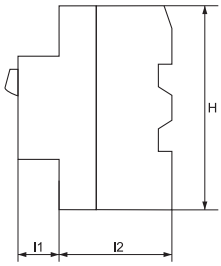
For contactor LT1-F225 to LT1-F400	Motor capacity (kW) 220V 230V	380V 400V	660V 690V	Rated current (A)	Protection adjustment range	Packing/Box (pcs)	Catalogue number
LT2-F4368	63	110	129	220	132-220	1/30	**13368**
LT2-F4369	100	160	220	330	200-330	1/18	**13369**
LT2-F4370	147	250	335	500	300-500	1/18	**13370**

For contactor LT1-F630	Motor capacity (kW) 220V 230V	380V 400V	660V 690V	Rated current (A)	Protection adjustment range	Packing/Box (pcs)	Catalogue number
LT2-F4371	200	335	450	630	380-630	1/18	**13371**

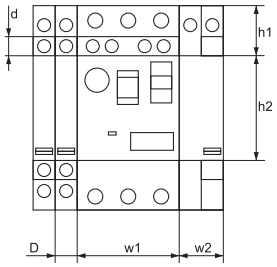
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Dimensions



Auxiliary contact **UVR**



Dimensions (mm)

H	l1	l2	d	D
89	16	50	10	9,2
w1	w2	h1	h2	
44,5	18	22	45	

THERMOMAGNETIC AUTOMATIC BREAKER TM2/TM3

5+2 standard +extended **7 YEAR TOTAL WARRANTY** *for industrial usage, 3 years warranty

The thermomagnetic automatic breakers TM 2-Exx series are devices designed for control and protection of induction motors from overload, overheat or short circuit. The overload motor protection is carried out by the built in the breaker thermal elements, and the short circuit protection is carried out by the magnetic elements. These magnetic elements allow the adjustment of the current leakage which is 13 times the maximum current of the thermal protection. The overload protection elements include automatic compensation for the ambient temperature changes. In combination with under voltage release the thermomagnetic breaker TM 2-Exx also provides protection of the motors from fall out of a phase from the power supply. The choice of a suitable protection prevents motor's operation at unusual temperature conditions and guarantees maximum constant operation, increases the effectiveness and prolongs the term of exploitation.

FUNCTIONS:

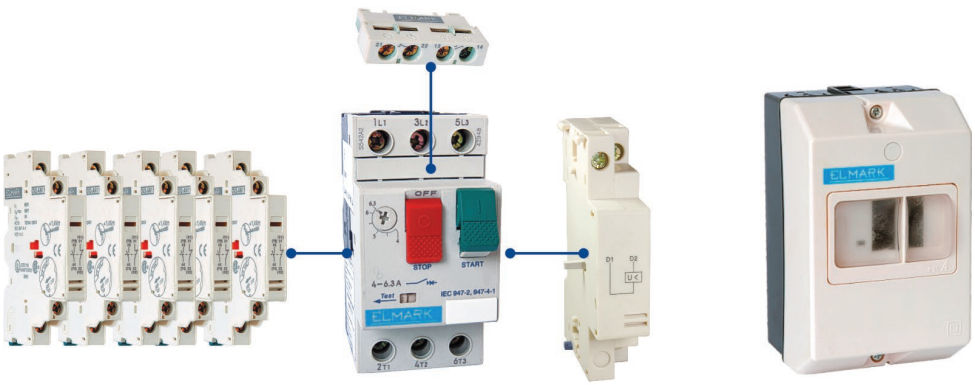
- switching off alternating current consumers at current overload
- switching off the electrical circuit to the consumer at inlet short circuit
- protects the motor at lack/lowering of the phase voltage (if there is under voltage release)
- used as a protective operating element in control panels of induction motors
- remarkable with high reliability of current characteristics
- possibility for change/choice of the protection current (according to the operating current of the motor)
- automatic compensation of the ambient temperature

TECHNICAL DATA:

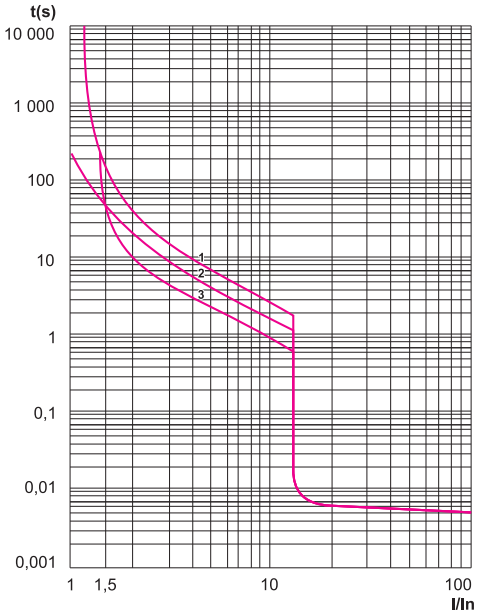
- Rated operating voltage: up to 690V AC; 50/60 Hz
- Rated operating current range: from 0.1 to 80A according to the type in table 1
- insulation voltage: 690V
- Surge voltage wear resistance:≥6000V
- Joining terminal: screw terminal
- Connecting:
  - flexible or rigid conductors with or without cable terminal for joining to the consumer
  - to the contactor through the relay terminals
  - the connecting terminals with the consumer can be adjusted according to the type of the contactor
- Electrical wear resistance (number of cycles):≥1000000
- Mechanical wear resistance (number of cycles):≥10000000
- Indication for protection activating
- Switching on of the breaker manually with button "I" and switching off with button "O" manually or automatically at failure or after activating of the protection
- Possibility for range adjustment of the protection activating
- Possibility for operation at higher frequency
- Possibility for independent operation or as an element of an automation system
- tripping category: class 10A

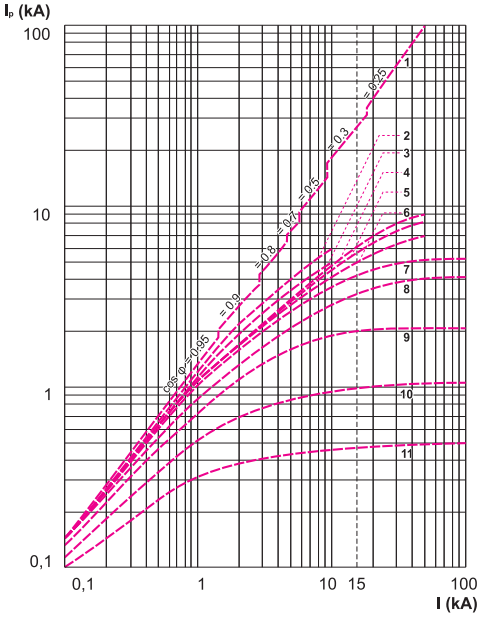
MOUNTING:

- mounting to DIN-rail
- mounting position: vertical gradient – maximum± 5°
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.





Type	Rated capacity of three-phase motor in AC-3 category					instantaneous short-circuit release (A)	Current setting range (A)	Thermal current Ithe TM2-E (A)	Packing/Box (pcs)	Catalogue number
	220V 230V	400V 410V	440V	500V	690V					
TM2-E01	-	-	-	-	-	1.5	0.1 - 0.16	0.16	1 / 50	**48001**
TM2-E02	-	0.06	0.06	-	-	2.4	0.16 - 0.25	0.25	1 / 50	**48002**
TM2-E03	0.06	0.09	0.09	-	-	5.0	0.25 - 0.40	0.40	1 / 50	**48003**
TM2-E04	-	0.12	0.18	-	0.37	8.0	0.40 - 0.63	0.63	1 / 50	**48004**
TM2-E05	0.09	0.25	0.25	0.37	0.55	13.0	0.63 - 1.00	1	1 / 50	**48005**
TM2-E06	0.18	0.37	0.37	0.37	0.75	22.5	1 - 1.60	1.6	1 / 50	**48006**
TM2-E07	0.37	0.75	0.75	1.10	1.50	33.5	1.6 - 2.50	2.5	1 / 50	**48007**
TM2-E08	0.55	1.10	1.50	1.50	2.20	51.0	2.5 - 4.00	4	1 / 50	**48008**
TM2-E10	1.10	2.20	2.20	3.00	4.00	78.0	4 - 6.30	6.3	1 / 50	**48010**
TM2-E14	1.50	3.00	4.00	4.00	5.50	138	6 - 10.0	9	1 / 50	**48014**
TM2-E16	2.20	5.50	5.50	7.50	9.00	170	9 - 14.0	13	1 / 50	**48016**
TM2-E20	4.00	7.50	7.50	9.00	15.0	223	13 - 18.0	17	1 / 50	**48020**
TM2-E21	5.50	9.00	11.0	11.0	18.5	327	17 - 23.0	21	1 / 50	**48021**
TM2-E22	5.50	11.0	11.0	15.0	22.0	327	20 - 25.0	23	1 / 50	**48022**
TM2-E32	7.50	15.0	15.0	18.5	22.0	416	24 - 32.0	24	1 / 50	**48032**
TM3-E40	11.0	18.5	22.0	25.0	33.0	480	25 - 40.0	32	1 / 15	**48040**
TM3-E63	15.0	30.0	33.0	40.0	55.0	550	40 - 63.0	50	1 / 15	**48063**
TM3-E80	22.0	40.0	45.0	55.0	63.0	665.5	56 - 80.0	64	1 / 15	**48080**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-1
EN 60 947-2; EN 60947-4-1

VOLTAGE RELEASE (VR) FOR TM2

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

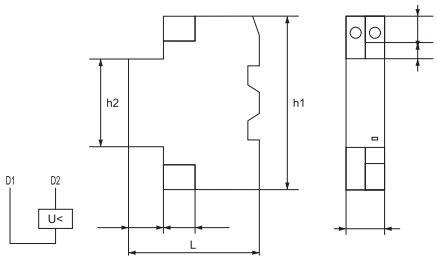


Type	Voltage (V)	Catalogue number
TM2 AU225	230	**48099**
TM3 AU385	400	**48098**

For increasing the effectiveness of the thermomagnetic breakers TM 2-Exx operation, they can be supplied with auxiliary devices, designed for widening the practice range and improving the technical characteristics of the breakers.
The release is designed to switch off the thermomagnetic breaker when the controlling voltage falls under breaking level 0.55 to 0.7 UN and does not allow switching on of the breaker unless the voltage is over 0.85 Un.

FUNCTIONS:
- switching off the breaker at power supply voltage fall under 0.55 – 0.7 Un
- does not allow switching on of the breaker when the power supply voltage is under 0.85 Un
- prevents unwarranted secondary start of the breaker at falling off and restoring of the power supply voltage
- protects the motor at lack/lowering of the phase voltage
- used as a protective operating element in control panels of induction motors
- remarkable with high reliability of current characteristics

MOUNTING:
- laterally to a breaker
- At the side of the breaker through special openings



Documents corresponding to the product:
Standard EN 60529

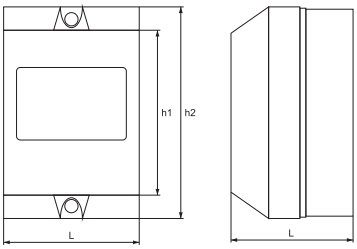
WATERTIGHT BOX FOR TM2-E

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty



Type	Catalogue number
TM2 E	**8083**

Specially designed plastic box with silicon screen for increasing the IP code from dust and moisture to IP 65. Designed for thermal-magnetic circuit breakers of up to 32A
- Mounting:
  - mounting position: vertical gradient, maximum± 5°
  - mounted to horizontal surfaces (walls) with bolts
  - the breaker TM2 Exx is fixed inside of it on rail
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



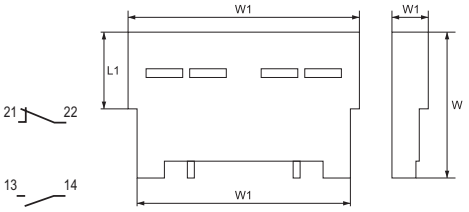
Type	Catalogue number
TM2 AE11	**48912**

AUXILIARY CONTACT BLOCK TM2 AE11- FRONT MOUNTING

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

It is designed to switch on operational systems or signalization. Designed with one NO and one NC contact. It changes the position of its contacts according to the position of the breaker (switched on/ off) to which it is mounted.

- Mounting:
  - laterally to a breaker TM2-Exx
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m





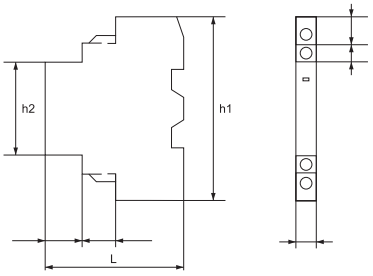
Type	Catalogue number
TM2 AN11	**48911**
TM3 AN11	**48913**

AUXILIARY CONTACT BLOCK TM2 AE11- SIDE MOUNTING

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

It is designed to switch on operational systems or signalization. Designed with one NO and one NC contact. It changes the position of its contacts according to the position of the breaker (switched on/ off) to which it is mounted.

- Mounting:
  - laterally to a breaker TM2-Exx
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-4-1



with thermal overload relays

STARTERS FOR DIRECT START

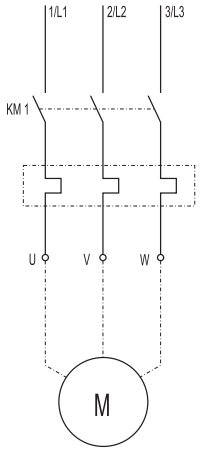
5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

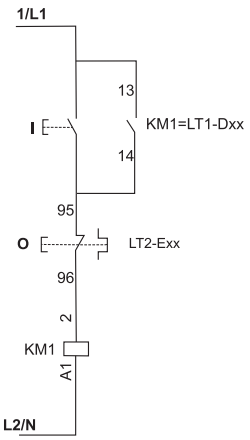
The electromagnetic starters LT 5 Dxx series are devices designed for remote control, direct control and protection of induction motors or other electrical consumers. They are a combination of contactors LT 1 Dxx series and thermal protection LT 2 Exx factory cabled. The starters are offered on the market in metal or plastic boxes with the corresponding IP code from dust and moisture. At mounting there should be provided protection of the device from short circuit through breakers or disconnectors. If necessary, at client's order the factory mounted thermal protection in the pneumatic starter can be substituted. The choice of a suitable protection prevents motor's operation at unusual temperature conditions and guarantees maximum constant operation, increases the effectiveness and prolongs the term of exploitation.

FUNCTIONS:
- switching on/off alternating current consumers
- does not allow secondary unwarranted switching on of the starter at transitory lowering of the voltage
- protects the motor from overload in the range of the corresponding thermal protection
- remarkable with high reliability of current characteristics

TECHNICAL DATA:
- Rated voltage of the controlling voltage: 230/400V AC; 50/60 Hz

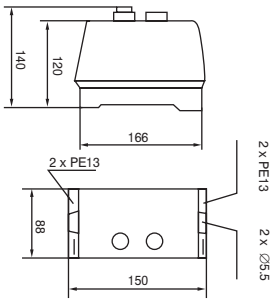
NOTE: In case you need different controlling coils voltage of the starters you can turn to our regional representatives.
- Rated operating voltage: 690V
- Rated operating current range: from 7 to 93 A AC
- insulation voltage: 690V
- Surge voltage wear resistance:≥6000V
- Joining terminal: screw terminal
- Little power consumption and small dimensions
- Connecting:
  - flexible or rigid conductors with or without cable terminal for joining to the consumer and section according to the motor power
  - two by two inlets/outlets supplied with orifices for the cables
- Possibility for range adjustment of the protection activating
- IP code: IP 44
- Possibility for operation at higher frequency
- Mounting:
  - mounting to a flat surface (wall) with bolts/screws
  - mounting position: vertical gradient, maximum± 5°
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- Metal corpus: corrosion-proof coating
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m





In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

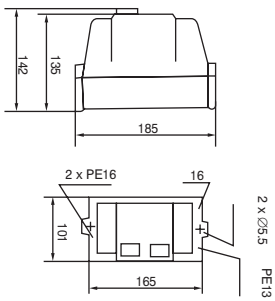




Type	Rated capacity of motors 50/60Hz AC-3 category			Rated current (A)	Thermal relay adjustment range	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V 230V	380V 400V	415V 440V					
LT5 D093	2.2	4.0	4.0	9	7 .. 10A	230	1 / 16	**43091**
						400	1 / 16	**43092**
LT5 D123	3.0	5.5	5.5	12	9 .. 13A	230	1 / 16	**43121**
						400	1 / 16	**43122**
LT5 D185	4.0	7.5	9.0	18	12 .. 18A	230	1 / 16	**43181**
						400	1 / 16	**43182**

Note: Upon request the thermal relay will be replaced

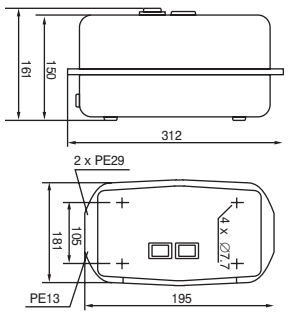




Type	Rated capacity of motors 50/60Hz AC-3 category			Rated current (A)	Thermal relay adjustment range	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V 230V	380V 400V	415V 440V					
LT5 D255	5.5	11	11	25	17 .. 25A	230	1 / 16	**43251**
						400	1 / 16	**43252**
LT5 D325	7.5	15	15	32	23 .. 32A	230	1 / 16	**43321**
						400	1 / 16	**43322**

Note: Upon request the thermal relay will be replaced





Type	Rated capacity of motors 50/60Hz AC-3 category			Rated current (A)	Thermal relay adjustment range	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V 230V	380V 400V	415V 440V					
LT5 D405	11.0	18.5	22	40	30 .. 40A	230	1/6	**43401**
						400	1/6	**43402**
LT5 D655	18.5	30.0	37	65	48 .. 65A	230	1/6	**43651**
						400	1/6	**43652**
LT5 D955	25.0	45.0	45	95	80 .. 93A	230	1/6	**43951**
						400	1/6	**43952**

Note: Upon request the thermal relay will be replaced

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-4-1



"STAR/DELTA"STARTER

5+2 standard +extended 7 YEAR TOTAL WARRANTY *for industrial usage, 3 years warranty

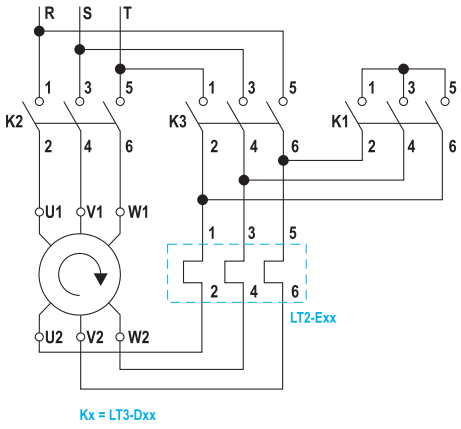
The electromagnetic starters LT 3 Dxx series are devices designed for remote control, direct control and protection of induction motors coiled and operating according to a starter scheme "star/delta". They are a combination of three contactors LT 1 Dxx series, time relay and a set of buttons "start" and "stop" factory cabled. They provide the easy motor unwinding giving possibility for setting the time for unwinding in "star" as the time for switching between "star" and "delta" is fixed to 0.5 seconds.
The starters are offered on the market in two types:
- closed type – metal boxes providing the corresponding IP code from dust and moisture (IP 54) as at mounting there should be provided protection of the device from short circuit through breakers or disconnectors
- open type – for mounting in distribution boxes as at mounting there should be provided protection of the device from short circuit through breakers or disconnectors

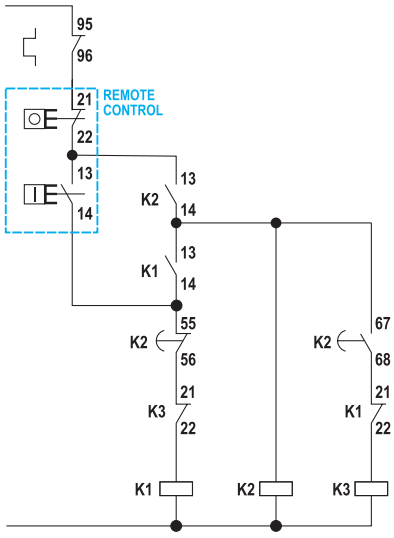
The starters are offered on the market without mounted thermal protection which is purchased separately according to the motor capacity. The choice of a suitable protection prevents motor's operation at unusual temperature conditions and guarantees maximum constant operation, increases the effectiveness and prolongs the term of exploitation. If necessary, at client's order the power supply operating voltage of the pneumatic starter can be changed.

FUNCTIONS:
- switching on/off alternating current three phase motors operating according to a scheme "star - delta"
- does not allow secondary unwarranted switching on of the starter at transitory lowering of the voltage
- protects the motor from overload in the range of the corresponding thermal protection
- indication of the operating condition through a valve indicator
- possibility for mounting of additional contacts (for the open type)
- remarkable with high reliability of current characteristics

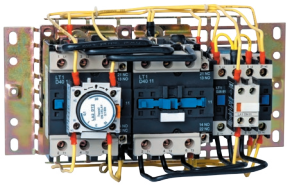
TECHNICAL DATA:
- Rated voltage of the controlling voltage: 400V AC; 50/60 Hz

NOTE: In case you need different controlling coils voltage of the starters you can turn to our regional representatives.
- Rated operating voltage: 690V
- Rated operating current range: from 7 to 93A AC
- insulation voltage: >690V
- Surge voltage wear resistance:≥6000V
- Joining terminal: screw terminal
- Little power consumption and small dimensions
- Connecting:
  - flexible or rigid conductors with or without cable terminal for joining to the consumer and section according to the motor power
  - three by three inlets/outlets supplied with orifices for the cables
- Possibility for operation at higher frequency
- IP code: IP54
- Mounting:
  - mounting to a flat surface (wall) with bolts/screws
  - mounting position: vertical gradient, maximum± 5°
- The metal body is covered with corrosion-proof paint
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m





In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type designation (without a box)	Overall dimensions (mm)		
	height	width	depth
LT3-D25A	135	170	160
LT3-D32A	135	170	160
LT3-D40A	150	285	190
LT3-D65A	150	285	190
LT3-D95A	150	310	190

Type designation (without a box)	Rated capacity (kW)				Rated current (A)	Coil voltage (V AC)	Packing/Box (pcs)	Catalogue number
	220V 230V	380V 400V	415V	440V				
LT3-D25A	11	15	15	15	25	400	1 / 6	**43253**
LT3-D32A	15	18.5	18.5	18.5	32	400	1 / 6	**43323**
LT3-D40A	18.5	22	22	22	40	400	1 / 4	**43403**
LT3-D65A	30	55	55	55	65	400	1 / 4	**43653**
LT3-D95A	37	75	75	75	95	400	1 / 4	**43953**

Note: It is necessary that thermal protection with suitable range is mounted to protect the controlled motor. The shown values of magnetic starters are for normal regimes for motor control, for hard operation regimes are chosen starters which correspond to the current rating of the motor.



Type designation (with box)	Overall dimensions (mm)		
	height	width	depth
LT 3 -B-D25A	370	240	160
LT 3 -B-D32A	370	240	160
LT 3 -B-D40A	470	265	160
LT 3 -B-D65A	470	265	160
LT 3 -B-D95A	470	265	160

Type designation (with box)	Rated capacity (kW)				Rated current (A)	Coil voltage (V AC)	Packing/Box (pcs)	Catalogue number
	220V 230V	380V 400V	415V	440V				
LT 3 - B - D25A	11	15	15	15	25	400	1 / 4	**43254**
LT 3 - B - D32A	15	18.5	18.5	18.5	32	400	1 / 4	**43255**
LT 3 - B - D40A	18.5	22	22	22	40	400	1 / 2	**43256**
LT 3 - B - D65A	30	55	55	55	65	400	1 / 4	**43257**
LT 3 - B - D95A	37	75	75	75	95	400	1 / 2	**43258**

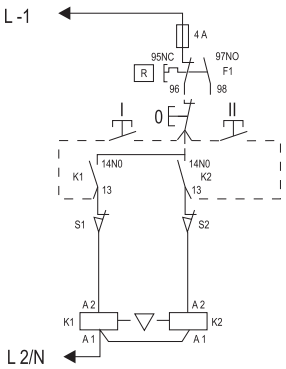
Note: It is necessary that thermal protection with suitable range is mounted to protect the controlled motor. The shown values of magnetic starters are for normal regimes for motor control, for hard operation regimes are chosen starters which correspond to the current rating of the motor.

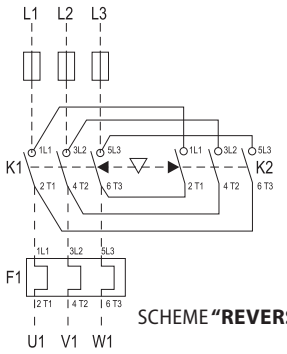
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-4-1



with thermal overload relays





SCHEME **"REVERSE"**

REVERSE STARTER

5+2 standard +extended **7 YEAR TOTAL WARRANTY** *for industrial usage, 3 years warranty

The electromagnetic starters LT4 Dxx series are devices used for direct start, reverse start and protection of induction motors with short connected rotor. They are a combination of two contactors LT1 Dxx series supplied with two buttons "start" and one "stop" factory cabled. They provide the unwinding of the motor in one of the directions with possibility for pushing the button "stop" and giving command from the other "start" for changing the motor winding direction.
The two contactors are mechanically blocked and do not allow simultaneous start in both winding directions. The starters are offered – closed type in metal boxes providing the corresponding IP code from dust and moisture (IP54) as at mounting there should be provided protection of the device from short circuit through breakers or disconnectors. The starters are offered with mounted thermal protection which can be substituted according to the motor power. The choice of a suitable protection prevents motor's operation at unusual temperature conditions and guarantees maximum constant operation, increases the effectiveness and prolongs the term of exploitation.
If necessary, at order the power supply operating voltage of the pneumatic starter can be changed.

FUNCTIONS:
- switching on alternating current three phase motors in one winding direction, switching off and change of the winding direction at giving a signal
- does not allow secondary unwarranted switching on of the starter at transitory lowering of the voltage
- protects the motor from overload in the range of the corresponding thermal protection
- remarkable with high reliability of current characteristics

TECHNICAL DATA:
- Rated voltage of the controlling voltage: 400V AC; 50/60 Hz

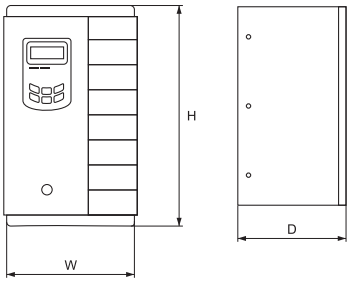
NOTE: In case you need different controlling coils voltage of the starters you can turn to our regional representatives.
- Rated operating voltage: 690V
- Rated operating current range: from 7 to 93 A AC
- insulation voltage: 690V
- Surge voltage wear resistance:≥6000V
- Joining terminal: screw terminal
- Little power consumption and small dimensions
- Connecting:
  - flexible or rigid conductors with or without cable terminal for joining to the consumer and section according to the motor power
  - three by three inlets/outlets supplied with orifices for the cables
- Possibility for operation at higher frequency
- IP code: IP 44
- Mounting:
  - mounting to a flat surface (wall) with bolts/screws
  - mounting position: vertical gradient, maximum± 5°
- The metal body is covered with corrosion-proof paint
- Ambient temperature: -10°C + 65°C
- Altitude: up to 2000m

Type designation (with a box)	Rated capacity (kW)				Overall dimensions (mm)			Rated current (A)	Coil voltage (V AC)	Packing/ Box (pcs)	Catalogue number
	220V 230V	380V 400V	415V	440V	height	width	depth				
LT 4 - B - D25A	11.0	15.0	15.0	15.0	240	240	160	25	400	1 / 8	**43001**
LT 4 - B - D32A	15.0	18.5	18.5	18.5	240	240	160	32	400	1 / 4	**43002**
LT 4 - B - D40A	18.5	22.0	22.0	22.0	270	265	160	40	400	1 / 2	**43003**
LT 4 - B - D65A	30.0	55.0	55.0	55.0	270	265	160	65	400	1 / 4	**43004**
LT 4 - B - D95A	37.0	75.0	75.0	75.0	270	265	160	95	400	1 / 4	**43005**
LT 4 - B - D25A	11.0	15.0	15.0	15.0	240	240	160	25	230	1 / 4	**43006**
LT 4 - B - D32A	15.0	18.5	18.5	18.5	240	240	160	32	230	1 / 4	**43007**
LT 4 - B - D40A	18.5	22.0	22.0	22.0	270	265	160	40	230	1 / 4	**43008**
LT 4 - B - D65A	30.0	55.0	55.0	55.0	270	265	160	65	230	1 / 4	**43009**
LT 4 - B - D95A	37.0	75.0	75.0	75.0	270	265	160	95	230	1 / 4	**43010**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN61800-3
EN61800-5-1





ELM 2000+ FREQUENCY INVERTERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

High-tech motor control concept, based on advanced DSP-technology - ready for V/Hz, SENSORLESS VECTOR, CLV and PMM motor control - intelligent AUTOTUNING functions for easy setup

Flexible inverter control, dual high resolution analogue inputs, free mappable digital I/O channels

Ready for all commonly used fieldbus systems

Universal function-set for all kind of industrial and residential applications, including integrated PID/pump controller routines

Smart PC-tools, for inverter control, parametrization and troubleshooting. Parameter-duplication stick

Brake chopper integrated

TECHNICAL FEATURES:

- Power range:
  - 0,4……400 kW
- Power input:
  - Rated input voltage- 1-Phase 220V~240V~±15%; 3-Phase 380V-460V (+/-)15%
  - Input frequency- 44….67 Hz
- Motor output:
  - Output frequency- 0-650 Hz
  - Frequency resolution- 0,01 Hz
  - Overload capability- 150% - 60 sec. / 10 min
- Control mode:
  - Motor control algorithm- V/Hz-SpaceVector, SLV-SENSORLESS VECTOR,Torque/Speed control
  - mode CLV-Closed loop vector,Permanent Magnet Synchronous Motor
  - Chopper frequency- 0.8…16 kHz (fixed / random)
  - V/Hz curve- Linear, exponential, and user-programmable curve
  - Starting torque- 150% rated torque at 0,5 Hz (in SLV Mode)
  - Torque compensation- Automatic / Manual
  - Motor data input- Manual, from nameplate / AUTOTUNING
  - Control range- 1:100 in SLV mode,1:1000 in CLV mode,1:20 in PMSM mode
  - Speed precision +/- 0,5% (SLV),+/- 0.02% (CLV)
  - Torque precision +/- 5% (SLV)
  - DC-Brake- User programmable functions
  - Brake chopper- Chopper transistor integrated (up to 90 kW)
- Display:
  - 7 segment, 4 characters
  - Config-Parameters and -value, programmable to display various working parameters
- I/O Channels and control functions:
  - Inverter control- Via terminals / Keypad / Serial link (or combination of all)
  - Digital inputs- 6 (8) Dig. inputs (NPN-PNP selectable) pulstrain-input
  - Speed reference input- Potentiometer (on keypad unit, external), analogue signal (terminals),
  - keypad, internal programmable value, pulsetrain, serial link
  - Analogue channels- analogue channels - 12 BIT: 0…10V, 0...5V, -10V...0...10V, 0..(4)20 mA,
  - all free scalable in gain and offset, and mathematically concatenable
  - Analogue outputs- 2 analogue outputs, programmable in gain and function (0…10V, 0(4)..20 mA)
  - Digital outputs- 2 digital outputs (free mapping to different functions)
  - Relais output- 1 switchover contact 3A 250VAC/30VDC (programmable assignment)
  - Data link- Serial link RS 485 (MODBUS)
  - Special functions- 24V / 50 mA auxiliary power supply on terminals, 10V potentiometer power
  - supply, 5V/100 mA power supply on modbus connector Simple PTC / KLIXON motor protection
- Protection:
  - Electrical- Overvoltage, undervoltage
  - Overcurrent, overload, motor-overload, output short-circuit
  - Thermal- Heatsink overtemperature, I^2xt motorprotection
- Operating conditions:
  - Protection class IP20
  - Working temperature -10+50 °C
  - Humidity- 0 to 95% RH, non-condensing, non-corrosive
  - Altitude- 1000 m, above 1% derating / 100m
  - Vibration- Max. 0,5 g

Type of sign
ELM2000+ 0015 T3
- power supply code: T3=three-phase; S2= single phase
- motor power
- inverter model

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



LCD REMOTE FRAMESIZE KEYPAD FOR CABINET IP66
423432P



CABLE FOR REMOTE KEYPAD IP66 - 1.5meter
423433P



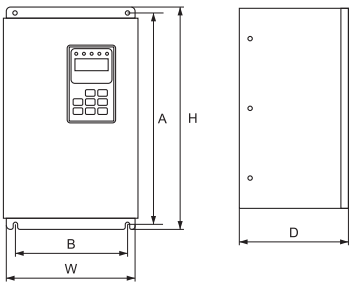
PARAMETER COPY STICK
423434P

Type	Input voltage (V)	Maximum output power (kW)	Maximum current output (A)	Dimentions (WxDxH-mm)	Weights (kg)	Catalogue number
E2000-0004 S2B	230	0.4	2.5A	80x140x135	1.40	**423400P**
E2000-0007 S2B	230	0.7	4.5A	80x140x135	1.50	**423401P**
E2000-0015 S2B	230	1.5	7A	106x180x150	2.00	**423402P**
E2000-0022 S2B	230	2.2	10A	106x180x150	2.10	**423403P**
E2000-0007 T3	400	0.7	2A	106x180x150	2.00	**423404P**
E2000-0015 T3	400	1.5	4.6A	106x180x150	2.10	**423405P**
E2000-0022 T3	400	2.2	6.5A	106x180x170	2.20	**423406P**
E2000-0030 T3	400	3.0	7A	138x235x152	2.50	**423407P**
E2000-0040 T3	400	4.0	9A	138x235x152	3.00	**423408P**
E2000-0055 T3	400	5.5	12A	156x265x170	3.50	**423409P**
E2000-0075 T3	400	7.5	17A	156x265x170	4.50	**423410P**
E2000-0110 T3	400	11.0	23A	205x340x196	4.80	**423411P**
E2000-0150 T3	400	15.0	32A	205x340x196	8.00	**423412P**
E2000-0185 T3	400	18.5	38A	205x340x196	8.50	**423413P**
E2000-0220 T3	400	22.0	44A	270x435x235	9.00	**423414P**
E2000-0300 T3	400	30.0	60A	315x480x235	22.50	**423415P**
E2000-0370 T3	400	37.0	75A	315x480x235	24.00	**423416P**
E2000-0450 T3	400	45.0	90A	360x555x265	24.50	**423417P**
E2000-0550 T3	400	55.0	110A	360x555x265	41.50	**423418P**
E2000-0750 T3	400	75.0	150A	410x650x300	42.00	**423419P**
E2000-0900 T3	400	90.0	180A	410x650x300	56.00	**423420P**
E2000-1100 T3	400	110.0	220A	516x765x326	56.50	**423421P**
E2000-1320 T3	400	132.0	265A	560x910x342	87.00	**423422P**
E2000-1600 T3	400	160.0	320A	560x910x342	123.00	**423423P**
E2000-1800 T3	400	180.0	360A	400x1310x385	124.00	**423424P**
E2000-2000 T3	400	200.0	400A	535x1340x380	125.00	**423425P**
E2000-2200 T3	400	220.0	440A	535x1340x380	185.00	**423426P**
E2000-2500 T3	400	250.0	480A	600x1465x380	186.00	**423427P**
E2000-2800 T3	400	280.0	530A	600x1465x380	225.00	**423428P**
E2000-3150 T3	400	315.0	580A	600x1465x380	230.00	**423429P**
E2000-3550 T3	400	355.0	640A	600x1600x388	233.00	**423430P**
E2000-4000 T3	400	400.0	690A	600x1600x388	234.00	**423431P**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN60898-1
EN 60947-2





Type	Overall dimensions (mm)					
	H	W	A	B	D	d
G0007S2B	150	105	139	94	120	Ø4
G0015S2B	170	125	160	114	140	Ø5
G0022S2B	170	125	160	114	140	Ø5
G0007T3B	170	125	160	114	140	Ø5
G0015T3B	170	125	160	114	140	Ø5
G0022T3B	170	125	160	114	140	Ø5
G0037T3B	250	162	233	145	150	Ø6
G0040T3B	250	162	233	145	150	Ø6
G0055T3B	300	200	282	182	160	Ø6
G0075T3B	300	200	282	182	160	Ø6
G0110T3C	340	225	322	160	220	Ø6
G0150T3C	380	230	362	186	225	Ø6

UNTIL SUPPLY LAST

ELM 1000 FREQUENCY INVERTERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Frequency inverters are designed to control three-phase induction motors with short-circuited rotor. They provide for the implementation of some control laws, thus becoming an indispensable part of the control systems for conveyors and packaging machines, pumps, air conditioning systems, etc. The ELM 1000 inverter provides the so-called no-sensor control, V/f control and impulse control while the output load can reach up to 150% within 60 seconds. It features easy definition of curves and easy parameters setting of inverter through the use of control panel buttons. The inverter can auto calibrate according to the motor power, i.e. if the inverter is connected to a motor with power different from that set by the inverter manufacturer, it automatically adjusts its programmable parameters to suit the motor parameters.

FUNCTIONS:
- rotation speed increase – automatic and manual
- sliding compensation: from 0 to 20%
- no-sensor control of the motor
- adjustment of the V/F control curve – linear or quadratic
- energy saving through automatic optimization of the V/F curve
- PID control law implementation option
- omission of resonance frequencies
- JOG function
- 'counter' function
- automatic restart option in case of power supply failure
- fifteen speed degrees control option
- control choice from the control panel; external or COM terminal
- frequency control from the control panel, external potentiometer by current or by voltage
- auto-calibration in accordance with the switched motor
- incoming signals on clockwise or counter-clockwise rotation, multi-step control, restart, etc.
- outgoing discrete control signal 24V
- outgoing analogue control signal 0 – 10V
- DC brake in static mode
- dynamic breaking with external breaking resistor – used in inert electric motor load
- output voltage adjustment option
- activation of output safety functions option
- electronic motor protection

TECHNICAL FEATURES:
- Rated working voltage: 230/400V AC; 50 Hz
- Permissible working voltage deviation: ±10%
- Unbalance of phases: < 3%
- Frequency fluctuation: < 5%
- Output frequency: 0 – 400 Hz
- Output voltage: from 0 to Ubx max
- Overload capacity:
  - constant: up to 110%
  - momentary: up to 150%
- Precision of output frequency adjustment: 0.1%
- Type of connection:
  - the connection of the inverter to the power supply should always be done through a circuit breaker of the MCB or MCCB type
  - connection of consumer to power terminals: through conductors suitable for the power
  - connection of control circuits: flexible conductor up to 1.5 mm^2

NOTE: It is not recommendable to mount contactors or other commutation devices between the frequency inverter and the motor, except as described in the product passport.
- Mounting:
  - mounting to a flat surface by means of bolts
  - mounting position – vertical gradient maximum ± 5°

NOTE: When more than one inverter is mounted in a board, it is recommendable to mount them side by side and when this is not possible, the appropriate cooling conditions should be provided.
- Plastic: UV-rays resistant and fire resistant (self-extinguishing material)
- Ambient temperature: -10° to 65° C
- Altitude : up to 2000 m
- Function enhancement option: through the inclusion of additional modules

Type	Input voltage (V)	Maximum output power (kW)	Maximum current output (A)	Packing/Box (pcs)	Catalogue number
ELM1000-G0007S2B	230	0.75	4.5	1 / 4	**423107M**
ELM1000-G0015S2B	230	1.5	7	1 / 4	**423115M**
ELM1000-G0022S2B	230	2.2	9	1 / 4	**423122M**
ELM1000-G0007T3B	400	0.75	2	1 / 4	**423307M**
ELM1000-G0037T3B	400	3.7	8	1 / 1	**423337M**
ELM1000-G0040T3B	400	4.0	9	1 / 1	**423340M**
ELM1000-G0110T3C	400	11	23	1 / 1	**423391M**
ELM1000-G0150T3C	400	15	32	1 / 1	**423392M**

Type of sign
ELM1000- G -0150 T3 C
- lid type code: C=metal clips; B=plastic lid
- power supply code: T3=three-phase; S2= single phase
- motor power
- inverter type: G=constant momentum
- inverter model

Documents corresponding to the product:
Standard EN60947-4-2
EN 60947-1



SOFT STARTER ELM 2500

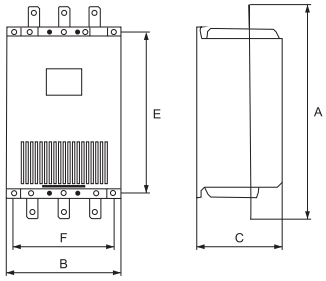
3+2 standard +extended 5 YEAR TOTAL WARRANTY

Soft starters are designed to control the start of three-phase induction motors with short-circuited rotor. A number of motor control issues are avoided through them, and namely: prolonged start moments, auto-ignition of motor, there is no need of stardelta switching, auto-transformer switching, resistant switching, etc. The ELM 2500 soft starter pertains to the AC53b type of starters as per the standard requirements and it provides rotation of motor and once the operation mode is set, a shunt contactor of the LT 1 D/F series is switched to control motor operation as the soft starter is not designed to control motors in a set mode. Under a stop command in accordance with the selected control scheme, the soft starter can or can not be included in shutting the motor down.

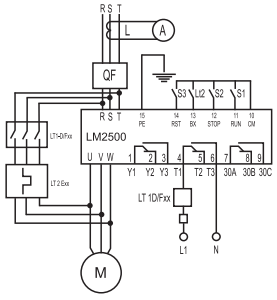
FUNCTIONS:
- System functions
  - over-voltage protection – motor will switch off when power supply exceeds the preset limits
  - overload protection – protects the motor from overloading
  - phase loss protection
  - temperature overload protection
- Control functions
  - output faults
  - motor faults diagnostics
  - keyboard or outward control
  - delayed start option
  - faults memory

TECHNICAL FEATURES:
- Rated working voltage: 230/400V AC; 50 Hz
- Permissible working voltage deviation: ±10%
- Unbalance of phases: < 3%
- Frequency fluctuation: < 5%
- Obligatory bypass contactor installation
- Mounting :
  - mounting to a flat surface through bolts
  - mounting position – vertical gradient maximum ± 5°

NOTE: When more than one soft starter is mounted in a board, it is recommendable to mount them side by side and when this is not possible, the appropriate cooling conditions should be provided.
- Plastic: UV-rays resistant and fire resistant (self-extinguishing material)
- Altitude : up to 2000 m



Type	Overall dimensions (mm)					
	A	B	C	E	F	d
EL M25015	250	153	162	219	140	Ø6
EL M25022	250	153	162	219	140	Ø6
EL M25037	250	153	162	219	140	Ø6
EL M25045	250	153	162	219	140	Ø6
EL M25055	250	153	162	219	140	Ø6
EL M25075	510	260	194	389	232	Ø8



Type	Power of motor (kW)	Rated current (A)	Type of bypass contactor	Section of power supply conductors	Packing/Box (pcs)	Catalogue number
EL M25015	15	30	LT 1-D 50	10	1 / 1	**42225015**
EL M25022	22	45	LT 1-D 50	10	1 / 1	**42225022**
EL M25037	37	76	LT 1-D 80	16	1 / 1	**42225037**
EL M25045	45	90	LT 1-D 95	25	1 / 1	**42225045**
EL M25055	55	110	LT 1-F 115	25	1 / 1	**42225055**
EL M25075	75	150	LT 1-F 150	35	1 / 1	**42225075**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

COMPLEX COMPENSATING DEVICES

3+2 standard +extended 5 YEAR TOTAL WARRANTY



The use of electrical energy in industry is invariably connected with its transformation. The development of semiconductor elements and the broader coming of semi-conductor transformers, frequency control, welding machines and electrical arc furnaces in industrial projects have a negative impact over the electrical power quality in the electro distributing systems. Induction machines need reactive energy to create electromagnetic field. The reactive component of current is taken from the electro distributing systems but it leads to additional losses in the power supply system and makes shorter the exploitation term of electrical devices. This leads to curving of the sinusoid form of current and voltage and interferences with harmonic character. Compensating the reactive power means to fill up the system in such a way that the needed reactive power to be created from the compensating device instead of being taken from the electro transportation system. This leads to killing the voltage fall and cable losses and increasing the outlet power of the power transporters and cutting down the bills for overconsumption of reactive energy paid by consumers to the electricity supply company. In practice compensating the reactive energy and high harmonics through LC filters combined in compensating installations has the broadest spreading.

THERE ARE SEVERAL TYPES OF COMPENSATION ACCORDING TO THEIR LOCATION:

- individual compensation – when to every single motor or consumer is mounted a compensating system. It is applied to powerful motors and transformers with fixed capacity.
- installation compensation – when the consumers from the whole section (workshop) are grouped and compensation is accomplished for the whole section.
- overall compensation – accomplished at full compensation in the inlet of the installation.

ACCORDING TO THE TYPE OF THE COMPENSATING DEVICES COMPENSATION CAN BE:

- passive – when the system supplies constant reactive power. In this case the system does not react to changes in the size and nature of the harmonic components and also to the per cent increase of the reactive energy in time.
- active – broader spread. The system controls the form of the consumed current and generates different capacity depending on the load changes.

When designing the electro distributing system of industrial projects the following tasks are taken into consideration:

- defining the factor of non-sinusoid of the consumers and the voltage harmonic components
- defining the additional loading of the capacitor batteries from the harmonic components and calculating the filtering elements if needed

The calculation of the compensating device capacity is done by reading the reactive energy of the system and the working time of the system. Compensating devices represent a device of one or several metal boxes with common rail system, automatic regulator for cosφ control RPSF-xx series, different number of capacitor batteries (according to the capacity of the device) with different capacity HY 111 series, contactors for capacitor batteries control CJ 19-43 series, protective elements, etc.

The broadest spreading of compensation has acquired the compensation of harmonics and reactive energy with capacitors for high voltage. Capacitors HY 111 series are voltage remeasured and are able to endure overload from harmonic components up to 7% from the basic harmonics. They are used in systems with high harmonics foul up to 25%.

The high harmonics composition is defined after measuring the influence rate of each separate harmonics compared to the first one. In Bulgaria mostly spread are 5, 7, 9, 11 and 13 harmonics. The capacitors are remeasured for voltage 415V and are normally mounted right in the compensation systems.

When the high harmonics are over 25% the system is taken to be foul and in this case except using capacitors, filters for leveling the harmonics are to be used as well. These filters are calculated on the basis of the corresponding voltage harmonics and differ for the different harmonics. They are calculated using complex mathematical programme which reads the foul rate, the significance per cent of the voltage harmonic component, etc.

Documents corresponding to the product:
Standard EN 60831-1
EN 60831-2

CAPACITOR BATTERIES FOR REACTIVE ENERGY COMPENSATION

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Capacitor batteries HY 111 series are specially designed three phase dry capacitors for compensation of reactive energy and correction of the capacity factor. It represents an aluminum cylindrical body in which a metal polypropylene folio is mounted which does not require special impregnation. The permittivity characteristics are acquired through filling with a special mixture on a vegetable base (resins). The capacitor battery is constructed in such a way that at failure (overload from voltage, current or temperature) breaks the connection to the upper cover where are the connections to the power supply. This is done by a specially constructed valve for overpressure mounted right above the capacitor element. The breaking of the inner couplings provides protection to the staff and environment from damage due to capacitor element failure. There is a three phase capacitor in the cylindrical body with built in resistor for rarefying the capacitors.

The capacitor battery can be used both for passive and active compensation.

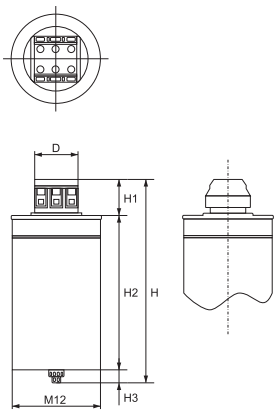
TECHNICAL DATA:

- Rated operating voltage: 450V; 50Hz
- insulation voltage: 690V
- Surge voltage wear resistance: 6kV per minute
- Capacity: from 5,0 to 100,0 kVAr at 450V
- Tolerance: ±5%
- Operating temperature: -40°C - +65°C
- Capacity losses: 0.5W/kVAr
- Built in discharging resistance
- Admissible current overload: twice as much the peak current
- Discharge time: <50V per minute
- Altitude: 2000m

MOUNTING:

- With bolt M12 orM16 to a flat horizontal base

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



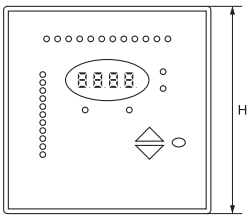
Dimensions (mm)

D	H1	H3
30	35	16

Type of the battery	Dimensions H / Ø (mm)	Operating voltage (V)	Battery capacity (kVAr)	Capacity (μF)	Packing/Box (pcs)	Catalogue number
HY 11A5	210/76	450	5.0	3X26.2	6	**49005**
HY 11A7	210/76	450	7.5	3X39	6	**49007**
HY 111A8*	230/80	450	8.0	3X39	6	**49008**
HY 111A10	240/76	450	10.0	3X52.4	6	**49010**
HY 111A15	240/86	450	15.0	3X78.9	6	**49015**
HY 111A20	240/116	450	20.0	3X105	6	**49020**
HY 111A30	280/160	450	30.0	3X157	6	**49030**
HY 111A50	345/180	450	50.0	3X262	6	**49050**
HY 111A100	300/300	450	100.0	3X524	6	**49100**
HY 111A12**	230 / 85	690	12.5	3X27.9	6	**49031**
HY 11A25**	280 / 115	690	25	3X55.7	6	**49032**

Note: *Until supply last, **Suitable for wind generators





CONTROLLER FOR AUTOMATIC REGULATION OF THE CAPACITY FACTOR (COSΦ REGULATOR)

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The automatic regulators of the capacity factor RPCF-xx series are devices for monitoring of low voltage systems and control of switching on of capacitor batteries for the capacity factor compensation. There is possibility for adjustment of the system parameters and control. Manufactured by the latest CMOS technology, they are distinguished with high degree of data security, easy programming and secure control of the outlets. There is possibility for indication and setting the parameters of the power supply system as: capacity coefficient, display of the system parameters such as voltage, current and capacity, losses, protection against overload, overload indication or lack of voltage, etc.
The change of parameters is performed through a combination of buttons on the front panel. There is light diode to indicate which parameter is being displayed on the screen and which outlets are in operation. The display is four digital. There is possibility for choice of the working conditions: manual or automatic.

TECHNICAL DATA:

- Rated operating voltage: 230/400V
- Operating frequency: 45 – 65Hz
- insulation voltage: 690V
- Surge voltage wear resistance: 6kV per minute
- Measurement range: from 0 to 9999kVAr
- Measurement accurateness:
- voltage: ±1.0%
- current: ±1.0%
- capacity coefficient: ±1.0%
- reactive energy: ±2.0%
- Operating temperature: -10+65°C
- Humidity: 30 – 60%
- Display: 4 digital
- Responsiveness: 20mA
- Outlet: 7A
- Number of outlets: 12 and 16
- Altitude: up to 2500m

MOUNTING:
On the front panel of the box through cutting an opening

Type	Number of steps	Dimensions H (mm)	Packing/Box (pcs)	Catalogue number
HY-RPCF12	12	122x122	8	**49120**
HY-RPCF16	16	144x144	8	**49160**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



SOLAR POWER SYSTEMS

The Solar Home Power system is a fixed installation designed for domestic application. They is powered by solar energy using solar cells that convert solar energy (sunlight) directly to electricity.
The Solar Home Power system are the perfect compact solution for an independent power supply in remote locations where electricity is unavailable, unreliable or expensive. Can be used in houses, Huts & Cottages, holiday areas, offices and etc
The Solar Home Power system can achieve energy independence - no accession contracts, monthly charges and the need to build an energy grid to your home.
The Solar Home Power Systems are compact, portable and easily mountable. They are an economical solution to all your power problems.



HOME SOLAR POWER SYSTEM 500W SET

3+2 standard +extended 5 YEAR TOTAL WARRANTY

FUNCTION:
- Solar power supply

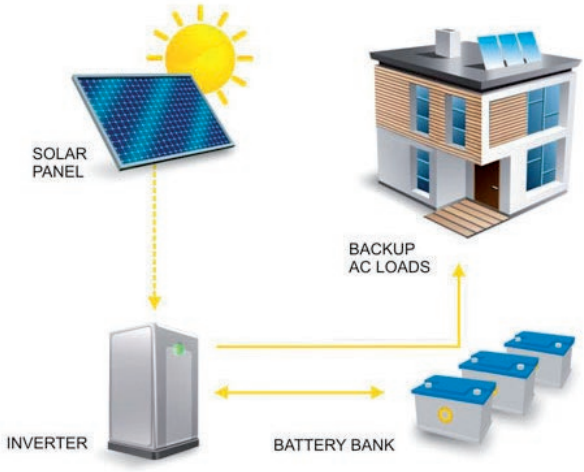
SOLAR PANEL:
- Type: Polycrystalline 18V 150W
- Optimum Operating Voltage: 18V
- Optumum Operating Current: 8.33A
- Open- Circuit Voltage: 20.88V
- Short- Circuit Current: 9.57A
- Power: 150W
- Sizes LxWxH(mm): 1490x680x5

INVERTER:
- 500W
- Ouput
  - USB 5V
  - 12V DC
  - 220V AC: Universal socket
- Size LxWxH (mm): 200x94x228

SET INCLUDED:
- Solar panel 18V 150W: 1 pc
- Inverter 500W: 1 pc

Type	Solar panel	Inverter	Battery	Packing/Box (pcs)	Catalogue number
ELM- 500SOL	18V 150W	500W	75Ah Not included	1	**98SOL500**

Recommended with a battery 75Ah with a catalog number: 98BAT75
Discharging time at 75% consumption from total Inverter power (about 375W) by using 75Ah battery: 2.4h



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



HOME SOLAR POWER SYSTEM 800W SET

3+2 standard +extended 5 YEAR TOTAL WARRANTY

FUNCTION:
- Solar power supply

SOLAR PANEL:
- Type: Polycrystalline 18V 150W
- Optimum Operating Voltage: 18V
- Optumum Operating Current: 8.33A
- Open- Circuit Voltage: 20.88V
- Short- Circuit Current: 9.57A
- Power: 150W
- Sizes LxWxH(mm): 1490x680x5

INVERTER:
- 800W
- Ouput
  - USB 5V
  - 12V DC
  - 220V AC: Universal socket
- Size LxWxH (mm): 300x100x220

SET INCLUDED:
- Solar panel 18V 150W: 1 pc
- Inverter 800W: 1 pc



Type	Solar panel	Inverter	Battery	Packing/Box (pcs)	Catalogue number
ELM- 800SOL	18V 150W	800W	105Ah Not included	1	**98SOL800**

Recommended with a battery 105Ah with a catalog number: 98BAT105
Discharging time at 75% consumption from total Inverter power (about 600W) by using 105Ah battery: 2.1h



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



HOME SOLAR POWER SYSTEM 2000W SET

3+2 standard +extended 5 YEAR TOTAL WARRANTY

FUNCTION:
- Solar power supply

SOLAR PANEL:
- Type: Polycrystalline 36V 250W
- Optimum Operating Voltage: 36V
- Optumum Operating Current: 13.89A
- Short- Circuit Current: 15.97A
- Power: 2x250W

INVERTER:
- 2000W
- Ouput
  - USB 5V
  - 12V DC
  - 220V AC: Universal socket
- Size LxWxH (mm): 300x100x220

SET INCLUDED:
- Solar panel 36V 250W: 2 pc
- Inverter 2000W: 1 pc

Type	Solar panel	Inverter	Battery	Packing/Box (pcs)	Catalogue number
ELM- 2000SOL	36V 250Wx2	2000W	220Ah Not included	1	**98SOL2000**



Recommended with two battery 220Ah with a catalog number: 98BAT220
Discharging time at 75% consumption from total Inverter power (about 1500W) by using 1 battery 220Ah: 1.7h
Discharging time at 75% consumption from total Inverter power (about 1500W) by using 2 battery 220Ah: 3.4h

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



MADE IN EU
98BAT75

DEEP CYCLE BATTERY 75AH

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Nominal Voltage: 12V
- Capacity (Ah)
  - C100 EN 61427 SLI: 75Ah
  - C20 EN 50342 SLI: 70Ah
  - C10 EN 60896 STANDBY: 63Ah
  - C5 EN 60254-1 TRACTION: 52Ah
- RC min: 130
- BHD: B13
- 100% non-spillable battery
- Indoor use
- Dimension LxWxH (mm): 278x175x190
- Absolutely maintenance free, no topping up required
- Up to 500 cycles at 50% DOD
- High reliability and safe handling
- Catalogue number: 98BAT75

Advanced AGM technology with absorbed electrolyte. It is specially designed for reliable electrical storage solutions for renewable energy

Warranty coverage: in each european country



MADE IN EU
98BAT105

DEEP CYCLE BATTERY 105AH

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Nominal Voltage: 12V
- Capacity (Ah)
  - C100 EN 61427 SLI: 105Ah
  - C20 EN 50342 SLI: 100Ah
  - C10 EN 60896 STANDBY: 95Ah
  - C5 EN 60254-1 TRACTION: 85Ah
- RC min: 180
- BHD: B13
- 100% non-spillable battery
- Indoor use
- Dimension LxWxH (mm): 345x175x230
- Absolutely maintenance free, no topping up required
- Up to 500 cycles at 50% DOD
- High reliability and safe handling
- Catalogue number: 98BAT105

Advanced AGM technology with absorbed electrolyte. It is specially designed for reliable electrical storage solutions for renewable energy

Warranty coverage: in each european country



MADE IN EU
98BAT220

DEEP CYCLE BATTERY 220AH

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Nominal Voltage: 12V
- Capacity (Ah)
  - C100 EN 61427 SLI: 220Ah
  - C20 EN 50342 SLI: 205Ah
  - C10 EN 60896 STANDBY: 190Ah
  - C5 EN 60254-1 TRACTION: 170Ah
- RC min: 430
- BHD: B0
- 100% non-spillable battery
- Indoor use
- Dimension LxWxH (mm): 320x250x120
- Absolutely maintenance free, no topping up required
- Up to 500 cycles at 50% DOD
- High reliability and safe handling
- Catalogue number: 98BAT220

Advanced AGM technology with absorbed electrolyte. It is specially designed for reliable electrical storage solutions for renewable energy

Warranty coverage: in each european country

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



QUARZ TIME SWITCH WITH POWER RESERVE TM 180 MINI

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The mechanic relay for time is supposed to be used for managing chains with maximum capacity of 3500W.After the setting ,the timer executes the functions we required in 24 hours regime. The minimum period for setting is 15 minutes as it is executed within 96 pcs segments which the timing of the work and rest of the consummator is being set.The timer is accomplished with a battery which assures the work by 70 hours after power failure.

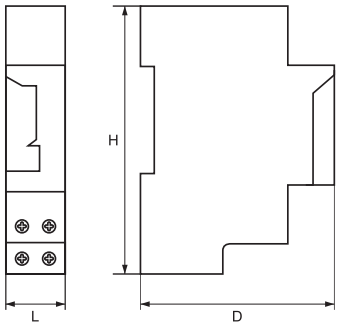
Type	Packing/Box (pcs)	Catalogue number
TM 180	1 / 200	**50137**

Dimensions (mm)

H	L	D
90	18	65.5

TECHNICAL DATA:

- Rated voltage: 230-240V AC 50/60Hz
- Time range: 24 hours
- Min. programmable interval: 15 minutes
- Time adjustment: manual
- Battery power reserve: 70 hours
- Time deviation: ± 1s (at 20°C)
- Consumption: 2.5VA
- Contact: 1NO
- Contact capacity:
- 16A/250V (COSΦ=1)
- 4A/250V (COSΦ=0.6)
- Electrical endurance: 10^5 times
- Mechanical endurance: 10^7 times
- Section of the conductor: rigid conductors up to 6mm^2



MOUNTING:

- DIN-rail



QUARZ TIME SWITCH WITH POWER RESERVE TM 181

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The mechanic relay for time is supposed to be used for managing chains with maximum capacity of 3500W.After the setting ,the timer executes the functions we required in 24 hours regime. The minimum period for setting is 30 minutes as it is executed within 48 pcs segments which the timing of the work and rest of the consummator is being set.The timer is accomplished with a battery which assures the work by 150 hours after power failure.

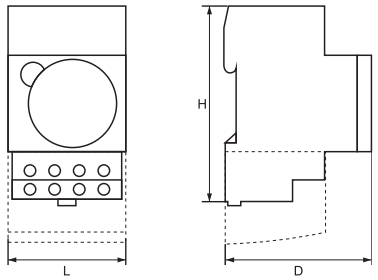
Type	Packing/Box (pcs)	Catalogue number
TM 181	1 / 100	**50138**

Dimensions (mm)

H	L	D
90	54	60.5

TECHNICAL DATA:

- Rated voltage: 230-240V AC 50/60Hz
- Time range: 24 hours
- Min. programmable interval: 30 minutes
- Time adjustment: manual
- Battery power reserve: 150 hours
- Time deviation: ± 1s (at 20°C)
- Consumption: 2.5VA
- Contact: 1NO
- Contact capacity: 16A
- Electrical endurance: 10^5 times
- Mechanical endurance: 10^7 times
- Section of the conductor: rigid conductors up to 6mm^2



MOUNTING:

- DIN-rail

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



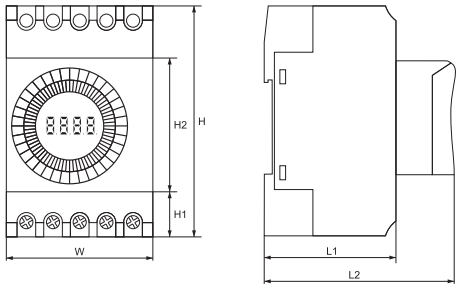
PROGRAMMABLE DIGITAL ONE-CHANNEL TIMER TE 20

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The timer is manufactured under the CMOS technology with a quartz minicontroller which makes it reliable for operation. The timer is adjusted for DIN-rail mounting. It is possible to adjust forty-eight ON/OFF cycles. Each program setting is done through selection of the cycle start and end time with the push buttons. When a program is on, the time cycle is indicated as a dimmed out section on the dial. For example, if you start a 2-hour program the 2-hour portion between On and Off times on the dial becomes dark. The minimal interval for cycle programming is 15 minutes. The battery allows programme storing at lack of power supply.

TECHNICAL DATA:

- Power supply voltage: 230V; 50Hz
- Time deviation: <2s (at 25°C)
- Battery for programme storing and operation: up to 150 hours
- Power consumption: <5VA
- Switched on indicator
- Electrical wear resistance: 105 cycles
- Mechanical wear resistance: 107 cycles
- Operating temperature: -10 ÷ +65°C
- Humidity: 35 – 85%RH
- Number of contacts: 1NO + 1NC
- Li-Ion battery: 150h
- Commutating capacity:
  - active load: up to 16A
- Weight: 120g



MOUNTING:

- DIN-rail

Type	Packing/Box (pcs)	Catalogue number
TE 20	1 / 92	**50100**

Dimensions (mm)

H	H1	H2	W	L1	L2
85	20	45	54.5	34	66



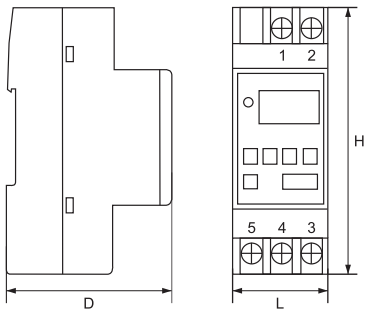
PROGRAMMABLE DIGITAL ONE-CHANNEL TIMER TE 15A

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The timer is manufactured under the CMOS technology with a quartz minicontroller which makes it reliable for operation. The timer is adjusted for DIN-rail mounting. It can memorize up to eight ON/OFF programs (ON/OFF cycles). Each program setting is done through the push buttons. Programming starts with selection of the days of the week (you can choose among a whole week cycle, work days cycle, weekend cycle, or a specific day of the week); then the cycle start time and end time are set. If you have selected work days cycle, then the program will start and stop at the set times each work day of the week. This is one ON/OFF program. Where necessary, other programs can be memorized up to the limit of eight possible programs. If you continue setting new programs the first memorized program will be deleted. The minimal interval for cycle programming is 1 minute..

TECHNICAL DATA:

- Display: LCD
- Power supply voltage: 230V; 50Hz
- Operations: 8 switching ON/OFF
- Time deviation: <2s (at 25°C)
- Battery for programme storing: up to 15 days
- Power consumption: <5VA
- Switched on indicator
- Electrical wear resistance: 105 cycles
- Mechanical wear resistance: 107 cycles
- Operating temperature: -10°C ÷ +65C
- Humidity: 35 – 85%RH
- Number of contacts: 1NO + 1NC
- Commutating capacity:
  - active load: up to 6A
  - inductive load: up to 2.5
- Weight: 120g



MOUNTING:

- DIN-rail

Type	Packing/Box (pcs)	Catalogue number
TE 15A	1 / 100	**50036**

Dimensions (mm)

H	L	D
85	36	64

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



PROGRAMMABLE DIGITAL ONE-CHANNEL TIMER TE 15B

3+2 standard +extended 5 YEAR TOTAL WARRANTY

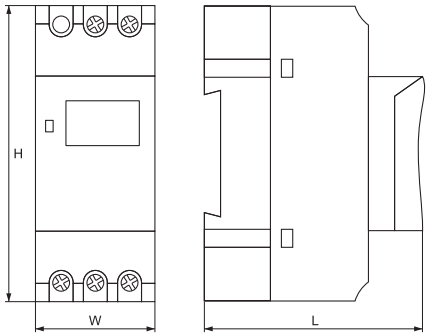
The timer is manufactured under the CMOS technology with a quartz minicontroller which makes it reliable for operation. The timer is adjusted for DIN-rail mounting.It can memorize up to six ON/OFF programs (ON/OFF cycles). Each program setting is done through the push buttons. Programming starts with selection of the days of the week (you can choose among a whole week cycle, work days cycle, weekend cycle, or a specific day of the week); then the cycle start time and end time are set. If you have selected work days cycle, then the program will start and stop at the set times each work day of the week. This is one ON/OFF program. Where necessary, other programs can be memorized up to the limit of eight possible programs. If you continue setting new programs the first memorized program will be deleted. The minimal interval for cycle programming is 1 minute. There is possibility for automatic correction of the time according to the seasonal sun variations.

Type	Packing/Box (pcs)	Catalogue number
TE 15 B	1 / 100	**50101**

Dimensions (mm)

H	W	L
85	36	64

TECHNICAL DATA:
- Display: LCD
- Automatic adjustment of the current time (time correction winter/summer)
- Power supply voltage: 230V; 50Hz
- Operations: 6 switching ON/OFF
- Time deviation: <2s (at 25°C)
- Battery for programme storing: up to 15 days
- Power consumption: <5VA
- Switched on indicator
- Electrical wear resistance: 10^5 cycles
- Mechanical wear resistance: 10^7 cycles
- Operating temperature: -10 ÷ +65°C
- Humidity: 35 – 85%RH
- Number of contacts: 1NO + 1NC
- Commutating capacity:
  - active load: up to 6A
  - inductive load: up to 2.5
- Weight: 120g



MOUNTING:
- DIN-rail



TARIFF SWITCHING CLOCK (TIMER) TE 18

3+2 standard +extended 5 YEAR TOTAL WARRANTY

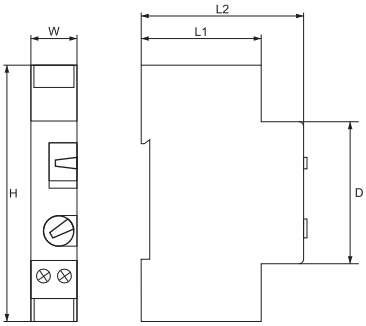
The timer is adjusted for DIN-rail mounting. It is used for switching on tariff lighting in housing buildings and switching off after the adjusted time. Easy to adjust time intervals, mounting and conducting. Reliable to use.

Type	Packing/Box (pcs)	Catalogue number
TE 18	1 / 200	**35005**

Dimensions (mm)

H	W	L1	L2	D
82	18	40	65	45

TECHNICAL DATA:
- Power supply voltage: 230V; 50Hz
- Adjustment range: 0.5 to 20 min
- Power consumption: <2.5VA
- Operating temperature: -5 ÷ +65°C
- Humidity: 45 – 95%RH
- Number of contacts: 1NO
- Commutating capacity:
  - active load: up to 16A
  - inductive load: up to 10 A
- Weight: 75g



MOUNTING:
- DIN-rail

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



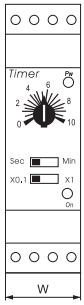
TIME RELAY "STAR/DELTA" TE 19

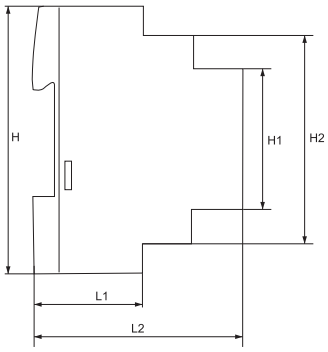
3+2 standard +extended 5 YEAR TOTAL WARRANTY

The time relay is manufactured under the most modern methods of qualitative and reliable materials. The timer is adjusted for DIN-rail mounting. It is used to provide reliable and safe time hold at "star/delta" starters and it is used for setting fixed time intervals. Programming is done through selection of the time unit (seconds or minutes) and rate (x 0.1 or x1) by the slide switches, and then selection of a value from the timer knob (from 0 to 10). Whenever timer circuit receives a signal, it executes the set cycle and then stops until a new signal is available. It gives possibility for time adjustment for motor unwinding in star up to 600s and time change to delta according to the consumer's need.

TECHNICAL DATA:

- Power supply voltage: 230V; 50Hz
- Adjustment range for operation in star: 1 to 600 seconds
- Repetition accuracy: ±5% from the whole scale
- Adjustment accuracy: ±5% from the whole scale
- Zeroing time: <0.5s
- Power consumption: <5VA
- Electrical wear resistance: 100 000 cycles
- Mechanical wear resistance: 1 000 000 cycles
- Operating temperature: -10 ÷ +65°C
- Humidity: 45 – 85%RH
- Commutating capacity: up to 5A
- Indication:
  - at operation in "star": red indication
  - at operation in "delta": green indication
- Weight: 150g





MOUNTING:

- DIN-rail

Type	Packing/Box (pcs)	Catalogue number
TE19	1 / 200	**50102**

Dimensions (mm)

H	W	L1	L2	H1	H2
85	24	34	66	45	60



TIMER TE8A – 1A, TE8A – 2A

3+2 standard +extended 5 YEAR TOTAL WARRANTY

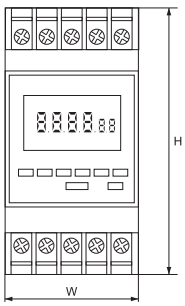
The timer is manufactured under the most modern technology CMOS with a quartz minicontroller which makes it precise, qualitative and reliable. It has a built in battery which allows operation of the timers without charging up to 150 hours. The timer is adjusted for DIN-rail mounting. Timer programming is done through selection of the operational day(s) of the week, followed by selection of the start time and end time. You may choose out of ten modes (one for each day of the week, one for the work days, one for the weekends and one for the whole week). When setting the time, you should start first with the hours and then continue with the minutes.
TE8A - 1a - Up to eight programs can be memorized. The on/off time resolution is 1 minute.
TE8A - 2a - It has two operating channels, each of which can adjust four programmes for a day or a week with minimal interval of 1 minute for switching on and off.
Indication on LCD display with high resolution and showing the time in hours, minutes and seconds.

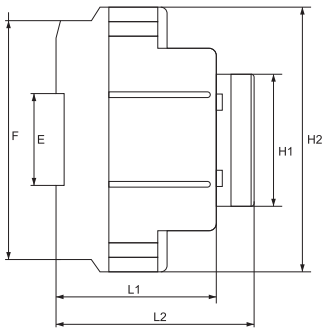
Technical data:

- Power supply voltage: 230V; 50Hz
- Power consumption: <5VA
- Electrical wear resistance: 10^7 cycles
- Mechanical wear resistance: 10^5 cycles
- Operating temperature: -10ºC ÷ +65ºC
- Temperature of storage: up to 70C
- Humidity: 45 – 85%RH
- Commutating capacity: up to 16A
- Two outlet relays
- Li-Ion battery: 150h
- Weight: 150g
-

Mounting:

- DIN-rail





Type	Packing/Box (pcs)	Catalogue number
TE8A - 1a	1 / 75	**50113**
TE8A - 2a	1 / 75	**50114**

Dimensions (mm)

H	H1	H2	W
100	50	68	50
E	L1	L2	F
36	60	74	90

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



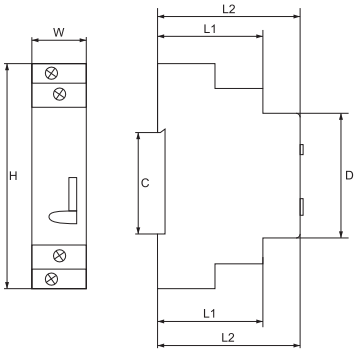
IMPULSE RELAY

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Impulse relays allow circuit remote control. They can be operated manually, remotely, from several control points, or by impulses. Impulse relays are most frequently used for the control of lighting circuits in various public places with multiple control points.

TECHNICAL DATA:
- Control voltage: 230V
- Rated current of the power circuit: 16A
- Electrical endurance: 200000 cycles
- Maximum switching frequency: 5 operations/minute
- Impulse duration: 50ms

CONNECTION:
- tunnel terminals



Type	Packing/Box (pcs)	Catalogue number
EPN510	8 / 160	**50300**

Dimensions (mm)

H	W	C	D	L1	L2
85	24	36	45	34	66



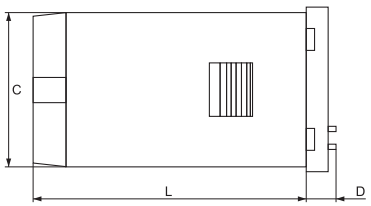
TIMER TE6B

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The timer is manufactured under the most modern technology CMOS with a quartz minicontroller which makes it precise, qualitative and reliable. The timer is modulated to be mounted on the front panel of boards. The direction of operation is adjusted – direct or reverse. There is possibility to adjust the time range from 0.01 second to 99 hours 59 minutes, possibility for correction of the set values during operation. Indication on LCD display with high resolution and showing the time in hours, minutes and seconds.

TECHNICAL DATA:
- Power supply voltage: 230V; 50Hz
- Possibility for choice of operating range:
  - from 0.01 second to 99.99 seconds
  - from 1 second to 99.59 minutes
  - from 1 minute to 99.59 hours
- Error: <0.01% ±0.05s
- Minimal duration of the input pulse: 20ms
- Power consumption: <5VA
- Electrical wear resistance: 10^7 cycles
- Mechanical wear resistance: 10^5 cycles
- Operating temperature: -10 ÷ +65°C
- Temperature of storage: up to 70°C
- Humidity: 45 – 85%RH
- Commutating capacity at active load: 3A
- Weight: 300g

MOUNTING:
- on the front panel of the board



Type	Packing/Box (pcs)	Catalogue number
TE6B	1 / 100	**50104**

Dimensions (mm)

D	W	L
8.5	45	80

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



TIMER TE48S-S

3+2 standard +extended 5 YEAR TOTAL WARRANTY

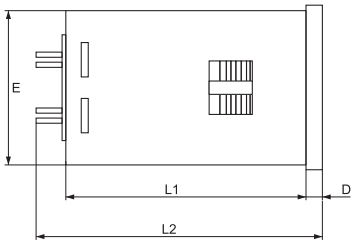
The timer is manufactured under the most modern technology CMOS with a quartz minicontroller which makes it precise, qualitative and reliable. The timer is modulated to be mounted on the front panel of boards. The direction of operation is adjusted – direct or reverse. It represents two separate operating channels, each of which can operate independently with time range adjustment from 1 second to 99 minutes. Possibility for correction of the set values during operation. First, select the time unit (seconds or minutes) and then set the time. Depending on the timer coupling, it can be used as a cyclic timer relay, i.e. it initially counts the first time set, then counts the second time set, then starts counting over the first time again, etc. until a stop signal is received. In another mode, the timer can count the set time and stop until a new signal is received to count the next cycle. Indication on LCD display with high resolution and showing the time in hours, minutes and seconds.

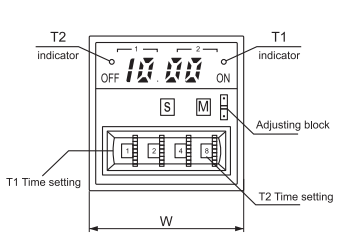
Type	Packing/Box (pcs)	Catalogue number
TE48S-S	84	**50105**

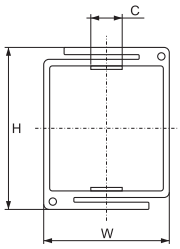
Dimensions (mm)

D	E	L1	L2
5	44.8	74	95
C	H	W	
15	58	48	

TECHNICAL DATA:
- Power supply voltage: 230V; 50Hz
- Admissible variation of the input voltage: 85-110%U
- Possibility for choice of operating range:
  - from 1 to 99 seconds
  - from 1 minute to 99 minutes
- Error: <0.01% ±0.05s
- Minimal duration of the input pulse: 20ms
- Power consumption: <5VA
- Electrical wear resistance: 10^7 cycles
- Mechanical wear resistance: 10^5 cycles
- Operating temperature: -10 ÷ +65°C
- Temperature of storage: up to 70°C
- Humidity: 45 – 85%RH
- Commutating capacity at load: 3A
- Weight: 300g







MOUNTING:
- on the front panel of the board

TIMER TE 19M

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Timer is developed using modern technologies from quality and reliable materials and is adapted for mounting on DIN rail. It is used for providing time intervals in eight time programs, which are assigned by combinations of the keys. There is an option for it to operate in time ranges (assigned by the keys K4, K5,K6): seconds, minutes or hours depending on the necessity of the user. Power contact up to 3A.

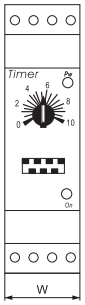


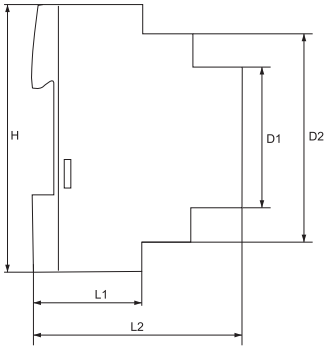
Type	Packing/Box (pcs)	Catalogue number
TE 19M	1 / 200	**50102M**

Dimensions (mm)

H	W	H1	H2	L1	L2
85	24	45	60	34	66

TECHNICAL CHARACTERISTICS:
- Input voltage: 230V; 50Hz
- Range of setting: from 0.6 sec to 100 hours
- Accuracy of setting: ± 5% from the whole scale
- Time for nullifying: <0.5 seconds
- Consumed capacity: < 5VA
- Electrical endurance (number of cycles): 100 000 cycles
- Mechanical endurance (number of cycles): 1 000 000 cycles
- Operation temperature: -10 ÷ +65°C
- Humidity: 45 - 85%RH
- Computing option: up to 5A
- Indication:
  - on power supply: red indication
  - on operational output relay: green indication
- Weight: 150 gr.
- Time functions: according to the programming guide





MOUNTING METHOD:
- DIN rail

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



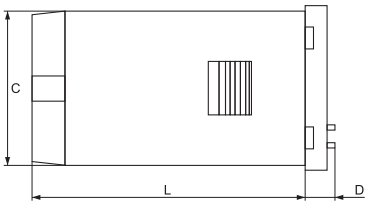
UNIVERSAL DIGITAL COUNTER CE2J

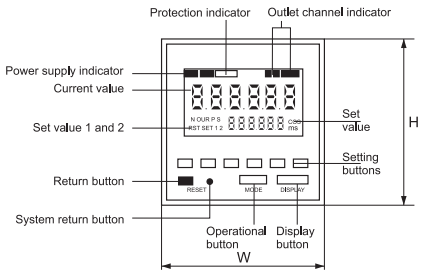
3+2 standard +extended 5 YEAR TOTAL WARRANTY

The device is manufactured under the modern technology CMOS which allows high speed of counting and high counting reliability. It has a built in battery which allows data storing for more than 10 years. It is supplied with a digital display with black lighting digits, providing excellent visibility at different lighting. The counter is to be mounted on the front panel of the boards. It is used for impulse sequence counting with accumulation or deduction. There is possibility for relay outlet operation at reaching beforehand set value, and also a possibility for changing the position of the decimal point.

TECHNICAL DATA:
- Display: LCD
- Power supply voltage: 230V; 50Hz
- Counting range: 0 - 99999
- Counting speed: 30/3k cps
- Zeroing: outside impulse
- Battery for programme storing: up to 10 years
- Power consumption: <5VA
- Operating temperature: -10 ÷ +65°C
- Humidity: 35 – 85%RH
- Commutating capacity: relay outlet with active load: up to 3A
- Weight: 250g

MOUNTING:
- on the front panel
- opening with dimensions: 45x45





Documents corresponding to the product:
Standard EN 61010-1

Type	Packing/Box (pcs)	Catalogue number
CE2J	1 / 45	**50111**

Dimensions (mm)

H	W	C	D	L
68	68	65	8.5	90



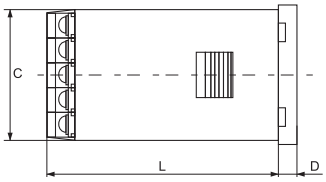
COMBINED DIGITAL COUNTER/TIMER CE10J

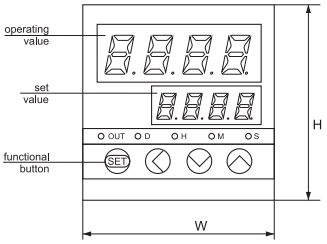
3+2 standard +extended 5 YEAR TOTAL WARRANTY

The device is for front mounting in the board. It can be used as a counter or timer choosing a definite combination from keys. It is manufactured under the modern technology CMOS which allows high speed of counting, precision at operation as a timer and high reliability. It has a built in battery which allows data storing for more than 10 years. It is supplied with a digital display providing excellent visibility at different lighting. It is used for impulse sequence counting with accumulation or deduction. There is possibility for relay outlet operation at reaching beforehand set value, and also a possibility for changing the position of the decimal point.

TECHNICAL DATA:
- Display: LCD
- Power supply voltage: 230V; 50Hz
- Counting range: 0 – 999
- Timer range: 0.01 – 99h99min
- Counting speed: 30/500 cps
- Zeroing: outside impulse
- Battery for programme storing: up to 10 years
- Power consumption: <3VA
- Mechanical wear resistance: 107 cycles
- Operating temperature: -5 ÷ +65°C
- Humidity: 35 – 85%RH
- Commutating capacity: relay outlet with active load: up to 3A
- Weight: 120g

MOUNTING:
- on the front panel
- opening with dimensions: 45x45





Documents corresponding to the product:
Standard EN 61010-1

Type	Packing/Box (pcs)	Catalogue number
CE10J	1 / 45	**50120**

Dimensions (mm)

H	W	C	D	L
68	68	65	6	90

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

TOTAL DIGITAL COUNTER CE15J

3+2 standard +extended 5 YEAR TOTAL WARRANTY



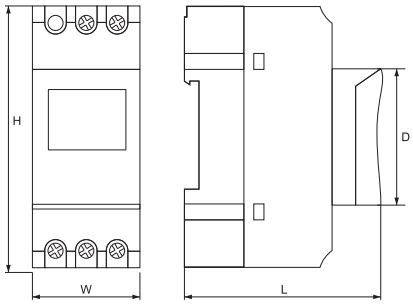
The device is to be mounted on DIN-rail. It is used as an impulse counter with no outside power supply. For that purpose there is a Li battery built in the device which provides data storing and operation of the device for 5 years. It has eight digital lighting display providing excellent visibility at different lighting. It is used for impulse sequence counting with accumulation.

TECHNICAL DATA:
- Display: LCD
- Power supply voltage: built in battery
- Inlet signal: 100-230V AC/DC
- Counting accuracy: <0.002%
- Data storing battery: up to 5 years
- Operating temperature: -5 ÷ +65°C
- Humidity: 35 – 85%RH
- Weight: 120g

Dimensions (mm)

H	W	D	L
86	36	45	64

MOUNTING:
- DIN-rail



Documents corresponding to the product: EN 61010-1

Type	Packing/Box (pcs)	Catalogue number
CE15J	1 / 100	**50112**

TOTAL DIGITAL COUNTER CE15L

3+2 standard +extended 5 YEAR TOTAL WARRANTY



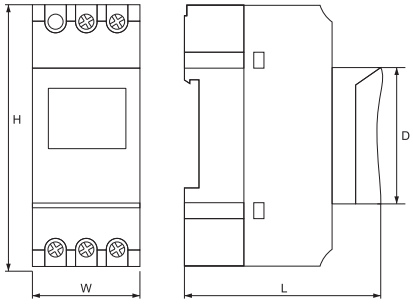
The device is to be mounted on DIN-rail. It is used as a time impulse counter with no outside power supply. For that purpose there is a Li battery built in the device which provides data storing and operation of the device for 5 years. It has eight digital lighting display providing excellent visibility at different lighting. It is used for time impulse sequence counting with accumulation. It displays the operated time.

TECHNICAL DATA:
- Display: LCD
- Power supply voltage: built in battery
- Inlet signal: 100-230V AC/DC
- Counting accuracy: <0.002%
- Battery for data storing: up to 5 years
- Operating temperature: -5 ÷ +65°C
- Humidity: 35 – 85%RH
- Weight: 120g

Dimensions (mm)

H	W	D	L
86	36	45	64

MOUNTING:
- DIN-rail



Documents corresponding to the product: EN 61010-1

Type	Packing/Box (pcs)	Catalogue number
CE15L	1 / 100	**50115**

PHASE SEQUENCE INDICATOR EK - RSTB

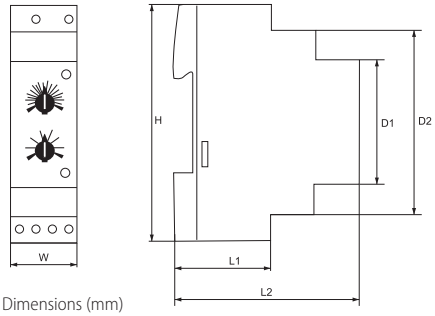
3+2 standard +extended 5 YEAR TOTAL WARRANTY



The device is to be mounted on DIN-rail. It is used for control and indication of the presence, sequence and quality of the phases. The device indicates the following fault: lack of one or several phases; change in the sequence of the phases; lowering of the power supplying voltage: under 10%; increasing of the power supplying voltage: over 10%; phase asymmetry of the power supplying voltage: ±10%. In the presence of one of the conditions above a relay starts operating in the device which breaks the controlling circuit. The time between fault indication and outlet relay switching on can be adjusted in order to prevent unwilling stops at very short breaks. When the voltage is back to normal limits, the device receives energy (indication lights) according to the hysteresic values. At phase sequence fault the device operates immediately.

TECHNICAL DATA:
- Power supply voltage: 400V; 50Hz
- Possibility for operation range adjustment: 0.1 – 10 seconds
- Possibility for working range adjustment: from 300 to 480 V
- Electrical wear resistance: 1 000 000 cycles
- Mechanical wear resistance: 10 000 000 cycles
- Indication: green LED – indication for a change in the condition; red LED - failure
- Operating temperature: -5 ÷ +65°C
- Humidity: 35 – 85%RH
- Weight: 120g

MOUNTING:
- DIN-rail



Dimensions (mm)

H	W	D1	D2	L1	L2
85	24	45	60	34	66

Documents corresponding to the product: EN 61010-1

Type	Packing/Box (pcs)	Catalogue number
EK - RSTB	1 / 200	**50103**



Documents corresponding to the product: EN 60947-5-1; EN 61810

INDUSTRIAL RELAYS AND BASES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Devices intended for construction of automation and signalling boards. They are mainly used for command transfer towards the executive mechanisms. Currents of comparatively heavy values enabling the direct control of industrial executive mechanisms are commuted in comparatively small sizes. The contact surfaces are made from silver-coated electrolytic copper. The entire contact system is closed within a lid of colourless fire-proof plastic with a test-button installed to it. The base provides a safe electric connection of the conductors of the electric installation and the relays and is used to install the relay to the DIN busbar.

TECHNICAL CHARACTERISTICS:

- Supply voltage: from 12 to 230V AC, 50 Hz and from 12 to 110V DC
- Acceptable deviation of the supply voltage: 85 -110% Un
- Rated current of the sockets: 10A AC
- Electrical endurance: 1 000 000 cycles
- Isolation resistance: 500 mΩ /min (500V)
- Impulse tension resistance: 2000V, 50Hz
- Dielectric strength: 1000V AC/1 min
- Turn-out time: 25ms
- Working temperature: -5 ÷ + 65°C
- Humidity: 35 - 85% RH

METHOD OF INSTALLATION:

- on a DIN rail by means of a socket



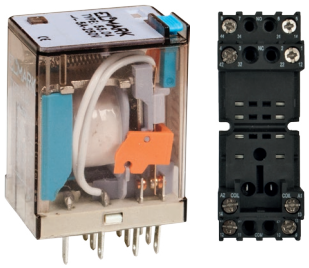
Relay type	Voltage of the coil (V)	Socket type	Resistance of the coil (Ω)	Number of contacts	Packing/Box (pcs)	Catalogue number
ELM - 14FC	12 VDC	ELM-RT624-B	260	NO+NC	100 / 1000	**57141**
ELM - 14FC	24 VDC	ELM-RT624-B	1080	NO+NC	100 / 1000	**57142**
ELM - 14FC	48 VDC	ELM-RT624-B	4260	NO+NC	100 / 1000	**57143**





Relay type	Voltage of the coil (V)	Socket type	Resistance of the coil (Ω)	Number of contacts	Packing/Box (pcs)	Catalogue number
ELM - 60.2	12 VDC	ELM - 90.22	96	2NO+2NC	20 / 300	**57601**
ELM - 60.2	24 VDC	ELM - 90.22	384	2NO+2NC	20 / 300	**57602**
ELM - 60.2	48 VDC	ELM - 90.22	1540	2NO+2NC	20 / 300	**57603**
ELM - 60.2	230 VAC	ELM - 90.22	7400	2NO+2NC	20 / 300	**57605**
ELM-60.2	24VAC	ELM-90.22		2NO+2NC	20 / 300	**57606**
ELM - 60.13	12 VDC	ELM - 90.23	96	3NO+3NC	20 / 300	**57611**
ELM - 60.13	24 VDC	ELM - 90.23	384	3NO+3NC	20 / 300	**57612**
ELM - 60.13	48 VDC	ELM - 90.23	1540	3NO+3NC	20 / 300	**57613**
ELM - 60.13	110 VAC	ELM - 90.23	1700	3NO+3NC	20 / 300	**57614**
ELM - 60.13	230 VAC	ELM - 90.23	7400	3NO+3NC	20 / 300	**57615**
ELM-60.13	24VAC	ELM90.23		3NO-3NC	20/300	**57616**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Relay type	Voltage of the coil (V)	Socket type	Resistance of the coil (Ω)	Number of contacts	Packing/Box (pcs)	Catalogue number
ELM - 55.02	12 VDC	ELM - RT702-B	42	2NO+2NC	50 / 500	**57521**
ELM - 55.02	24 VDC	ELM - RT702-B	168	2NO+2NC	50 / 500	**57522**
ELM - 55.02	48 VDC	ELM - RT702-B	675	2NO+2NC	50 / 500	**57523**
ELM - 55.02	230 VAC	ELM - RT702-B	14000	2NO+2NC	50 / 500	**57525**
ELM55.02	24VAC	ELM - RT702-B		2NO+2NC	50/500	**57526**
ELM - 55.04	12 VDC	ELM-RT704-B	42	4NO+4NC	50 / 500	**57541**
ELM - 55.04	24 VDC	ELM-RT704-B	168	4NO+4NC	50 / 500	**57542**
ELM - 55.04	48 VDC	ELM-RT704-B	675	4NO+4NC	50 / 500	**57543**
ELM - 55.04	110 VAC	ELM-RT704-B	3500	4NO+4NC	50 / 500	**57544**
ELM - 55.04	230 VAC	ELM-RT704-B	14000	4NO+4NC	50 / 500	**57545**
ELM-55.04	24VAC	ELM-RT704-B		4NO+4NC	50/500	**57546**



57901 57902, 57912

Socket type	Dimensions (mm)	Number of terminals (pcs.)	Packing/Box (pcs)	Catalogue number
ELM - RT624-B	76 x 15	5	20 / 600	**57901**
ELM - RT702-B	76 x 27	11	10 / 240	**57902**
ELM - RT704-B	76 x 27	14	10 / 240	**57912**
ELM - 90.22	68 x 38	8	10 / 400	**57904**
ELM - 90.23	68 x 38	11	10 / 400	**57905**



57904, 57905

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

INDUSTRIAL SOLID STATE RELAYS (SSR)

3+2 standard +extended 5 YEAR TOTAL WARRANTY

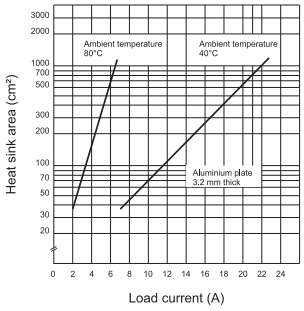


Documents corresponding to the product: EN 60947-5-1; EN 61810

Industrial SSR are intended for mounting in power and control cabinets as an output switch devices with reliable ON/OFF performance. The SSR are based on the CMOS technology. The non-contact electronic switch is optically separated from the input signal by a photoelectric coupler. This allows use of switch currents of up to 50A despite of the devices small overall size. Another important feature of the relay is that output load can be regulated depending on the input signal value. The relay is mainly used to transmit control signals to actuating mechanisms since it can work at comparatively high currents making it possible to directly control actuators. SSR have transparent plastic covers to additionally improve their safety level. The SSR use is connected with considerable heat emissions, so measures must be taken to dispense the excessive thermal energy in the atmosphere. This is achieved through application of specially deigned radiators. The correct definition of radiator parameters is of critical importance. It is made by calculating the heat generation capacity with the formula: Heat generation = active load current x 3.0 W/A. The heat removal surface is estimated with the help of the following graphic:

TECHNICAL SPECIFICATIONS:

- Load/output voltage: 30/400V 50 Hz or the solid state voltage regulators
- Rated output current: from 10A to 60A
- Insulating voltage: 1000 MΩ /min (500V)
- Impulse voltage stability: 2000V, 50Hz
- Dielectric Strength: < 2500VAC / 1 min
- Leakage current: <2mA
- Turn-on time: <10ms
- Operating temperature: -5°C + 65°C
- Relative Humidity: 35 - 85%RH





Type	Relay Type	Control Voltage (V)	Output Voltage (V)	Number of phases	Output Current (A)	Packing/Box (pcs)	Catalogue number
ZG3NC - 2 - 10B	SSR	3-32VDC	230VAC	1	10	10 / 100	**57710**
ZG3NC - 2 - 20B	SSR	3-32VDC	230VAC	1	20	10 / 100	**57720**
ZG3NC - 2 - 25B	SSR	3-32VDC	230VAC	1	25	10 / 100	**57725**
ZG3NC - 2 - 40B	SSR	3-32VDC	230VAC	1	40	10 / 100	**57740**
ZG3NC - 2 - 60B	SSR	3-32VDC	230VAC	1	60	10 / 100	**57760**
ZG3NC - 3 -10B	SSR	3-32VDC	400VAC	2	10	10 / 100	**57713**
ZG3NC - 3 - 20B	SSR	3-32VDC	400VAC	2	20	10 / 100	**57723**
ZG3NC - 3 - 25B	SSR	3-32VDC	400VAC	2	25	10 / 100	**57735**
ZG3NC - 3 - 40B	SSR	3-32VDC	400VAC	2	40	10 / 100	**57743**
ZG3NC - 3 - 60B	SSR	3-32VDC	400VAC	2	60	10 / 100	**57763**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

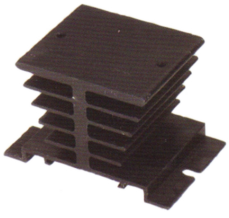


Type	Relay Type	Control Voltage (V)	Output Voltage (V)	Number of phases	Output Current (A)	Packing/Box (pcs)	Catalogue number
ZG1NC - 2 - 10D	SS voltage regulator	1-10VDC	0-230VAC	1	10	10 / 100	**57810**
ZG1NC - 2 - 20D	SS voltage regulator	1-10VDC	0-230VAC	1	20	10 / 100	**57820**
ZG1NC - 2 - 25D	SS voltage regulator	1-10VDC	0-230VAC	1	25	10 / 100	**57825**
ZG1NC - 2 - 40D	SS voltage regulator	1-10VDC	0-230VAC	1	40	10 / 100	**57840**
ZG1NC - 3 -10D	SS voltage regulator	1-10VDC	0-400VAC	2	10	10 / 100	**57813**
ZG1NC - 3 - 20D	SS voltage regulator	1-10VDC	0-400VAC	2	20	10 / 100	**57823**
ZG1NC - 3 - 25D	SS voltage regulator	1-10VDC	0-400VAC	2	25	10 / 100	**57835**
ZG1NC - 3 - 40D	SS voltage regulator	1-10VDC	0-400VAC	2	40	10 / 100	**57843**



Type	Relay Type	Control Voltage (V)	Output Voltage (V)	Number of phases	Output Current (A)	Packing/Box (pcs)	Catalogue number
ZG33 - 3 - 10B	SSR	3-32VDC	400VAC	3	10	1 / 30	**57831**
ZG33 - 3 - 20B	SSR	3-32VDC	400VAC	3	20	1 / 30	**57832**
ZG33 - 3 - 25B	SSR	3-32VDC	400VAC	3	25	1 / 30	**57833**
ZG 33 - 3 - 40B	SSR	3-32VDC	400VAC	3	40	1 / 30	**57834**

Note: The relay output must be supplied with a varistor to ensure its over-voltage protection, whenever RRS is used to control inductive loads.

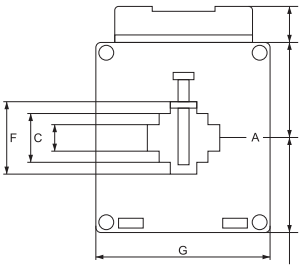


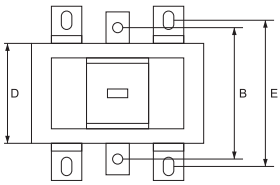
Type of Radiator	Overall Dimensions (L/W/H)	Approximate Load (A)	Packing/Box (pcs)	Catalogue number
QW-A 50	60 x 50 x 50	15	1 / 50	**57906**
QW-B 72	72x100x50	20	1 / 50	**57907**
QW-B 100	100x100x50	25	1 / 50	**57908**
QW-C 115	115x100x50	40	1 / 50	**57909**
QW-E 50	150x88x35	75	1 / 40	**57910**

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Documents corresponding to the product: Standard EN 61010-1; EN 60044-1; EN 60044-6





CURRENT MEASUREMENT TRANSFORMERS MES - XX/X5 TYPE

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The measurement transformers find application at current measuring, current regulation, systems for current characteristics watching, systems for reactive energy compensation, signaling, etc. They are with x/5 gear ratio as X is the inlet range of the transformer.

TECHNICAL DATA:
- Maximum operating voltage: 720V; 50Hz
- Admissible deviation of the operating current: 1.2 x In
- Inlet current: 50 – 1200A
- Outlet current: 5A
- Impulse voltage wear resistance: 4000V; 50Hz (1min)
- Operating temperature: -5 ÷ +65°C
- Humidity: 35 – 85%RH
- Precision class: 0.5

MOUNTING:
- Current transformers can be DIN rail mounted;
- vertically or horizontally to the power supplying rails according to the opening of the transformer
- Current transformers can be mounted on flat surfaces by use of fixing clamps.

Type	Overall dimensions (mm)						
	A	B	C	D	E	F	G
MES - 75/30	88	52	52	41	77	31	31
MES - 75/40	88	52	52	41	77	41	41
MES - 86/60	117	57	57	184	77	61	61

Type	Range	Precision class	Capacity VA	Weight kg	Packing/Box (pcs)	Catalogue number
MES - 75/30	50/5	0.5	1	0.60	1 / 40	**45050A**
MES - 75/30	75/5	0.5	1.5	0.60	1 / 40	**45075A**
MES - 75/30	100/5	0.5	1.5	0.60	1 / 40	**45103A**
MES - 75/30	150/5	0.5	2.5	0.60	1 / 40	**45153A**

Type	Range	Precision class	Capacity VA	Weight kg	Packing/Box (pcs)	Catalogue number
MES - 75/40	200/5	0.5	3.75	0.60	1 / 40	**45204A**
MES - 75/40	250/5	0.5	3.75	0.60	1 / 40	**45254A**
MES - 75/40	300/5	0.5	5	0.60	1 / 40	**45304A**
MES - 75/40	400/5	0.5	5	0.60	1 / 40	**45404A**
MES - 75/40	500/5	0.5	5	0.60	1 / 40	**45504A**
MES - 75/40	600/5	0.5	5	0.60	1 / 40	**45604A**

Type	Range	Precision class	Capacity VA	Weight kg	Packing/Box (pcs)	Catalogue number
MES - 86/60	400/5	0.5	3.75	0.60	1 / 40	**45406A**
MES - 86/60	500/5	0.5	5	0.60	1 / 40	**45506A**
MES - 86/60	600/5	0.5	10	0.60	1 / 40	**45606A**
MES - 86/60	800/5	0.5	10	0.60	1 / 40	**45806A**
MES - 86/60	1000/5	0.5	10	0.60	1 / 32	**45906A**
MES - 86/60	1200/5	0.5	10	0.60	1 / 32	**45916A**

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Documents corresponding to the product: Standard EN 60044-1

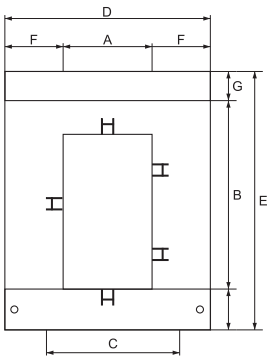
CURRENT TRANSFORMERS, TYPE CP

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Current measuring transformers of duct type. Specially designed to be installed in measuring circuits without removing cables in current measuring circuit. CP Transformers save installation time and decrease installation costs

TECHNICAL SPECIFICATION:

- small size table:
- secondary coil rated current 5A
- rated voltage 720V
- frequency 50Hz
- rated load: up to 30VA
- safety coefficient: fs≤5
- accuracy class :0.5; 1
- secondary coil connection: cable shoe terminal



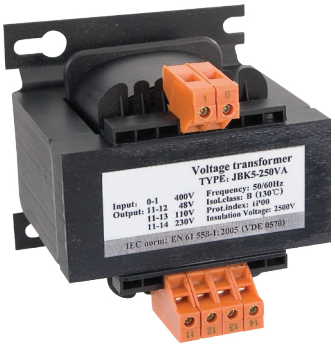
Type	Overall dimensions (mm)						
	A	B	C	D	E	F	G
CP 23	20	30	51	89	111	34	47
CP 58	50	80	78	114	145	32	32
CP 88	80	80	108	144	145	32	32

Type	Range	Precision class	Capacity VA	Weight kg	Packing/Box (pcs)	Catalogue number
CP 23	200/5	1	1.5	0,74	1 / 45	**452320**
CP 23	250/5	1	2.5	0,74	1 / 45	**452325**
CP 23	300/5	0,5	2.5	0,74	1 / 45	**452330**

Type	Range	Precision class	Capacity VA	Weight kg	Packing/Box (pcs)	Catalogue number
CP 58	250/5	0,5	1,5	0,87	1 / 36	**455825**
CP 58	300/5	0,5	2,5	0,87	1 / 36	**455830**
CP 58	400/5	0,5	2,5	0,87	1 / 36	**455840**
CP 58	500/5	0,5	5	0,87	1 / 36	**455850**
CP 58	600/5	0,5	5	0,87	1 / 36	**455860**

Type	Range	Precision class	Capacity VA	Weight kg	Packing/Box (pcs)	Catalogue number
CP 88	400/5	0,5		1	1 / 20	**458840**
CP 88	500/5	0,5	2,5	1	1 / 20	**458850**
CP 88	600/5	0,5	5	1	1 / 20	**458860**
CP 88	750/5	0,5	2,5	1	1 / 20	**458875**
CP 88	800/5	0,5	3.75	1	1 / 20	**458880**
CP 88	1000/5	0,5	5	1	1 / 20	**458890**

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EVT5 - CONTROL VOLTAGE TRANSFORMER

3+2 standard +extended 5 YEAR TOTAL WARRANTY

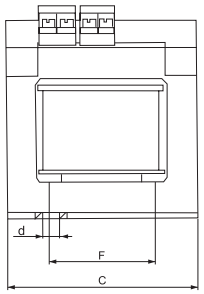
FUNCTIONS:
Reduction of main voltage within standard range
- Galvanic separation of the power supply circuit from the operation circuit

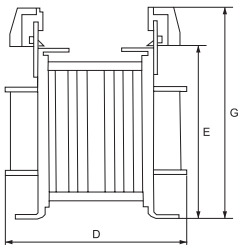
TECHNICAL FEATURES:
- Input voltage: 400 or 230 V
- Frequency : 50/60Hz
- Short circuit resistance: unstable
- Temperature class: B (130ºC)
- Construction: open (for installation in other products)
- Magnetic circuit: cold rolled electric furnace steel
- Coils: pure electrotechnical copper
- IP code: IP20

CONNECTION:
- flexible or hard conductors of relevant section to terminals

MOUNTING:
- Mounting in distribution boards or products
- fastening: by means of screws/bolts to the surface
- position: vertical
- ambient temperature: -20 ÷ +65ºC

Documents corresponding to the product: Standard EN 60051-1





Type	Initial voltage (V)	Secondary voltage (V)	Power VA	Dimensions C	D	E	F	G	d	Packing / Box (pcs.)	Catalogue number
EVT5 - 100VA	230	48-36	100	84	90	63	65	95	4	16	**45248**
EVT5 - 100VA	400	48-36	100	84	90	63	65	95	4	16	**45448**
EVT5 - 100VA	230	24-12	100	84	90	63	65	95	4	16	**45243**
EVT5 - 100VA	400	24-12	100	84	90	63	65	95	4	16	**45443**
EVT5 - 250VA	230	48-24-12	250	130	100	120	53	130	20	16	**45242**
EVT5 - 250VA	230	48-36	250	130	100	120	53	130	20	16	**45242N**
EVT5 - 250VA	400	48-24-12	250	130	100	120	53	130	20	12	**45442**
EVT5 - 250VA	400	48-36	250	130	100	120	53	130	20	12	**45442N**
EVT5 - 250VA	230	24-12	250	130	100	120	53	130	20	12	**45244**
EVT5 - 250VA	400	24-12	250	130	100	120	53	130	20	12	**45444**
EVT5 - 500VA	230	48-24-12	500	150	113	133	53	140	20	4	**45245**
EVT5 - 500VA	230	48-36	500	150	113	133	53	140	20	4	**45245N**
EVT5 - 500VA	400	48-24-12	500	150	113	133	53	140	20	4	**45445**
EVT5 - 500VA	400	48-36	500	150	113	133	53	140	20	4	**45445N**
EVT5 - 500VA	230	24-12	500	150	125	133	53	140	20	4	**45246**
EVT5 - 500VA	400	24-12	500	150	125	133	53	140	20	4	**45446**
EVT5 - 500VA	230	110-48-24	500	150	125	133	53	140	20	4	**45215**
EVT5 - 500VA	400	110-48-24	500	150	125	133	53	140	20	6	**45415**
EVT5 -1000VA	230	48-24-12	1000	170	125	150	65	155	20	2	**45241**
EVT5 -1000VA	230	48-36	1000	170	125	150	65	155	20	2	**45241N**
EVT5 - 1000VA	400	48-24-12	1000	170	125	150	65	155	20	2	**45441**
EVT5 - 1000VA	400	48-36	1000	170	125	150	65	155	20	2	**45441N**
EVT5 - 1000VA	230	24-12	1000	170	125	150	65	155	20	2	**45247**
EVT5 - 1000VA	400	24-12	1000	170	125	150	65	155	20	2	**45447**
EVT5 - 1600VA	230	48-24-12	1600	190	125	150	65	170	20	2	**452416**
EVT5 - 1600VA	230	48-36	1600	190	125	150	65	170	20	2	**452416N**
EVT5 - 1600VA	400	48-24-12	1600	190	125	150	65	170	20	2	**454416**
EVT5 - 1600VA	400	48-36	1600	190	125	150	65	170	20	2	**454416N**
EVT5 - 1600VA	230	24-12	1600	190	125	150	65	170	20	2	**452417**
EVT5 - 1600VA	400	24-12	1600	190	125	150	65	170	20	2	**454417**

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DIGITAL VOLTMETER/AMPEREMETER EKDP 15 A/V

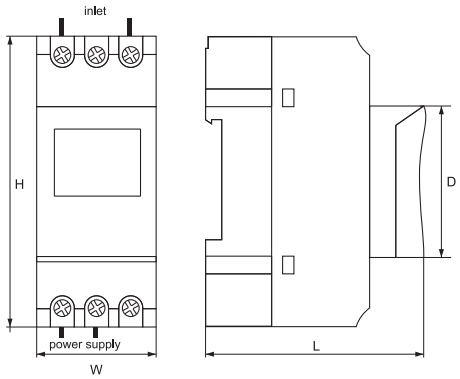
3+2 standard +extended 5 YEAR TOTAL WARRANTY

Digital device adjusted for DIN-rail mounting and offered in two types:
- amperemeter
- voltmeter

It is supplied with LCD display where the measurement quantity is displayed with numbers with 31/2 size. It has high accuracy of analogue-digital transfer, measurement precision and electromagnetic interference stability. There is possibility for adjustment of the measurement range through built in micro switches. Adjusted to measure constant current (AD,DV) and alternating current (AA,VA) quantities.

TECHNICAL DATA:
- Power supply voltage: 100 - 240V; 50Hz
- Inlet signal:
  - operating as voltmeter: 2 – 700V (the range is adjusted from inside)
  - operating as amperemeter: 5 – 2000A (the range is adjusted from inside)

NOTE: At current range over 5A a current measurement transformer should be used
- Consumption: <5A
- Impulse voltage wear resistance: 4000V; 50Hz (1min)
- Operating temperature: -5 ÷ +65°C
- Humidity: 35 – 85%RH
- Precision: 0.5% from the whole scale
- Display: LCD
- Weight: 150gr



MOUNTING:
- DIN-rail

Documents corresponding to the product: Standard EN 61010-1

Type	Packing/Box (pcs)	Catalogue number
EKDP-15AA	1 / 100	**50117A**
EKDP-15DA	1 / 100	**50117D**
EKDP-15AV	1 / 100	**50116A**
EKDP-15DV	1 / 100	**50116D**

Dimensions (mm)

H	W	L	D
88	36	64	45



DIGITAL VOLTMETER/AMPEREMETER AND FREQUENCY METER EKDP7

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Digital device adjusted for mounting on the front panel of electrical boards and offered in the following types:
- amperemeter:

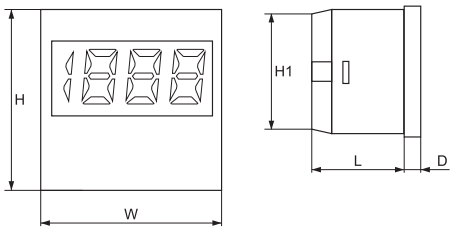
EKDP7 – AA – amperemeter for alternating current
EKDP7 – DA – amperemeter for direct current
- voltmeter:

EKDP7 – AV – voltmeter for alternating current
EKDP7 – DV – voltmeter for direct current
EKDP7 – Hz – frequency meter

It is supplied with LCD display where the measurement quantity is displayed with numbers with 31/2 size. It has high accuracy of analogue-digital transfer, measurement precision and electromagnetic interference stability. There is possibility for adjustment of the measurement range through built in micro switches. Adjusted to measure direct current and alternating current quantities.

TECHNICAL DATA:
- Power supply voltage: 100 - 240V; 50Hz
- Inlet signal:
  - operating as voltmeter: 2 – 700V (the range is adjusted from inside)
  - operating as amperemeter: 5 – 2000A (the range is adjusted from inside

NOTE: For high current range a current measurement transformer should be used for alternating current device and a measurement shunt for direct current.
- Consumption: <5A
- Impulse voltage wear resistance: 4000V; 50Hz (1min)
- Operating temperature: -5 ÷ +65°C
- Humidity: 35 – 85%RH
- Precision: 0.5% from the whole scale
- Display: LCD
- Weight: 130gr



MOUNTING:
- on the front panel

Documents corresponding to the product: Standard EN 61010-1

Type	Packing/Box (pcs)	Catalogue number
EKDP7-AV	1 / 84	**50106**
EKDP7-AA	1 / 84	**50107**
EKDP7-DV	1 / 84	**50108**
EKDP7-DA	1 / 84	**50109**
EKDP7-HZ	1 / 84	**50110**

Dimensions (mm)

H	W	H1	D	L
72	72	68	6	42

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



DIGITAL ROUND VOLTMETER/ AMPEREMETER AND FREQUENCY METER EL-ED16R

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Range	Diameter (mm)	Packing / Box (pcs)	Catalogue number
Voltmeter	AC 12-500V	22	10/500	**401553**
Amperemeter	AC 0-100A	22	10/500	**401554**
Frequency meter	AC 35-99 HZ	22	10/500	**401555**





DIGITAL SQUARE VOLTMETER/ AMPEREMETER AND FREQUENCY METER EL-ED16S

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Range	Diameter (mm)	Packing / Box (pcs)	Catalogue number
Voltmeter	AC 12-500V	22	10/500	**401556**
Amperemeter	AC 0-100A	22	10/500	**401557**
Frequency meter	AC 35-99 HZ	22	10/500	**401558**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Documents corresponding to the product:
Standard EN 60051-1



ANALOGUE (POINTER) PANEL METERS SD72 TYPE FOR BUILD-IN

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Analogue devices adjusted for mounting on the front panel of electrical boards. Designed for frequency measurement, capacity, alternating or direct voltage and current of the power supply grid, with overall dimensions 72x72mm. They are manufactured on the basis of bridge measurement schemes. There is possibility for display change for the higher scopes of measuring.

Type	Type of the measurment system	Precision class	Range	Note	Packing/Box (pcs)	Catalogue number
amperemeter AC	MEMSI	1.5	0-40A	-	1 / 100	**50118**
amperemeter AC	MEMSI	1.5	0-100A	current transfer 100/5	1 / 100	**654010**
amperemeter AC	MEMSI	1.5	0-200A	current transfer 200/5	1 / 100	**654020**
amperemeter AC	MEMSI	1.5	0-400A	current transfer 400/5	1 / 50	**654040**
amperemeter AC	MEMSI	1.5	0-600A	current transfer 600/5	1 / 50	**654060**
amperemeter AC	MEMSI	1.5	0-1000A	current transfer 1000/5	1 / 50	**654100**
amperemeter AC	MEMSI	1.5	0-1500A	current transfer 1500/5	1 / 50	**654150**
voltmeter AC*	MEMSI	1.5	0-500V	-	1 / 50	**50125**
frequency meter**	ME	0.5	45-65Hz	-	1 / 50	**50126**
cosφ meter	MEMSI	1.5	3P 400V	-	1 / 50	**50127**
amperemeter DC	MEMC	1.5	0-5A	-	1 / 50	**50128**
amperemeter DC	MEMC	1.5	0-50A	outer resistor 60mV	1 / 50	**50129**
voltmeter DC	MEMC	1.5	0-50V	-	1 / 50	**50130**
voltmeter DC	MEMC	1.5	0-100V	-	1 / 20	**50131**
wattmeter	MEMSI	1.5	0-3000W 1P240V	-	1 / 25	**50132**
wattmeter	MEMSI	1.5	0-3000W 3P 3 line	-	1 / 25	**50133**
wattmeter	MEMSI	1.5	0-3000W 3P 4 line	-	1 / 25	**50134**

Note: MEMSI - magnetic-electrical movable steel instrument; MEMC – magnetic-electrical movable coil
* Possibility for supplying with voltage transformer X/100V for range expanding
** Possibility for voltage 110V, 230V , 400V

Documents corresponding to the product: Standard IEC 62052-11; IEC 62053-21; IEC 62056-21

DIN RAIL MOUNTED KWH METERS

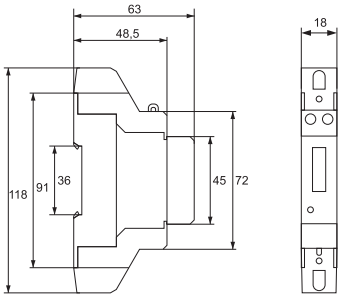
3+2 standard +extended 5 YEAR TOTAL WARRANTY

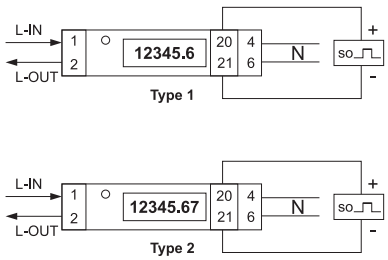
Electronic single and three phase kWh meters intended for DIN rail mounting and active energy measurement. Meters are suitable for home and commercial applications. They perform direct measurement of the real consumption of electric power and the results are shown on the LCD display. The system doesn't need any additional adjustment or calibration. The range includes single and multi-tariff models.

TECHNICAL SPECIFICATIONS:

- Direct power consumption measurement: up to 20 (80) A; 50/60Hz
- Automatic temperature compensation
- LED phase voltage outage indicator.
- Indication for wrong cable connection
- Indication for wrong measurement
- Accuracy class: 1
- Number of tariffs: see the table below
- Meter constant: See the table below

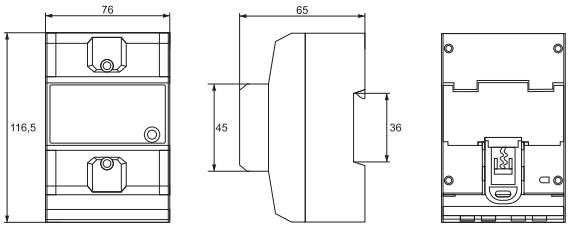


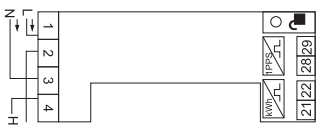


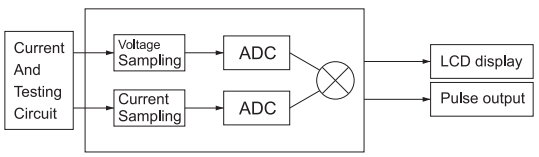


Type	Measuring range	Number of Tariffs	Meter constant (imp/kWh)	Voltage (V)	Overall dimensions (mm) height / width / depth	Packing/Box (pcs)	Catalogue number
DDS - 1Y - 45	5A (45A)	1	1000	230	63 / 18 / 118	1 / 120	**50214**





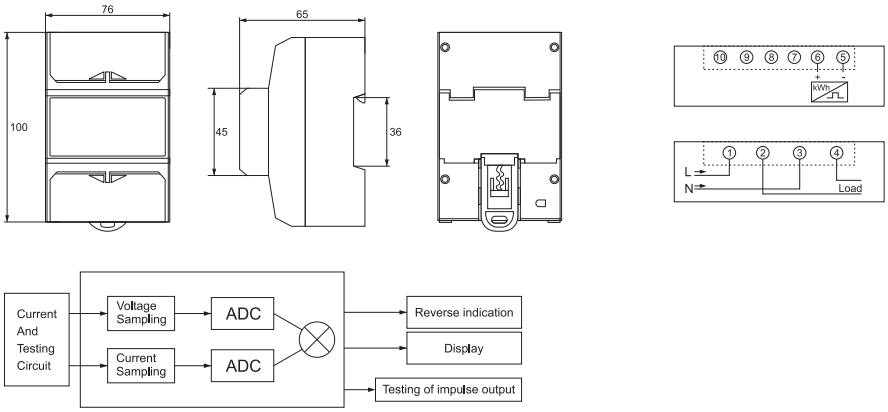




Type	Measuring range	Number of Tariffs	Meter constant (imp/kWh)	Voltage (V)	Overall dimensions (mm) height / width / depth	Packing/Box (pcs)	Catalogue number
DD4F-S01-1Y-60	5A (60A)	4	1600	230	116.5 / 76 / 65	1 / 48	**50220**

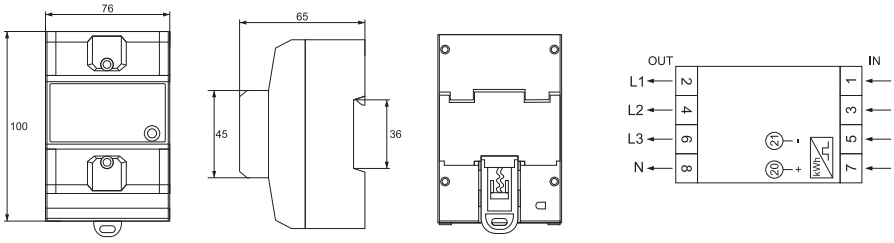
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.





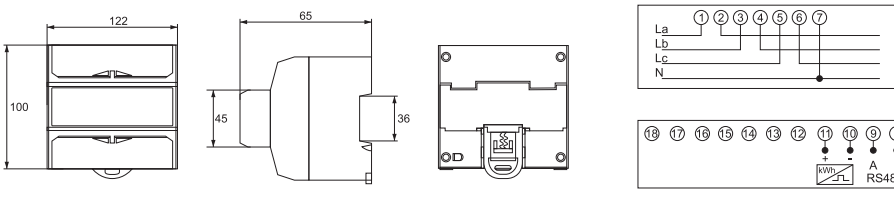
Type	Measuring range	Number of Tariffs	Meter constant (imp/kWh)	Voltage (V)	Overall dimensions (mm) height / width / depth	Packing/Box (pcs)	Catalogue number
DDS - 1Y - 100	10A (100A)	1	1600	230	65 / 76 / 100	1 / 45	**50260**





Type	Measuring range	Number of Tariffs	Meter constant (imp/kWh)	Voltage (V)	Overall dimensions (mm) height / width / depth	Packing/Box (pcs)	Catalogue number
DDS - 3Y 80	20A (80A)	1	800	3x230/400	65 / 76 / 100	1 / 45	**50380**





Type	Measuring range	Number of Tariffs	Meter constant (imp/kWh)	Voltage (V)	Overall dimensions (mm) height / width / depth	Packing/Box (pcs)	Catalogue number
DTGS-S01-3Y100	10A (100A)	4	800	3X230/400	122 / 100 / 65	1 / 30	**50400**

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ALL-PURPOSE LIMIT SWITCH – SERIES CSA-XXX

3+0 standard +extended 3 YEAR TOTAL WARRANTY

The all-purpose limit switches are devices used in automatic systems as a control element. They are used for setting of gearing limits. They are mounted on transport lines, conveyors and other linear progressive motion machines. They feature a vibration-resistant metal shell.

PRODUCT CONFORMITY DOCUMENTATION:

- Standard: EN 60947-1; EN 60947-5-1
- Dielectric strength: 1000V AC
- Rated current: 10A active; 4A inductive
- Insulating resistance: 100mΩ
- Electrical endurance (number of cycles): 500 000 with active load
- Mechanical endirance (number of cycles): 1 000 000
- Gearing speed: 5mm/s to 0.5 m/s
- Rated voltage: 230V
- Rated current: up to 10A
- IP code: IP66
- Cable input: cable glandPG11
- Section of power supply conductor: up to 2mm^2
- Fastening strength of terminals: 6-8kgf/cm



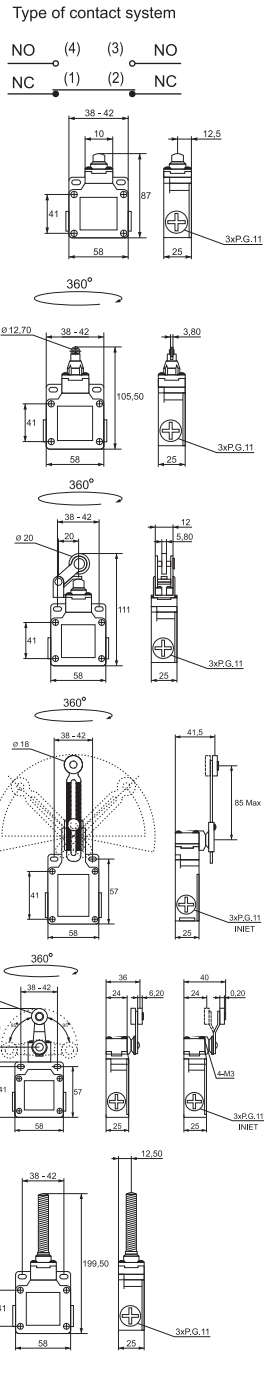












Type	Type of the head	Power of starting (g)	Power of release (g)	Switching position	General movement	Packing/Box (pcs)	Catalogue number
CSA - 001	metal cylinder	800	400	2.0mm	5.8mm	10 / 90	**46A001**
CSA - 003	cylinder with metal roll	800	400	2.0mm	5.8mm	10 / 90	**46A003**
CSA - 012	horizontal lever with metal roll	800	400	2.0mm	5.8mm	10 / 90	**46A012**
CSA - 031	adjustable lever with metal roll	400	100	22.5°	95°	10 / 80	**46A031**
CSA - 021	lever with metal roll	400	100	22.5°	95°	10 / 80	**46A021**
CSA - 081	spring lever	150	50	22.5°	50mm	10 / 80	**46A081**

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ALL-PURPOSE LIMIT SWITCH – SERIES TZ-6XXX

3+0 standard +extended 3 YEAR TOTAL WARRANTY

The all-purpose limit switches are installed on transport lines, conveyors and other linear progressive motion machines. The miniature limit switch is mounted in an aluminum shell, resistant to vibrations, lubricants and water.

PRODUCT CONFORMITY DOCUMENTATION:

- Standard: EN 60947-1; EN 60947-5-1
- Dielectric strength: 1000V AC
- Rated current: 15A active; 5A inductive
- Insulating resistance: 100mΩ
- Contact resistance: 15mΩ
- Electrical endurance (number of cycles): 500 000 with active load
- Mechanical endurance (number of cycles): 10 000 000
- Gearing speed: 0.1mm/s to 0.5 m/s
- Rated voltage: 230V
- IP code: IP65
- Cable input: cable gland PG11
- Section of power supply conductor: up to 1.5mm^2







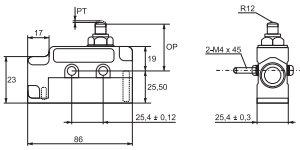
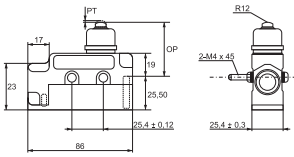
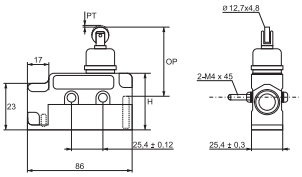
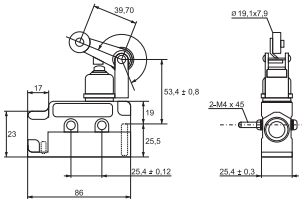
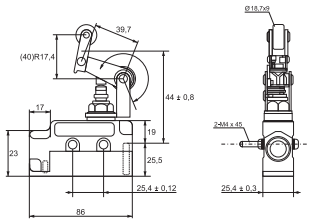
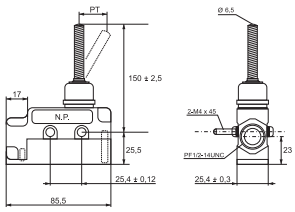






Type of contact system



Type	Type of the head	Power of starting (g)	Power of release (g)	Switching position	General movement	Packing/ Box (pcs)	Catalogue number
 TZ-6001	metal cylinder	350	115	0.5mm	5.5mm	1 / 50	**466001**
 TZ -6101	oil-resistant metal cylinder	800	240	2mm	5mm	1 / 50	**466101**
 TZ -6102	oil-resistant cylinder with metal roll	500	100	1mm	3.5mm	1 / 50	**466102**
 TZ -6104	oil-resistant horizontal lever with metal roll	640	230	5mm	6mm	1 / 50	**466104**
 TZ -6143	oil-resistant vertical lever with metal roll	640	230	5mm	6mm	1 / 50	**466143**
 TZ -6106	spring lever	150	-	20°	-	1 / 50	**466106**

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UNIVERSAL LIMIT SWITCH – SERIES CM-1XXX

3+0 standard +extended 3 YEAR TOTAL WARRANTY

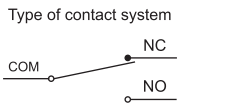


Limit switches of the CM series are used mainly as replacement of the limit switches of the TZ series or for setting the movement limits of some types of equipment. The switches are supplied with screw cable terminals. They can work at resistance loads as high as 15A, and are of single circuit type. Limit switches have high accuracy and can operate at wide variety of speeds.

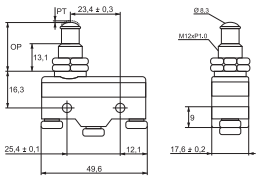
ITEMS ARE COMPLIANT WITH THE FOLLOWING STANDARDS:
EN 60947-1; EN 60947-5-1

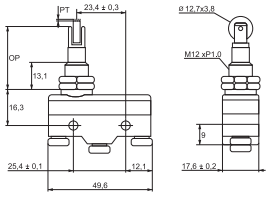
- Dielectric Strength: 1000V AC
- Rated current: 15A active; 5A inductive
- Insulation Resistance: 100mΩ min. (at 500VDC)
- Contact Resistance: 5mΩ
- Electrical Life (No. of cycles): 500 000 with non-inductive load
- Mechanical Life (No. of cycles): 5 000 000
- Operating frequency: 20 electrical operations/minute
- Operating speed: 0.1mm/s to 1.0m/s
- Rated voltage: 230V
- IP code: IP40
- Fastening strength of terminals: 6-8kgf/cm



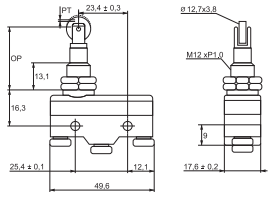


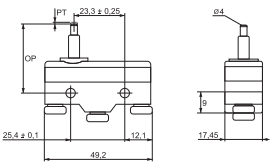




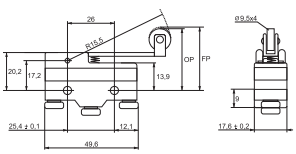




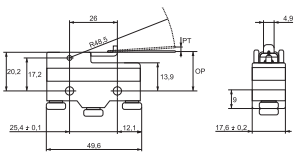












Type	Type of the head	Power of starting (g)	Power of release (g)	Switching position	General movement	Packing/Box (pcs)	Catalogue number
CM -1307	Metal cylinder	350	114	0.4mm	5.5mm	1 / 480	**468105**
CM -1309	Cylinder and transverse metal roll	350	114	0.4mm	5.5mm	1 / 480	**468106**
CM -1308	Cylinder longitudinal metal roll	350	114	0.4mm	5.5mm	1 / 480	**468109**
CM -1305	Metal cylinder	350	114	0.4mm	1.6mm	1 / 480	**468110**
CM -1703	Extended metal roll	160	22	7.1mm	1.02mm	1 / 480	**468113**
CM -1705	Spring lever	10	3	20mm	5.6mm	1 / 480	**468117**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

ALL-PURPOSE LIMIT SWITCH – SERIES TZ-8XXX

3+0 standard +extended 3 YEAR TOTAL WARRANTY

The all-purpose limit switches are devices used for setting gearing limits. They are mounted on transport lines, conveyors and other linear progressive motion machines. They have small dimensions and a vibration-resistant metal shell with plastic lid, resistant to oil and water.

PRODUCT CONFORMITY DOCUMENTATION:

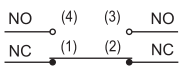
- Standard: EN 60947-1; EN 60947-5-1
- Dielectric strength: 1000V AC
- Rated current: 5A active; 3A inductive
- Insulating resistance: 100MΩ
- Contact Resistance: 25mΩ
- Electrical endurance (number of cycles): 500 000 with active load
- Mechanical endurance (number of cycles): 5 000 000
- Gearing speed: 5mm/s to 0.5 m/s
- Rated voltage: 230V
- IP code: IP65
- Cable input: cable gland PG11
- Section of power supply conductor: up to 2mm
- Fastening strength of terminals: 6-8kgf/cm

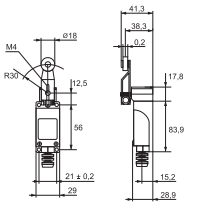
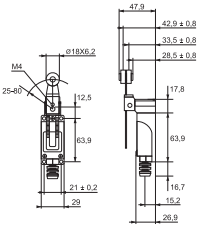
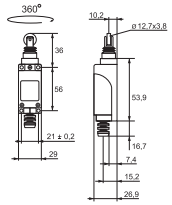
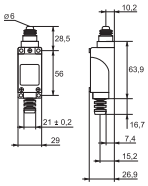
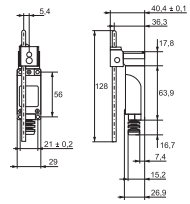
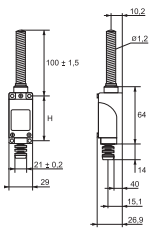







Type of contact system



Type	Type of the head	Power of starting (g)	Power of release (g)	Switching position	General movement	Packing/ Box (pcs)	Catalogue number
TZ -8104	lever with metal roll	750	100	20°	50°	10 / 100	**468104**
TZ -8108	adjustable lever with metal roll	750	100	20°	50°	10 / 100	**468108**
TZ -8112	cylinder with metal roll	900	150	1.5mm	4.0mm	10 / 100	**468112**
TZ -8111	metal cylinder	900	150	1.5mm	4.0mm	10 / 100	**468111**
TZ -8107	metal rod	750	100	20°	50°	10 / 100	**468107**
TZ -8167	spring lever	150	-	30mm	-	10 / 100	**468167**

ALL-PURPOSE LIMIT SWITCH – SERIES CWL-XXX

3+0 standard +extended 3 YEAR TOTAL WARRANTY

The all-purpose limit switches are devices used for setting gearing limits. They are mounted on transport lines, conveyors and other linear progressive motion machines. They have aluminium shell of high mechanic strength and resistance to oil, water and pressure.

PRODUCT CONFORMITY DOCUMENTATION:

- Standard: EN 60947-1; EN 60947-5-1
- Dielectric strength: 1000V AC
- Rated current: 10A active; 3A inductive
- Insulating resistance: 100mΩ
- Contact resistance: 15mΩ
- Electrical endurance (number of cycles): 500 000 with active load
- Mechanical endurance (number of cycles): 10 000 000
- Gearing speed: 1mm/s to 2 m/s
- Rated voltage: 230V
- IP code: IP66
- Cable input: cable gland
- Metal shell
- Vibration-resistant





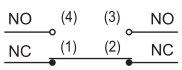


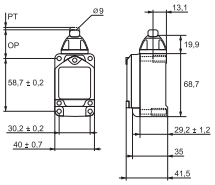


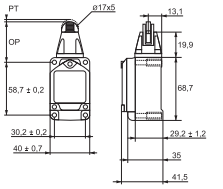


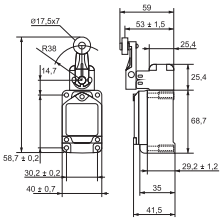


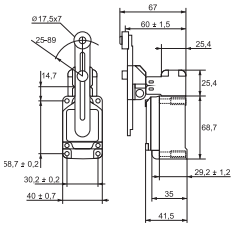
Type of contact system

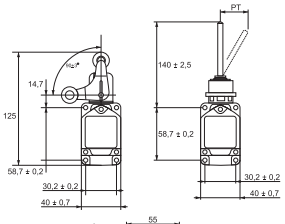


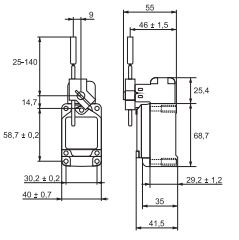












Type	Type of the head	Power of starting (g)	Power of release (g)	Switching position	General movement	Packing/ Box (pcs)	Catalogue number
CWLD	metal cylinder	2720	910	2.0mm	6.4mm	1 / 50	**46LD**
CWLD2	cylinder with metal roll	2720	910	2.0mm	5.6mm	1 / 50	**46LD2**
CWLCA2-2	lever with metal roll	1360	227	20°	50°	1 / 50	**46LCA2-2**
CWLCA12-2-Q	adjustable lever with metal roll	2720	910	20°	50°	1 / 50	**46LCA12-2-Q**
CWCA32-41	fork	1200	-	55°	90±10°	1 / 50	**46LCA32-41**
CWLNJ	oil-resistant spring lever	150	-	28mm	90±10°	1 / 50	**46LNJ**
	metal rod	142	28	20°	50°	1 / 50	**46LCL**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

UNIVERSAL LIMIT SWITCH – SERIES CZ93-XX

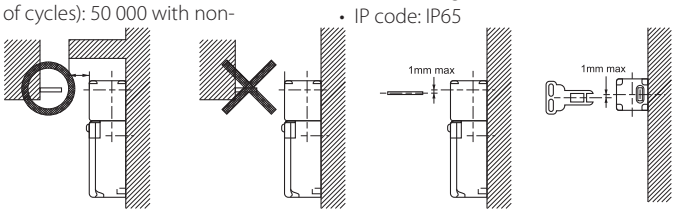
3+0 standard +extended 3 YEAR TOTAL WARRANTY



Limit switches of the CZ 93 series are Safety Key Interlock Switches. They are used in object control systems with high safety requirements. The limit switch body is mounted to the fixed system component, while the safety key is mounted to the movable system component. System operation cannot start, unless a full interlocking is achieved. Safety key interlock switches can operate at up to 10A non-inductive resistance load, 3A lamp load and 5A inductive load. They have high operating accuracy at wide variety of speeds. These limit switches are available in two versions depending on the operating contacts number: 2NC and NO+NC

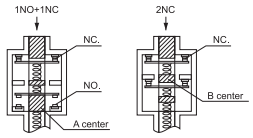
COMPLIANT WITH THE FOLLOWING STANDARDS:
EN 60947-1; EN 60947-5-1

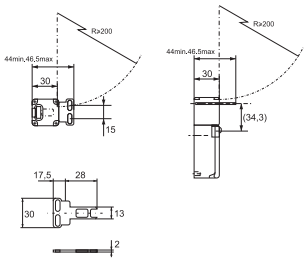
- Dielectric Strength: 2500V AC
- Rated current: 10A active; 3A inductive
- Insulation Resistance: 100mΩ min. (at 500VDC)
- Contact Resistance: 25mΩ
- Electrical Life (No. of cycles): 50 000 with non-inductive load
- Mechanical Life (No. of cycles): 2 000 000
- Operating frequency: 30 electrical operations/minute
- Operating speed: 0.1mm/s to 0.5m/s
- Rated voltage: 230V
- IP code: IP65

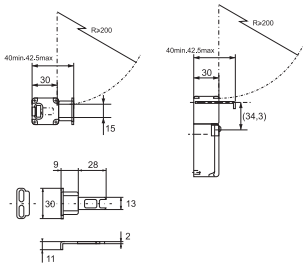




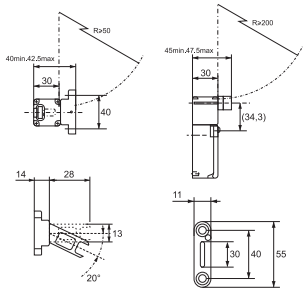
Type of the contact system











Type	Key type	Power of starting (g)	Power of release (g)	Switching position	General movement	Packing/ Box (pcs)	Catalogue number
CZ-93BPG01	CZ93-K1	147N	29.4N	6 mm	28mm	10 / 100	**46CZ08**
CZ-93CPG01	CZ93-K1	147N	29.4N	6 mm	28mm	10 / 100	**46CZ09**
CZ-93BPG02	CZ93-K2	147N	29.4N	6 mm	28mm	10 / 100	**46CZ10**
CZ-93CPG02	CZ93-K2	147N	29.4N	6 mm	28mm	10 / 100	**46CZ11**
CZ-93BPG03	CZ93-K3	147N	29.4N	6 mm	28mm	10 / 100	**46CZ12**
CZ-93CPG03	CZ93-K3	147N	29.4N	6 mm	28mm	10 / 100	**46CZ13**

Type	Key Actuating	Packing / Box (pcs)	Catalogue number
CZ 93 - K 1	Horizontal	1 / 100	**46CZ931**
CZ 93 - K 2	Vertical	1 / 100	**46CZ932**
CZ 93 - K 3	Adjustable	1 / 100	**46CZ933**

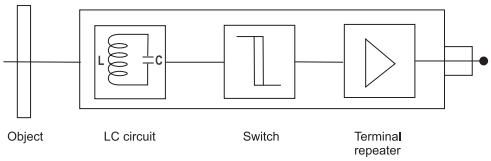
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

ALL-PURPOSE PROXIMITY SWITCH – SERIES LM XX

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Proximity induction sensors are all-purpose switches used in machine systems and equipment for no contact surveillance of metal elements motion. They can also be used in other machine systems applications as no contact control sensors for level of liquids, control sensors for the speed and position of rotating chains, etc. They are developed on the base of PNP and NPN transition. They have small dimensions and feature a metal cylindrical shell resistant to vibrations and a plastic lid which is oil and water resistant.

- Insulating resistance: ≥ 50 M Ω
- Gearing distance: from 2 mm to 7 mm
- Precision of repetition: 0.01
- Ambient temperature: -25˚C to +65˚C
- Gearing speed: 5mm/s
- Rated voltage: 6~36VDC; 90~230VAC
- IP code: IP 67





EL-LM8



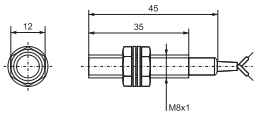
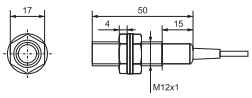
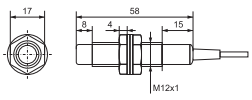
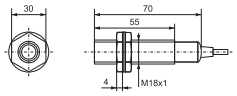
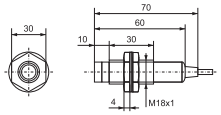
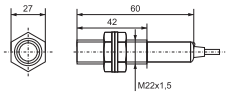
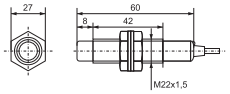
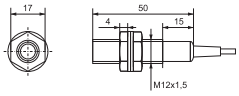
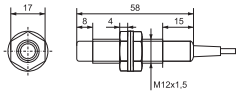
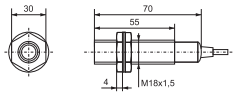
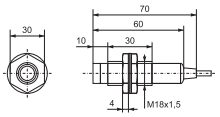
EL-LM12



EL-LM18



EL-LM22

	Type	Start distance (mm)	Power supply voltage	Type of transition	Type of contact	Output load	Packing / Box (pcs)	Catalogue number
	EL-LM8-3002NA	2	15~30 VDC	NPN	NO	130 mA	2 / 200	**46LM 8-32NA**
	EL-LM8-3002NB	2	15~30 VDC	NPN	NC	130 mA	2 / 200	**46LM 8-32NB**
	EL-LM8-3002PA	2	15~30 VDC	PNP	NO	130 mA	2 / 200	**46LM 8-32PA**
	EL-LM8-3002PB	2	15~30 VDC	PNP	NC	130 mA	2 / 200	**46LM 8-32PB**
	EL-LM8-2002A	2	90~230VAC	SCR	NO	150 mA	2 / 200	**46LM 8-22A**
	EL-LM12-3004NA	4	15~30 VDC	NPN	NO	200 mA	2 / 200	**46LM 12-34NA**
	EL-LM12-3004NB	4	15~30 VDC	NPN	NC	200 mA	2 / 200	**46LM 12-34NB**
	EL-LM12-3004PA	4	15~30 VDC	PNP	NO	200 mA	2 / 200	**46LM 12-34PA**
	EL-LM12-3004PB	4	15~30 VDC	PNP	NC	200 mA	2 / 200	**46LM 12-34PB**
	EL-LM12-2004A	4	90~230VAC	SCR	NO	300 mA	2 / 200	**46LM 12-24A**
	EL-LM18-3008NA	8	15~30 VDC	NPN	NO	200 mA	1 / 100	**46LM 18-38NA**
	EL-LM18-3008NB	8	15~30 VDC	NPN	NC	200 mA	1 / 100	**46LM 18-38NB**
	EL-LM18-3008PA	8	15~30 VDC	PNP	NO	200 mA	1 / 100	**46LM 18-38PA**
	EL-LM18-3008PB	8	15~30 VDC	PNP	NC	200 mA	1 / 100	**46LM 18-38PB**
	EL-LM18-2008A	8	90~230VAC	SCR	NO	300 mA	1 / 100	**46LM 18-28A**
	EL-LM22-3010NA	10	15~30 VDC	NPN	NO	200 mA	1 / 100	**46LM 22-30NA**
	EL-LM22-3010NB	10	15~30 VDC	NPN	NC	200 mA	1 / 100	**46LM 22-30NB**
	EL-LM22-3010PA	10	15~30 VDC	PNP	NO	200 mA	1 / 100	**46LM 22-30PA**
	EL-LM22-3010PB	10	15~30 VDC	PNP	NC	200 mA	1 / 100	**46LM 22-30PB**
	EL-LM22-2010A	10	90~230VAC	SCR	NO	300 mA	1 / 100	**46LM 22-20A**
	EL-LM12-4002A	2	230VAC	inductive	NO	100 mA	2 / 200	**46LM 12-44A**
	EL-LM12-4004A	4	230VAC	inductive	NO	300 mA	2 / 200	**46LM 12-46A**
								
	EL-LM18-4006A	5	230VAC	inductive	NO	100 mA	1 / 100	**46LM 18-44A**
	EL-LM18-4008A	8	230VAC	inductive	NO	300 mA	1 / 100	**46LM 18-48A**
								

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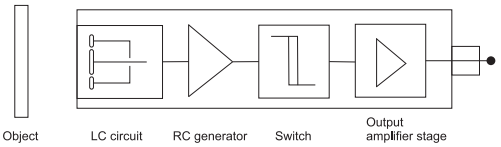
CAPACITIVE SENSORS – SERIES CM XX

3+0 standard +extended 3 YEAR TOTAL WARRANTY


EL-CM12

Capacitive sensors are used in machine systems and equipment for no-contact motion surveillance. They consist of two coaxial electrodes, a condenser and RC generator. This type of sensors reacts to both metal and non-metal objects, as the gearing distance for non-metal objects depends on their dielectric constants. They allow gearing distance adjustment for non-magnetic conductive materials. They are developed on the base of PNP and NPN transition. They have small dimensions and feature a metal cylindrical shell resistant to vibrations and a plastic lid which is oil and water resistant.

- Insulating resistance: ≥ 50 M Ω
- Gearing distance: from 2 mm to 15 mm
- Precision of repetition: 0.01
- Ambient temperature: -25˚C to +65˚C
- Gearing speed: 5mm/s
- Rated voltage: 6~36VDC; 90~230VAC
- IP code: IP 54

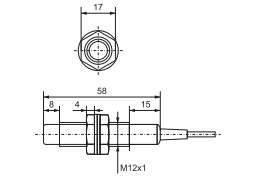
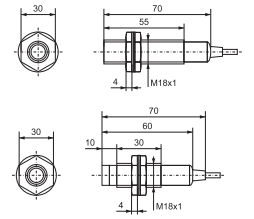
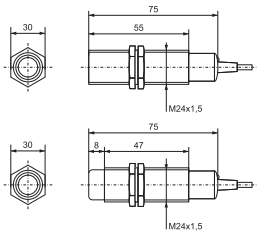
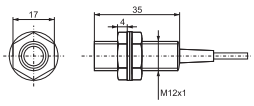
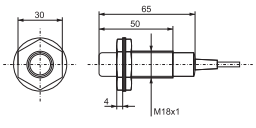



EL-CM18


EL-CM24


EL-SM12


EL-XM24

	Type	Start distance (mm)	Power supply voltage	Type of transition	Type of contact	Output load	Packing / Box (pcs)	Catalogue number
	EL-CM12-3004NA	0~4	15~30 VDC	NPN	NO	200 mA	1/100	**46CM 12-32NA**
	EL-CM12-3004NB	0~4	15~30 VDC	NPN	NC	200 mA	1/100	**46CM 12-32NB**
	EL-CM12-3004PA	0~4	15~30 VDC	PNP	NO	200 mA	1/100	**46CM 12-32PA**
	EL-CM12-3004PB	0~4	15~30 VDC	PNP	NC	200 mA	1/100	**46CM 12-32PB**
	EL-CM18-3008NA	0~8	15~30 VDC	NPN	NO	200 mA	1/100	**46CM 18-38NA**
	EL-CM18-3008NB	0~8	15~30 VDC	NPN	NC	200 mA	1/100	**46CM 18-38NB**
	EL-CM18-3008PA	0~8	15~30 VDC	PNP	NO	200 mA	1/100	**46CM 18-38PA**
	EL-CM18-3008PB	0~8	15~30 VDC	PNP	NC	200 mA	1/100	**46CM 18-38PB**
	EL-CM18-2008A	0~8	90~230VAC	SCR	NO	300 mA	1/100	**46CM 18-28A**
	EL-CM24-3012NA	8	15~30 VDC	NPN	NO	200 mA	1/100	**46CM 24-12NA**
	EL-CM24-3012NB	8	15~30 VDC	NPN	NC	200 mA	1/100	**46CM 24-12NB**
	EL-CM24-3012PA	8	15~30 VDC	PNP	NO	200 mA	1/100	**46CM 24-12PA**
	EL-CM24-3012PB	8	15~30 VDC	PNP	NC	200 mA	1/100	**46CM 24-12PB**
	EL-CM24-2012A	8	90~230VAC	SCR	NO	300 mA	1/100	**46CM 24-12A**
	EL-SM12-3110NA	10	15~30 VDC	NPN	NO	200 mA	2/200	**46SM 12-31NA**
	EL-SM12-3110NB	10	15~30 VDC	NPN	NC	200 mA	2/200	**46SM 12-31NB**
	EL-SM18-3110PA	10	15~30 VDC	PNP	NO	200 mA	1/100	**46SM 18-31PA**
	EL-SM18-3110PB	10	15~30 VDC	PNP	NC	200 mA	1/100	**46SM 18-31PB**
	EL-XM18-305PMI	5	15~30 VDC	inductive	NO	100 mA	1/100	**46XM 18-35A**
	EL-XM18-305PMU	5	15~30 VDC	inductive	NC	100 mA	1/100	**46XM 18-35B**
	Note: Sensor of Hall							
	EL-XM24-308PMI	8	15~30 VDC	inductive	NO	300 mA	1/100	**46XM 24-38A**
	EL-XM24-308PMU	8	15~30 VDC	inductive	NC	300 mA	1/100	**46XM 24-38B**

Note: MI - current type; MU - voltage type

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

PHOTOELECTRICAL SENSOR

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Photoelectrical sensors of the Gxx series are all-purpose switches used in machine systems and equipment for no contact surveillance of motion of elements. They are based on the photoelectric principle of operation – inside the sensor there is a photo signal emitter and receiver of the returned signal. There are three types of sensors: diffuse sensors, reflector sensors and emitter-receiver sensors. These types of sensors differ in the way of returning the signal. They allow for gearing distance adjustment. They are developed on the base of PNP and NPN transition. They have small dimensions and feature a metal cylindrical shell resistant to vibrations and a plastic lid which is oil and water resistant.



EL-G12



EL-G18



EL-G30



EL-G35



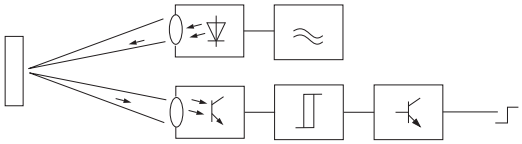
EL-G50

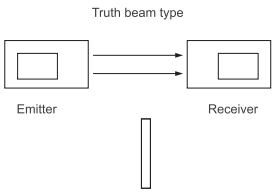


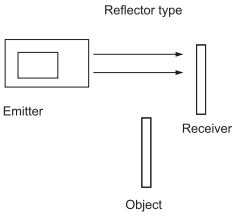
EL-BZJ

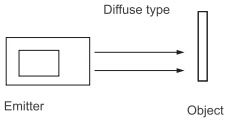
TECHNICAL FEATURES:

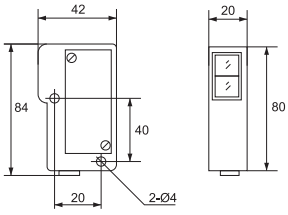
- Power supply voltage: 15~30 VDC
- Insulating resistance: ≥ 50 M Ω
- Gearing distance: from 2 mm to 7 mm
- Precision of repetition: 0.01
- Ambient temperature: -25˚C to +65˚C
- Gearing speed: 5mm/s
- Rated voltage: 6~36VDC; 90~230VAC
- IP code: IP 67

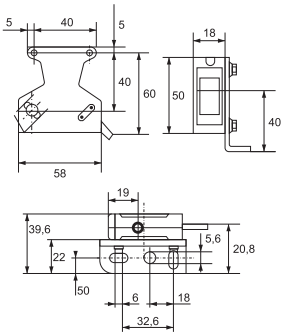












Type	Start distance	Type of transition	Type of contact	Type of sensor	Packing / Box (pcs)	Catalogue number
EL-G12-3A07NA	70 mm	NPN	Ø12; l=50	Diffuse	1 / 100	**46G12A071**
EL-G12-3A07PA	70 mm	PNP	Ø12; l=50	Diffuse	1 / 100	**46G12A072**
EL-G12-3C3NA	3 m	NPN	Ø12; l=50	Truth beam	1 / 100	**46G123C11**
EL-G12-3C3PA	3 m	PNP	Ø12; l=50	Truth beam	1 / 100	**46G123C12**
EL-G18-3A10NA	100 mm	NPN	Ø18; l=70	Diffuse	1 / 100	**46G18A101**
EL-G18-3A10PA	100 mm	PNP	Ø18; l=70	Diffuse	1 / 100	**46G18A102**
EL-G18-3B2NA	2 m	NPN	Ø18; l=70	Reflector	1 / 100	**46G183B11**
EL-G18-3B2PA	2 m	PNP	Ø18; l=70	Reflector	1 / 100	**46G183B12**
EL-G18-3C5NA	5 m	NPN	Ø18; l=70	Truth beam	1 / 100	**46G185C11**
EL-G18-3C5PA	5 m	PNP	Ø18; l=70	Truth beam	1 / 100	**46G185C12**
EL-G30-3A70NA	500 mm	NPN	Ø22; l=70	Diffuse	1 / 100	**46G30A101**
EL-G30-3A70PA	500 mm	PNP	Ø22; l=70	Diffuse	1 / 100	**46G30A102**
EL-G30-3B3NA	3 m	NPN	Ø22; l=70	Reflector	1 / 100	**46G303B11**
EL-G30-3B3PA	3 m	PNP	Ø22; l=70	Reflector	1 / 100	**46G303B12**
EL-G30-3C101NA	10 m	NPN	Ø22; l=70	Truth beam	1 / 52	**46G305C11**
EL-G30-3C101PA	10 m	PNP	Ø22; l=70	Truth beam	1 / 52	**46G305C12**
EL-G35-3A50NA	500 mm	NPN	NO	Diffuse	1 / 100	**46G35A101**
EL-G35-3A50PA	500 mm	PNP	NO	Diffuse	1 / 100	**46G35A102**
EL-G35-3B3NA	3 m	NPN	NO	Reflector	1 / 100	**46G353B11**
EL-G35-3B3PA	3 m	PNP	NO	Reflector	1 / 100	**46G353B12**
EL-G35-3C5NA	5 m	NPN	NO	Truth beam	1 / 50	**46G355C11**
EL-G35-3C5PA	5 m	PNP	NO	Truth beam	1 / 50	**46G355C12**
EL-G50-3A30NA	500 mm	NPN	NO	Diffuse	1 / 100	**46G50A101**
EL-G50-3A30PA	500 mm	PNP	NO	Diffuse	1 / 100	**46G50A102**
EL-G50-3B4NA	4 m	NPN	NO	Reflector	1 / 100	**46G503B11**
EL-G50-3B4PA	4 m	PNP	NO	Reflector	1 / 100	**46G503B12**
EL-G50-3C5NA	5 m	NPN	NO	Truth beam	1 / 50	**46G505C11**
EL-G50-3C5PA	5 m	PNP	NO	Truth beam	1 / 50	**46G505C12**
EL-BZJ-211	10 mm	Reflector	NO	Colour detector	1 / 50	**46BZJ211**
EL-BZJ-311	9mm	Reflector	NO	Colour detector	1 / 50	**46BZJ311**
EL-BZJ-411	9mm	Reflector	NO	Colour detector	1 / 50	**46BZJ411**

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POWER SUPPLIES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The DRP-xx-xx series of power supplies are voltage reduction and rectification units ideally suited to provide stable power supply of systems and equipment for contact-free movement monitoring elements (such as inductive, capacity and photo sensors, logic elements and systems, etc.). They have small overall dimensions and can be installed on a DIN rail. The power units have metal or plastic cases resistant to vibrations and plastic oil- and waterproof covers. They are able to provide stable output voltage at comparatively fluctuating input voltage. Devices have built-in overload and short circuit protection, allowing short time overload of up to 130%. Power supplies are available with various output voltages (5, 12, 15 and 24 V DC) and different output power rates.

TECHNICAL SPECIFICATIONS:
- Input voltage: 80 ~ 230V AC
- Over-voltage: 115 ~ 135% of the rated output voltage
- Overload: 120 ~ 120% of the rated output power
- Terminals: Input – 2 screw terminals; Output: 4 screw terminals;
- IP code: IP44
- Power indicator
- Installation: DIN rail
- Cooling: Free air cooling convection



Type	Output Voltage (V)	Output (A)	Load Tolerance	Power (W)	Dimensions W/H/L (mm)	Packing / Box (pcs)	Catalogue number
DR - 45 -5	5	5	±2%	25	78 / 93 / 56	1 / 50	**46DR455**
DR - 45 - 12	12	3.5	±1%	42	78 / 93 / 56	1 / 50	**46DR4512**
DR - 45 - 15	15	2.8	±1%	42	78 / 93 / 56	1 / 45	**46DR4515**
DR - 45 - 24	24	2	±1%	48	78 / 93 / 56	1 / 16	**46DR4524**

Type	Output Voltage (V)	Output (A)	Load Tolerance	Power (W)	Dimensions W/H/L (mm)	Packing / Box (pcs)	Catalogue number
DR - 75 -12	12	6.3	±2%	75	55.5 / 125.3 / 100	1 / 18	**46DR7512**
DR - 75 - 24	24	3.2	±1%	75	55.5 / 125.3 / 100	1 / 18	**46DR7524**
DRP - 240 - 24	24	10	±1%	240	125.5 / 125.3 / 100	1 / 12	**46DR2424**



FLOAT SWITCHES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Float switches of the type QW-xx-xx are sealed units for direct pump control. They are intended for continuous liquid level maintenance in pools, tanks or ponds exercised through direct control of the pumping in or out process in the respective reservoir. They are pre-wired and depending on the chosen configuration can control either the pumping in, or pumping out of the reservoir. They allow direct control of single phase pumps with mounted power of 1 kW. Float switches are waterproof.
The automatic level control units of the DHC1Y-xx series are intended for mounting on pumping control panels. They do not use any additional sensors, but conductive probes to contact the liquid. The unit sends low (harmless) voltage signals to the probes and once a contact between a probe and liquid is established, the unit changes its contactors' state. Units are available in three variants with different number of control contacts suitable for different applications. Each contact can transfer current of up to 5A, which is enough to ensure control over the powerful pumps' contactors or to directly control pumps with mounted power of 1 kW. The automatic level control units can be installed on a DIN rail.



QW - 70AB



QW - M 15 - 3

Type	Number of probes (No. of levels)	Output (A)	Load Accuracy	Operating Voltage (V)	Note	Packing / Box (pcs)	Catalogue number
DHC1Y - S	1	5	±1%	230	-	100	**46DW001**
DHC1Y - SD	3	5	±1%	230	-	100	**46DW002**
DHC1Y - T	1	5	±1%	230	2 pumps control	100	**46DW003**

Type	Number of probes (No. of levels)	Output (A)	Load Accuracy	Operating Voltage (V)	Note	Packing / Box (pcs)	Catalogue number
QW - M 15 - 3	2	6	±1%	230	-	1 / 30	**46DW004**
QW - 70AB	2	4	±1%	230	-	1 / 20	**46DW005**

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Documents corresponding to the product: Standard: EN 60947-1; EN 60947-3-1



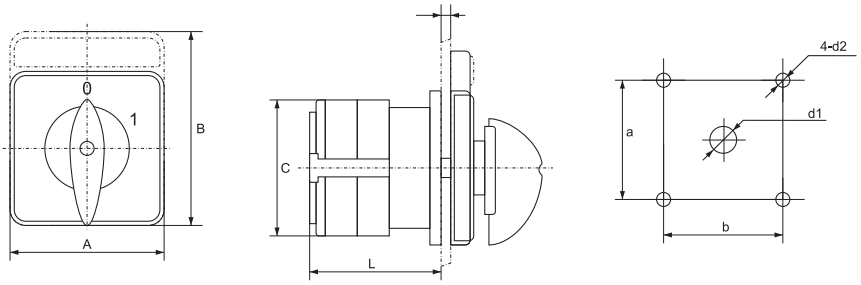
ROTARY SWITCHES LW26 SERIES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The rotary switches LW26 series are produced for switching on/off electrical circuits with commutated current from 20 to 160A. They are designed on the bases of the rotor-eccentric switching on which is realized through turning of the handle to 60 or 90 degrees. The normal operation is used for commutation of two, three or four conductor systems. There are special rotary switches that switch on under given connection schemes and are used to control motors, electric welding machines and other consumers.

TECHNICAL DATA:
- Power supply voltage: 230/400V; 50Hz
- Insulation voltage: 690V
- Impulse voltage wear resistance: 6000V
- Mechanical wear resistance: 3x105 commutation cycles
- Operating temperature: -10 ÷ +65°C
- Humidity: 35 – 85% RH
- Commuting capacity: up to 160A according to the tables
- Plastic: UV rays wear resistance
- IP code:
  - IP42 for the ordinary breakers mounted in a panel
  - IP65 for the breakers offered in a box
- Cable connection: screw joining
- Tightening moment of the bolt: 1.33N
- Maximum section of the power supply conductors: according to the dimensions table
- Weight: according to the number of the contacts

MOUNTING:
- directly to the control panel
- thickness of the surface to which it is mounted: max 5mm



Type	Front panel	Joining conductor (mm^2)	Overall dimensions (mm)				Mounting dimensions (mm)			
			A	B	C	L	a	b	d1	d2
LW26-20	M1 panel	1x2.5	48	48	43	22 + 9.6n	36	36	Ø8.5	Ø4.5
	M1 panel with inscription field		48	60	43	22 + 9.6n	36	36	Ø8.5	Ø4.5
LW26-25	M1 panel	1x4.0	48	48	45.2	23+12.8n	36	36	Ø8.5	Ø4.5
LW26-32	M2 panel	1x6.0	64	64	58	29.2 + 12.8n	48	48	Ø10	Ø4.5
LW26-63	M2 panel	1x16	64	64	66	29.2 + 21.5n	48	48	Ø10	Ø4.5
LW26-125	M3 panel	1x35	88	88	84	35 + 26.5n	68	68	Ø13	Ø6
LW26-160	M3 panel	1x50	88	88	88	35 + 32.5n	68	68	Ø13	Ø6

*** n** - number of modules

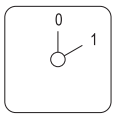


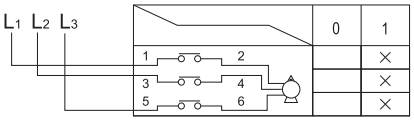
Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW26 - 10Q	Q10 three-poles switching on; motor starting and stopping; voltage turning on/off to the consumers	10	2	1 / 100	**492101**
LW26 - 16Q		16	2	1 / 100	**492161**
LW26 - 20Q		20	2	1 / 100	**492201**
LW26 - 25Q		25	2	1 / 100	**492251**
LW26 - 32Q		32	2	1 / 72	**492321**
LW26 - 63Q		63	2	1 / 30	**492631**
LW26 - 125Q		125	2	1 / 24	**492951**
LW26 - 160Q		160	2	1 / 27	**492961**

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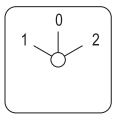
Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW26GS - 20/04	Q11 three-poles switching over; motor starting and stopping; voltage turning on/off to the consumers; possibility for access control	20	2	1 / 100	**492207**
LW26GS - 25/04		25	2	1 / 100	**492257**
LW26GS - 32/04		32	2	1 / 72	**492327**
LW26GS - 63/04		63	2	1 / 30	**492637**

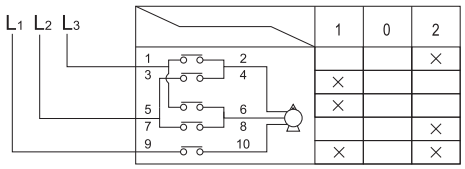






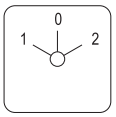
Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW26 - 20N	N11 3-position – 2 start positions and 1 stop;for motor reversing	20	3	1 / 100	**492202**
LW26 - 25N		25	3	1 / 100	**492252**
LW26 - 32N		32	3	1 / 64	**492322**
LW26 - 63N		63	3	1 / 48	**492632**
LW26 - 125N		125	3	1 / 24	**492952**
LW26 - 160N		160	3	1 / 18	**492962**

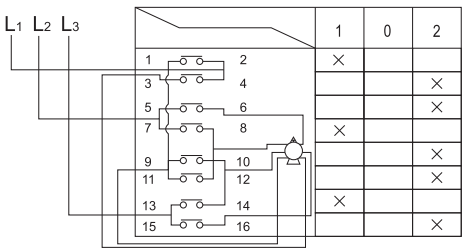






Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW26 - 25S	S19 3-position – 2 start positions and 1 stop; for two speed motor control; switching over between charging*	25	4	1 / 100	**492253**
LW26 - 63S		63	4	1 / 30	**492633**
LW26 - 125S		125	4	1 / 24	**492953**
LW26 - 160S		160	4	1 / 18	**492963**

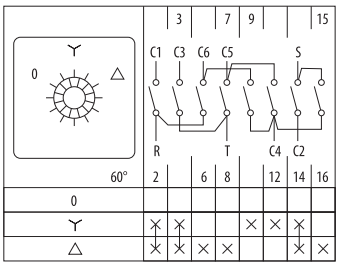




Note: It is necessary that additional bridges be placed at switching over between charging



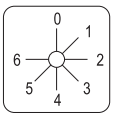
Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW26 - 25 SD	S21 3-position switching on star/delta	25	4	1 / 100	**492025**
LW26 - 63 SD		63	4	1 / 30	**492063**

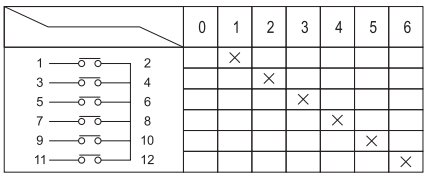


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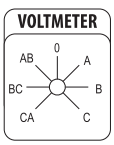
Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW26 - 32H 5881/3	H5881/3 – 85 for welding transformer windings switching over	32	3	1 / 64	**492324**
LW26 - 63H 5881/3		63	3	1 / 48	**492634**

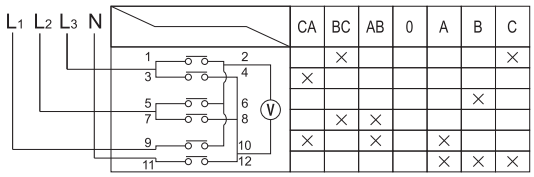






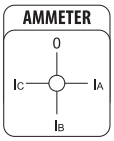
Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW26 - 20 YH5/3	YH5/3 - 66 for voltage switching over	20	3	1 / 72	**492205**

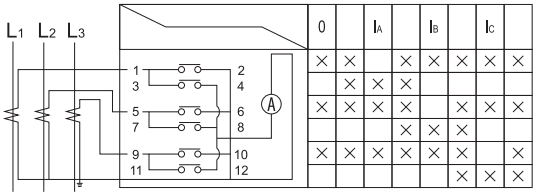






Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW26 - 20 LH3/3	LH3/3 - 58 for amperemeter switching on to current transformers	20	3	1 / 100	**492206**





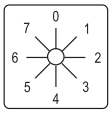


Type	Scheme	IP code:	Packing / Box (pcs)	Catalogue number
LW26 - 20-25-Q	Box for LW26-20/25	IP 42	1 / 68	**492037**
LW26 - 32-Q	Box for LW26-32	IP 42	1 / 30	**492038**
LW26 - 20-25-DIN	Adaptor for DIN-rail for LW26-20/25		15 / 1500	**492039**

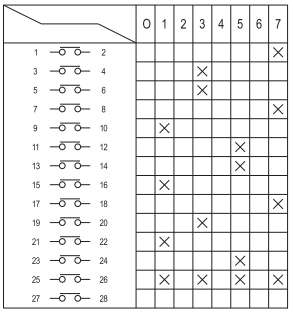
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Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW26 4.I7168/7	4.I7168/7	20	7	1 / 100	**492028**

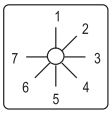


4.I7168/7

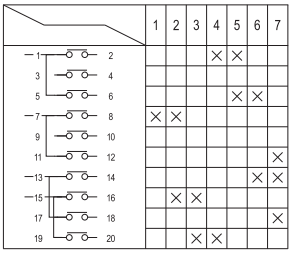


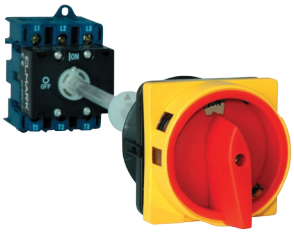


Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW26 4.H6518/5	4.H6518/5	25	5	1 / 100	**492029**



4.H6518/5

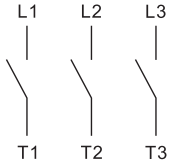




Type	Scheme	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW30-20	LW30-20	20	3	1 / 32	**492030**
LW30-32	LW30-32	32	3	1 / 32	**492031**
LW30-40	LW30-40	40	3	1 / 32	**492033**
LW30-63	LW30-63	63	3	1 / 32	**492034**

* Possibility for access control

LW30-20-100A
ON/OFF switch 3 poles

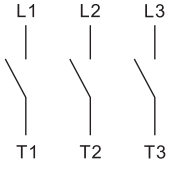




Type	Scheme	IP code:	In (A)	Levels	Packing / Box (pcs)	Catalogue number
LW30-32	LW30-32	IP54	32	3	1 / 30	**492032**

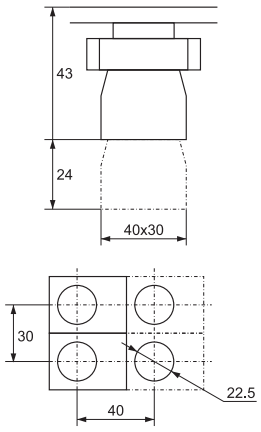
* Possibility for access control

LW30-20-100A
ON/OFF switch 3 poles



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product: Standard: EN 60947-1; EN 60947-5-1



Overall dimensions
Diagram for drill the openings

BUTTONS AND LED INDICATORS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

These are devices used in control and indication systems, command boards and panels in industrial automation systems. They are manufactured to commutate controlling circuits and to control the switching on or off executive mechanisms such as relays, contactors, etc. The signal lamps and indicators find broad application in all industrial fields. The devices endure short time current overload up to 10A, and normally they can commutate thermal current up to 6A in their contact system. The connection to the contact terminals is through screw terminals to which operational conductors with section up to 2.5mm^2 can be joined.

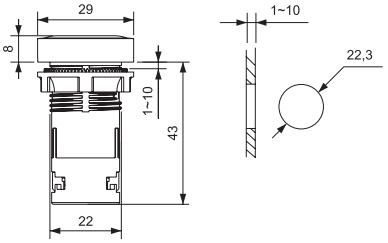
DOCUMENTATION CORRESPONDING TO THE PRODUCT:
- Standard: EN 60947-1; EN 60947-5-1

TECHNICAL DATA:
- Insulation voltage: 660V; 50/60Hz
- Impulse voltage wear resistance: 6000V;
- Rated current: 6A (230V AC); 0.3A (230V DC)
- Short circuit protection: safety device 10A gG outside in the circuit
- Mechanical wear resistance: 1x106 commutation cycles
- Power of mechanical compression:
  - at closing: 20N
  - at opening: 8N
- Operating temperature: -20 - +65°C
- Humidity: 35 – 85%RH
- Tightening moment of the joining conductors: 0.15Nm
- Section of the conductor: 1x0.5; 1x0.75; 1x1; 1x1.5; 1x2.5mm^2

MOUNTING:
- to a flat metal or plastic surface with thickness: max 4mm
- opening with size: Ø 22.5mm



Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Packing / Box (pcs)	Catalogue number
EL-EA25	Button round with spring reverse	NO+NC	6	black	10/500	**401025**
EL-EA31		NO	6	green	10/500	**401030**
EL-EA42		NC	6	red	10/500	**401040**

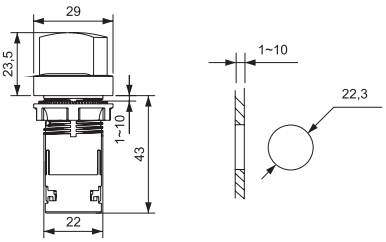




Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Packing / Box (pcs)	Catalogue number
EL-EA25	Button round with spring reverse and silicon lid- IP44	NO+NC	6	black	10/500	**401026**
EL-EA31		NO	6	green	10/500	**401033**
EL-EA42		NC	6	red	10/500	**401041**



Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Packing / Box (pcs)	Catalogue number
EL-ED25	Switch with arrest	NO+NC	6	black	10/500	**401425**

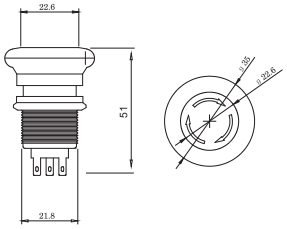


In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Description	Type of contacts	Rated current (A) at 230V	Colour	Diameter (mm)	Note	Packing / Box (pcs)	Catalogue number
EL-2211T	Button with head "mushroom" type	1NO+1NC	5	red	22	release with spinning	20/800	**401546**

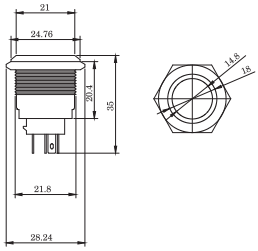
Material: Stainless steel | Chromium plated brass| IP65





Type	Description	Type of contacts	Rated current (A) at 230V	Colour	Diameter (mm)	Packing / Box (pcs)	Catalogue number
EL-2211DZR	Button round with LED indicator-latching	1NO+1NC	5	red	22	20/800	**401547**
EL-2211DZG		1NO+1NC	5	green	22	20/800	**401548**

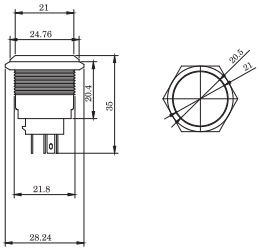
Material: Stainless steel | Chromium plated brass| IP65





Type	Description	Type of contacts	Rated current (A) at 230V	Diameter (mm)	Packing / Box (pcs)	Catalogue number
EL-2211F	Button round momentary	1NO+1NC	5	22	20/800	**401549**

Material: Stainless steel | Chromium plated brass| IP65

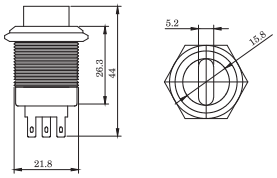


In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Description	Type of contacts	Rated current (A) at 230V	Colour	Diameter (mm)	Note	Packing / Box (pcs)	Catalogue number
EL-22X2	Two position Switch with arrest	1NO+1NC	5	red	22	release with spinning	20/800	**401550**

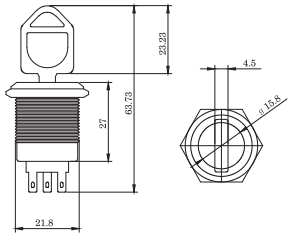
Material: Stainless steel | Chromium plated brass| IP65





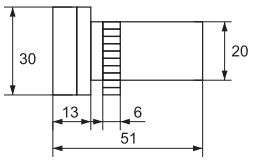
Type	Description	Type of contacts	Rated current (A) at 230V	Colour	Diameter (mm)	Packing / Box (pcs)	Catalogue number
EL-22Y2	Two position Key Switch with arrest	1NO+1NC	5	red	22	20/800	**401551**
EL-22Y3	Three position Key Switch with arrest	2NO+2NC	5	green	22	20/800	**401552**

Material: Stainless steel | Chromium plated brass| IP65



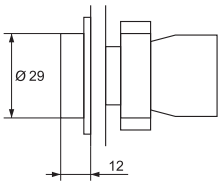
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.





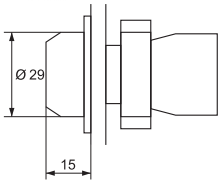
Type	Description	Voltage (V)	Colour	Packing / Box (pcs)	Catalogue number
AD56-22-W-230	LED indicators	230V AC	white	10 / 500	**401123**
AD56-22-W-110		110V AC	white	10 / 500	**401111**
AD56-22-W-24		24V AC/DC	white	10 / 500	**401124**
AD56-22-A-110		110V AC	amber	10 / 500	**401211**
AD56-22-A-24		24V AC/DC	amber	10 / 500	**401224**
AD56-22-A-230		230V AC	amber	10 / 500	**401223**
AD56-22-PG-230		230V AC	green	10 / 500	**401323**
AD56-22-PG-110		110V AC	green	10 / 500	**401311**
AD56-22-PG-24		24V AC/DC	green	10 / 500	**401324**
AD56-22-B-230		230V AC	blue	10 / 500	**401523**
AD56-22-B-110		110V AC	blue	10 / 500	**401511**
AD56-22-B-24		24V AC/DC	blue	10 / 500	**401524**
AD56-22-Y-230		230V AC	yellow	10 / 500	**401723**
AD56-22-Y-110		110V AC	yellow	10 / 500	**401711**
AD56-22-Y-24		24V AC/DC	yellow	10 / 500	**401724**
AD56-22-R-230		230V AC	red	10 / 500	**401423**
AD56-22-R-110		110V AC	red	10 / 500	**401411**
AD56-22-R-24		24V AC/DC	red	10 / 500	**401424**





Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Packing / Box (pcs)	Catalogue number
EL 2- BA 21	Button round with spring reverse	NO	6	black	20 / 300	**401021**
EL 2- BA 31		NO	6	green	20 / 300	**401031**
EL 2- BA 51		NO	6	yellow	20 / 300	**401051**
EL 2- BA 61		NO	6	blue	20 / 300	**401061**
EL 2- BA 42		NC	6	red	20 / 300	**401042**





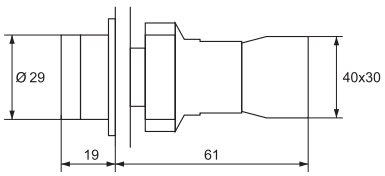
Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Note	Packing / Box (pcs)	Catalogue number
EL 2- BP 31	Button round with spring reverse	NO	6	green	IP=65 Provided from silicon lid	20 / 300	**401032**
EL 2- BP 42		NC	6	red	IP=65 Provided from silicon lid	20 / 300	**401043**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

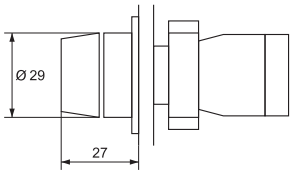


Type	Description	Voltage (V)	Rated current (A) at 400V	Colour	Packing / Box (pcs)	Catalogue number
EL 2- BW3471	Button round with spring reverse and LED indicator	24V	6	red	20 / 200	**401474**
EL 2- BW3371		24V	6	green	20 / 200	**401374**
EL 2- BW3571		24V	6	yellow	20 / 200	**401574**
EL 2- BW3671		24V	6	blue	20 / 200	**401674**
EL 2- BW3471		110V	6	red	20 / 200	**401473**
EL 2- BW3371		110V	6	green	20 / 200	**401373**
EL 2- BW3571		110V	6	yellow	20 / 200	**401573**
EL 2- BW3671		110V	6	blue	20 / 200	**401673**
EL 2- BW3471		230V	6	red	20 / 200	**401471**
EL 2- BW3371		230V	6	green	20 / 200	**401371**
EL 2- BW3571		230V	6	yellow	20 / 200	**401571**
EL 2- BW3671		230V	6	blue	20 / 200	**401671**



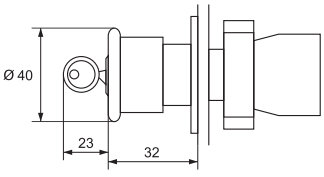


Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Note	Packing / Box (pcs)	Catalogue number
EL 2- BD 21	Switch with arrest	1NO	6	black	two-position	20 / 200	**401421**
EL 2- BD 33		2NO	6	black	three-position	20 / 200	**401433**





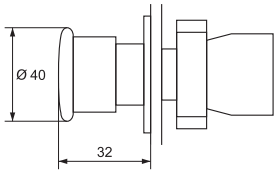
Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Note	Packing / Box (pcs)	Catalogue number
EL2-BS 142	Button with head "mushroom" type and with key	NC	6	red	release with spinning	15/150	**401142**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Note	Packing / Box (pcs)	Catalogue number
EL 2- BC 42	Button with head "mushroom" type	1NC	6	red	spring reverse	15 / 150	**401642**

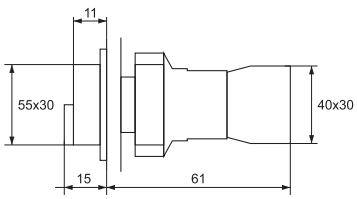


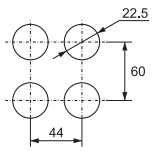


Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Note	Packing / Box (pcs)	Catalogue number
EL 2- BS 545	Button with head "mushroom" type	1NC + 1NO	6	red	release with spinning	15 / 150	**401545**



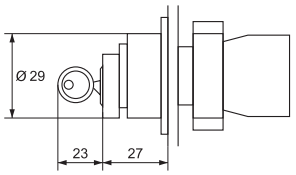
Type	Description	Type of contacts	Rated current (A) at 400V	Voltage (V)	Note	Packing / Box (pcs)	Catalogue number
EL 2- BW8475	Button double	1NO+1NC	6	24 AC	Green and red button + LED indicator	20 / 200	**401844**
EL 2-BW8475	Button double	1NO+1NC	6	230 AC	Green and red button+LED indicator	20/200	**401845**







Type	Description	Type of contacts	Rated current (A) at 400V	Note	Packing / Box (pcs)	Catalogue number
EL 2- BG 21	Change-over switch with switch	1NO	6	two-position with switch	20 / 200	**401121**





Type	Description	Type of contacts	Colour	Packing / Box (pcs)	Catalogue number
EL02 - BE101	1	1 NO	green	100 / 1000	**401001**
EL02 - BE102	2	1 NC	red	100 / 1000	**401002**

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BUTTONS AND LED INDICATORS

2+0 standard +extended 2 YEAR TOTAL WARRANTY



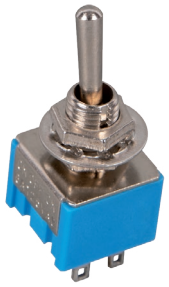
Type	Description	Voltage (V)	Rated current (A)	LED colour	Packing / Box (pcs)	Catalogue number
ASW-13	Toggle Switch ON-OFF SPST	12 VDC	20	red	1	**M519114**

Function: ON/OF | Leads: 3 | Body dimensions: 30.5 x 13.5 x 22mm | Mounting hole diameter - 12 mm| Toggle height - 27 mm | Operating temperature -from - 25 ºC to + 85 ºC



Type	Description	Voltage (V)	Rated current (A)	Packing / Box (pcs)	Catalogue number
SMTS 102	Switch ON-OFF	250 VAC	1	1	**M030210**

Function: ON/OF | Positions: 2 | Leads: 3 | Mounting hole diameter - 7 mm | Body dimensions - 8 x 13x 10 | Toggle height: 11 mm | Operating temperature: -25 ˚C ÷ +85 ˚C



Type	Description	Voltage (V)	Rated current (A)	Packing / Box (pcs)	Catalogue number
MTS203	Switch ON-OFF- ON	250 VAC	3	1	**M030123**

Function: ON/OF/ON | Positions: 3 | Leads: 6 | Mounting hole diameter - M6 x 0.75 mm | Body dimensions -13.2 x 12.7 x 9.5 | Toggle height: 11 mm | Operating temperature: -25˚C ÷ +85 ˚C



Type	Description	Voltage (V)	Rated current (A)	Packing / Box (pcs)	Catalogue number
MTS201	Switch ON-OFF	250 VAC	15	1	**M030221**

Function: ON/OF | Positions: 2 | Leads: 4 screw terminals Contacts | Mounting hole diameter: 12 mm | Body dimensions -34 x 23 x 41 | Toggle height: 18 mm | Operating temperature: -25˚C ÷ +85 ˚C

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



Type	Description	Voltage (V)	Rated current (A)	Packing / Box (pcs)	Catalogue number
MTS03A	Switch ON-OFF- ON	250 VAC	15	1	**M030059**

Function: ON/OF | Positions: 3 | Leads: 6 screw terminals Contacts | Mounting hole diameter: 12 mm | Body dimensions -34 x 23 x 41 | Toggle height: 18 mm | Operating temperature: -60˚C ÷ +85˚C



Type	Description	Voltage (V)	Rated current (A)	Colour	Packing / Box (pcs)	Catalogue number
V 144/B	Switch ON-OFF	250 VAC	5	white	1	**M300001**

Function: ON/OF | Leads: 3 | Body dimensions: 26.2 x 12 x 14.5 mm | Mounting hole - 29 x 11 mm | Operating temperature - up to 105°C



Type	Description	Voltage (V)	Rated current (A)	LED colour	Packing / Box (pcs)	Catalogue number
E-232	Switch ON-OFF	250 VAC	20	red	1	**M030232**

Function: ON/OF| Positions: 2 | Mounting hole size - 22 x 30 mm | Body dimensions - 32 x 25 x 30 mm | Operating temperature - up to 150° C



Type	Description	Voltage (V)	Rated current (A)	Colour	Packing / Box (pcs)	Catalogue number
RS102-8C	Switch ON-OFF	250 VAC	6.5	black	1	**M030208**

Function: ON/OF | Positions: 2 | Leads: 3 | Mounting hole diameter - 20 mm | Body dimensions - ϕ 23 x 17mm | Operating temperature - up to 105° C



Type	Description	Voltage (V)	Rated current (A)	LED colour	Packing / Box (pcs)	Catalogue number
MIRS-101-8C-3	Switch ON-OFF	250 VAC	6	red	1	**M030067**

Function: ON/OF | Positions: 2 | Leads: 3 | Mounting hole diameter - 20 mm | Body dimensions - ϕ 23 x 17mm | Operating temperature - up to 105° C

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



UNTIL SUPPLY **LAST**

Type	Description	Voltage (V)	Colour	Packing / Box (pcs)	Catalogue number
XB2-BV75	Signal lamp	230V AC	yellow	20 / 200	**401975**
XB2-BV76	Signal lamp	230V AC	blue	20 / 200	**401976**
XB2-BV77	Signal lamp	230V AC	colourless	20 / 200	**401977**



UNTIL SUPPLY **LAST**

Type	Description	Voltage (V)	Colour	Packing / Box (pcs)	Catalogue number
XB7-EV45	Button	230V AC	yellow	20 / 200	**401004**



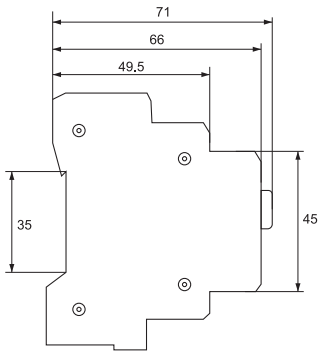
UNTIL SUPPLY **LAST**

Type	Description	Voltage (V)	Colour	Packing / Box (pcs)	Catalogue number
XB - BW - 3561	Button + LED indicator	230V AC	yellow	20 / 200	**401561**



Type	Description	Voltage (V)	Packing / Box (pcs)	Catalogue number
EL-1035	Glim indicator lamp	220 VAC	1	**M030015**

Shape and color of the indicator - oval, red | Dimensions - 10 mm x 30 mm | Base diameter: 10mm | Case colour: red | Conductor length: 20mm



Documents corresponding to the product: Standard EN 60947-1
EN 60 947-5-1 t

DIN-RAIL BUTTONS AND LED INDICATORS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

These are devices used in control and indication systems adjusted for mounting in command boards and panels directly on DIN-rail. They are manufactured to commutate controlling circuits and to control the switching on or off executive mechanisms such as relays, contactors, etc. The signal lamps and indicators find broad application in all industrial fields. The devices endure short time current overload up to 20A, and normally they can commutate current up to 10A with their contact system. The connection to the contact terminals is through screw terminals to which operational conductors with section up to 2.5mm^2 can be joined. There are also designed buttons combined with lamps.

TECHNICAL DATA:
- Insulation voltage: 660V; 50/60Hz
- Impulse voltage wear resistance: 6000V;
- Rated current: up to 10A (230V AC)
- Short circuit protection: safety device 10A gG outside in the circuit
- Rated consumed current (for indicators and buttons combined with indicators): <20mA
- wear resistance (indicators): >2000h
- Mechanical wear resistance (buttons): 1x106 commutation cycles
- Power of mechanical compression:
  - at closing: 20N
  - at opening: 8N
- Operating temperature: -20 - +65°C
- Humidity: 35 – 85%RH
- Tightening moment of the joining conductors: 0.15Nm
- Section of the conductor: 1x0.5; 1x0.75; 1x1; 1x1.5; 1x2.5mm^2
- Plastic: UV rays wear resistance

MOUNTING:
- to a DIN-rail
- Altitude: up to 2000m



Type	Description	Rated current (A) at 400V	Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
ELB - BL - DIN	button	<10	2NO+ 1 NC	black	12 / 240	**401505**
ELB - BL - DIN	button	<10	1NO+ 2 NC	black	12 / 240	**401506**
ELB - G - DIN	button	<10	2NO+ 1 NC	green	12 / 240	**401507**
ELB - G -DIN	button	<10	1NO+ 2 NC	green	12 / 240	**401508**
ELB - Y - DIN	button	<10	2NO+ 1 NC	yellow	12 / 240	**401509**
ELB - Y - DIN	button	<10	1NO+ 2 NC	yellow	12 / 240	**401510**
ELB - R - DIN	button	<10	2NO+ 1 NC	red	12 / 240	**401512**
ELB - R - DIN	button	<10	1NO+ 2 NC	red	12 / 240	**401513**



Type	Description	Voltage (V)	Rated current (A) at 400V	Colour	Packing / Box (pcs)	Catalogue number
ELD - G - DIN	lamp	230V	<20	green	12 / 240	**401500**
ELD - R - DIN	lamp	230V	<20	red	12 / 240	**401501**
ELD - Y - DIN	lamp	230V	<20	yellow	12 / 240	**401502**
ELD - B - DIN	lamp	230V	<20	blue	12 / 240	**401503**
ELD -W - DIN	lamp	230V	<20	white	12 / 240	**401504**



Type	Description	Voltage (V)	Rated current (A) at 400V	Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
ELBD - G - DIN	button + lamp	230V	<20	2NO+ 1 NC	green	12 / 240	**401514**
ELBD -G - DIN	button + lamp	230V	<20	1NO+ 2 NC	green	12 / 240	**401515**
ELBD - R - DIN	button + lamp	230V	<20	2NO+ 1 NC	red	12 / 240	**401516**
ELBD - R - DIN	button + lamp	230V	<20	1NO+ 2 NC	red	12 / 240	**401517**
ELBD - Y - DIN	button + lamp	230V	<20	2NO+ 1 NC	yellow	12 / 240	**401518**
ELBD - Y - DIN	button + lamp	230V	<20	1NO+ 2 NC	yellow	12 / 240	**401519**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

BUTTONS AND SWITCHES WITH BOX

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Type	Description	IP code:	Overall dimensions (mm) L	H	W	Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
EL1-B134	switching on 0-1	IP44	68	68	50	1 NO	black	1 / 100	**401134**



Type	Description	IP code:	Overall dimensions (mm) L	H	W	Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
EL1-B102	1 button with spring return	IP44	68	68	50	1 NO	green	1 / 100	**401102**
EL1-BP102	1 button with spring return	IP65	68	68	50	1 NO	green	1 / 100	**401132**



Type	Description	IP code:	Overall dimensions (mm) L	H	W	Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
EL1-B213	2 buttons with spring return	IP44	104	68	50	1 NC 1 NO	1 - red 1 - green	1 / 100	**401213**
EL1-BP213	2 buttons with spring return	IP65	104	68	50	1 NC 1 NO	1 - red 1 - green	1 / 100	**401233**



Type	Description	IP code:	Overall dimensions (mm) L	H	W	Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
EL1-B339	3 buttons with spring return	IP44	134	68	50	1 NO 1 NC 1 NO	1 - green 1 - red 1 - green	1 / 50	**401339**
EL1-BP339	3 buttons with spring return	IP65	134	68	50	1 NO 1 NC 1 NO	1 - green 1 - red 1 - green	1 / 50	**401349**



Type	Description	IP code:	Overall dimensions (mm) L	H	W	Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
EL1-B174	Emergency button with head "mushroom" type Ø40.Release through turning	IP44	68	68	50	1 NC	red	1 / 100	**401174**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

DEVICES FOR TELPHER CONTROL MBP TYPE

3+2 standard +extended 5 YEAR TOTAL WARRANTY

They represent different combinations of START and STOP buttons mounted in plastic boxes in different sizes. They are connected to the operating circuits of cranes or telphers and serve as a remote control of their movement. They are connected directly to the operating cable of the telpher and send commands directly to the executive mechanisms. They are designed to provide protection from dust and moisture IP65.

TECHNICAL DATA:
- Supplying voltage: 230V; 50/60Hz
- Electrical wear resistance: 1x10⁵ cycles
- Operating temperature: -10 +65°C
- Humidity: 35 – 85% RH
- Number of contacts: according to the number of the buttons
- Commuting capacity: up to 6A
- Plastic: UV rays wear resistance
- IP code: IP65
- Weight: according to the number of the contacts

MOUNTING:
- directly to the control cable of the telpher (crane)










Type	Number of buttons	Contact block and scheme		Packing / Box (pcs)	Catalogue number
		Emergency	For the directions		
MBP-A281	2	-	NO+NC	1/20	**46281**
MBP-A291 two speed	2	-	NO+NC	1/20	**46291**
MBP-A2813	2+1	emergency button	NO+NC	1/20	**46283**
MBP-A2813K	2+1	emergency button with switch	NO+NC	1/20	**46283K**
MBP-A2913 two speed	2+1	emergency button	NO+NC	1/20	**46294**
MBP-A2913K two speed	2+1	emergency button with switch	NO+NC	1/20	**46294K**
MBP-A481	4	-	NO+NC	1/20	**46481**
MBP-A491 two speed	4	-	NO+NC	1/20	**46491**
MBP-A4813	4+1	emergency button	NO+NC	1/20	**46483**
MBP-A4813K	4+1	emergency button with switch	NO+NC	1/20	**46483K**
MBP-A4913 two speed	4+1	emergency button	NO+NC	1/20	**46493**
MBP-A4913K two speed	4+1	emergency button with switch	NO+NC	1/20	**46493K**
MBP-A681	6	-	NO+NC	1/20	**46681**
MBP-A691 two speed	6	-	NO+NC	1/20	**46691**
MBP-A6813	6+1	emergency button	NO+NC	1/20	**46683**
MBP-A6813K	6+1	emergency button with switch	NO+NC	1/20	**46683K**
MBP-A6913 two speed	6+1	emergency button	NO+NC	1/20	**46693**
MBP-A6913K two speed	6+1	emergency button with switch	NO+NC	1/20	**46693K**
MBP-A881	8	-	NO+NC	1/20	**46881**
MBP-A891 two speed	8	-	NO+NC	1/20	**46891**
MBP-A8813	8+1	emergency button	NO+NC	1/20	**46883**
MBP-A8813K	8+1	emergency button with switch	NO+NC	1/20	**46883K**
MBP-A8913 two speed	8+1	emergency button	NO+NC	1/20	**46893**
MBP-8913K two speed	8+1	emergency button with switch	NO+NC	1/20	**46893K**

MBP-Axxxx
- stop button type
- button type – one-speed (x81) or two-speed (x91)
- number of buttons

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

WARNING LIGHTS AND TOWERS

3+0 standard +extended 3 YEAR TOTAL WARRANTY



The revolving warning lights and towers are devices intended for use as status indicators in the human-machine control systems. They are suitable for installation on control cabinets and panels or directly on machines. They are manufactured in different colour combinations to attract attention of operators working in a given production sector. Warning lights and towers are widely used in almost any industrial branch. They can be mounted on movable components or such, creating potential danger and can warn all workers for a critical situation with their blinking light and siren. These devices are electrically connected through cables, protruding out of the lamp casing.

TECHNICAL SPECIFICATION:

- Rated voltage: 12 VAC/230VAC; 50/60 Hz;
- Isolation voltage: 660V; 50/60 Hz;
- Impulse voltage stability: 6000V
- Rated power: see the tables below
- Short circuit protection: 1A gG external fuse
- Operating Temperature: - 20°C + 65°C
- Humidity: 35 – 85% RH
- Plastic cover: UV resistant polycarbonate not considered as being harmful to human health

INSTALLATION:

- Warning lights are fixed to the respective machine body with the studs protruding from the light plastic casing.





Type	Description	Voltage (VAC)	Rated Power (W)	Colour	Packing / Box (pcs)	Catalogue number
LTE1101 - R	Warning light	12	10	Red	1 / 30	**401525R**
LTE1101 - G	Warning light	12	10	Green	1 / 30	**401525G**
LTE1101 - Y	Warning light	12	10	Yellow	1 / 30	**401525Y**
LTE1101J - R	Warning light + siren	12	11	Red	1 / 30	**401526R**
LTE1101J - G	Warning light + siren	12	11	Green	1 / 30	**401526G**
LTE1101J - Y	Warning light + siren	12	11	Yellow	1 / 30	**401526Y**
LTE1101 - R	Warning light	230	8	Red	1 / 30	**402525R**
LTE1101 - G	Warning light	230	8	Green	1 / 30	**402525G**
LTE1101 - Y	Warning light	230	8	Yellow	1 / 30	**402525Y**
LTE1101J - R	Warning light + siren	230	9	Red	1 / 30	**402526R**
LTE1101J - G	Warning light + siren	230	9	Green	1 / 30	**402526G**
LTE1101J - Y	Warning light + siren	230	9	Yellow	1 / 30	**402526Y**
LTE1161 - R	Warning light	12	35	Red	1 / 8	**401527R**
LTE1161 - G	Warning light	12	35	Green	1 / 8	**401527G**
LTE1161 - Y	Warning light	12	35	Yellow	1 / 8	**401527Y**
LTE1161 - R	Warning light	230	28	Red	1 / 8	**402527R**
LTE1161 - G	Warning light	230	28	Green	1 / 8	**402527G**
LTE1161 - Y	Warning light	230	28	Yellow	1 / 8	**402527Y**
LTA205 - 1	Tower / flashing	12	4	1 - Red	1 / 20	**401528**
LTA205 - 2	Tower / flashing	12	8	2 - Red/Green	1 / 20	**401529**
LTA205 - 3	Tower / flashing	12	12	3 - Red/Yellow/Green	1 / 20	**401530**
LTA205 - 3J	Tower / flashing + siren	12	12	3 - Red/Yellow/Green	1 / 20	**401531**
LTA205 - 5	Tower / flashing	12	18	5 - Red/Yellow/Green/ Blue/Transparent	1 / 20	**401532**
LTA205 - 1	Tower / flashing	230	6	1 - Red	1 / 20	**402528**
LTA205 - 2	Tower / flashing	230	8	2 - Red/Green	1 / 20	**402529**
LTA205 - 3	Tower / flashing	230	10	3 - Red/Yellow/Green	1 / 20	**402530**
LTA205 - 3J	Tower / flashing + siren	230	11	3 - Red/Yellow/Green	1 / 20	**402531**
LTA205 - 5	Tower / flashing	230	14	5 - Red/Yellow/Green/ Blue/Transparent	1 / 20	**402532**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Description	Voltage (V)	Rated Power (W)	Sound level (dB)	Packing / Box (pcs)	Catalogue number
MS-290A	metal siren	230	60	100	1 / 24	**401533**
MS-290B	plastic siren	230	60	100	1 / 24	**401541**



Type	Description	Voltage (V)	Rated Power (W)	Sound level (dB)	Packing / Box (pcs)	Catalogue number
MS-390	siren	230	160	120	1 / 10	**401534**



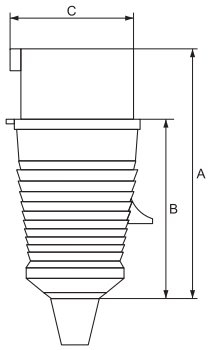
Type	Description	Voltage (V)	Rated Power (W)	Sound level (dB)	Packing / Box (pcs)	Catalogue number
CB-4	alarm bell	12	-	85	1 / 50	**401535**
CB-4	alarm bell	24	-	85	1 / 50	**401536**
CB-4	alarm bell	110	-	85	1 / 50	**401537**
CB-4	alarm bell	230	-	85	1 / 50	**401538**



Type	Description	Voltage (V)	Rated Power (W)	Sound level (dB)	Packing / Box (pcs)	Catalogue number
FA-01	fire alarm	230	-	120	1 / 100	**401540**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60309-1; EN 60309-2



INDUSTRIAL PLUGS AND SOCKETS HT/HTN TYPE

5+0 standard +extended 5 YEAR TOTAL WARRANTY

Made of special high quality plastic with alloys against aging at sun light exposing and for increasing the mechanical strength. They are designed in accordance with standard EN 60309 and provide reliable connection and high protection level against electrical current. They provide IP protection not less than IP 44/67. They are designed for surface or flush mounting, movable or fixed type.

TECHNICAL DATA:
- Rated voltage: 500V
- Rated short circuit current: according to the mounted protection in the boards
- Impulse voltage wear resistance: 8kV
- Mechanical wear resistance: 3000 cycles
- IP code: IP 44/67
- Plastic: UV rays wear resistance
- Ambient temperature: -5 to +65°C
- Altitude: up to 2000m
- Plugs and sockets: 6h



Model	In (A)		Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HT-013	16		1P+N+E	230	121 / 84 / 53	44	2 / 10 / 100	**37013**
HT-023	32		1P+N+E	230	138 / 92 / 63	44	2 / 10 / 60	**37023**

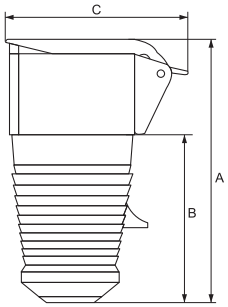


Model	In (A)		Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HT-014	16		3P+E	400	121 / 84 / 51	44	2 / 10 / 100	**37014**
HT-024	32		3P+E	400	138 / 92 / 63	44	2 / 10 / 60	**37024**
HT-034	63		3P+E	400	230 / 109 / 36	44	2 / 10	**37034**
HT-044	125		3P+E	400	295 / 124 / 50	44	2 / 10	**37044**



Model	In (A)		Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HT-015	16		3P+N+E	400	129 / 92 / 62	44	2 / 10 / 60	**37015**
HT-025	32		3P+N+E	400	149 / 97 / 70	44	2 / 10 / 60	**37025**
HT-035	63		3P+N+E	400	230 / 109 / 36	44	2 / 10	**37035**
HT-045	125		3P+N+E	400	295 / 124 / 50	44	2 / 10	**37045**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



MOVABLE INDUSTRIAL SOCKETS HT TYPE IP44

5+0 standard +extended 5 YEAR TOTAL WARRANTY



Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HT-213	16		1P+N+E	230	130 / 96	44	2 / 10 / 100	**37213**
HT-223	32		1P+N+E	230	149 / 90	44	2 / 10 / 60	**37223**



Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HT-214	16		3P+E	400	131 / 96	44	2 / 10 / 100	**37214**
HT-224	32		3P+E	400	149 / 90	44	2 / 10 / 60	**37224**
HT-234	63		3P+E	400	230/109	44	2 / 10	**37234**
HT-244	125		3P+E	400	290/124	44	2 / 10	**37244**

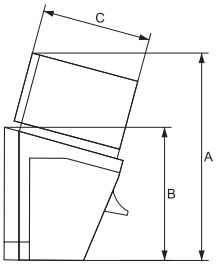


Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HT-215	16		3P+N+E	400	139 / 90	44	2 / 10 / 60	**37215**
HT-225	32		3P+N+E	400	154 / 100	44	2 / 10 / 60	**37225**
HT-235	63		3P+N+E	400	230/100	44	2 / 10	**37235**
HT-245	125		3P+N+E	400	290/124	44	2 / 10	**37245**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

FIXED INDUSTRIAL PLUGS HT TYPE IP44

5+0 standard +extended 5 YEAR TOTAL WARRANTY





Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HT-513	16		1P+N+E	230	121/79	44	2 / 10 / 60	**37513**
HT-523	32		1P+N+E	230	131/83	44	2 / 10 / 60	**37523**



Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HT 514	16		3P+E	400	121/76	44	2 / 10 / 60	**37514**
HT 524	32		3P+E	400	131/83	44	2 / 10 / 60	**37524**

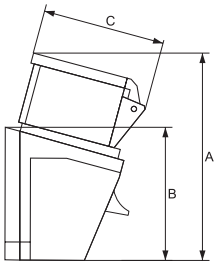


Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HT 515	16		3P+N+E	400	123/79	44	2 / 10 / 60	**37515**
HT 525	32		3P+N+E	400	132/84	44	2 / 10 / 60	**37525**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

FIXED INDUSTRIAL SOCKETS HT TYPE IP44

5+0 standard +extended 5 YEAR TOTAL WARRANTY





Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HT-113	16		1P+N+E	230	126 / 86	44	2 / 10 / 60	**37113**
HT-123	32		1P+N+E	230	141 / 97	44	2 / 10 / 60	**37123**

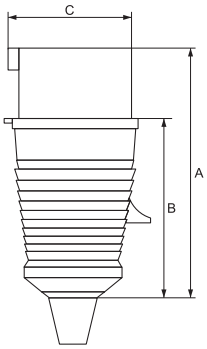


Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HT-114	16		3P+E	400	132 / 91	44	2 / 10 / 60	**37114**
HT-124	32		3P+E	400	141 / 96	44	2 / 10 / 60	**37124**
HT-134	63		3P+E	400	193 / 122	44	2 / 10	**37134**
HT-144	125		3P+E	400	220 / 140	44	2 / 10	**37144**



Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HT-115	16		3P+N+E	400	129 / 96	44	2 / 10 / 60	**37115**
HT-125	32		3P+N+E	400	141 / 98	44	2 / 10 / 60	**37125**
HT-135	63		3P+N+E	400	193 / 122	44	2 / 10	**37135**
HT-145	125		3P+N+E	400	220 / 140	44	2 / 10	**37145**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



MOVABLE INDUSTRIAS PLUGS HTN TYPE IP67

5+0 standard +extended 5 YEAR TOTAL WARRANTY



Model	In (A)		Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HTN 0131	16		1P+N+E	230	120/71/12	67	1 / 60	**37131**
HTN 0231	32		1P+N+E	230	150/93/17	67	1 / 40	**37231**

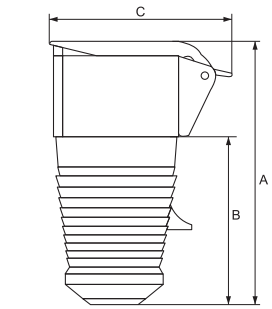


Model	In (A)		Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HTN 0141	16		3P+E	400	125/79/12	67	2 / 60	**37141**
HTN 0241	32		3P+E	400	150/93/17	67	2 / 40	**37241**
HTN 0341	63		3P+E	400	230/109/36	67	10	**37341**
HTN 0441	125		3P+E	400	230/109/36	67	10	**37441**



Model	In (A)		Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HTN 0151	16		3P+N+E	400	133/87/12	67	2 / 60	**37151**
HTN 0251	32		3P+N+E	400	155/99.5/17	67	2 / 40	**37251**
HTN 0351	63		3P+N+E	400	230/109/36	67	10	**37351**
HTN 0451	125		3P+N+E	400	295/124/50	67	10	**37451**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



MOVABLE INDUSTRIAL SOCKET HTN TYPE IP67

5+0 standard +extended 5 YEAR TOTAL WARRANTY



Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HTN 2131	16		1P+N+E	230	131/90	67	2 / 60	**37831**
HTN 2231	32		1P+N+E	230	149/90	67	2 / 40	**37931**



Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HTN 2141	16		3P+E	400	131/76	67	2 / 60	**37841**
HTN 2241	32		3P+E	400	149/90	67	2 / 40	**37941**
HTN 2341	63		3P+E	400	271/115	67	10	**37942**
HTN 2441	125		3P+E	400	295/137	67	6	**37943**

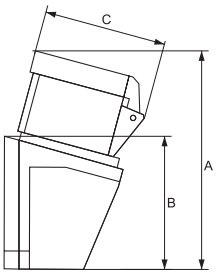


Model	In (A)		Poles	Un (V)	Dimensions (mm) A/C	IP code:	Packing/Box	Catalogue number
HTN 2151	16		3P+N+E	400	139/90	67	2 / 60	**37851**
HTN 2251	32		3P+N+E	400	154/100	67	2 / 40	**37951**
HTN 2351	63		3P+N+E	400	240/112	67	10	**37952**
HTN 2451	125		3P+N+E	400	300/126	67	6	**37953**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

FIXED INDUSTRIAL SOCKET HTN TYPE IP67

5+0 standard +extended 5 YEAR TOTAL WARRANTY





Model	In (A)	Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HTN 1131	16	1P+N+E	230	101/150/93.5	67	2 / 40	**37731**
HTN 1231	32	1P+N+E	230	114/162/93.5	67	2 / 40	**37631**



Model	In (A)	Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HTN 1141	16	3P+E	400	104/150/93.5	67	2 / 40	**37741**
HTN 1241	32	3P+E	400	116/162/93.5	67	2 / 40	**37641**
HTN 1341	63	3P+E	400	171/170/230	67	1 / 10	**37842**
HTN 1441	125	3P+E	400	171/170/230	67	1 / 6	**37844**



Model	In (A)	Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HTN 1151	16	3P+N+E	400	107/150/93.5	67	2 / 40	**37751**
HTN 1251	32	3P+N+E	400	116/162/93.5	67	2 / 40	**37651**
HTN 1351	63	3P+N+E	400	171/170/230	67	10	**37852**
HTN 1451	125	3P+N+E	400	171/170/230	67	6	**37854**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

INDUSTRIAL SOCKETS FOR FLUSH MOUNTING HT TYPE IP44

5+0 standard +extended 5 YEAR TOTAL WARRANTY



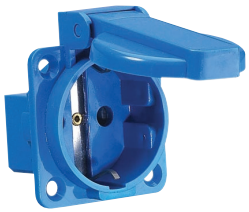
Model	In (A)	Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HT-413	16	1P+N+E	230	70/60/67	44	2 / 10 / 60	**37413**
HT-423	32	1P+N+E	230	80/95/79	44	2 / 10 / 60	**37423**



Model	In (A)	Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HT-414	16	3P+E	400	75/86/75	44	2 / 10 / 60	**37414**
HT-424	32	3P+E	400	80/95/79	44	2 / 10 / 60	**37424**



Model	In (A)	Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HT-415	16	3P+N+E	400	75/85/70	44	2 / 10 / 60	**37415**
HT-425	32	3P+N+E	400	98/98/83	44	2 / 10 / 60	**37425**



Model	In (A)	Poles	Un (V)	Dimensions (mm) A /B /C	IP code:	Packing/Box	Catalogue number
HT-105SR	16	German type	230	50/63/42	44	500	**37105**



German type socket for DIN rail mounting
It provides plug presence in electric boards and easy cabling.
* Supply voltage: 230V
* Computing option: up to 16A

* Operation temperature: from -10 up to +65°C
* Humidity: up to 85%RH
Mounting method:
* DIN rail

Type	Poles	Packing / Box (pcs)	Catalogue number
German type socket for DIN rail	German type	5 / 100	**37004**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard IEC60670; CEI 23-48; CEI 23-49; EN 50102

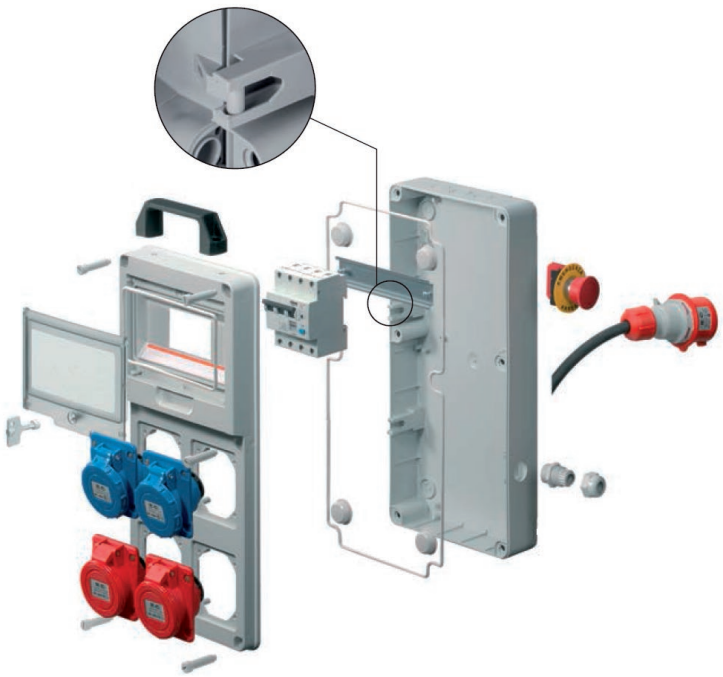


INDUSTRIAL BOARD SYSTEM EC690 SERIES

5+0 standard +extended 5 YEAR TOTAL WARRANTY

Distribution boards 690 series can be safely used for temporary installation such as construction sites, markets, fairs, etc. They are entirely made up of UV-resistant halogen free technopolymer on ABS- base. They are suitable for outdoor use, thanks to the high impact resistance. The distribution boards are fit to use in different options- movable with handle or fixed on the wall. The distribution boards are suitable with sockets with mounting flange with screw hole center distance 60x60mm.

TECHNICAL DATA:
- Material: shock resistant, halogen free technopolymer on ABS base with resistance to UV rays.
- Colour: grey RAL 7035
- IP code: IP65
- Resistance to mechanical shock: IK08-IK10(shocks up to 6-20j)
- Resistance to abnormal heat: up to 650°C(Glow Wire Test, Reference Standard IEC 695-2-1
- Installation temperature range: min-15°C, max+60°C
- DIN rail material: galvanized steel
- Pre-cuts for conduit or cable inlet of different sizes.
- Standards: IEC60670; CEI 23-48; CEI 23-49; EN 50102
- RoHS 2002/95/CE





EMPTY DISTRIBUTION BOARD EC690 SERIES 2 VERTICAL SOCKETS

5+0 standard +extended 5 YEAR TOTAL WARRANTY

Type	Number of modules	IP code	W	H	D	Packing pcs/ box	Catalogue number
EC69021	4	65	105	337	95	1/15	**53EC69021**

For sockets with 60x60mm hole center distance

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



EMPTY DISTRIBUTION BOARD EC690 SERIES 3 VERTICAL SOCKETS

5+0 standard +extended 5 YEAR TOTAL WARRANTY

Type	Number of modules	IP code	W	H	D	Packing pcs/ box	Catalogue number
EC69022	4	65	105	430	95	1/13	**53EC69022**

For sockets with 60x60mm hole center distance



EMPTY DISTRIBUTION BOARD EC690 SERIES 4 SOCKETS

5+0 standard +extended 5 YEAR TOTAL WARRANTY

Type	Number of modules	IP code	W	H	D	Packing pcs/ box	Catalogue number
EC69023	8	65	200	430	95	1/10	**53EC69023**

For sockets with 60x60mm hole center distance



EMPTY DISTRIBUTION BOARD EC690 SERIES 6 SOCKETS

5+0 standard +extended 5 YEAR TOTAL WARRANTY

Type	Number of modules	IP code	W	H	D	Packing pcs/ box	Catalogue number
EC69025	12	65	320	510	135	1	**53EC69025**

For sockets with 60x60mm hole center distance

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



Dimensions W x H x D: 105 x 337 x 95mm

ASSEMBLED DISTRIBUTION BOARD 690 SERIES
2 VERTICAL SOCKETS, 4 MODULES

5+0 standard +extended 5 YEAR TOTAL WARRANTY

Empty board type	German type	1P+N+E	3P+N	3P+N+E	IP code	Catalogue number
EC69021		1x16A+1x32A			44	**53EC690212A1**
EC69021		1x16A		1x16A	44	**53EC690212A2**
EC69021		1x16A	1x16A		44	**53EC690212A3**
EC69021	2x16A				44	**53EC690212A4**
EC69021		1x16A+1x32A			67	**53EC690212B1**
EC69021		1x16A		1x16A	67	**53EC690212B2**
EC69021		1x16A	1x16A		67	**53EC690212B3**



Dimensions W x H x D: 105 x 430 x 95mm

ASSEMBLED DISTRIBUTION BOARD 690 SERIES
3 VERTICAL SOCKETS, 4 MODULES

5+0 standard +extended 5 YEAR TOTAL WARRANTY

Empty board type	German type	1P+N+E	3P+N	3P+N+E	IP code	Catalogue number
EC69022		1x16A+1x32A		1x16A	44	**53EC690223A1**
EC69022		1x32A		1x16A+1x32A	44	**53EC690223A2**
EC69022		1x16A+1x32A	1x16A		44	**53EC690223A3**
EC69022		1x32A	1x16A+1x32A		44	**53EC690223A4**
EC69022	2x16A	1x16A			44	**53EC690223A5**
EC69022		1x16A+1x32A		1x16A	67	**53EC690223B1**
EC69022		1x32A		1x16A+1x32A	67	**53EC690223B2**
EC69022		1x16A+1x32A	1x16A		67	**53EC690223B3**
EC69022		1x32A	1x16A+1x32A		67	**53EC690223B4**



Dimensions W x H x D: 200 x 430 x 95mm

ASSEMBLED DISTRIBUTION BOARD 690 SERIES
4 SOCKETS, 8 MODULES

5+0 standard +extended 5 YEAR TOTAL WARRANTY

Empty board type	German type	1P+N+E	3P+N	3P+N+E	IP code	Catalogue number
EC69023		1x16A+1x32A		1x16A+1x32A	44	**53EC690234A1**
EC69023		2x32A		2x16A	44	**53EC690234A2**
EC69023		1x16A+1x32A	1x16A+1x32A		44	**53EC690234A3**
EC69023		2x32A	2x16A		44	**53EC690234A4**
EC69023	2x16A	1x16A+1x32A			44	**53EC690234A5**
EC69023	2x16A		1x16A+1x32A		44	**53EC690234A6**
EC69023		1x16A+1x32A		1x16A+1x32A	67	**53EC690234B1**
EC69023		2x32A		2x16A	67	**53EC690234B2**
EC69023		1x16A+1x32A	1x16A+1x32A		67	**53EC690234B3**
EC69023		2x32A	2x16A		67	**53EC690234B4**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Dimensions W x H x D: 320 x 510 x 135mm

ASSEMBLED DISTRIBUTION BOARD 690 SERIES 6 SOCKETS, 12 MODULES

5+0 standard +extended 5 YEAR TOTAL WARRANTY

Empty board type	German type	1P+N+E	3P+N	3P+N+E	IP code	Catalogue number
EC69025		2x16A+1x32A		2x16A+1x32A	44	**53EC690256A1**
EC69025		1x16A+2x32A		1x16A+2x32A	44	**53EC690256A2**
EC69025		2x16A+1x32A	2x16A+1x32A		44	**53EC690256A3**
EC69025		1x16A+2x32A	1x16A+2x32A		44	**53EC690256A4**
EC69025	3x16A	2x16A+1x32A			44	**53EC690256A5**
EC69025	2x16A	1x16A	2x16A+1x32A		44	**53EC690256A6**
EC69025		2x16A+1x32A		2x16A+1x32A	67	**53EC690256B1**
EC69025		1x16A+2x32A		1x16A+2x32A	67	**53EC690256B2**
EC69025		2x16A+1x32A	2x16A+1x32A		67	**53EC690256B3**
EC69025		1x16A+2x32A	1x16A+2x32A		67	**53EC690256B4**



SPARE FLANGE WITH SCREWS AND GASKETS

Type	W	H	D	Packing pcs/box	Catalogue number
EC690F1	85	74		1/10	**53EC690F1**

The flange mounted is used for closing of the factory maid openings,in case there is no switch for it at the moment,and assures the necessary IP of the board. Another function is assuring the possibility for mounting of great number of additional appliances within assembling the board when making a suitable opening in the flange.



Spare flange with mounted limit switch



Limit switch
Page 127



Spare flange with mounted stop button



Stop button
Page 133



HANDLE WITH SCREWS

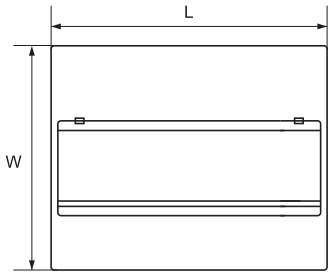
Type	W	H	D	Packing pcs/box	Catalogue number
EC690MA	134	42	25.6	1/10	**53EC690MA**

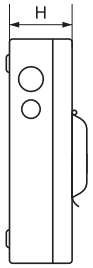
It assures a convenience when carrying the board.

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

METAL CONSUMER UNITS - SIGMA SERIES

3+2 standard +extended 5 YEAR TOTAL WARRANTY





TECHNICAL DATA:

- Material: High quality electro-galvanized steel sheet
- Modules: 8; 12; 16; 22
- Steel thickness: 1,0mm (8; 12 modules); 1,2mm (16; 22 modules)
- Row: single
- Rated voltage In (A): 100A
- Protected with epoxy polyester coating
- Colour of body: White RAL9003
- Colour of door: White RAL9003
- IP code: IP40
- Fire resistance: 960°C/30s
- Humidity: Max.95%
- Storage temperature: -40+75°C
- Specification: CE, ROHS, BS, EN,EIC60439-3



Modern design and aesthetic look



Different variants of assembling



DIN, zero and ground terminals included



Defense of the electrical parts
from direct contact



Metal consumer unit enclosures, Sigma series

Type	№ of ways	Construction Material	№ of ROWS	Dimensions (mm)			Catalogue number
				L (mm)	W (mm)	H (mm)	
Sigma	8	Steel	1	303	257	110	**61088**
Sigma	12	Steel	1	375	257	110	**61128**
Sigma	16	Steel	1	447	257	110	**61168**
Sigma	22	Steel	1	555	257	110	**61228**



Metal consumer units with 100A main switch, Sigma series

Type	№ of ways when empty	Construction Material	№ of ways	Main Switch	Power Voltage Supply	Dimensions (mm)			Catalogue number
						L (mm)	W (mm)	H (mm)	
Sigma	8	Steel	6	100A	240V	303	257	110	**61088SI**
Sigma	12	Steel	10	100A	240V	375	257	110	**61128SI**
Sigma	16	Steel	14	100A	240V	447	257	110	**61168SI**
Sigma	22	Steel	20	100A	240V	555	257	110	**61228SI**



Metal domestic consumer unit with 100A main switch and RCD's, Sigma series

Type	№ of ways when empty	Construction Material	№ of ways	№ of RCD's Supplied	Main Switch	Dimensions (mm)			Catalogue number
						L (mm)	W (mm)	H (mm)	
Sigma	12	Steel	6	2x63A 30mA	1x100A	375	257	110	**61128SR**
Sigma	16	Steel	10	2x63A 30mA	1x100A	447	257	110	**61168SR**
Sigma	22	Steel	16	2x63A 30mA	1x100A	555	257	110	**61228SR**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Product Contents: 1x Enclosure,1x 63A 30mA RCD, 6xMCB's 6kA CurveB (3x6A, 1x16A and 2x20A), busbar and cables

Sigma 6-way metal consumer unit

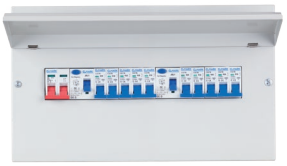
Type	№ of ways when empty	Construction Material	№ of ways	№ of MCB's Supplied	№ of RCD's Supplied	Amp Rating	Amp Rating L (mm)	H (mm)	W (mm)	Catalogue number
Sigma	8	Steel	6	6	1	63A	244	230	90	**61088S**



Product Contents: 1x Enclosure,1x 100A Main Switch, 2x 63A 30mA RCD's, 6xMCB's 6kA CurveB (3x6A, 1x16A, 2x32A, 1x40), busbar and cables

Sigma 6-way dual RCD's metal consumer unit

Type	№ of ways when empty	Construction Material	№ of ways	№ of MCB's Supplied	№ of RCD's Supplied	Main Switch	Amp Rating	Amp Rating L (mm)	H (mm)	W (mm)	Catalogue number
Sigma	12	Steel	6	6	2	1	63A	316	230	90	**61128S**



Product Contents: 1x Enclosure,1x 100A Main Switch, 2x 63A 30mA RCD's, 10xMCB's 6kA Curve B (3x6A, 2x16A, 4x32A, 1x40), busbar and cables

Sigma 10-way dual RCD's metal consumer unit

Type	№ of ways when empty	Construction Material	№ of ways	№ of MCB's Supplied	№ of RCD's Supplied	Main Switch	Amp Rating	Amp Rating L (mm)	H (mm)	W (mm)	Catalogue number
Sigma	16	Steel	10	10	2	1	63A	388	230	90	**61168S**



Product Contents: 1x Enclosure,1x 100A Main Switch, 2x 63A 30mA RCD's, 12xMCB's 6kA CurveB (3x6A, 1x10A, 2x16A, 4x32A, 1x40, 1x50A), busbar and cables

Sigma 16-way dual RCD's metal consumer unit

Type	№ of ways when empty	Construction Material	№ of ways	№ of MCB's Supplied	№ of RCD's Supplied	Main Switch	Amp Rating	Amp Rating L (mm)	H (mm)	W (mm)	Catalogue number
Sigma	22	Steel	16	12	2	1	63A	496	230	90	**61228S**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

DOCUMENTS CORRESPONDING TO THE PRODUCT:
Standard IEC60439-3

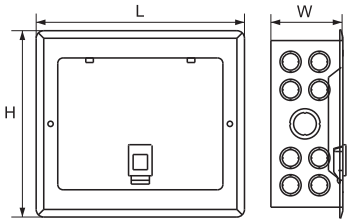
METAL DISTRIBUTION BOXES FOR SURFACE MOUNTING- DELTA SERIES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The metal distribution boxes have wide range of application for mounting in buildings under construction or new communal objects, offices, shops, house facilities. Inside the box, could be mounted circuit elements for protection in the electrical installation. They are made of high quality electro-galvanized steel sheet and provide proper prevention from fire. They are shock-proof as well. The box is also equipped with zero and ground terminals.

TECHNICAL DATA:
- Material: High quality electro-galvanized steel sheet
- Maximum insulation voltage: 690V; 50Hz
- Single phase: 4; 8; 12; 16 modules
- Triple phase: 4; 6; 8; 10; 12 modules
- Steel thickness: 1,0mm
- MCB mounting design: Din-rail
- Main switch rated current: MCB125A
- Mounting type: Surface
- Colour of body: grey
- IP code: IP40
- Fire resistance: 960°C/30s
- Humidity: Max.95%
- Storage temperature: -40+75°C
- Specification: CE, ROHS, BS, EN,EIC60439-3

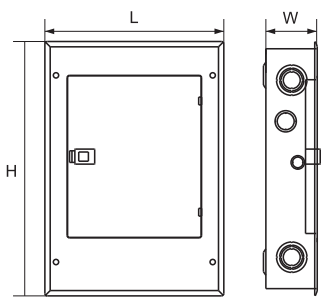




Single phase metal distribution boxes, Delta series

Type	Construction Material	№ of poles	Module capacity	Dimensions (mm) L	H	W	Packing / Box	Catalogue number
Delta 1/4	Metal	1	4	226	226	95	1/10	**600104N**
Delta 1/8	Metal	1	8	298	226	95	1/10	**600108N**
Delta 1/12	Metal	1	12	370	226	95	1/10	**600112N**
Delta 1/16	Metal	1	16	442	226	95	1/10	**600116N**





Three phase metal distribution boxes, Delta series

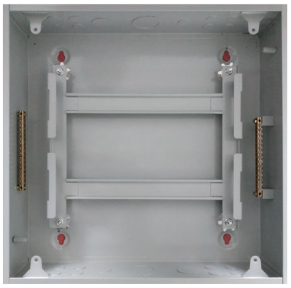
Type	Construction Material	№ of poles	Module capacity	Dimensions (mm) L	H	W	Packing / Box	Catalogue number
Delta 3/4	Metal	3	4	506	350	105	1/10	**600304N**
Delta 3/6	Metal	3	6	560	350	105	1/10	**600306N**
Delta 3/8	Metal	3	8	614	350	105	1/10	**600308N**
Delta 3/10	Metal	3	10	668	350	105	1/10	**600310N**
Delta 3/12	Metal	3	12	722	350	105	1/10	**600312N**



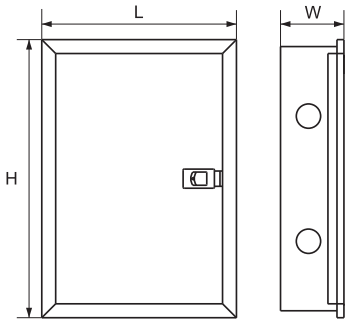
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

DOCUMENTS CORRESPONDING TO THE PRODUCT:
Standard IEC60439-3





Zero and ground terminals included



METAL CONSUMER UNITS - ZETA SERIES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The metal distribution boxes have wide range of application for mounting in buildings under construction or new communal objects, offices, shops, house facilities. Inside the box, could be mounted circuit elements for protection in the electrical installation. They are made of high quality electro-galvanized steel sheet and provide proper prevention from fire. They are shock-proof as well. The box is also equipped with zero and ground terminals.

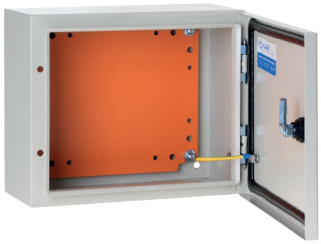
TECHNICAL DATA:
- Material: High quality electro-galvanized steel sheet
- Modules: 30; 36; 45; 60; 72
- Steel thickness: 1,2mm
- Rated voltage In (A): 100A
- Mounting type: Surface
- Colour of body: White RAL7035
- Colour of door: White RAL7035
- IP code: IP40
- Fire resistance: 960°C/30s
- Humidity: Max.95%
- Storage temperature: -40+75°C
- Specification: CE, ROHS, EIC60439-3

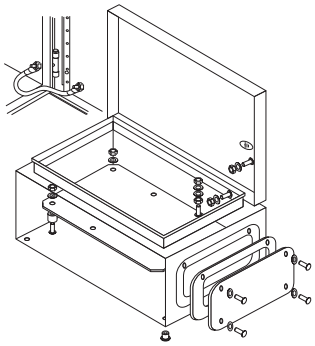
Metal consumer unit enclosures, Zeta series

Type	Construction Material	№ of ROWS	№ of ways	Dimensions (mm)			Catalogue number
				L (mm)	H (mm)	W (mm)	
Zeta 30	Metal	2	30	428	428	110	**55030**
Zeta 36	Metal	2	36	482	428	110	**55036**
Zeta 45	Metal	3	45	428	578	110	**55045**
Zeta 60	Metal	4	60	428	728	110	**55060**
Zeta 72	Metal	4	72	482	728	110	**55072**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 62208;
EN 60439-1; EN 60 439-3







METAL DISTRIBUTION BOARDS JXF SERIES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Supplied with a special lock, metal plate for fixing of electrical devices, lid for the input-output conductors, grounded dowel pin, gaskets, etc. Option to change the opening direction. Made of single steel sheet, treated with decorative powder coating.

TECHNICAL DATA:
- Rated voltage: up to 1000V
- Maximum current: up to 1250A
- Material: steel
- RAL 7032
- Coating: powder style painting
- IP code: IP 65

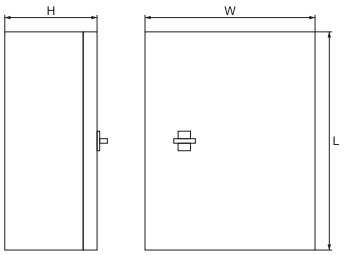
MOUNTING:
- vertically on flat surface

Type	Thickness of metal sheet mm)	Metal box dimensions (mm)			Nominal working current In (A)	Packing / Box	Catalogue number
		L (height)	W (width)	H (depth)			
JXF 25/25/15	1.0	250	250	150	80	1	**53025**
JXF 25/30/15	1.0	250	300	150	100	1	**53026**
JXF 30/25/15	1.0	300	250	150	100	1	**53030**
JXF 30/40/20	1.0	300	400	200	160	1	**53031**
JXF 40/30/20	1.0	400	300	200	160	1	**53040**
JXF 40/50/20	1.2	400	500	200	250	1	**53041**
JXF 40/40/20	1.2	400	400	200	250	1	**53044**
JXF 50/40/20	1.2	500	400	200	250	1	**53050**
JXF 40/60/20	1.2	400	600	200	250	1	**53051**
JXF 60/40/20	1.2	600	400	200	250	1	**53060**
JXF 60/60/20	1.2	600	600	200	250	1	**53066**
JXF 70/50/20	1.2	700	500	200	350	1	**53070**
JXF 80/60/25	1.5	800	600	250	400	1	**53080**
JXF 100/80/30	1.5	1000	800	300	630	1	**53100**
JXF 120/80/30	1.5	1200	800	300	630	1	**53120**
JXF 140/80/30	1.5	1400	800	300	800	1	**53140**
JXF 180/80/30	1.5	1800	800	300	1000	1	**53188**
JXF 180/100/30*	1.5	1800	1000	300	1250	1	**53180**

Note: *Metal boxes with double door

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 62 208;
EN 60439-1; EN 60 439-3







STAINLESS STEEL METAL BOARDS SXF SERIES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Supplied with a special lock, metal plate for fixing of electrical devices, lid for the input-output conductors, grounded dowel pin, gaskets, etc. Option to change the opening direction. Made of single stainless steel sheet. The mouting plate is treated with anti-corrosion and decorative powder coating. They are used in case of special requirements regarding the exposure of corrosion.

TECHNICAL DATA:
- Rated voltage: up to 1000V
- Maximum current: up to 800A
- Material: stainless steel
- IP code: IP 65

MOUNTING:
- vertically on flat surface

Type	Thickness of metal sheet (mm)	Metal box dimensions (mm)			Packing / Box	Catalogue number
		L (height)	W (width)	H (depth)		
SXF 25/25/15	1.0	250	250	150	1	**54025**
SXF 30/25/15	1.0	300	250	150	1	**54030**
SXF 40/30/20	1.0	400	300	200	1	**54040**
SXF 50/40/20	1.2	500	400	200	1	**54050**
SXF 60/40/20	1.2	600	400	200	1	**54060**
SXF 70/50/20	1.2	700	500	200	1	**54070**
SXF 80/60/25	1.5	800	600	250	1	**54080**
SXF 100/80/30	1.5	1000	800	300	1	**54100**
SXF 120/80/30	1.5	1200	800	300	1	**54120**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60439-1;
EN 60 439-3

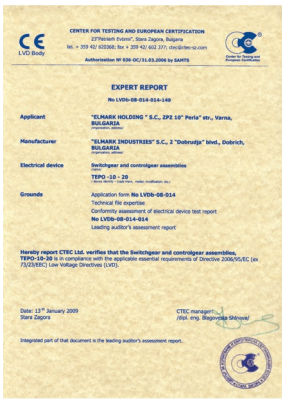
ELECTRIC SWITCHBOARDS WITH TYPE-APPROVAL CERTIFICATES

The company has produced and successfully passed the type-approval procedures for the following metal and plastic electric control boxes and boards with ELMARK automation:

- Tower Mounted Switchgear
- Low Voltage Meter Box
- Low Voltage Main Switchboard
- Distribution Switchboard
- Power Compensation System



Low Voltage Meter Box Type TEPO

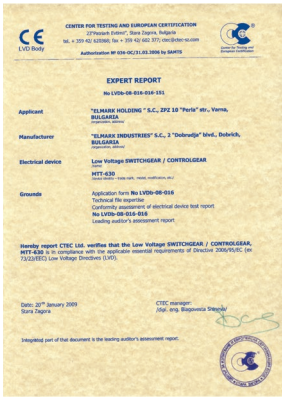

CENTER FOR TESTING AND EUROPEAN CERTIFICATION
EXPERT REPORT
No LVDb-08-014-014-149
Applicant "ELMARK HOLDING " S.C., ZPZ 10 "Perla" str., Varna, BULGARIA
Manufacturer "ELMARK INDUSTRIES" S.C., 2 "Dobrudja" blvd., Dobrich, BULGARIA
Electrical device Switchgear and controlgear assemblies
TEPO -18 ÷ 28
Grounds Application form No LVDb-08-014
Technical file expertise
Conformity assessment of electrical device test report
No LVDb-08-014-014
Leading auditor's assessment report
Hereby report CTEC Ltd. verifies that the Switchgear and controlgear assemblies, TEPO-18÷28 is in compliance with the applicable essential requirements of Directive 2006/95/EC (ex 73/23/EEC) Low Voltage Directives (LVD).
Date: 15th January 2009 Stara Zagora
CTEC manager: /dipl. eng. Blagovesta Shirova/
Integrated part of that document is the leading auditor's assessment report.



Low Voltage Main Switchboard Type GRT



Tower Mounted Switchgear Type MTT

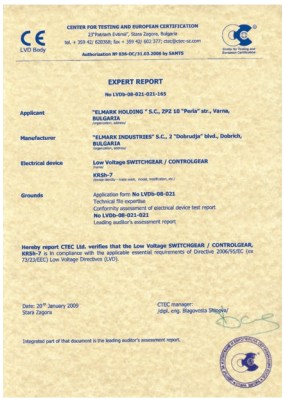

CENTER FOR TESTING AND EUROPEAN CERTIFICATION
EXPERT REPORT
No LVDb-08-016-016-151
Applicant "ELMARK HOLDING " S.C., ZPZ 10 "Perla" str., Varna, BULGARIA
Manufacturer "ELMARK INDUSTRIES" S.C., 2 "Dobrudja" blvd., Dobrich, BULGARIA
Electrical device Low Voltage SWITCHGEAR / CONTROLGEAR
MTT-630
Grounds Application form No LVDb-08-016
Technical file expertise
Conformity assessment of electrical device test report
No LVDb-08-016-016
Leading auditor's assessment report
Hereby report CTEC Ltd. verifies that the Low Voltage SWITCHGEAR / CONTROLGEAR, MTT-630 is in compliance with the applicable essential requirements of Directive 2006/95/EC (ex 73/23/EEC) Low Voltage Directives (LVD).
Date: 20th January 2009 Stara Zagora
CTEC manager: /dipl. eng. Blagovesta Shirova/
Integrated part of that document is the leading auditor's assessment report.

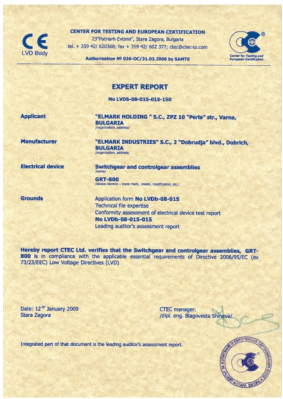


Power Compensation System Type CCU



Distribution Switchboard Type KRSH


CENTER FOR TESTING AND EUROPEAN CERTIFICATION
EXPERT REPORT
No LVDb-08-021-021-165
Applicant "ELMARK HOLDING " S.C., ZPZ 10 "Perla" str., Varna, BULGARIA
Manufacturer "ELMARK INDUSTRIES" S.C., 2 "Dobrudja" blvd., Dobrich, BULGARIA
Electrical device Low Voltage SWITCHGEAR / CONTROLGEAR
KRSh-7
Grounds Application form No LVDb-08-021
Technical file expertise
Conformity assessment of electrical device test report
No LVDb-08-021-021
Leading auditor's assessment report
Hereby report CTEC Ltd. verifies that the Low Voltage SWITCHGEAR / CONTROLGEAR, KRSh-7 is in compliance with the applicable essential requirements of Directive 2006/95/EC (ex 73/23/EEC) Low Voltage Directives (LVD).
Date: 20th January 2009 Stara Zagora
CTEC manager: /dipl. eng. Blagovesta Shirova/
Integrated part of that document is the leading auditor's assessment report.


CENTER FOR TESTING AND EUROPEAN CERTIFICATION
EXPERT REPORT
No LVDb-08-015-015-150
Applicant "ELMARK HOLDING " S.C., ZPZ 10 "Perla" str., Varna, BULGARIA
Manufacturer "ELMARK INDUSTRIES" S.C., 2 "Dobrudja" blvd., Dobrich, BULGARIA
Electrical device Switchgear and controlgear assemblies
GRT-800
Grounds Application form No LVDb-08-015
Technical file expertise
Conformity assessment of electrical device test report
No LVDb-08-015-015
Leading auditor's assessment report
Hereby report CTEC Ltd. verifies that the Switchgear and controlgear assemblies, GRT-800 is in compliance with the applicable essential requirements of Directive 2006/95/EC (ex 73/23/EEC) Low Voltage Directives (LVD).
Date: 12th January 2009 Stara Zagora
CTEC manager: /dipl. eng. Blagovesta Shirova/
Integrated part of that document is the leading auditor's assessment report.

Documents corresponding to the product:
Standard EN 60670-24

PLASTIC DISTRIBUTION BOXES FOR SURFACE AND FLUSH MOUNTING ATTIS SERIES, IP40

3+0 standard +extended 3 YEAR TOTAL WARRANTY







Zero and ground terminals included

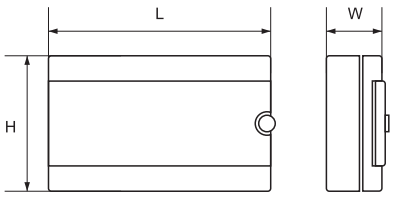
The distribution boxes are designed for mounting in newly built buildings or buildings in reconstruction. They are a module box with mounted protective devices of the given flats electrical current circuit circles. They are supplied with transparent door for each row opening upwards to 90°. They are made of white self-extinguishing plastic, resistant to heat and high temperature with IP code: IP 40. The mounted device in the box is protected from direct contact to the current leading parts. They are offered with DIN-rail for device mounting and terminal strips for the neutral and earthing conductor joining. Mounted directly on the walls with screws.

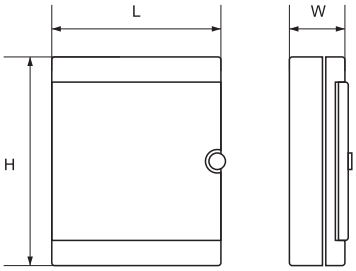
TECHNICAL DATA:

- Maximum insulation voltage: 690V; 50Hz
- Door colour: Transparent
- Mounting type: Surface;Flush
- Modules (№): 6; 9; 12; 16; 24; 36
- IP code: IP40
- Row: Single row for 6, 9, 12 and 16 modules
- Double rows for 16; 24 and 36 modules
- Material: ABS for body and PC for door
- Fire resistance: 360°C/30s

Plastic distribution boxes for surface mounting- ATTIS series, IP40

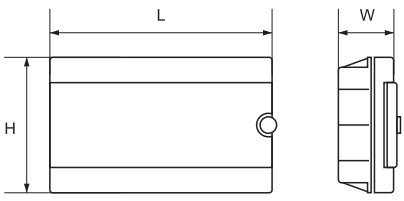
Type	Number of rows	Module capacity (number of devices)	Dimensions (mm)			Packing / Box	Catalogue number
			L	H	W		
Attis 6	1	6	185	140	90	1/30	**60025**
Attis 9	1	9	220	164	90	1/20	**60095**
Attis 12	1	12	305	205	90	1/16	**60125**
Attis 16	1	16	355	220	90	1/16	**60165**
Attis 16	2	16	231	285	90	1/16	**60175**
Attis 24	2	24	313	345	96	1/8	**60245**
Attis 36	3	36	315	440	96	1/5	**60365**

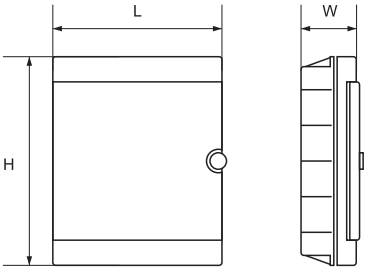




Plastic distribution boxes for flush mounting- ATTIS series, IP40

Type	Number of rows	Module capacity (number of devices)	Dimensions (mm)			Packing / Box	Catalogue number
			L	H	W		
Attis 6	1	6	185	140	90	1/30	**60026**
Attis 9	1	9	220	164	90	1/20	**60096**
Attis 12	1	12	305	205	90	1/16	**60126**
Attis 16	1	16	355	220	90	1/16	**60166**
Attis 16	2	16	231	285	90	1/16	**60176**
Attis 24	2	24	313	345	96	1/8	**60246**
Attis 36	3	36	315	440	96	1/5	**60366**







In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.

Documents corresponding to the product:
Standard EN 60670-24

PLASTIC DISTRIBUTION BOXES FOR SURFACE MOUNTING MINI SERIES, IP40

3+0 standard +extended 3 YEAR TOTAL WARRANTY

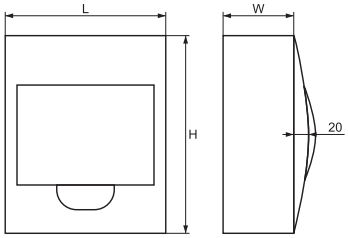


Plastic distribution boxes for surface mounting, MINI series

Type	Number of rows	Module capacity (number of devices)	Dimensions (mm) L	H	W	Packing / Box	Catalogue number
Mini 1	1	1	40	150	65	1/120	**60106**
Mini 2	1	2	55	150	65	1/84	**60107**
Mini 4	1	4	95	150	65	1/48	**60108**

PLASTIC DISTRIBUTION BOXES FOR SURFACE AND FLUSH MOUNTING PDB1 SERIES, IP40

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Boxes for surface mounting

Type	Number of rows	Module capacity (number of devices)	Dimensions (mm) L	H	W	Packing / Box	Catalogue number
PDB1-4	1	4	110	205	75	1 / 20	**60040**
PDB1-6	1	6	150	205	75	1 / 20	**60060**
PDB1-8	1	8	190	205	75	1 / 20	**60080**

Boxes for flush mounting



Type	Number of rows	Module capacity (number of devices)	Dimensions (mm) L	H	W	Packing / Box	Catalogue number
PDB1-4	1	4	110	205	75	1 / 20	**60041**
PDB1-6	1	6	150	205	75	1 / 20	**60061**
PDB1-8	1	8	190	205	75	1 / 20	**60081**



UNTIL SUPPLY **LAST**

Plastic distribution boxes for surface and flush mounting IP40 *

Type	Number of rows	Module capacity (number of devices)	Mounting type	Dimensions (mm) L	H	W	Packing / Box	Catalogue number
PDB1-4	1	4	Fluch	136	222	60	1/20	**80041**
PDB1-6	1	6	Fluch	170	222	60	1/20	**80061**
PDB1-36	3	36	Fluch	300	484	66	1/5	**80361**
PDB1-36	3	36	Surface	271	462	66	1/5	**80360**

In case of insufficient quantity in stock for BOXES MINI SERIES, the delivery time after order confirmation will be 45 days, and for PDB1 will be 90 days.

Documents corresponding to the product:
Standard EN 62 208;
EN 60439-1; EN 60 439-3

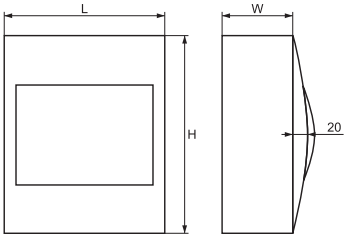


PLASTIC DISTRIBUTION BOXES FOR SURFACE MOUNTING IP40 - BLUE SERIES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The distribution boxes are designed for mounting in newly built buildings or buildings in reconstruction. They are a module box with mounted protective devices of the given flats electrical current circuit circles. They are supplied with transparent door for each row opening upwards to 90°. They are made of white self-extinguishing plastic, resistant to heat and high temperature with IP code: IP 40. The mounted device in the box is protected from direct contact to the current leading parts. They are offered with DIN-rail for device mounting and terminal strips for the neutral and earthing conductor joining. Mounted directly on the walls with screws.

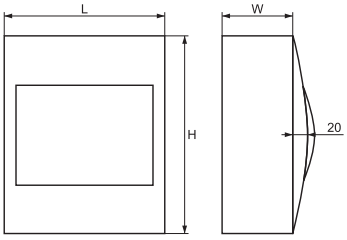
TECHNICAL DATA:
- Door colour: Transparent blue
- Mounting type: Surface;Flush
- Modules (№): 12; 18; 24; 28; 36
- IP code: IP40
- Row: Single row for 12 and 18 modules
- Double rows for 24; 28 and 36 modules
- Material: ABS for body and PC for door
- Fire resistance: 650°C/30s
- Ambient temperature(°C): -5 +65°C, max. 95% humidity
- Colour: White RAL 9003
- Storage temperature(°C): -40 +75°C



Boxes for surface mounting, BLUE series

Type	Number of rows	Module capacity (number of devices)	Dimensions (mm) L	H	W	Packing / Box	Catalogue number
Blue 12	1	12	300	204	102	1/10	**60122**
Blue 18	1	18	410	204	102	1/10	**60182**
Blue 24	2	24	300	294	109	1/5	**60242**
Blue 28	2	28	310	354	109	1/5	**60282**
Blue 36	2	36	410	294	109	1/5	**60362**





Boxes for flush mounting, BLUE series

Type	Number of rows	Module capacity (number of devices)	Dimensions (mm) L	H	W	Packing / Box	Catalogue number
Blue 12	1	12	317	220	102	1/10	**60123**
Blue 18	1	18	426	220	102	1/10	**60183**
Blue 24	2	24	317	310	109	1/5	**60243**
Blue 28	2	28	294	338	109	1/5	**60283**
Blue 36	2	36	426	310	109	1/5	**60363**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 62 208;
EN 60439-1; EN 60 439-3

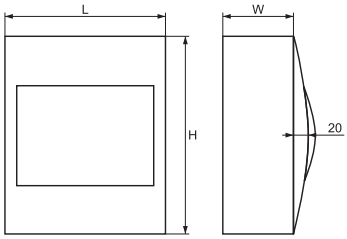
MOISTURE-PROOF DISTRIBUTION BOXES FOR SURFACE MOUNTING - BETA SERIES IP55 AND GAMMA SERIES IP65

3+2 standard +extended 5 YEAR TOTAL WARRANTY



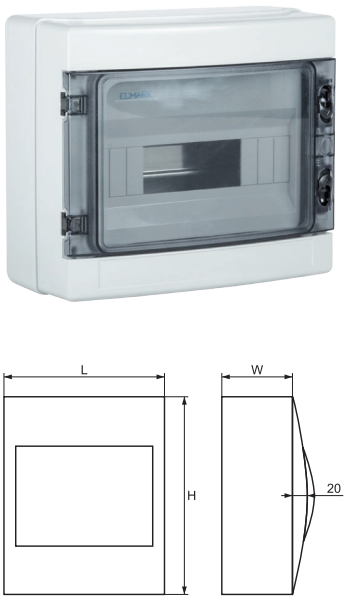
The distribution boxes are designed for mounting in newly built buildings or buildings in reconstruction. They are a module box with mounted protective devices of the given flats electrical installation current circles. They are supplied with transparent door for each row opening upwards to 90°. They are made of white non-self-extinguishing plastic, resistant to heat and high temperature. The special design of the lids and gaskets provides IP code: IP55; IP65. The mounted device in the box is protected from indirect contact to the current leading parts. They are offered with DIN-rail for device mounting and terminal strips for the neutral and earthing conductor joining. For direct wall moutining with screws.

TECHNICAL DATA:
- Maximum insulation voltage: 690V; 50Hz
- Flame retardance: UL94 V-O
- IP code: IP55; IP65
- Door colour: Transparent
- Mounting type: Surface



Moisture-proof distribution boxes for surface mounting - Beta series, IP 55

Type	Number of rows	Module capacity (number of devices)	IP	Dimensions (mm)			Packing / Box	Catalogue number
				L	H	W		
Beta 4	1	4	55	127	214	93	1 / 20	**60100**
Beta 6	1	6	55	162	214	93	1 / 20	**60101**
Beta 8	1	8	55	216	214	93	1 / 20	**60102**
Beta 12	1	12	55	270	214	93	1 / 12	**60103**
Beta 18	1	18	55	378	233	93	1 / 8	**60104**
Beta 24	2	24	55	340	288	93	1 / 8	**60105**



Moisture-proof distribution boxes for surface mounting - Gamma series, IP 65

Type	Number of rows	Module capacity (number of devices)	IP	Dimensions (mm)			Packing / Box	Catalogue number
				H	L	W		
Gamma 4	1	4	65	210	140	100	1/30	**60004**
Gamma 8	1	8	65	210	215	100	1/20	**60008**
Gamma 12	1	12	65	260	300	140	1/10	**60012**
Gamma 18	1	18	65	285	410	140	1/5	**60018**
Gamma 24	2	24	65	300	415	140	1/5	**60024**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

Documents corresponding to the product:
Standard EN 60439 -1
EN 60439 -5



PLASTIC DISTRIBUTION BOARDS ABS- PP SERIES, IP65

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Plastic distribution boards of various sizes. Intended for extension or distribution of cable lines. They can also be used as meter boxes. They are resistant to chemical agents, thermal and UV rays.

TECHNICAL SPECIFICATIONS:
- Resistance: chemical agents, weak acids, alkali, oils, salts, etc.
- Rated Voltage: up to 690V
- Maximum Current: up to 800A
- Thermal Deformation: over 240°C
- Operating Temperature: -35°C + 65°C
- Material: ABS
- IP code: IP65
- Colour: RAL7035 grey
- Recyclable
- adjustable mounting plate position

MOUNTING:
- Vertically on flat surface



ABS halogen free distribution boards PP series - gray door

Board Type	Material Type	H (mm)	L (mm)	W (mm)	Packing / Box	Catalogue number
PP 3001	ABS	300	200	130	1	**5312030130**
PP 3002	ABS	350	250	150	1	**5312535150**
PP 3004	ABS	400	300	170	1	**5313040170**
PP 3005	ABS	400	300	220	1	**5313040220**
PP 3006	ABS	500	350	190	1	**5313550190**
PP 3007	ABS	500	400	240	1	**5314050240**
PP 3008	ABS	600	400	200	1	**5314060190**

Note: Open door angle 180°



ABS halogen free distribution boards PP series- transparent door

Board Type	Material Type	H (mm)	L (mm)	W (mm)	Packing / Box	Catalogue number
PP 3011	ABS	300	200	130	1	**5342030130**
PP 3012	ABS	350	250	150	1	**5342535150**
PP 3014	ABS	400	300	170	1	**5343040170**
PP 3015	ABS	400	300	220	1	**5343040220**
PP 3016	ABS	500	350	190	1	**5343550190**
PP 3017	ABS	500	400	240	1	**5344050240**
PP 3018	ABS	600	400	200	1	**5344060190**
PP 3020	ABS	700	500	250	1	**5345070250**



ABS halogen free distribution module boards PP series- transparent door

Board Type	Material Type	H (mm)	L (mm)	W (mm)	Packing / Box	Catalogue number
PP 3112-18modules	ABS	350	250	150	1	**5322535150**
PP 3114-24modules	ABS	400	300	170	1	**5323040170**
PP 3116-45modules	ABS	500	350	190	1	**5323550190**
PP 3118-60modules	ABS	600	400	200	1	**5324060190**

Note: Transperent door

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.

SURFACE MOUNTING POLYESTER BOARDS EC SERIES IP65

3+2 standard +extended 5 YEAR TOTAL WARRANTY

TECHNICAL SPECIFICATIONS:

- Colour: grey RAL 7035.
- IP65 protection degree.
- Material: made of halogen free reinforced fiberglass polyester, self-extinguishing V0 degree according to UL94.
- Double insulation, shock resistance: IK10, 20j, according to EN 62262.
- Application temperature: minimum –25°, maximum +65°.
- Resistance to abnormal heat (GWT)- board with blank door up to 960°C - board with transparent window up to 650°C.
- Application voltage 1000V, suitable for photovoltaic plants.
- Right or left reversible door with stainless steel pins – it can be opened more than 180°.
- Plain and smooth headboards for easy opening and conduit inlet.
- Removable frame ready to install slotted trunkings in the back.
- Back plates made up of metal or insulating material can be fixed directly to the board back, also if the frame is used, or can be adjusted to different heights through the kit EC625REG.
- Possibility to mount 48-75mm high switches or 102mm high switches starting from the board with dimensions 435x505x215.
- One-Screw-System: only one type of screws is used for the different accessories in order to permit a simple and easy assembly.
- Left or right reversible counter door with stainless steel pins, ergonomic handle, triangle lock, adjustable at two different heights with reference grid for the fixing of the devices.
- Fixing of the single/double blank or windowed panels through a ¼ turn screws.



Halogen free polyester boards EC series- blank door

Type	Material	H (mm)	L (mm)	W (mm)	Packing /Box	Catalogue number
PBBD 5001	Polyester	305	270	170	1	**5332730170**
PBBD 5002	Polyester	430	325	185	1	**5333243185**
PBBD 5003	Polyester	505	435	215	1	**5334350215**
PBBD 5004	Polyester	655	435	215	1	**5334365215**
PBBD 5005	Polyester	655	545	265	1	**5335465265**
PBBD 5006	Polyester	810	620	320	1	**5336281320**



*Detailed installation instructions and information about the functions and applications of all additional accessories for polyester boxes, you can find on: www.elmarkholding.eu

Halogen free polyester boards EC series- transparent door

Type	Material	H (mm)	L (mm)	W (mm)	Packing /Box	Catalogue number
PBTD 5001	Polyester	305	270	170	1	**5362730170**
PBTD 5002	Polyester	430	325	185	1	**5363243185**
PBTD 5003	Polyester	505	435	215	1	**5364350215**
PBTD 5004	Polyester	655	435	215	1	**5364365215**
PBTD 5005	Polyester	655	545	265	1	**5365465265**
PBTD 5006	Polyester	810	620	320	1	**5366281320**



Polyester hinger counterdoor EC

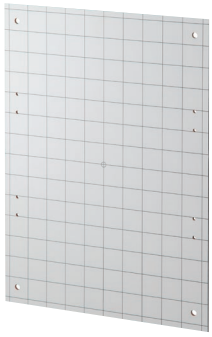
Type	Material	Used for type boards	Packing /Box	Catalogue number
CD 5002	Polyester	PBTD/PBBD 5002	1	**53502CD**
CD 5003	Polyester	PBTD/PBBD 5003	1	**53503CD**
CD 5004	Polyester	PBTD/PBBD 5004	1	**53504CD**
CD 5005	Polyester	PBTD/PBBD 5005	1	**53505CD**
CD 5006	Polyester	PBTD/PBBD 5006	1	**53506CD**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



Metal back plate EC

Type	Dimensions	Used for type boards	Packing /Box	Catalogue number
MP 5001	207x239	PBTD/PBBD 5001	1	**53501MP**
MP 5002	264x364	PBTD/PBBD 5002	1	**53502MP**
MP 5003	372x439	PBTD/PBBD 5003	1	**53503MP**
MP 5004	372x589	PBTD/PBBD 5004	1	**53504MP**
MP 5005	482x589	PBTD/PBBD 5005	1	**53505MP**
MP 5006	556x739	PBTD/PBBD 5006	1	**53506MP**



Insulanting plastic back plate EC

Type	Dimensions	Used for type boards	Packing /Box	Catalogue number
IBP 5001	207x239	PBTD/PBBD 5001	1	**53501IBP**
IBP5002	264x364	PBTD/PBBD 5002	1	**53502IBP**
IBP5003	372x439	PBTD/PBBD 5003	1	**53503IBP**
IBP 5004	372x589	PBTD/PBBD 5004	1	**53504IBP**
IBP 5005	482x589	PBTD/PBBD 5005	1	**53505IBP**
IBP 5006	556x739	PBTD/PBBD 5006	1	**53506IBP**



Pair of uprights for rail DIN and panels EC

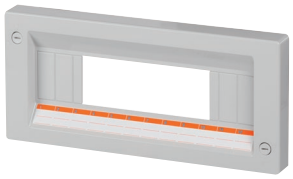
Type	Used for type boards	Packing /Box	Catalogue number
DP 5002	PBTD/PBBD 5002	1 pair	**53502DP**
DP 5003	PBTD/PBBD 5003	1 pair	**53503DP**
DP 5004	PBTD/PBBD 5004/5005	1 pair	**53504DP**
DP 5006	PBTD/PBBD 5006	1 pair	**53506DP**



DIN rail with support EC

Type	Module capacity	Used for type boards	Packing /Box	Catalogue number
DS 5002	12	PBTD/PBBD 5002	1	**53502DS**
DS 5003	18	PBTD/PBBD 5003/5004	1	**53503DS**
DS 5004	24	PBTD/PBBD 5005	1	**53504DS**
DS 5005	28	PBTD/PBBD 5006	1	**53505DS**

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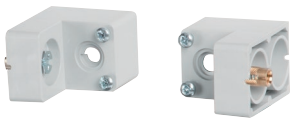
Cover module with window EC

Type	Module capacity	Used for type boards	Packing /Box	Catalogue number
CMW 5002	12	PBTD/PBBD 5002	1	**53502CMW**
CMW 5003	18	PBTD/PBBD 5003/5004	1	**53503CMW**
CMW 5004	24	PBTD/PBBD 5005	1	**53504CMW**
CMW 5005	28	PBTD/PBBD 5006	1	**53505CMW**



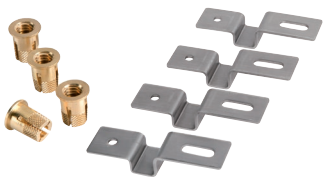
Blank cover module EC

Type	Heigth of single/ double cover (mm)	Used for type boards	Packing / Box	Catalogue number single cover	Catalogue number double cover
Blank cover module	125/250	PBTD/PBBD 5002	1	**53502S**	**53502D**
	150/300	PBTD/PBBD 5003/5004	1	**53503S**	**53503D**
	150/300	PBTD/PBBD 5005	1	**53505S**	**53505D**
	150/300	PBTD/PBBD 5006	1	**53506S**	**53506D**



Deep adjusment back plate kit EC

Type	Used for type boards	Need kits	Packing /Box	Catalogue number
Deep adjusment back plate kit	PBTD/PBBD 5002/5003	2kit	1 kit (2 pcs)	**53507**
	PBTD/PBBD 5004/5005	3kit	1 kit (2 pcs)	**53507**
	PBTD/PBBD 5006	4kit	1 kit (2 pcs)	**53507**



Spare brass and brackets for fixing- galvanized EC

Type	Used for type boards	Packing /Box	Catalogue number
Galvanized brackets	All type	1 kit (4 pcs)	**53510**
Spare brass insert kit	All type	1 kit (10 pcs)	**53512**



Safety lock EC

Type	Used for type boards	Packing /Box	Catalogue number
Safety lock	All type	1	**53511**

Note: Lock supplied with two unified keys. The keys are inified and open all the locks

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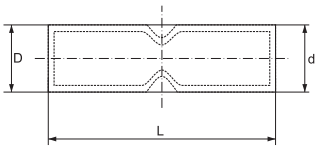


CONNECTION TUBES - GTY TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Copper pipes with galvanic tin coating, used for joining of copper rigid or multicore conductors with different sections. The assembling is made by mechanical pressing with crimping tool.

TECHNICAL DATA:
- Material: copper alloy
- Coating: tin
- Application: general



Type	Length L (mm)	Outer diameter D (mm)	Inner diameter d (mm)	Cable (mm²)	Packing / Box (pcs)	Catalogue number
GTY-4	20	5	3	4	1000 / 16000	**59213**
GTY-6	25	5.3	3.7	6	500 / 1500 / 12000	**59201**
GTY-10	30	6.3	4.5	10	500 / 1500 / 12000	**59202**
GTY-16	35	7.5	5.7	16	100 / 200 / 4800	**59203**
GTY-25	40	9	7.2	25	100 / 500 / 2000	**59204**
GTY-35	45	10.8	8.5	35	100 / 200 / 1600	**59205**
GTY-50	50	12.5	9.8	50	20 / 200 / 1600	**59206**
GTY-70	55	14.5	11.5	70	10 / 100 / 800	**59207**
GTY-95	60	17	13.7	95	10 / 80 / 640	**59208**
GTY-120	65	19	15	120	10 / 60 / 480	**59209**
GTY-150	70	21	16.7	150	10 / 50 / 400	**59210**
GTY-185	75	23	18.5	185	10 / 40 / 320	**59211**
GTY-240	80	26	21	240	10 / 30 / 240	**59212**

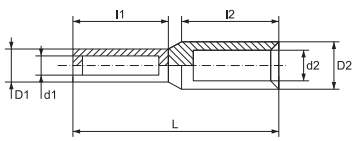


BIMETALLIC CONNECTION TUBE - GTL TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Pipes made of two metals – copper and aluminum without galvanic coating. They are designed for joining copper and aluminum conductors – rigid or multicore conductors with different section. The connection is accomplished through crimping pliers, through mechanical pressing of the butt terminals and the conductor. They are used for protection against electrochemical corrosion got at two metals contact with different chemical properties and conductivity at electrical current feed. They are manufactured under modern technology and have high quality and long exploitation period.

TECHNICAL DATA:
- Material: copper aluminum alloy
- Coating: none
- Application: general for joining of two types of conductors



Type	d1	D1	d2	D2	l1	l2	L	Packing / Box (pcs)	Catalogue number
GTL - 16	5	9	6	10	30	30	75	20 / 200 / 1200	**59214**
GTL - 25	6	10	7	12	30	33	82	20 / 400 / 1500	**59215**
GTL - 35	7	11	8.5	14	30	40	90	20 / 300 / 1000	**59216**
GTL - 50	8.5	13	9.8	16	32	42	95	20 / 800	**59217**
GTL - 70	9.5	15	11.5	18	38	50	105	10 / 600	**59218**
GTL - 95	11.5	17	13.5	21	40	50	110	10 / 500	**59219**
GTL - 120	13.5	19	15	23	42	55	112	10 / 400	**59220**
GTL - 150	15	21	17	25	44	55	118	10 / 350	**59221**
GTL - 185	17	23	18.5	27	46	60	125	10 / 300	**59222**
GTL - 240	19	26	21	30	54	60	130	10 / 200	**59223**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

CABLE TERMINALS NON-ISOLATED - JM TYPE

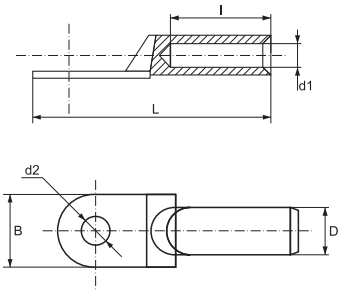
3+0 standard +extended 3 YEAR TOTAL WARRANTY



They are used for joining copper conductors - multicore conductors with different section to electrical devices or connections to combine all cores of the conductor, to provide safe connection at tightening in terminals and safe connection at the base of the terminal. Thus the connection stability against vibrations is increased and the possibility for short circuit is decreased. They are made of copper alloy with galvanic tin coating. The connection is realized through crimping pliers, through mechanic pressing of the terminal and conductor. Two types are offered with standard length SC and extended base JM. They are manufactured under modern technology and have high quality and long exploitation period.

TECHNICAL DATA:

- Material: copper alloy
- Coating: tin
- Application: general for joining conductors to electrical devices.



Type	d1 (mm)	D (mm)	d2 (mm)	L (mm)	Packing / Box (pcs)	Catalogue number
JM - 2.5/6	2.2	4.5	6	24	1000 / 3000 / 24000	**59240**
JM - 4/6	3.0	4.8	6	24	1000 / 2000 / 16000	**59241**
JM - 6/6	3.8	5.5	6	24	500 / 2000 / 16000	**59035**
JM - 6/8	3.8	5.5	8	2 4	500 / 2000 / 16000	**59059**
JM - 10/6	4.8	6.8	6	25.5	100 / 1500 / 12000	**59036**
JM - 10/8	4.8	6.8	8	25.5	500 / 1500 / 12000	**59037**
JM - 16/6	5.5	7.5	6	30.5	400 / 800 / 6400	**59038**
JM - 16/8	5.5	7.5	8	30.5	400 / 800 / 6400	**59039**
JM - 16/10	5.5	7.5	10	30.5	400 / 800 / 6400	**59040**
JM - 25/8	7	9	8	34	100 / 500 / 4000	**59041**
JM - 25/10	7	9	10	34	250 / 500 / 4000	**59042**
JM - 35/8	8.2	10.5	8	38	200 / 400 / 3200	**59043**
JM - 35/10	8.2	10.5	10	38	200 / 400 / 3200	**59044**
JM - 35/12	8.2	10.5	12	38	200 / 400 / 3200	**59045**
JM - 50/8	9.8	12.5	8	45	100 / 200 / 1600	**59046**
JM - 50/10	9.8	12.5	10	45	100 / 100 / 1600	**59047**
JM - 50/12	9.8	12.5	12	45	100 / 200 / 1600	**59048**
JM - 70/10	11.5	14.5	10	50	80 / 100 / 1280	**59049**
JM - 70/12	11.5	14.5	12	50	80 / 100 / 1280	**59050**
JM - 95/10	13.8	17.5	10	55.5	50 / 200 / 800	**59051**
JM - 95/12	13.8	17.5	12	55.5	50 / 200 / 800	**59052**
JM - 120/10	15.5	19.5	10	63	30 / 60 / 480	**59053**
JM - 120/12	15.5	19.5	12	63	30 / 60 / 480	**59054**
JM - 150/12	16.5	21	12	71	10 / 50 / 400	**59055**
JM - 185/12	18.8	23.5	12	78	10 / 40 / 320	**59056**
JM - 185/16	18.8	23.5	16	78	10 / 40 / 320	**59057**
JM - 240/16	21.3	26.5	16	92	10 / 30 / 240	**59058**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

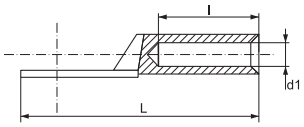
BIMETALIC NON-ISOLATED CABLE TERMINALS FOR CRIMPING DTL

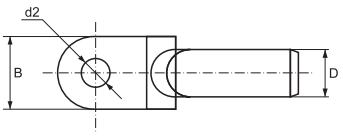
3+0 standard +extended 3 YEAR TOTAL WARRANTY



They are used for joining aluminum conductors - multicore conductors with different section to electrical devices or connections to combine all cores of the conductor, to provide safe connection at tightening in terminals and safe connection at the base of the terminal. Thus the connection stability against vibrations is increased and the possibility for short circuit is decreased. They are made of copper and aluminum alloys as in the aluminum billet is made under special technology the copper terminal formed like an ear. The connection is realized through crimping pliers, through mechanic pressing of the terminal and conductor.

TECHNICAL DATA: Material: copper aluminum; Application: general for joining conductors to electrical devices.





Type	d1 (mm)	D (mm)	d2 (mm)	L (mm)	l (mm)	B (mm)	Packing / Box (pcs)	Catalogue number
DTL - 1 - 16	6	11	8	70	30	16	20 / 200 / 1440	**59224**
DTL - 1 - 25	7	12	8	75	34	18	20 / 180 / 1080	**59225**
DTL - 1 - 35	8.5	14	10	85	38	20.5	20 / 100 / 600	**59226**
DTL - 1 - 50	9.8	16	10	90	40	23	20 / 70 / 420	**59227**
DTL - 1 - 70	11.5	18	12	102	48	26	10 / 60 / 360	**59228**
DTL - 1 - 95	13.5	21	12	112	50	28	10 / 40 / 180	**59229**
DTL - 1 - 120	15	23	14	120	53	30	10 / 30 / 120	**59230**
DTL - 1 - 150	16.5	25	14	126	56	34	5 / 25 / 120	**59231**
DTL - 1 - 185	18.5	27	16	133	58	37	5 / 20 / 120	**59232**
DTL - 1 - 240	21	30	16	140	60	40	4 / 12 / 72	**59233**

COPPER CABLE WIRE FORK TERMINAL CONNECTOR

3+0 standard +extended 3 YEAR TOTAL WARRANTY



Type	Length (mm)	Colour	Conductor (mm^2)	Packing (pcs.)	Packing / Box (pcs.)	Catalogue number
SVS1.25-4	21.2	Red	0.5-1.0	100	10 / 240	**59080**
SVS1.25-5	21.2	Red	0.5-1.0	100	15 / 180	**59081**
SVS1.25-6	21.2	Red	0.5-1.0	100	15 / 180	**59082**
SVS 2-4	21.0	Blue	1.5-2.5	100	15 / 180	**59083**
SVS 2-5	22.5	Blue	1.5-2.5	100	15 / 180	**59084**
SVS 2-6	27,6	Blue	1.5-2.5	100	10 / 120	**59085**
SVS 5,5-4	24.5	Yellow	4.0-6.0	100	5 / 60	**59086**
SVS 5,5-5	27,9	Yellow	4.0-6.0	100	5 / 60	**59087**
SVS 5,5-6	27,9	Yellow	4.0-6.0	100	5 / 60	**59088**

ISOLATED CABLE TERMINALS - CHS TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY



Type	Length (mm)	Conductor (mm^2)	Packing / Box (pcs.)	Packing / Box (pcs.)	Catalogue number
CHS3	18.1	0.25-1.5	100	250	**59115**
CHS4	20.1	1.5-2.5	100	200	**59116**
CHS5	25.5	4.0-6.0	100	200	**59117**
CHS6	27.3	8.0	100	100	**59118**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



ISOLATED CABLE JOINTS

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Metal pipes with outside PVC insulation. They are used for joining/extending multicore conductors with section up to 6mm^2. It increases the connection stability against vibrations and decreases the possibility for short circuit. The connection is realized through crimping pliers, through mechanic pressing of the terminal and conductor. The different insulation colour corresponds to different conductor sections.

TECHNICAL DATA:
- Material: copper alloy
- Coating: polyvinylchloride
- Application: general for joining of copper conductors

Type	Length (mm)	Colour	Conductor (mm^2)	Packing (pcs.)	Packing / Box (pcs.)	Catalogue number
PVT 1.25	16	red	0.5-1.0	100	15 / 300	**59015**
BV 1.25	25	red	0.5-1.0	100	10 / 120	**59001**
PVT 2	16	blue	1.5-2.5	100	15 / 300	**59034**
BV 2	25	blue	1.5-2.5	100	10 / 60	**59002**
PVT 5.5	20	yellow	4.0-6.0	100	5 / 60	**59014**
BV 5.5	25	yellow	4.0-6.0	100	5 / 60	**59003**



ISOLATED CABLE TERMINALS - MDD/FDD TYPES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

They represent a cable terminal made of brass alloy with galvanic tin coating and insulated with polyvinylchloride. They are used as non-insulated terminals, as the insulated part protects the cores from bending and breaking in the joining point and at the same time it protects the staff from direct contact to the current - carrying parts. They are used for conductors with section up to 6 mm. The connection is realized through crimping pliers, through mechanic pressing of the terminal and cable. The different insulation colour corresponds to different conductor sections. They are manufactured under modern technology and have high quality and long exploitation period.
All insulated cable terminals are being offered in 100 pcs. packing

TECHNICAL DATA:
- Material: copper alloy
- Coating: polyvinylchloride
- Application: general for joining copper conductors
- Ambient temperature: -10 to +75°C

Type	Shape	Colour	Conductor (mm^2)	Shoe width	Packing (pcs.)	Packing / Box (pcs.)	Catalogue number
MDD 1.25 - 187	male	red	0.5-1.0	187	100	10 / 240	**59012**
MDD 1.25 - 250	male	red	0.5-1.0	250	100	10 / 240	**59009**
MDD 2 - 187	male	blue	1.5-2.5	187	100	10 / 240	**59013**
MDD 2 - 250	male	blue	1.5-2.5	250	100	10 / 180	**59011**
MDD 5.5 - 250	male	yellow	4.0-6.0	250	100	10 / 120	**59010**
FDD 1.25 - 187	female	red	0.5-1.0	187	100	20 / 240	**59008**
FDD 1.25 - 187	female	red	0.5-1.0	250	100	15 / 180	**59006**
FDD 2 - 187	female	blue	1.5-2.5	187	100	20 / 240	**59007**
FDD 2 - 250	female	blue	1.5-2.5	250	100	10 / 180	**59004**
FDD 5.5 - 250	female	yellow	4.0-6.0	250	100	10 / 120	**59005**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



ISOLATED CABLE TERMINALS - E TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Colour	Terminal length (mm)	Conductor (mm^2)	Packing (pcs.)	Packing / Box (pcs.)	Catalogue number
E0508	white	8	0.5	100	50 / 600	**59023**
E7508	blue	8	0.75	100	50 / 600	**59024**
E1008	red	8	1.0	100	50 / 600	**59025**
E1510	black	10	1.5	100	30 / 360	**59026**
E2512	grey	12	2.5	100	30 / 300	**59027**
E4012	orange	12	4.0	100	20 / 240	**59028**
E6018	green	18	6.0	100	5 / 120	**59029**
E10-18	dark green	18	10	100	8 / 96	**59030**
E16-18	milky yellow	18	16	100	6 / 60	**59031**
E25-16	black	16	25	100	5 / 36	**59032**
E35-25	grey-yellow	25	35	100	2 / 24	**59033**



TWIN ISOLATED CABLE TERMINALS- TE TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Colour	Terminal length (mm)	Conductor (mm^2)	Packing (pcs.)	Packing / Box (pcs.)	Catalogue number
TE0508	white	8	2x0.5	100	50 / 600	**59023TE**
TE7508	Blue	8	2x0.75	100	50 / 600	**59024TE**
TE1008	Red	8	2x1.0	100	50 / 600	**59025TE**
TE1508	black	8	2x1.5	100	30 / 360	**59026TE**
TE2510	grey	10	2x2.5	100	30 / 300	**59027TE**
TE4010	orange	10	2x4.0	100	20 / 240	**59028TE**
TE6014	green	14	2x6.0	100	5 / 120	**59029TE**
TE10-14	dark green	14	2x10.0	100	8 / 96	**59030TE**
TE16-14	milky yellow	14	2x16.0	100	6 / 60	**59031TE**



ISOLATED CABLE TERMINALS - PTV TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Shape	Colour	Conductor (mm^2)	Shoe width	Packing (pcs.)	Packing / Box (pcs.)	Catalogue number
PTV 1.25 - 10	male	red	0.25-1.0	1.9	100	20 / 240	**59101**
PTV 1.25 - 12	male	red	0.25-1.0	1.9	100	20 / 240	**59102**
PTV 2 - 10	male	blue	1.5-2.5	1.9	100	20 / 240	**59103**
PTV 2 - 12	male	blue	1.5-2.5	1.9	100	15 / 180	**59104**
PTV 5.5 - 13	male	yellow	4.0-6.0	2.9	100	8 / 96	**59105**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

ISOLATED CABLE TERMINALS - RVL TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY



Type	Size of the opening (mm)	Colour	Conductor (mm^2)	Packing (pcs.)	Packing / Box (pcs.)	Catalogue number
RVL 1.25-4	4	red	0.5-1.0	100	20 / 240	**59021**
RVL 1.25-5	5	red	0.5-1.0	100	15 / 180	**59022**
RVL 2-4	4	blue	1.5-2.5	100	15 / 180	**59018**
RVL 2-5	5	blue	1.5-2.5	100	10 / 120	**59019**
RVL 5.5-4	4	yellow	4.0-6.0	100	8 / 96	**59020**
RV 5.5-5	5	yellow	4.0-6.0	100	8 / 96	**59016**
RV 5.5-6	6	yellow	4.0-6.0	100	8 / 96	**59017**

ISOLATED CABLE TERMINALS - PBDD TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY



Type	Shape	Colour	Conductor (mm^2)	Shoe width	Packing (pcs.)	Packing / Box (pcs.)	Catalogue number
PBDD 1.25 - 250	male	red	0.25-1.0	6.3	100	5 / 60	**59106**
PBDD 2 - 250	male	blue	1.5-2.5	6.3	100	5 / 60	**59107**
PBDD 5.5 - 250	male	yellow	4.0-6.0	6.3	100	5 / 60	**59108**

ISOLATED CABLE TERMINALS - MPD TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY



Type	Shape	Colour	Conductor (mm^2)	Shoe width	Packing (pcs.)	Packing / Box (pcs.)	Catalogue number
MPD 1.25 - 156	male	red	0.25-1.0	6.3	100	10 / 240	**59109**
MPD 2 - 195	male	blue	1.5-2.5	6.3	100	10 / 120	**59110**
MPD 5.5 - 195	male	yellow	4.0-6.0	6.3	100	10 / 120	**59111**

ISOLATED CABLE TERMINALS - MDFN/FDFNY

3+0 standard +extended 3 YEAR TOTAL WARRANTY



Type	Shape	Colour	Conductor (mm^2)	Shoe width	Packing (pcs.)	Packing / Box (pcs.)	Catalogue number
MDFN 1.0 - 250	male	red	0.25-1.0	4	100	5 / 60	**59112**
MDFN 2 - 250	male	blue	1.5-2.5	4	100	5 / 60	**59113**
MDFN 5 - 250	male	yellow	4.0-6.0	5	100	4 / 48	**59114**
FDFNY 1.0 - 250	female	red	0.25-1.0	4	100	10 / 60	**59242**
FDFNY 2 - 250	female	blue	1.5-2.5	4	100	10 / 60	**59243**
FDFNY 5 - 250	female	yellow	4.0-6.0	5	100	10 / 60	**59244**

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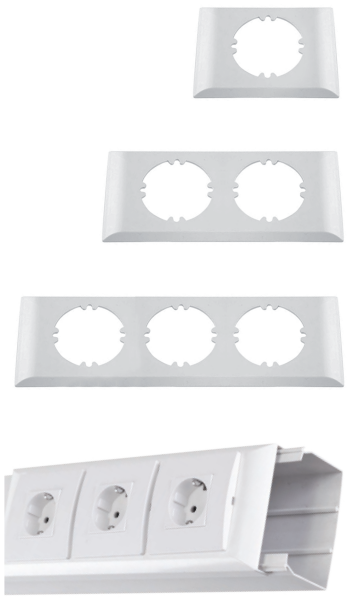


PLASTIC CABLE TRUNKING CT2

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Cable trunkings are practical solution of organizing power and communication cables in office and residential buildings. They increase the reliability in operation of the electrical systems and allow quick adaptation if necessary to rearrange the interior. Fast and simple installation. In combination with a wide range of accessories, building irregularities are quickly overcome. Non- flammable material, easy to cut and paint.

Type	Size (mm)	Length	Colour	Packing (pcs)	Catalogue number
PLASTIC CABLE TRUNKING CT2	12x12	2m	white	100	**5621212**
PLASTIC CABLE TRUNKING CT2	15X10	2m	white	100	**5621510**
PLASTIC CABLE TRUNKING CT2	16X16	2m	white	100	**5621616**
PLASTIC CABLE TRUNKING CT2	20X10	2m	white	100	**5622010**
PLASTIC CABLE TRUNKING CT2	25X16	2m	white	80	**5622516**
PLASTIC CABLE TRUNKING CT2	25X25	2m	white	50	**5622525**
PLASTIC CABLE TRUNKING CT2	40X16	2m	white	50	**5624016**
PLASTIC CABLE TRUNKING CT2	40X25	2m	white	50	**5624025**
PLASTIC CABLE TRUNKING CT2	40X40	2m	white	40	**5624040**
PLASTIC CABLE TRUNKING CT2	60X40	2m	white	30	**5626040**
PLASTIC CABLE TRUNKING CT2	60X60	2m	white	32	**5626060**
PLASTIC CABLE TRUNKING CT2	80X40	2m	white	18	**5628040**
PLASTIC CABLE TRUNKING CT2	80X60	2m	white	24	**5628060**
PLASTIC CABLE TRUNKING CT2	100X40	2m	white	16	**56210040**
PLASTIC CABLE TRUNKING CT2	100X60	2m	white	16	**56210060**



SWITCHES AND SOCKETS FRAMES FOR CABLE TRUNKING

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Cable trunking frames are decorative solution for installation of switches and sockets on places where their normal mounting is not possible. The assembly set includes subframe and main white frame. Universal sizes, suitable for mounting of switches and sockets from different manufacturers. Single, double and triple frames are offered.

Type	Used for cable trunking	Colour	Packing (pcs)	Catalogue number
SINGLE FRAME	100X40/100X60	White	20	**562100441**
DOUBLE FRAME	100X40/100X60	White	14	**562100442**
TRIPLE FRAME	100X40/100X60	White	5	**562100443**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



OUTSIDE CORNER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Used for cable trunking	Colour	Packing (pcs)	Catalogue number
OUTSIDE CORNER	12x12	white	50	**56212121**
OUTSIDE CORNER	15X10	white	50	**56215101**
OUTSIDE CORNER	16X16	white	50	**56216161**
OUTSIDE CORNER	25X16	white	30	**56225161**
OUTSIDE CORNER	25X25	white	30	**56225251**
OUTSIDE CORNER	40X16	white	30	**56240161**
OUTSIDE CORNER	40X25	white	30	**56240251**
OUTSIDE CORNER	40X40	white	30	**56240401**
OUTSIDE CORNER	60X40	white	10	**56260401**
OUTSIDE CORNER	60X60	white	10	**56260601**
OUTSIDE CORNER	80X40	white	8	**56280401**
OUTSIDE CORNER	80X60	white	8	**56280601**
OUTSIDE CORNER	100X40	white	6	**562100401**
OUTSIDE CORNER	100X60	white	6	**562100601**

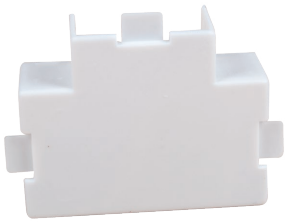


INSIDE CORNER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Used for cable trunking	Colour	Packing (pcs)	Catalogue number
INSIDE CORNER	12x12	white	50	**56212122**
INSIDE CORNER	15X10	white	50	**56215102**
INSIDE CORNER	16X16	white	50	**56216162**
INSIDE CORNER	25X16	white	30	**56225162**
INSIDE CORNER	25X25	white	30	**56225252**
INSIDE CORNER	40X16	white	30	**56240162**
INSIDE CORNER	40X25	white	30	**56240252**
INSIDE CORNER	40X40	white	30	**56240402**
INSIDE CORNER	60X40	white	10	**56260402**
INSIDE CORNER	60X60	white	10	**56260602**
INSIDE CORNER	80X40	white	8	**56280402**
INSIDE CORNER	80X60	white	8	**56280602**
INSIDE CORNER	100X40	white	6	**562100402**
INSIDE CORNER	100X60	white	6	**562100602**

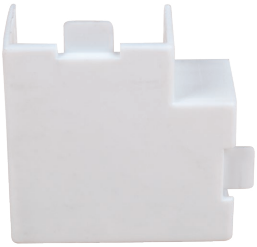
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



T- CORNER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Used for cable trunking	Colour	Packing (pcs)	Catalogue number
T- corner	12x12	white	50	**56212123**
T- corner	15X10	white	50	**56215103**
T- corner	16X16	white	50	**56216163**
T- corner	25X16	white	20	**56225163**
T- corner	25X25	white	20	**56225253**
T- corner	40X16	white	30	**56240163**
T- corner	40X25	white	30	**56240253**
T- corner	40X40	white	30	**56240403**
T- corner	60X40	white	16	**56260403**
T- corner	60X60	white	16	**56260603**
T- corner	80X40	white	8	**56280403**
T- corner	80X60	white	8	**56280603**
T- corner	100X40	white	8	**562100403**
T- corner	100X60	white	8	**562100603**



L- CORNER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Used for cable trunking	Colour	Packing (pcs)	Catalogue number
L- corner	12x12	white	50	**56212124**
L- corner	15X10	white	50	**56215104**
L- corner	16X16	white	50	**56216164**
L- corner	25X16	white	30	**56225164**
L- corner	25X25	white	30	**56225254**
L- corner	40X16	white	30	**56240164**
L- corner	40X25	white	30	**56240254**
L- corner	40X40	white	30	**56240404**
L- corner	60X40	white	16	**56260404**
L- corner	60X60	white	16	**56260604**
L- corner	80X40	white	12	**56280404**
L- corner	80X60	white	12	**56280604**
L- corner	100X40	white	8	**562100404**
L- corner	100X60	white	8	**562100604**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.

CONNECTOR



3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Used for cable trunking	Colour	Packing (pcs)	Catalogue number
Connector	12x12	white	50	**56212125**
Connector	15X10	white	50	**56215105**
Connector	16X16	white	50	**56216165**
Connector	25X16	white	30	**56225165**
Connector	25X25	white	30	**56225255**
Connector	40X16	white	30	**56240165**
Connector	40X25	white	30	**56240255**
Connector	40X40	white	30	**56240405**
Connector	60X40	white	25	**56260405**
Connector	60X60	white	25	**56260605**
Connector	80X40	white	50	**56280405**
Connector	80X60	white	50	**56280605**
Connector	100X40	white	50	**562100405**
Connector	100X60	white	30	**562100605**

END CAP



3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Used for cable trunking	Colour	Packing (pcs)	Catalogue number
End cap	12x12	white	50	**56212126**
End cap	15X10	white	50	**56215106**
End cap	16X16	white	50	**56216166**
End cap	25X16	white	50	**56225166**
End cap	25X25	white	50	**56225256**
End cap	40X16	white	30	**56240166**
End cap	40X25	white	30	**56240256**
End cap	40X40	white	30	**56240406**
End cap	60X40	white	50	**56260406**
End cap	60X60	white	50	**56260606**
End cap	80X40	white	60	**56280406**
End cap	80X60	white	60	**56280606**
End cap	100X40	white	50	**562100406**
End cap	100X60	white	50	**562100606**

SEPARATOR



3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Length (m)	Used for cable trunking	Colour	Packing (pcs)	Catalogue number
SEPARATOR 40	2	100x40	white	40	**56261111**
SEPARATOR 60	2	100x60	white	40	**56261112**

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PLASTIC CABLE TRUNKING SELF-ADHESIVE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Size (mm)	Length	Colour	Packing m/pcs	Catalogue number
Plastic cable trunking self-adhesive	12x12	2m	white	250/125	**5621212A**
	15x10	2m	white	250/125	**5621510A**
	16x16	2m	white	250/125	**5621616A**
	25x16	2m	white	100/50	**5622516A**
	25x25	2m	white	100/50	**5622525A**
	40x16	2m	white	50/25	**5624016A**
	40x25	2m	white	80/40	**5624025A**
	40x40	2m	white	80/40	**5624040A**



PLASTIC CABLE TRUNKING - DARK WALNUT

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Size (mm)	Length	Colour	Packing m/pcs	Catalogue number
Plastic cable trunking dark walnut	12x12	2m	dark walnut	250/125	**5621212DW**
	15x10	2m	dark walnut	250/125	**5621510DW**
	16x16	2m	dark walnut	250/125	**5621616DW**
	25x16	2m	dark walnut	150/75	**5622516DW**
	25x25	2m	dark walnut	100/50	**5622525DW**
	40x25	2m	dark walnut	80/40	**5624025DW**



PLASTIC CABLE TRUNKING - LIGHT BEECH

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Size (mm)	Length	Colour	Packing m/pcs	Catalogue number
Plastic cable trunking light beech	12x12	2m	light beech	250/125	**5621212LB**
	15x10	2m	light beech	250/125	**5621510LB**
	16x16	2m	light beech	250/125	**5621616LB**
	25x16	2m	light beech	150/75	**5622516LB**
	25x25	2m	light beech	100/50	**5622525LB**
	40x25	2m	light beech	80/40	**5624025LB**

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PLASTIC CABLE TRUNKING - PEAR

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Size (mm)	Length	Colour	Packing m/pcs	Catalogue number
Plastic cable trunking pear	12x12	2m	pear	250/125	**5621212P**
	15x10	2m	pear	250/125	**5621510P**
	16x16	2m	pear	250/125	**5621616P**
	25x16	2m	pear	150/75	**5622516P**
	25x25	2m	pear	100/50	**5622525P**
	40x25	2m	pear	80/40	**5624025P**



SLOTTED PLASTIC CABLE TRUNKING CT2

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Size (mm)	Length	Colour	Packing (pcs)	Catalogue number
Slotted plastic cable trunking CT2	25x25	2m	grey	196	**5622525S**
	25x40	2m	grey	64	**5622540S**
	40x40	2m	grey	64	**5624040S**
	40x60	2m	grey	60	**5624060S**
	60x40	2m	grey	60	**5626040S**
	60x60	2m	grey	48	**5626060S**
	80x60	2m	grey	40	**5628060S**
	100x40	2m	grey	32	**56210040S**
	100x60	2m	grey	32	**56210060S**



FLOOR TYPE PLASTIC CABLE TRUNKING CT2

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Size (mm)	Length	Colour	Packing (pcs)	Catalogue number
Floor type plastic cable trunking CT2	75x20	2m	grey	40	**5627520F**
	90x20	2m	grey	20	**5629020F**
	60x15	2m	white	60	**5626015F/WH**
	75x20	2m	white	40	**5627520F/WH**
	90x20	2m	white	20	**5629020F/WH**

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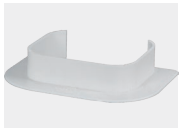
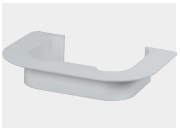


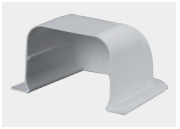
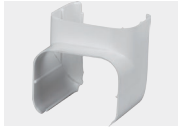
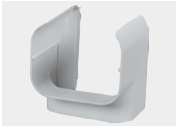
AIR CONDITIONING TRUNKING

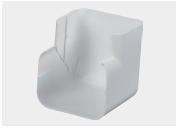
3+0 standard +extended 3 YEAR TOTAL WARRANTY

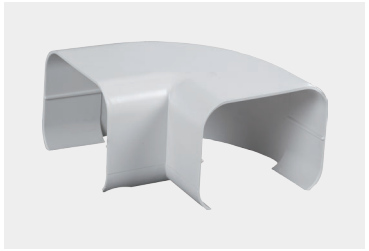
Type	Size (mm)	Length	Colour	Packing m/pcs	Catalogue number
PLASTIC TRUNKING	75x60	2	White	15/30	**5627560**





AIR CONDITIONING TRUNKING ACCESSORIES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Used for cable trunking	Colour	Packing pcs	Catalogue number
OUTSIDE CORNER	75x60	White	24	**56275601**
INSIDE CORNER	75x60	White	24	**56275602**
L- CORNER	75x60	White	18	**56275604**
CONNECTOR	75x60	White	40	**56275605**
INTERNAL CAP	75x60	White	30	**56275606**
EXTERNAL CAP	75x60	White	18	**56275607**
WALL PENETRATION	75x60	White		**56275608**
CABLE HOLDER	75x60	White		**56275609**

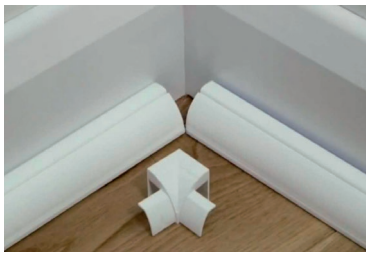
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CORNER TRUNKING

3+0 standard +extended 3 YEAR TOTAL WARRANTY

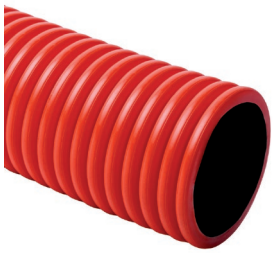
Type	Size (mm)	Length	Colour	Packing m/pcs	Catalogue number
Plastic cable trunking	23X23	2	White	60/120	**5622323**



CORNER TRUNKING ACCESSORIES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Used for cable trunking	Colour	Packing pcs	Catalogue number
Outside corner	23X23	White	1	**56223231**
Inside corner	23X23	White	1	**56223232**
T- corner	23X23	White	60	**56223233**
L- corner	23X23	White	60	**56223234**
Connector	23X23	White	100	**56223235**
End cap	23X23	White	100	**56223236**



FLEXIBLE DOUBLECOAT CORRUGATED PIPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

TECHNICAL DATA:
Material- HDPE;
Compresion resistance- 450 N/ 5 cm;
Colour- red
Fire reaction class: A1;
Minimum bending radius: 350 mm;
Temperature assembly resistance: -5 - +60 °C;
Halogen free

Type	Inner Diameter Φ (mm)	Outer Diameter Φ (mm)	Packing (m)	Catalogue number
Flexible doublecoat corrugated pipe	52	63	25	**M006017**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.

SELF-EXTINGUISHING PLIABLE CONDUITS EC

3+0 standard +extended 3 YEAR TOTAL WARRANTY

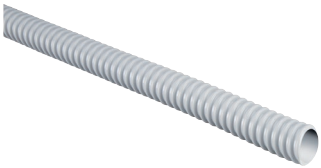


TECHNICAL DATA:
Material- technopolymer on PVC base, Self extinguishing V0 degree to UL94;
Compresion resistance- 320N; Standard- EN 61386-1; EN61386-22; RAL- 7035

Type	Inner Diameter Φ (mm)	Outer Diameter Φ (mm)	Packing (m)	Catalogue number
Self-extinguishing pliable conduits	10,7	16	100	**500M16**
Self-extinguishing pliable conduits	14,1	20	100	**500M20**
Self-extinguishing pliable conduits	18,2	25	50	**500M25**
Self-extinguishing pliable conduits	24,3	32	25	**500M32**
Self-extinguishing pliable conduits	32,3	40	25	**500M40**
Self-extinguishing pliable conduits with draw tape	10,7	16	100	**500N16**
Self-extinguishing pliable conduits with draw tape	14,1	20	100	**500N20**
Self-extinguishing pliable conduits with draw tape	18,2	25	50	**500N25**
Self-extinguishing pliable conduits with draw tape	24,3	32	25	**500N32**
Self-extinguishing pliable conduits with draw tape	32,3	40	25	**500N40**

SPIRAL FLEXIBLE PVC CONDUITS- UV RAYS RESISTANT EC

3+0 standard +extended 3 YEAR TOTAL WARRANTY



TECHNICAL DATA:
Material (spiral+cover)- shock resistance technopolymer on PVC base; Self extinguishing V0 degree to UL94;
Compresion resistance- 320N; Instalation temperature: -15/+70°C; Operating temperature: -5/+65°C; Type: UV rays resistance

Type	Inner Diameter Φ (mm)	Outer Diameter Φ (mm)	Packing (m)	Catalogue number
UV flexible pvc conduit	12	16,2	30	**500UV12**
	14	18,2	30	**500UV14**
	16	20,2	30	**500UV16**
	20	24,2	30	**500UV20**
	25	29,6	30	**500UV25**
	32	37,2	30	**500UV32**

SPIRAL FOR CABLES

3+0 standard +extended 3 YEAR TOTAL WARRANTY





Type	Colour	Internal diameter (mm)	External diameter (mm)	Coil length (m)	Catalogue number
Spiral 6x8mm	transparent	6	8	25	**500SP6T**
Spiral 6x8mm	black	6	8	25	**500SP6B**
Spiral 10x12mm	transparent	10	12	25	**500SP10T**
Spiral 10x12mm	black	10	12	25	**500SP10B**
Spiral 14x16mm	transparent	14	16	20	**500SP14T**
Spiral 14x16mm	black	14	16	20	**500SP14B**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



NYLON CABLE DRAW TAPE EC

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Diameter Φ (mm)	Length (m)	Colour	Packing (pcs)	Catalogue number
Nylon cable draw tape	3	5	Transparent	1/340	**500305**
	3	15	Transparent	1/120	**500315**



PVC INSULATED STEEL SPIRALS

3+0 standard +extended 3 YEAR TOTAL WARRANTY

TECHNICAL DATA:
Material - Galvanized steel, helically wound, flexible steel conduit with PVC coating
PVC-resistance against corrosion
Colour- black
Operating temperature: -5/+65

Type	Inner Diameter Φ (mm)	Outer Diameter Φ (mm)	Packing (m)	Catalogue number
PVC insulated steel spirals	11	15,2	50	**500P11**
	14	18,4	50	**500P14**
	16	20,4	50	**500P16**
	18	22,4	50	**500P18**
	26	30,4	25	**500P26**
	37	42,4	25	**500P37**

PVC SELF-EXTIGUISHING RIGID INSULATING CONDUIT EC

3+0 standard +extended 3 YEAR TOTAL WARRANTY



Rigid insulating conduit are practical solution of organizing power and communication cables in office and residential buildings. They increase the reliability in operation of the electrical systems. Fast and simple installation. In combination with a wide range of accessories, building irregularities are quickly overcome. Non-flammable material, easy to cut and paint.

TECHNICAL DATA:
Material - shock resistance technopolymer on rigid PVC base
Self extinguishing V0 degree to UL94
Compresion resistance- 320N
Standard- EN 61386-1; EN 61386-21

Type	External diameter Ø (mm)	Length (m)	Colour	IP code	Packing (pcs)	Catalogue number
Plastic cable conduit, with sleeve	16	3	GREY	40	34	**50016**
	20	3	GREY	40	34	**50020**
	25	3	GREY	40	20	**50025**
	32	3	GREY	40	10	**50032**
	40	3	GREY	40	10	**50040**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.

ACCESSORIES FOR PVC SELF-EXTIGUISHING RIGID INSULATING CONDUITS AND FLEXIBLE SPIRAL CONDUITS, IP 65 EC

3+0 standard +extended 3 YEAR TOTAL WARRANTY

TECHNICAL DATA:
Material- shock resistant technopolymer on PVC base
Self-extinguishing V0 degree to UL94
Glow wire test: up to 960°C
O-ring to compensate the conduit tolerances
Standard- EN 61386-1; EN61386-21
RAL- 7035



Type	Used for cable conduit ϕ (mm)	IP code	Colour	Packing/Box (pcs)	Catalogue number
PVC bend flexible	16	65	GREY	50/200	**500FB16**
	20	65	GREY	50/200	**500FB20**
	25	65	GREY	35/140	**500FB25**
	32	65	GREY	20/80	**500FB32**



Type	Used for cable conduit ϕ (mm)	IP code	Colour	Packing/Box (pcs)	Catalogue number
PVC bend 90°	16	65	GREY	100/1000	**500BB16**
	20	65	GREY	50/600	**500BB20**
	25	65	GREY	25/300	**500BB25**
	32	65	GREY	100	**500BB32**
	40	65	GREY	100	**500BB40**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



Type	Used for cable conduit ϕ (mm)	IP code	Colour	Packing/Box (pcs)	Catalogue number
Conduit-conduit PVC joint	16	65	GREY	10/350	**500CM16**
	20	65	GREY	10/350	**500CM20**
	25	65	GREY	10/200	**500CM25**
	32	65	GREY	10/100	**500CM32**
	40	65	GREY	5/80	**500CM40**



Type	Used for cable conduit ϕ (mm)	IP code	Colour	Packing/Box (pcs)	Catalogue number
Conduit-box PVC joint	16	65	GREY	10/350	**500CB16**
	20	65	GREY	10/350	**500CB20**
	25	65	GREY	10/200	**500CB25**
	32	65	GREY	10/100	**500CB32**
	40	65	GREY	5/80	**500CB40**



Type	Conduit diameter (mm)	Flexible spiral diameter (mm)	IP code	Colour	Packing/Box (pcs)	Catalogue number
PVC rigid conduit - flexible spiral conduits joint	16	12	65	GREY	10/350	**500DD16**
	20	16	65	GREY	10/350	**500DD20**
	25	20	65	GREY	10/200	**500DD25**
	32	25	65	GREY	10/100	**500DD32**
	40	32	65	GREY	5/100	**500DD40**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.

ACCESSORIES FOR PVC SELF-EXTIGUISHING RIGID INSULATING CONDUITS AND FLEXIBLE SPIRAL CONDUITS, IP 40 EC

3+0 standard +extended 3 YEAR TOTAL WARRANTY

TECHNICAL DATA:
Material- shock resistant technopolymer on PVC base
Self-extinguishing V0 degree to UL94
Glow wire test: up to 960°C
Standard- EN 61386-1; EN61386-21
RAL- 7035



Type	Used for cable conduit ϕ (mm)	IP code	Colour	Packing/Box (pcs)	Catalogue number
PVC bend flexible	16	44	GREY	50/200	**500FK16**
	20	44	GREY	50/200	**500FK20**
	25	44	GREY	35/140	**500FK25**
	32	44	GREY	20/80	**500FK32**



Type	Used for cable conduit ϕ (mm)	IP code	Colour	Packing/Box (pcs)	Catalogue number
PVC bend 90°	16	40	GREY	100/1000	**500BK16**
	20	40	GREY	50/600	**500BK20**
	25	40	GREY	25/300	**500BK25**
	32	40	GREY	100	**500BK32**
	40	40	GREY	100	**500BK40**



Type	Used for cable conduit ϕ (mm)	IP code	Colour	Packing/Box (pcs)	Catalogue number
Plastic bend small 90°	16	40	GREY	100/400	**500SK16**
	20	40	GREY	100/300	**500SK20**
	25	40	GREY	100/200	**500SK25**
	32	40	GREY	50/150	**500SK32**



Type	Used for cable conduit ϕ (mm)	IP code	Colour	Packing/Box (pcs)	Catalogue number
PVC T-joint	16	40	GREY	100/300	**500T16**
	20	40	GREY	100/200	**500T20**
	25	40	GREY	50/100	**500T25**
	32	40	GREY	50/100	**500T32**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



Type	Used for cable conduit ϕ (mm)	IP code	Colour	Packing/Box (pcs)	Catalogue number
PVC coupling	16	40	GREY	100/1200	**500C16**
	20	40	GREY	100/800	**500C20**
	25	40	GREY	50/500	**500C25**
	32	40	GREY	25/250	**500C32**
	40	40	GREY	25/150	**500C40**



Type	Used for cable conduit ϕ (mm)	Colour	Packing/Box (pcs)	Catalogue number
PVC conduit clips	16	GREY	100/1500	**500CC16**
	20	GREY	100/1000	**500CC20**
	25	GREY	100/1000	**500CC25**
	32	GREY	50/800	**500CC32**
	40	GREY	50/400	**500CC40**



Type	Used for cable conduit ϕ (mm)	Colour	Packing/Box (pcs)	Catalogue number
PVC conduit clips with plug and steel screw	16	GREY	100/1000	**500CS16**
	20	GREY	100/1000	**500CS20**
	25	GREY	100/800	**500CS25**
	32	GREY	50/400	**500CS32**



Type	Used for cable conduit ϕ (mm)	Colour	Packing/Box (pcs)	Catalogue number
PVC collar conduit clips	16	GREY	100/1000	**500CO16**
	20	GREY	100/1000	**500CO20**
	25	GREY	100/800	**500CO25**
	32	GREY	50/500	**500CO32**



Type	Length (mm)	Colour	Packing	Catalogue number
PVC modular fixing guide for clips	200	GREY	400	**500BC**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.

METAL CABLE TRAYS AND ACCESSORIES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

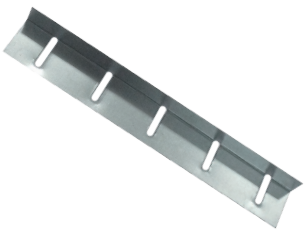
The universal cable support systems are used for construction of cable link in closed production premises for direct mounting on even vertical surfaces. They are perforated metal grates and accessories with standard lengths and sizes. They allow quick construction of cable systems with many angles and derivations.



Type	Size (mm)	Tickness	Length (mm)	Packing/Box (pcs)	Catalogue number
CT1 UT CABLE TRAY	40x50	0,8	2500	1	**56050825U**
CT1 UT CABLE TRAY	40x100	0,8	2500	1	**56100825U**
CT1 UT CABLE TRAY	40x150	0,8	2500	1	**56150825U**
CT1 UT CABLE TRAY	40x200	0,8	2500	1	**56200825U**
CT1 UT CABLE TRAY	40x300	0,8	2500	1	**56300825U**
CT1 UT CABLE TRAY	60x100	0,8	2500	1	**56100826U**
CT1 UT CABLE TRAY	60x200	0,8	2500	1	**56200826U**
CT1 UT CABLE TRAY	60x300	0,8	2500	1	**56300826U**



Type	Size (mm)	Tickness	Length (mm)	Packing/Box (pcs)	Catalogue number
CT1 CABLE TRAY COVER	10x50	0,8	2500	1	**56050825C**
CT1 CABLE TRAY COVER	10x100	0,8	2500	1	**56100825C**
CT1 CABLE TRAY COVER	10x150	0,8	2500	1	**56150825C**
CT1 CABLE TRAY COVER	10x200	0,8	2500	1	**56200825C**
CT1 CABLE TRAY COVER	10x300	0,8	2500	1	**56300825C**

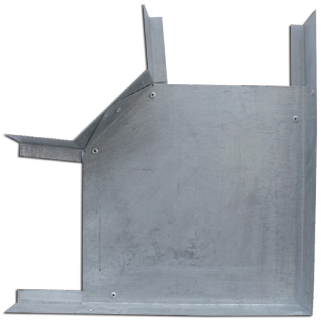


Type	Size (mm)	Length (mm)	Packing/Box (pcs)	Catalogue number
CT1 COUPLER FOR TRAYS WITH THE SAME SIZE	40	250	1	**56250C**

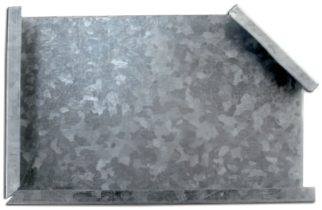


Type	Tickness	Length (mm)	Packing/Box (pcs)	Catalogue number
CT1 HANGING SUPPORT	1,5	100	1	**56100HSW**
CT1 HANGING SUPPORT	1,5	150	1	**56150HSW**
CT1 HANGING SUPPORT	1,5	200	1	**56200HSW**
CT1 HANGING SUPPORT	1,5	300	1	**56300HSW**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



Type	Tickness	Length (mm)	Packing/Box (pcs)	Catalogue number
ANGLE 90D	1.5	100X100	1	**5690100**
ANGLE 90D	1.5	150X150	1	**5690150**
ANGLE 90D	1.5	200X200	1	**5690200**
ANGLE 90D	1.5	300X300	1	**5690300**



Type	Metric bolt diameters	Length (mm)	Packing/Box (pcs)	Catalogue number
ANGLE COVER 90D	1.5	100x100	1	**5690100C**
ANGLE COVER 90D	1.5	150x150	1	**5690150C**
ANGLE COVER 90D	1.5	200x200	1	**5690200C**
ANGLE COVER 90D	1.5	300x300	1	**5690300C**



Type	Tickness	Usage	Packing/Box (pcs)	Catalogue number
CT1 HOLDER	1,5	for cable trays from 50-200mm	1	**56200HOL**
CT1 HOLDER	1,5	for cable trays 300mm	1	**56300HOL**



Type	Thread	Length (mm)	Grade	Packing/Box (pcs)	Catalogue number
THREADED HANGING ROD	M6	1000	4.8	100	**M517079**
THREADED HANGING ROD	M8	1000	4.8	50	**M517080**
THREADED HANGING ROD	M8	2000	4.8	50	**56082**
THREADED HANGING ROD	M10	1000	4.8	40	**M517078**
THREADED HANGING ROD	M10	2000	4.8	40	**56102**

Application: Suitable for fixing skirting, stud battens to wall and long runs of shelf support

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UNIVERSAL CONSOLE BOX FOR PLASTERBOARD

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	d (mm)	Packing (pcs)	Catalogue number
Console box for plasterboard- Φ65	65	240	**19273**



UNIVERSAL CONSOLE BOX-FLUSH MOUNTING

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	d (mm)	Packing (pcs)	Catalogue number
Console box- Φ65	65	300	**1927302**



CONSOLE BOX MULTI

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	d (mm)	Packing (pcs)	Catalogue number
Console box multi- Ø65	65	250	**1927301**



CONSOLE FOR BRICK AND CONCRETE ITALIAN TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Packing (pcs)	Catalogue number
Triple Console box for brick and concrete	10/300	**24203**
Quadruple Console box for brick and concrete	10/200	**71304**
Sixfold Console box for brick and concrete	10/200	**68206**



CONSOLE BOX FOR PLASTERBOARD ITALIAN TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Packing (pcs)	Catalogue number
Triple Console box for plasterboard	160	**24205**
Quadruple Console box for plasterboard	150	**24206**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days and for ITALIAN TYPE will be 90 days.



CONSOLE BOX FOR PLASTERBOARD ITALIAN TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Packing (pcs)	Catalogue number
Sixfold Console box for plasterboard	10/160	**26636**



DISTRIBUTION BOXES-SQUARE TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Size			Packing (pcs)	Catalogue number
	L	W	H		
Distribution Box 80/80/50	80	80	50	100	**1927402**
Distribution Box 100/100/50	100	100	50	100	**1927401**



DB FOR PLASTERBOARD-SQUARE TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Size			Packing (pcs)	Catalogue number
	L	W	H		
Distribution Box 80/80/45	80	80	45	100	**1927405**
Distribution Box 100/100/45	100	100	45	100	**1927404**



DB FOR PLASTERBOARD-ROUND TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	d (mm)	Packing (pcs)	Catalogue number
Distribution Box Φ65	65	240	**1927403**
Distribution Box Φ70	70	200	**1927407**
Distribution Box Φ80	80	100	**1927409**



DISTRIBUTION BOXES - ROUND TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	d (mm)	Packing (pcs)	Catalogue number
Distribution Box Φ70	70	300	**1927406**
Distribution Box Φ80	80	200	**1927408**

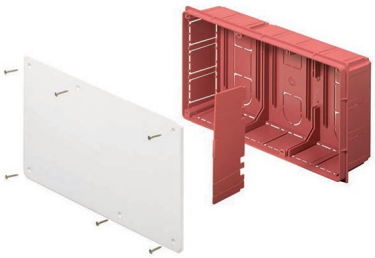
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days and for ITALIAN TYPE will be 45 days.



FLUSH MOUNTING JUNCTION BOX EC350 SERIES

2+0 standard +extended 2 YEAR TOTAL WARRANTY

TECHNICAL DATA:
Rated voltage: up to 1000V
Box material: Shock resistant technopolymer
Screw material: Anticorrosive galvanized steel
For quick and easy cables or conduits inlet- Side are pre-cutting
By the separator it is possible to divide the box into separate sections for different circuits
IP code: IP40



Type	Description	Box dimensions (mm)			Packing / Box	Catalogue number
		L	H	W		
EC350C4	Junction box	152	100	70	1/80	**1927410**
EC350C6	Junction box	196	152	70	1/40	**1927411**
EC350C7	Junction box	294	152	70	1/28	**1927412**
EC350C8	Junction box	392	152	70	1/20	**1927413**
EC3500S	Separator				10/100	**1927415**



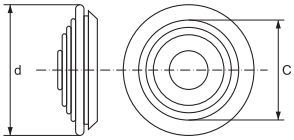
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.

WATERPROOF JUNCTION BOXES IP44

2+0 standard +extended 2 YEAR TOTAL WARRANTY

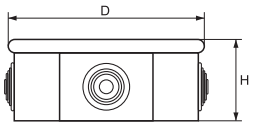


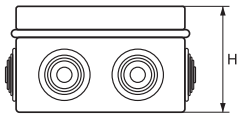
Plastic junction boxes with different shapes and dimensions. Designed for cable lines extension or tapping at cable installations laying. Made of ABS material with openings for input - output conductors, with rubber gasket to provide the corresponding IP code. Resistant to chemical, thermal and UV rays. Direct wall mounting with screws.
Documentation corresponding to the product:
Standard: EN 60670-1

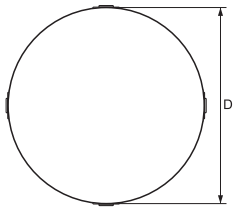


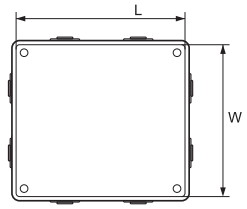
TECHNICAL DATA:
* Rated voltage: up to 1000V
* Material: ABS
* IP code: IP 44











Box type	Box dimensions (mm)				Gasket dimensions (mm)		IP code	Packing / Box	Catalogue number
	D	L	H	W	d	C			
WB50/50	50	-	-	50	22.5	17	44	320	**8070**
WB80/50	80	-	-	50	22.5	17	44	240	**8071**
WB85/85/50	-	85	85	50	22.5	18.5	44	200	**8072**

WATERPROOF JUNCTION BOXES IP65

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Box type	Box dimensions (mm)				Hole/pcs	IP code	Packing / Box	Catalogue number
	L	H	W	d				
WBG 100/100/70	100	100	70	27	7	65	100	**8001**
WBG 150/110/70	150	110	70	27	10	65	60	**8002**
WBG 150/150/70	150	150	70	27	7	65	60	**8003**
WBG 200/100/70	200	100	70	27	8	65	50	**8004**
WBG 200/155/80	200	155	80	35	10	65	30	**8005**
WBG 200/200/80	200	200	80	35	12	65	30	**8006**
WBG 255/200/80	255	200	80	35	12	65	30	**8007**
WBG 300/250/120	300	250	120	35	12	65	20	**8008**
WBG 400/350/120	400	350	120	35	16	65	5	**8009**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

WATERPROOF JUNCTION BOXES IP66 WITH TRANSPARENT COVER

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Box type	Box dimensions (mm)			IP code	Packing / Box	Catalogue number
	L	H	W			
WBT 65/95/55	65	95	55	66	200	**8010**
WBT 100/100/50	100	100	50	66	150	**8011**
WBT 80/110/70	80	110	70	66	100	**8012**
WBT 80/130/85	80	130	85	66	100	**8013**
WBT 80/180/70	80	180	70	66	86	**8014**
WBT 80/250/85	80	250	85	66	60	**8015**
WBT 125/125/75	125	125	75	66	48	**8016**
WBT 125/125/100	125	125	100	66	36	**8022**
WBT 125/175/100	125	175	100	66	40	**8017**
WBT 150/200/100	150	200	100	66	24	**8018**
WBT 150/250/130	150	250	130	66	18	**8019**
WBT 200/200/130	200	200	130	66	27	**8020**
WBT 280/190/130	280	190	130	66	18	**8021**

WATERPROOF JUNCTION BOXES IP54/66

2+0 standard +extended 2 YEAR TOTAL WARRANTY



TYPE A



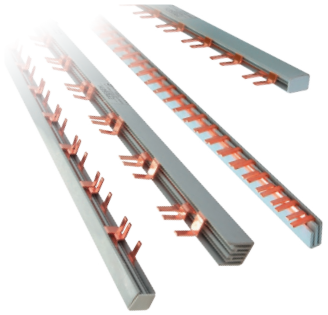
TYPE B

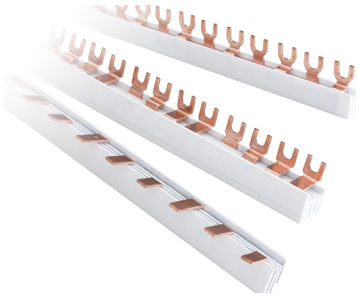


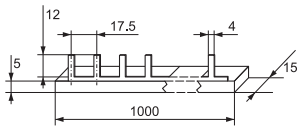
TYPE T

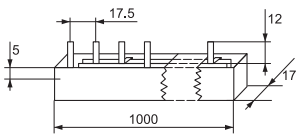
Box type	Box dimensions (mm)			Colour	IP code	Packing / Box	Catalogue number
	L	H	W				
A6	80	43	34	Grey	55	10	**M008128**
A8	75	75	36	Grey	55	10	**M008129**
B8	80	80	45	Grey	54	100	**8030**
B10	100	100	45	Grey	54	100	**8031**
T100	151	117	67	Grey	66	1	**M008123**
T160	190	150	77	Grey	66	1	**M008058**
T250	240	190	95	Grey	66	1	**M008118**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.









SUPPLY BUSBAR

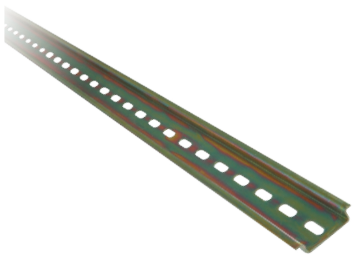
3+0 standard +extended 3 YEAR TOTAL WARRANTY

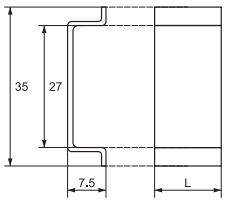
FUNCTIONS:
- enables the supply of a group of conductors
- provides simultaneous supply
- conducting section – electrotechnical copper
- insulation of the conducting section

TECHNICAL DATA:
- Rated operating voltage: 230/400V
- Isolating voltage: 500V
- Abnormal heating wear resistance and fire of the outer parts: 960°C/3sec.
- Rated current (phase): 63/100A

CONNECTING:
- to the joining terminal of the breaker

Type (copper busbar)	Length (m)	Poles (number)	In with one point of power supply	In with two points of power supply	Packing / Box (pcs)	Catalogue number
1P 63	1	54	63A	90A	20 / 100	**14163**
1P 100	1	54	100A	120A	20 / 100	**14190**
2P 63	1	28	63A	90A	10 / 50	**14263**
3P 63	1	18	63A	90A	6 / 30	**14363**
3P 100	1	18	100A	120A	5 / 50	**14390**
DP 1N	1	56	63A	90A	10 / 50	**14463**
C100 1P	1	-	125A	150A	20 / 100	**14190T**
C100 2P	1	-	125A	150A	10 / 50	**14290T**
C100 3P	1	-	125A	159A	5 / 20	**14390T**
U 1P 63	1	54	63A	90A	20 / 100	**14163U**
U 2P 63	1	28	63A	90A	10 / 50	**14263U**
U 3P 63	1	18	63A	90A	6 / 30	**14363U**
U 4P 63	1	13	63A	90A	5 / 20	**14463U**





MOUNTING (DIN) RAIL

3+0 standard +extended 3 YEAR TOTAL WARRANTY

FUNCTIONS:
- serves for mounting breakers, residual current devices, contactors and other elements
- provides a firm fixation of the elements

TECHNICAL DATA:
- brass alloy with galvanic cover
- factory drilled mounting openings
- length up to 1m

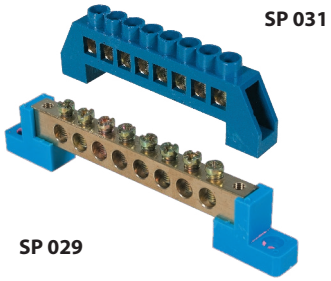
CONNECTING:
- with bolts or other fixing elements to the mounting surface

Length (m)	Packing / Box (pcs)	Catalogue number
1m	20 / 100	**14001**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

ZERO TERMINALS

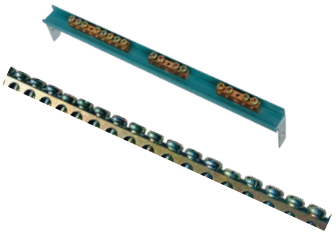
3+0 standard +extended 3 YEAR TOTAL WARRANTY



Rail type	L (mm)	H (mm)	W (mm)	M	Packing / Box (pcs)	Catalogue number
SP 029-4	82.9	21.5	12	5x10	10 / 500	**14204**
SP 029-6	100.9	21.5	12	5x10	10 / 800	**14206**
SP 029-8	118.9	21.5	12	5x10	20 / 300	**14208**
SP 029-10	136.9	21.5	12	5x10	20 / 300	**14210**
SP 029-12	182.4	21.5	12	5x10	20 / 250	**14212**
SP 031-4	59.5	31.5	12.4	5x10	5 / 400	**14304**
SP 031-6	76.5	31.5	12.4	5x10	5 / 400	**14306**
SP 031-8	93	31.5	12.4	5x10	5 / 400	**14308**
SP 031-10	111	31.5	12.4	5x10	5 / 400	**14310**
SP 031-12	128	31.5	12.4	5x10	5 / 300	**14312**

ZERO RAILS

3+0 standard +extended 3 YEAR TOTAL WARRANTY



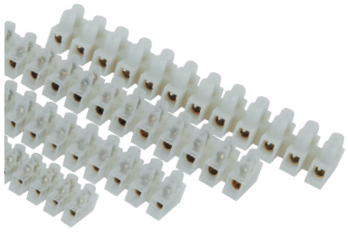
They represent a brass rail with rectangular section with factory made openings for the conductors and bolts for clamping of the conductor. They are offered in types with insulated and non-insulated rail. They are used in the electrical distribution boxes for zeroing and earthing.

TECHNICAL DATA:
- Material: brass for the current leading elements
- Insulation material: plastic
- Colour: gray/blue
- Application: general
- Ambient temperature: -40 to +65°C

Rail type	Length L (mm)	Height H (mm)	Width W (mm)	Ø D (mm)	Bolt	Number of terminals	Packing / Box (pcs)	Catalogue number
BRASS	1000	7.8	6	5	M4	54	100	**14002**
ZERO insulated	250	-	-	5	M4	16	200	**14012**

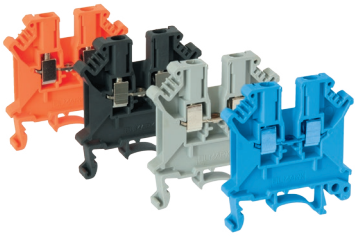
TERMINAL BLOCKS TBH TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Type	Pieces in a strip	In (A)	Un (V)	Colour	Section of the conductor (mm^2)	Packing / Box (pcs)	Catalogue number
TBH 3A	12	3	660	semitransparent	to 1.5	10 / 1000	**31003**
TBH 6A	12	6	660	semitransparent	to 4	10 / 1000	**31006**
TBH 10A	12	10	660	semitransparent	to 6	10 / 500	**31010**
TBH 15A	12	15	660	white	to 6	10 / 500	**31015**
TBH 20A	12	20	660	white	to 10	10 / 400	**31020**

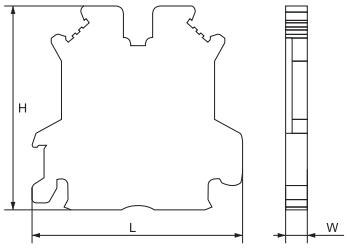
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



FIXED TERMINAL BLOCKS - LTU2 UK SERIES

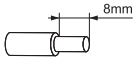
3+0 standard +extended 3 YEAR TOTAL WARRANTY

Fixed terminal blocks with universal application into electrical distribution boxes. For DIN-rail mounting. Variety of sizes for optimum using of available space by selection of appropriate terminals for the corresponding conductors. Made of non-flammable insulation polymeric material.



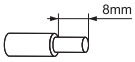
Type	Section of the conductor (mm^2)		Size of the terminal (mm)			In (A)	Un (V)	Colour	Packing / Box (pcs)	Catalogue number
	single-core	multicore	L	H	W					
LTU2UK 3N	0.2-4	0.2-2.5	42.5	47	5.2	32	800	grey	50 / 3000	**31033**
LTU2UK 3N	0.2-4	0.2-2.5	42.5	47	5.2	32	800	red	50 / 3000	**31032**
LTU2UK 3N	0.2-4	0.2-2.5	42.5	47	5.2	32	800	black	50 / 3000	**31031**
LTU2UK 3N	0.2-4	0.2-2.5	42.5	47	5.2	32	800	blue	50 / 3000	**31035**





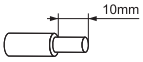
Type	Section of the conductor (mm^2)		Size of the terminal (mm)			In (A)	Un (V)	Colour	Packing / Box (pcs)	Catalogue number
	single-core	multicore	L	H	W					
LTU2UK 5N	0.2-6	0.2-4	42.5	47	6.2	41	800	grey	50 / 2000	**31053**
LTU2UK 5N	0.2-6	0.2-4	42.5	47	6.2	41	800	red	50 / 2000	**31052**
LTU2UK 5N	0.2-6	0.2-4	42.5	47	6.2	41	800	black	50 / 2000	**31051**
LTU2UK 5N	0.2-6	0.2-4	42.5	47	6.2	41	800	blue	50 / 2000	**31055**

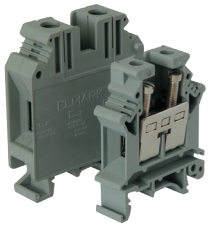




Type	Section of the conductor (mm^2)		Size of the terminal (mm)			In (A)	Un (V)	Colour	Packing / Box (pcs)	Catalogue number
	single-core	multicore	L	H	W					
LTU2UK 6N	0.2-10	0.2-6	42.5	47	8.2	57	800	grey	50 / 1000	**31063**
LTU2UK 6N	0.2-10	0.2-6	42.5	47	8.2	57	800	red	50 / 1000	**31062**
LTU2UK 6N	0.2-10	0.2-6	42.5	47	8.2	57	800	black	50 / 1000	**31061**
LTU2UK 6N	0.2-10	0.2-6	42.5	47	8.2	57	800	blue	50 / 1000	**31065**

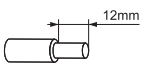




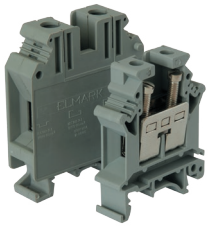


Type	Section of the conductor (mm^2)		Size of the terminal (mm)			In (A)	Un (V)	Colour	Packing / Box (pcs)	Catalogue number
	single-core	multicore	L	H	W					
LTU2UK 10N	0.5-16	0.5-10	42.5	47	10.2	76	800	grey	50 / 1000	**31103**
LTU2UK 10N	0.5-16	0.5-10	42.5	47	10.2	76	800	red	50 / 1000	**31102**
LTU2UK 10N	0.5-16	0.5-10	42.5	47	10.2	76	800	black	50 / 1000	**31101**
LTU2UK 10N	0.5-16	0.5-10	42.5	47	10.2	76	800	blue	50 / 1000	**31105**



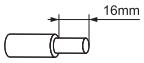


In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Type	Section of the conductor (mm^2)		Size of the terminal (mm)			In (A)	Un (V)	Colour	Packing / Box (pcs)	Catalogue number
	single-core	multicore	L	H	W					
LTU2UIK 16	2.5-25	4-16	42.5	47	12.2	101	800	grey	30 / 1200	**31163**
LTU2UIK 35	10-35	10-35	55	62	15.2	125	800	grey	20 / 400	**31353**







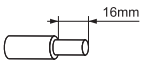
FIXED TERMINAL BLOCKS - JD SERIES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Two-sided insulated fixed terminal blocks designed to connect groundes conductors. Made of non-flammable insulation polymeric material.

Type	Section of the conductor (mm^2)		Size of the terminal (mm)			In (A)	Un (V)	Colour	Packing / Box (pcs)	Catalogue number
	single-core	multicore	L	H	W					
5JD	0.2-4	0.2-4	42.5	47	6.2	34	800	yellow-green	50 / 1000	**31054**
6JD	0.2-10	0.2-6	42.5	47	8.2	37	800	yellow-green	50 / 1000	**31064**
10JD	0.5-10	0.5-6	42.5	47	8.2	61	800	yellow-green	50 / 1000	**31104**
16JD	2.5-25	2.5-16	42.5	47	12.2	108	800	yellow-green	50 / 600	**31164**
35JD	2.5-35	2.5-35	42.5	47	15	135	800	yellow-green	20 / 400	**31354**







MARKING TAGS - ZB TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Accessories for marking and separation of different electrical circuits, different voltages and fixing of elements for DIN-rail mounting.

Type	Pieces in a strip	Colour	Size (mm)	Packing / Box (pcs)	Catalogue number
ZB6	20	white	6	100 / 1200	**31906**
ZB8	10	white	8	100 / 1200	**31908**

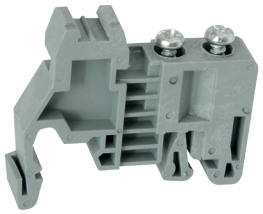


END COVER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Colour	Thickness (mm)	Packing / Box (pcs)	Catalogue number
EC	grey	8	200 / 6000	**31901**

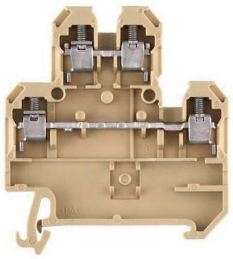
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



UNIVERSAL END FIXED PIECES E/UK TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Colour	Thickness (mm)	Packing / Box (pcs)	Catalogue number
E/UK	grey	5	200 / 2400	**31902**



DOUBLE DECK TERMINAL BLOKS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

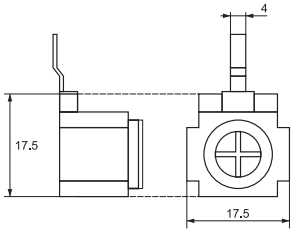
Type	Section of the conductor (mm^2)		Rated current (A)	Rated voltage (V)	Colour	Dimmensions (mm)			Packing (pcs.)	Catalogue number
	single-core	multicore				L	H	W		
DDTB4/5N	0.2-6	0.2-4	32	500	baige	59.9	54	6	50/1000	**31056D**
DDTB4/5N	0.2-6	0.2-4	32	500	grey	59.9	54	6	50/1000	**31053D**
End cover for DDTB4/5N					grey	54	43.5	1.5	200/6000	**31901D**



INSULATING MOUNTING TERMINAL - TB25

3+0 standard +extended 3 YEAR TOTAL WARRANTY

FUNCTIONS:
- provides a firm joining of rigid or flexible conductors up to $35mm^2$ to power supply busbar
- provides a firm joining of the power supply conductor to the breaker
- provides enough contact surface of the conductor
- Brass alloy with galvanic cover
- Fabric isolated with plastic cover
- Appropriate for joining to copper or aluminum cables
- Rated voltage: 230V
- Rated current: up to 63A
- Isolating voltage: ≥500V
- IP code: IP>20
- Section of power supply conductor: up to $35mm^2$



Type	Section of the conductor (mm^2)	Rated current In (A)	Packing / Box (pcs)	Catalogue number
TB 25	2.5 to 35	63	20 / 2000	**31025**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



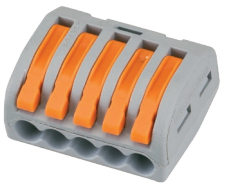
UNIPOLAR DISTRIBUTION TERMINAL BLOCKS FOR COPPER AND ALUMINIUM CONDUCTORS

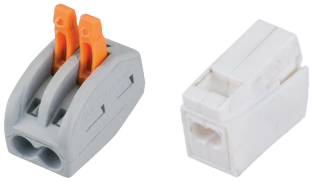
3+0 standard +extended 3 YEAR TOTAL WARRANTY

TECHNICAL DATA:

- Housing material: PA Nylon
- Terminal material: tin plated brass
- Grade of flame retardant: UL94v-0
- Mounting: DIN rail or screw fixing

Type	Current (A)	Quantity cross sections mm2	Dimmensions (mm)			Packing (pcs.)	Catalogue number
			L	H	W		
PPDTB80	80A	1x 6-16 mm2 4x 2.5-6mm2 2x 2.5-16mm2	30	69	49		**319080**
PPDTB125	125A	1x 10-35mm2 4x 6-16mm2 6x 2.5-16mm2	29	77	46		**319125**
PPDTB160	160A	1x 10-70mm2 4x 6-16mm2 6x 2.5-16mm2	29	77	46		**319160**
PPDTB250	255A	1x 35-120mm2 2x 6-35mm2 5x 2.5-16mm2 4x 2.5-10mm2	47	96	50		**319250**
PPDTB400	400A	1x 95-185mm2 2x 6-35mm2 5x 2.5-16mm2 4x 2.5-10mm2	47	96	50		**319400**





TERMINAL BLOCKS TBF TYPE

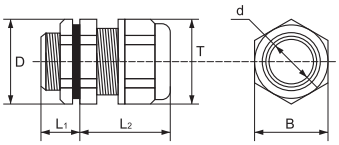
3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Pieces in a terminal	Section of the conductor (mm^2)	Rated current (A)	Rated voltage (V	Dimmensions (mm)			Catalogue number
					L	H	W	
two terminal block	2	4 mm^2	32	400	12.4	14.5	20.5	**31021**
three terminal block	3	4 mm^2	32	400	17.0	14.5	20.5	**31022**
five terminal block	5	4 mm^2	32	400	26.6	14.5	20.5	**31023**
lighting connector	3	1.0-2.5 mm^2/0.5-2.5 mm^2	25	400				**31024**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Standard: EN 60 423; 48580-81



CABLE GLANDS PG TYPE

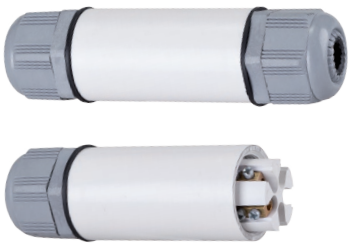
3+0 standard +extended 3 YEAR TOTAL WARRANTY

Plastic pipes supplied with the corresponding gaskets and nuts. Designed to provide necessary IP code on the points where conductors pass through the walls of the electric distribution boxes. All cable gland elements are made of high quality plastic (PE) and rubber.

TECHNICAL DATA:
- Material: polyethylene (PE)
- Colour: gray
- Application: general
- Ambient temperature: -40 to +65°C
- IP code: IP 55

Type	Overlapping field	T (mm)	B (mm)	d (mm)	D (mm)	L1 (mm)	L2 (mm)	Packing / Box (pcs)	Catalogue number
PG-7	3.5-6.8	16.3	18	12	6.6	10	22	100 / 4000	**500070**
PG-9	5-8	18.9	21.7	15.5	8.5	10	25	100 / 4000	**500090**
PG-11	6-10	21.7	23.5	18.5	10.4	8.5	29	100 / 3000	**500110**
PG-13.5	7-12	23.6	26.5	20	13	10	29	100 / 2000	**500135**
PG-16	8-14	26.5	29.3	21.5	14	9	29	100 / 2000	**500160**
PG-19	9-17	29	32	23	17	12	29	100 / 2000	**500190**
PG-21	10-18	32.3	35.6	28	19	12	35	100 / 1000	**500210**
PG-25	15-22	32.6	32.6	29.8	24	13	31	100 / 1000	**500250**
PG-29	16-24	41.1	45.4	36	26	12.5	40	50 / 500	**500290**
PG-36	18-28	52	58	46	31.5	12.5	45	50 / 350	**500360**
PG-42	26-36	57.4	61.9	51	37.6	17.5	47	20 / 200	**500420**
PG-48	32-39	65.2	70.7	58	43	21	50	20 / 200	**500480**





CABLE CONNECTOR

3+2 standard +extended 5 YEAR TOTAL WARRANTY

The cable connectors are hopeful way for assembling both cables. The high-temperature and water resistant stability assure to the connector assure a high degree of security even in extreme conditions.

Type	Section of the conductor (mm^2)	Length (mm)	Φ (mm)	Cable glands type	IP code	Packing / Box (pcs)	Catalogue number
CABLE CONNECTOR 11	0,5-2,5 mm^2	78,3	26,2	PG11	68	50	**31072**
CABLE CONNECTOR 16	1,5- 2,5 mm^2	115	26,5	PG16	67	50	**59245**
CABLE CONNECTOR 21	4-6 mm^2	124	33,5	PG21	67	50	**59246**



Terminal box IP65



Terminal box IP44

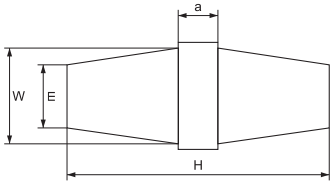
WATERPROOF TERMINAL BOX

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Section of the conductor (mm^2)	Rated current (A)	Voltage (V)	Material	Catalogue number
TERMINAL BOX IP44	0.5-4.0	6	450	Polycarbonate	**31071**
TERMINAL BOX IP65	0.5-2.5	10	450	Polycarbonate	**31070**







SUPPORT INSULATOR FOR LOW VOLTAGE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Support insulators are used in control and distribution cabinets mounting when bars isolation is required. Provides reliable insulation of live parts.

TECHNICAL SPECIFICATION:
- Rated voltage: 1000V
- Insulating voltage: 5000 V
- Ambient temperature : -40 to +65°C

Type	Impulse voltage kV	Strength	Fasting strength	Bolt	Dimmensions (mm)				Packing (pcs.)	Catalogue number
					H	W	a	ø		
SM 25	6	500	6	6	25	30	13	23	10 / 600	**31725**
SM 30	8	550	8	8	30	32	10	27	10 / 500	**31730**
SM 35	10	600	10	8	35	32	10	28	10 / 400	**31735**
SM 40	12	650	12	8	40	40	10	33	10 / 240	**31740**
SM 51	15	1000	20	8	51	50	12	28	10 / 240	**31751**
SM 76	25	1500	40	10	76	45	16	34	10 / 120	**31776**



CABLE FIXING CLIPS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Support insulators are used in control and distribution cabinets mounting when bars isolation is required. Provides reliable insulation of live parts.

TECHNICAL SPECIFICATION:
- Rated voltage: 1000V
- Insulating voltage: 5000 V
- Ambient temperature : -40 to +65°C

Type	Diameter Ø (mm)	Packing (pcs)	Packing / Box (pcs)	Catalogue number
CHR-4	4	100	100/500	**500004**
CHR-5	5	100	100/ 500	**500005**
CHR-6	6	100	100/ 300	**500006**
CHR-7	7	100	100/ 300	**500007**
CHR-8	8	100	100/ 250	**500008**
CHR-9	9	100	100/ 200	**500009**
CHR-10	10	100	100/ 200	**500010**
CHR-12	12	100	100/ 100	**500012**
CHR-14	14	100	100/ 50	**500014**
CHR-16	16	100	100/ 50	**500016**



PVC INSULATING TAPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Colour	Thickness (mm)	Width (mm)	Length (m)	Packing / Box (pcs)	Catalogue number
Black	0.15	19	9,14	10 / 200	**51007**
White	0.15	19	9,14	10 / 200	**51008**
Blue	0.15	19	9,14	10 / 200	**51009**
Black	0.15	19	18,28	10 / 200	**51001**
Red	0.15	19	18,28	10 / 200	**51002**
Yellow / Green	0.15	19	18,28	10 / 200	**51004**
White	0.15	19	18,28	10 / 200	**51005**
Blue	0.15	19	18,28	10 / 200	**51006**

PVC INSULATING TAPE 3M TEMFLEX 1500

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Colour	Thickness (mm)	Width (mm)	Length (m)	Packing/Box (pcs)	Catalogue number
Black	0.15	19	20	10/100	**M151016**

BLACK SELF - AMALGAMATING HIGH VOLTAGE TAPE BISHOP 963

2+0 standard +extended 2 YEAR TOTAL WARRANTY



69kV | Waterproof | UV-Resistant| Moisture, corrosion and chemical resistance

Colour	Width (mm)	Length (m)	Packing/Box (pcs)	Catalogue number
Black	19	9	1	**M051004**

ALUMINIUM TAPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Ideal for temporary exhaust pipe repair heating, ventilation - electrics and electronics insulation and construction industries

Colour	Width (mm)	Length (m)	Packing/Box (pcs)	Catalogue number
Aluminium	50	10	1	**M499469**

DUCT TAPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Ideal for temporary exhaust pipe repair heating, ventilation - electrics and electronics insulation and construction industries

Colour	Width (mm)	Length (m)	Packing/Box (pcs)	Catalogue number
Grey	50	25	1	**M499152**
Black	50	25	1	**M499153**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

MASKING TAPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Width (mm)	Length (m)	Packing/Box (pcs)	Catalogue number
25	50	1	**M516400**
50	50	1	**M516401**

DOUBLE SIDED MOUNTING TAPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Width (mm)	Length (m)	Packing/Box (pcs)	Catalogue number
25	5	1	**M516402**
50	25	1	**M516403**

HAZARD TAPE

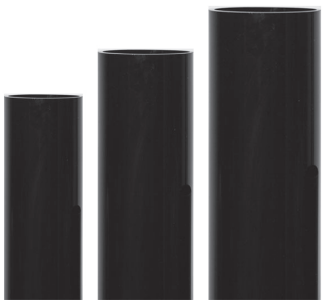
2+0 standard +extended 2 YEAR TOTAL WARRANTY



Width (mm)	Length (m)	Packing/Box (pcs)	Catalogue number
50	100	1	**M500179**

HEAT SHRINKAGE TUBES WITH GLUE GL TYPE

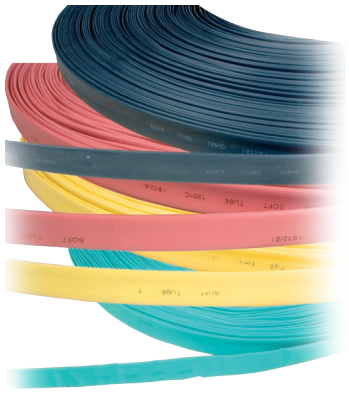
2+0 standard +extended 2 YEAR TOTAL WARRANTY





Type	colour	Diameter before shrinking (mm)	Wall thikness (mm)	Shrinkage ratio	Packing (pcs; m)	Catalogue number
GL	black	D2.4 (≥2.4)	0.7±0.15	3:1	200	**3010024GL**
GL	black	D3.2 (3.5±0.3)	0.9±0.15	3:1	200	**3010032GL**
GL	black	D4.8 (5.2±0.3)	1.0±0.15	3:1	100	**3010048GL**
GL	black	D6.4 (6.8±0.4)	1.2±0.15	3:1	100	**3010064GL**
GL	black	D7.9 (8.4±0.4)	1.3±0.15	3:1	100	**3010079GL**
GL	black	D9.5 (9.9±0.4)	1.4±0.15	3:1	1,22	**3010095GL**
GL	black	D12.7 (13.2±0.5)	1.6±0.20	3:1	1,22	**3010127GL**
GL	black	D15.0 (15.6±0.5)	1.8±0.20	3:1	1,22	**3010150GL**
GL	black	D19.1 (19.6±0.5)	2.0±0.20	3:1	1,22	**3010191GL**
GL	black	D25.4 (25.4±0.8)	2.1±0.20	3:1	1,22	**3010254GL**
GL	black	D30.0 (≥30)	2.2±0.20	3:1	1,22	**3010300GL**
GL	black	D39 (≥40)	2.4±0.20	3:1	1,22	**3010390GL**
GL	black	D50 (≥50)	2.7±0.25	3:1	1,22	**3010500GL**
GL	black	D64 (≥60)	3.0±0.25	3:1	1,22	**3010640GL**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days, and for Glue GL will be 90 days.



Standard: EN 60 684

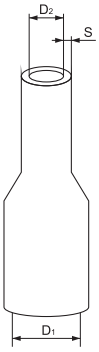
HEAT SHRINKAGE TUBES ZDG TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Thin-wall heat shrinkage tubes are used for insulation of cable connection, at conductors repair to protect the cable head from corrosion, for protection of the cable insulation from water and moisture, for restoring the cable insulation integrity, etc. It is a plastic thin wall pipe which at temperature higher than 120°C shrinks its initial diameter to a certain degree. The material has high temperature and UV rays wear resistance. The material represents the so called permanently netted plastic. This material is obtained as the plastic billet is processed with the help of high energy electron rays so that inner molecular bonds between adjacent molecules are formed. After that the pipe is heated to the boiling point, the pipe inflates, so do the inner molecular bonds. Then the pipe is sharply refrigerated and the molecules stay in the condition of inflated bonds for indefinite long time. Heating the pipe repeatedly (after being mounted to the given cable) the crystals melt again but due to the net structure, they resume the initial pipe diameter and take the form of the cable, pressing it and not allowing the moisture to get under the pipe.

TECHNICAL DATA:

- Material: triple cross - linked polyolefin
- Colours: blue, black, red, yellow, yellow-green, green, white
- Shrinkage ratio: min 2 : 1
- Ambient temperature: -40 to + 100°C
- Shrinkage temperature: min 120°C
- Condition of the material during fire exposure: slight burning
- The material does not emit hazardous substances
- Insulation resistance: 1x 10 12 Ω/cm
- Application: general
- Insulating voltage 1000 V



Type	D1 (mm)	D2 (mm)	S (mm)	Packing / Box (m)	Catalogue number *
ZDG	1	0.5	0.04	200 / 4000	**301001X**
ZDG	1.5	0.75	0.04	200 / 4000	**301115X**
ZDG	2	1.0	0.05	200 / 4000	**301002X**
ZDG	3	1.5	0.05	200 / 2000	**301003X**
ZDG	4	2.0	0.08	100 / 1700	**301004X**
ZDG	5	2.5	0.08	100 / 1200	**301005X**
ZDG	6	3.0	0.08	100 / 1000	**301006X**
ZDG	7	3.5	0.08	100 / 1000	**301007X**
ZDG	8	4.0	0.08	100 / 1500	**301008X**
ZDG	9	4.5	0.08	100 / 1500	**301009X**
ZDG	10	5.0	0.08	100 / 1500	**301010X**
ZDG	11	5.5	0.08	100 / 1500	**301011X**
ZDG	12	6.0	0.08	100 / 1200	**301012X**
ZDG	13	6.5	0.08	100 / 1200	**301013X**
ZDG	14	7.0	0.08	100 / 1200	**301014X**
ZDG	15	7.5	0.08	100 / 1200	**301015X**
ZDG	16	8.0	0.08	100 / 1200	**301016X**
ZDG	18	9.0	0.08	50 / 600	**301018X**
ZDG	20	10	0.08	50 / 500	**301020X**
ZDG	22	11	0.08	50 / 500	**301022X**
ZDG	25	12.5	0.08	25 / 600	**301025X**
ZDG	28	14	0.08	25 / 300	**301028X**
ZDG	30	15	0.08	25 / 300	**301030X**
ZDG	35	17.5	0.08	25 / 300	**301035X**
ZDG	40	20	0.08	25 / 250	**301040X**
ZDG	50	25	0.08	25 / 200	**301050X**
ZDG	60	30	0.08	25 / 300	**301060X**
ZDG	70	35	0.08	25 / 250	**301070X**
ZDG	80	40	0.08	25 / 100	**301080X**
ZDG	90	45	0.08	25 / 150	**301090X**
ZDG	100	50	0.08	25 / 100	**301100X**
ZDG	120	60	0.08	25 / 200	**301120X**
ZDG	150	75	0.08	25 / 100	**301150X**

Note: * At orders after the catalogue number of the corresponding diameter a letter showing the colour must be added: B – blue; R – red; K - black; G - green; Y – yellow;

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



CABLE TAGS – SETS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

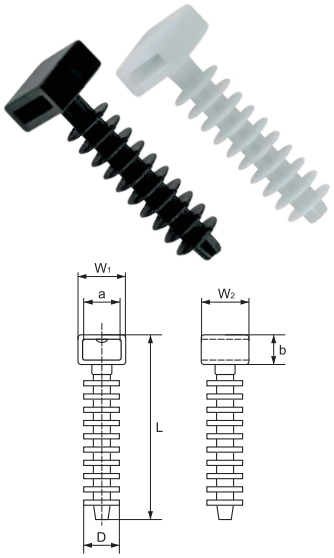
Type	Section (mm)	Number in a roller	Packing / Box (pcs)	Catalogue number
EC-0-0	1.5 - 3.2	1000	100	**318000**
EC-0-1	1.5 - 3.2	1000	100	**318001**
EC-0-2	1.5 - 3.2	1000	100	**318002**
EC-0-3	1.5 - 3.2	1000	100	**318003**
EC-0-4	1.5 - 3.2	1000	100	**318004**
EC-0-5	1.5 - 3.2	1000	100	**318005**
EC-0-6	1.5 - 3.2	1000	100	**318006**
EC-0-7	1.5 - 3.2	1000	100	**318007**
EC-0-8	1.5 - 3.2	1000	100	**318008**
EC-0-9	1.5 - 3.2	1000	100	**318009**
EC-0-a	1.5 - 3.2	1000	100	**31800A**
EC-0-b	1.5 - 3.2	1000	100	**31800B**
EC-0-R	1.5 - 3.2	1000	100	**31800R**
EC-0-S	1.5 - 3.2	1000	100	**31800S**
EC-0-T	1.5 - 3.2	1000	100	**31800T**
EC-0-N	1.5 - 3.2	1000	100	**31800N**
EC-0-P	1.5 - 3.2	1000	100	**31800P**
EC-0-E	1.5 - 3.2	1000	100	**31800E**
EC-0-A	1.5 - 3.2	1000	100	**31800A**
EC-0-B	1.5 - 3.2	1000	100	**31800B**
EC-0-C	1.5 - 3.2	1000	100	**31800C**
EC-0-Q	1.5 - 3.2	1000	100	**31800Q**

Type	Section (mm)	Number in a roller	Packing / Box (pcs)	Catalogue number
EC-1-0	2.6 - 4.2	1000	150	**318010**
EC-1-1	2.6 - 4.2	1000	150	**318011**
EC-1-2	2.6 - 4.2	1000	150	**318012**
EC-1-3	2.6 - 4.2	1000	150	**318013**
EC-1-4	2.6 - 4.2	1000	150	**318014**
EC-1-5	2.6 - 4.2	1000	150	**318015**
EC-1-6	2.6 - 4.2	1000	150	**318016**
EC-1-7	2.6 - 4.2	1000	150	**318017**
EC-1-8	2.6 - 4.2	1000	150	**318018**
EC-1-9	2.6 - 4.2	1000	150	**318019**
EC-1-a	2.6 - 4.2	1000	150	**31801A**
EC-1-b	2.6 - 4.2	1000	150	**31801B**
EC-1-R	2.6 - 4.2	1000	150	**31801R**
EC-1-S	2.6 - 4.2	1000	150	**31801S**
EC-1-T	2.6 - 4.2	1000	150	**31801T**
EC-1-N	2.6 - 4.2	1000	150	**31801N**
EC-1-P	2.6 - 4.2	1000	150	**31801P**
EC-1-E	2.6 - 4.2	1000	150	**31801E**
EC-1-A	2.6 - 4.2	1000	150	**31801A**
EC-1-B	2.6 - 4.2	1000	150	**31801B**
EC-1-C	2.6 - 4.2	1000	150	**31801C**
EC-1-Q	2.6 - 4.2	1000	150	**31801Q**

Type	Section (mm)	Number in a roller	Packing / Box (pcs)	Catalogue number
EC-2-0	3.6 - 5.2	500	150	**318020**
EC-2-1	3.6 - 5.2	500	150	**318021**
EC-2-2	3.6 - 5.2	500	150	**318022**
EC-2-3	3.6 - 5.2	500	150	**318023**
EC-2-4	3.6 - 5.2	500	150	**318024**
EC-2-5	3.6 - 5.2	500	150	**318025**
EC-2-6	3.6 - 5.2	500	150	**318026**
EC-2-7	3.6 - 5.2	500	150	**318027**
EC-2-8	3.6 - 5.2	500	150	**318028**
EC-2-9	3.6 - 5.2	500	150	**318029**
EC-2-a	3.6 - 5.2	500	150	**31802A**
EC-2-b	3.6 - 5.2	500	150	**31802B**
EC-2-R	3.6 - 5.2	500	150	**31802R**
EC-2-S	3.6 - 5.2	500	150	**31802S**
EC-2-T	3.6 - 5.2	500	150	**31802T**
EC-2-N	3.6 - 5.2	500	150	**31802N**
EC-2-P	3.6 - 5.2	500	150	**31802P**
EC-2-E	3.6 - 5.2	500	150	**31802E**
EC-2-A	3.6 - 5.2	500	150	**31802A**
EC-2-B	3.6 - 5.2	500	150	**31802B**
EC-2-C	3.6 - 5.2	500	150	**31802C**
EC-2-Q	3.6 - 5.2	500	150	**31802Q**

Type	Section (mm)	Number in a roller	Packing / Box (pcs)	Catalogue number
EC-3-0	5 - 7.2	250	150	**318030**
EC-3-1	5 - 7.2	250	150	**318031**
EC-3-2	5 - 7.2	250	150	**318032**
EC-3-3	5 - 7.2	250	150	**318033**
EC-3-4	5 - 7.2	250	150	**318034**
EC-3-5	5 - 7.2	250	150	**318035**
EC-3-6	5 - 7.2	250	150	**318036**
EC-3-7	5 - 7.2	250	150	**318037**
EC-3-8	5 - 7.2	250	150	**318038**
EC-3-9	5 - 7.2	250	150	**318039**
EC-3-a	5 - 7.2	250	150	**31803A**
EC-3-b	5 - 7.2	250	150	**31803B**
EC-3-R	5 - 7.2	250	150	**31803R**
EC-3-S	5 - 7.2	250	150	**31803S**
EC-3-T	5 - 7.2	250	150	**31803T**
EC-3-N	5 - 7.2	250	150	**31803N**
EC-3-P	5 - 7.2	250	150	**31803P**
EC-3-E	5 - 7.2	250	150	**31803E**
EC-3-A	5 - 7.2	250	150	**31803A**
EC-3-B	5 - 7.2	250	150	**31803B**
EC-3-C	5 - 7.2	250	150	**31803C**
EC-3-Q	5 - 7.2	250	150	**31803Q**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

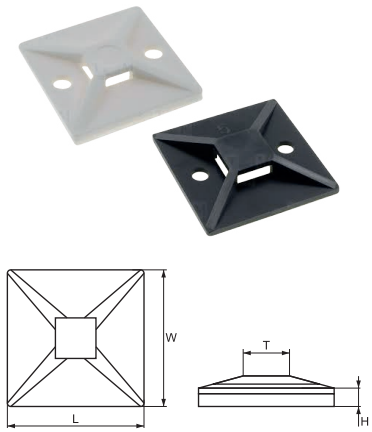


CABLE TIE HOLDER

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	colour	Bore diameter (mm)	a (mm)	b (mm)	D (mm)	W1 (mm)	W2 (mm)	L (mm)	Packing (pcs)	Catalogue number
MT-6*	black	ϕ6	9,7	6,2	7,2	12,7	11,9	37	100	**500044**
MT-6*	white	ϕ6	9,7	6,2	7,2	12,7	11,9	37	100	**500045**
MT-8	black	ϕ8	9,7	6,3	9,9	12,7	12,6	43	100	**500046**
MT-8	white	ϕ8	9,7	6,3	9,9	12,7	12,6	43	100	**500047**

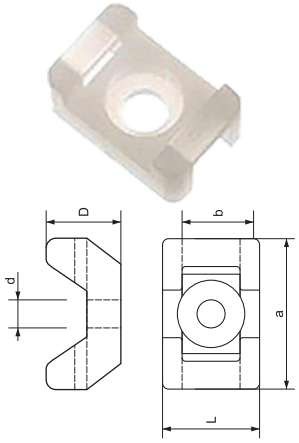
Note: * Until Supply Last



CABLE TIE MOUNTS-ADHESIVE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	colour	Dimmensions (mm)				Packing (pcs.)	Catalogue number
		L	W	H	T		
MT-25	white	25	25	7,5	6,2	100	**500041**
MT-25	black	25	25	7,5	6,2	100	**500042**
MT-30	white	30	30	8,7	6,4	100	**500043**
MT-30	black	30	30	8,7	6,4	100	**500039**



CABLE TIE BASES FIXED WITH SCREWS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	a (mm)	b (mm)	L (mm)	d (mm)	D (mm)	Packing (pcs)	Catalogue number
CTH-2C	white	22	16,5	9	5,8	9,5	100	**500048**
CTH-2C	black	22	16,5	9	5,8	9,5	100	**500038**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days, and for CTH-2C will be 90 days.



CABLE TIES - WHITE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Length (mm)	Colour	Width (mm)	Packing (pcs)	Packing / Box (pcs)	Catalogue number
Cable ties	100	white	2.5	100	10 / 800	**500100**
Cable ties	150	white	2.5	100	10 / 500	**500152**
Cable ties	160	white	2.5	100	10 / 500	**500162**
Cable ties	200	white	2.5	100	10 / 400	**500202**
Cable ties	250	white	3.5	100	10 / 250	**500253**
Cable ties	280	white	3.5	100	10 / 200	**500283**
Cable ties	300	white	3.5	100	10 / 200	**500303**
Cable ties	300	white	4.8	100	10 / 120	**500304**
Cable ties	370	white	3.5	100	10 / 120	**500373**
Cable ties	380	white	4.8	100	10 / 100	**500384**
Cable ties	450	white	4.8	100	10 / 70	**500454**
Cable ties	500	white	7.9	100	5 / 40	**500507**



CABLE TIES - BLACK

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Length (mm)	Colour	Width (mm)	Packing (pcs)	Packing / Box (pcs)	Catalogue number
Cable ties	150	black	2.5	100	10 / 500	**500151**
Cable ties	160	black	2.5	100	10 / 500	**500161**
Cable ties	250	black	3.5	100	10 / 250	**500251**
Cable ties	280	black	3.5	100	10 / 200	**500281**
Cable ties	300	black	3.5	100	10 / 200	**500301**
Cable ties	500	black	7.9	100	40	**500501**



CABLE HOLDER WITH TIE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	a (mm)	b (mm)	c (mm)	d (mm)	Packing (pcs)	Catalogue number
cable holder with tie	black	27	14	140	0,5	20	**500444**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days, and for CABLE HOLDER will be 30 days.



WALL PLUG WITH CABLE TIE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	Bore diameter (mm)	Tie Length (mm)	Packing (pcs)	Catalogue number
wall plug with cable tie	black	Ø6	95	50	**500427**
wall plug with cable tie	black	Ø8	95	50	**500425**



WIRE GRIP BAND FOR FLAT CABLE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	Bore diameter (mm)	width of the head	Packing (pcs)	Catalogue number
wire grip band for flat cable 1	white	6-7	18	50	**500432**
wire grip band for flat cable 2	white	6-7	12	50	**500434**
wire grip band for flat cable 3	white	6-7	10	50	**500436**

Wire grip band 1 is Suitable for flat cables with section- 2x1.0; 2x1.5mm^2
Wire grip band 2 is Suitable for flat cables with section- 2x2.5; 3x1.0
Wire grip band 3 is Suitable for flat cables with section- 2x4; 2x6; 3x1.5; 3x2.5mm^2



WIRE GRIP BAND FOR ROUND CABLE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	Bore diameter (mm)	width of the head	Packing (pcs)	Catalogue number
wire grip band for round cable 4	white	6-7	6	50	**500438**
wire grip band for round cable 5	white	6-7	8	50	**500440**

Wire grip band 4 is Suitable for round cables with section- 2x1.0; 2x1.5; 3x1.0; 3x2.5mm^2; RG6
Wire grip band 5 is Suitable for round cables with section- 2x0.5; 2x0.75; UTP; FTP





WALL PLUG FOR PLASTERBOARD

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	Bore diameter (mm)	a (mm)	b (mm)	Packing (pcs)	Catalogue number
wall plug for plasterboard	grey	6-7	30	19	25	**500443**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



LAMP HOLDER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Lamp	Material	Dimmensions (mm)				Packing (pcs.)	Catalogue number
			Diameter	Width	Height	d		
Lamp holder	GU10	ceramic	27	20	16	3.4	100	**99292**

Length of the cable: 140 mm



LAMP HOLDER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Lamp	Material	Dimmensions (mm)				Packing (pcs.)	Catalogue number
			Diameter	Width	Height	d		
Lamp holder	G 4 / G 5.3 / GY 6.35	ceramic	16	11	10	3.4	200	**99293**

Length of the cable: 90 mm



CERAMIC LAMP HOLDER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Lamp	Material	Dimmensions (mm)				Packing (pcs.)	Catalogue number
			Length	Diameter	Width	d		
Lamp holder	E 14	ceramic	44	33	20	4,3	40/400	**99296**
Lamp holder with support	E 14	ceramic	44	33	20	4,3	40/400	**99297**
Lamp holder	E 27	ceramic	48	41	20	4,3	40/400	**99294**
Lamp holder with support	E 27	ceramic	48	41	20	4,3	16/320	**99295**
Lamp holder	E 40	ceramic	72	56	23	4,3	100	**99298**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



HANGING LAMP HOLDER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Lamp	Material	Dimmensions (mm)		Section of power supply conductors	Catalogue number
			Diameter	Length		
Screw	E27	bakelite	38.5	55	0.5-2.5mm²	**99196**



HANGING LAMP HOLDER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Lamp	Material	Dimmensions (mm)		Section of power supply conductors	Catalogue number
			Diameter	Length		
Screw	E27	bakelite	38.5	55	0.5-2.5mm²	**99197**



HANGING LAMP HOLDER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Lamp	Material	Dimmensions (mm)		Section of power supply conductors	Catalogue number
			Diameter	Length		
Screwless	E14	plastic	44	56,3	0.5-2.5mm²	**99194**



HANGING LAMP HOLDER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Lamp	Material	Dimmensions (mm)		Section of power supply conductors	Catalogue number
			Diameter	Length		
Screwless	E27	plastic	55	62,5	0.5-2.5mm²	**99195**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



LAMP BASES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Lamp	Material	Rated current	Diameter (mm)	Length (mm)	Section of power supply conductors	Catalogue number
Oblique	E27	plastic	4A	78	38	0.5-2.5mm^2	**99200**
Straight	E27	plastic	4A	63	40	0.5-2.5mm^2	**99199**



TWIN SOCKET LAMP HOLDER

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Lamp	Material	Rated current	Diameter (mm)	Length (mm)	Section of power supply conductors	Catalogue number
E27-2xE27	E27	Iron + PBT	4A	76	74	0.5-2.5mm^2	**99198**





LAMP HOLDER ADAPTORS TO E27

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Voltage	Rated current (A)	Used for holder	Convert to lamp socket	Material	Packing (pcs.)	Catalogue number
E40/E27	250V	4A	E40	E27	iron/plastic	15/500	**192168**
G24/E27	250V	4A	G24-4 pin	E27	PBT+ copper	25/300	**192169**

Ambient temperature: 85°C





INTERMEDIATE SWITCH

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Voltage	Rated current (A)	Colour	Packing (pcs.)	Catalogue number
IS-RW	250V	6	red & white	1	**M300018**
IS-B	250V	6	black	1	**M300002**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days, and for Intermediate switches will be 30 days.



INFRARED MOTION SENSOR ST02A

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Detection range	Rated load	Detection distance	Colour body	Size (mm) Length	Width	Height	Packing (pcs.)	Catalogue number
ST02A	160°	ESL - 200W IL-500W	max.9m	white	80	54	59.9	100	**99DS100**

Time-Delay: 10sec ± 3sec to 7min ± 2min (adjustable); Ambient light: <3-2000lux (adjustable); Detection motion speed: 0.6 - 1.5m/s; Two wire line; Installation height: 1 - 1.8m



INFRARED MOTION SENSOR ST42

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Detection range	Rated load	Detection distance	Colour body	Size (mm) Length	d1	d2	Packing (pcs.)	Catalogue number
ST42	360°	ESL - 300W IL - 1200W	max.6m	white	75,6	76	100	50	**99DS104**

Time-Delay: 10sec ± 3sec to 7min ± 2min (adjustable); Ambient light: <3 - 2000lux (adjustable); Detection motion speed: 0.6 - 1.5m/s; Installation height: 2.2 - 4m



INFRARED MOTION SENSOR ST41

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Detection range	Rated load	Detection distance	Colour body	Size (mm) Length	d1	d2	Packing (pcs.)	Catalogue number
ST41	360°	ESL - 300W IL - 1200W	max.6m	white	75,6	61,5	76	50	**99DS103**

Time-Delay: 10sec ± 3sec to 7min ± 2min (adjustable); Ambient light: <3 - 2000lux (adjustable); Detection motion speed: 0.6 - 1.5m/s; Installation height: 2.2 - 4m



INFRARED MOTION SENSOR ST40

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Detection range	Rated load	Detection distance	Colour body	Size (mm) Length	d1	d2	Packing (pcs.)	Catalogue number
ST40	360°	ESL - 800W IL - 1200W	max.6m	white	50	50	35	50	**99DS402**

Time-Delay: 10sec ± 3sec to 7min ± 2min (adjustable); Ambient light: <3 - 2000lux (adjustable); Detection motion speed: 0.6 - 1.5m/s; Installation height: 2.2 - 4m

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



INFRARED MOTION SENSOR ST11

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Detection range	Rated load	Detection distance	Colour body	Size (mm) Length	Width	Height	Packing (pcs.)	Catalogue number
ST11	180°	ESL - 500W IL - 800W	max.12m	white	80	55	65	50	**99DS403**

Time-Delay: 10sec ± 3sec to 7min ± 2min (adjustable); Ambient light: <3 - 2000lux (adjustable); Detection motion speed: 0.6 - 1.5m/s; Installation height: 2.2 - 4m



INFRARED MOTION SENSOR ST07

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Detection range	Rated load	Detection distance	Colour body	Size (mm) Height	Diameter	Packing (pcs.)	Catalogue number
ST07	380°	ESL - 300W IL - 1200W	max.6m	white	58	115	50	**99DS101**
ST07	380°	ESL - 300W IL - 1200W	max.6m	black	58	115	50	**99DS102**

Time-Delay: 10sec ± 3sec to 7min ± 2min (adjustable); Ambient light: <3 - 2000lux (adjustable); Detection motion speed: 0.6 - 1.5m/s ; Installation height: 2.2 - 4m



INFRARED MOTION SENSOR ST24

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Detection range	Rated load	Detection distance	Colour body	Size (mm) Length	Width	Height	Packing (pcs.)	Catalogue number
ST24	120°/360°	ESL - 200W IL - 800W	max.6m	white	55.8	34	24.6	100	**99DS109**

Time Delay: 5s, 30s, 1min, 3min, 5min, 8min(choice); Ambient Light: 10LUX/2000LUX (choice)
Detection Distance: 3m/6m(choice) (<24oC); Detection motion speed: 0.6 - 1.5m/s

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



MICROWAVE SENSOR ST701F

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Detection range	Rated load	Colour body	Size (mm)			Packing (pcs.)	Catalogue number
				Length	Width	Height		
ST701F	180°/360°	ESL - 200W IL - 500W	white	58	40.5	25.5	100	**99DS400**

Time Delay: 10sec ± 3sec to 12min ± 1min (adjustable); Ambient Light: <3 - 2000LUX (adjustable)
HF System: 5.8GHz CW radar,ISM band; Detection Distance: Wall: 5 - 15m (adjustable); Ceilling: 2 - 8m(radius), adjustable; Installation Height: Wall:1.5 - 3.5m; Ceiling: 2 - 10m



INFRARED MOTION SENSOR ST15

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Detection range	Rated load	Detection distance	Colour body	Size (mm)			Packing (pcs.)	Catalogue number
					Length	Width	Height		
ST15	180°	ESL - 300W IL - 1200W	max.12m	white	80	117,2	31,5	50	**99DS108**

Time-Delay: 10sec ± 3sec to 7min ± 2min (adjustable); Ambient light: <3 - 2000lux (adjustable)
Detection motion speed: 0.6 - 1.5m/s; Installation height: 2.2 - 4m IP65



INFRARED MOTION SENSOR ST10A

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Detection range	Rated load	Detection distance	Colour body	Size (mm)			Packing (pcs.)	Catalogue number
					Length	Width	Height		
ST10A	180°	ESL - 300W IL - 1200W	5-12m	white	87,4	120	144	50	**99DS107**

Time-Delay: 10sec ± 3sec to 7min ± 2min (adjustable); Ambient light: <3 - 2000lux (adjustable)
Detection motion speed: 0.6 - 1.5m/s; Installation height: 2.2 - 4m IP44



INFRARED MOTION SENSOR ST05CA

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Rated load	Time-Delay	Ambient Light	Height (mm)	Diameter (mm)	Catalogue number
ST05CA	ESL - 300W, IL - 800W	10s to 15min	<3 - 2000LUX	24.9	102	**99DS110**

Detection Distance: max 6m.

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



LIGHT-CONTROL SENSOR ST300, IP44

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Rated current	Colour body	Size (mm)		Packing (pcs.)	Catalogue number
			Length	Height		
ST300	10A	white	35	108,6	50	**99DS404**

Ambient light: 3500 lux (adjustable) IP44; Timer Built-in from 1-9 hours



LIGHT-CONTROL SENSOR ST36, IP44

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Rated current	Colour body	Size (mm)		Packing (pcs.)	Catalogue number
			Length	Height		
ST36	6A	black/white	100	200	50	**99DS405**

Ambient light: <5 - 15lux (adjustable) IP44



LIGHT-CONTROL SENSOR ST303, IP44

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Rated current	Colour body	Size (mm)		Packing (pcs.)	Catalogue number
			Height	Diameter		
ST303	25A	white	70,5	78,3	50	**99DS300**

Ambient light: <5 - 50lux (adjustable) IP44



LIGHT-CONTROL SENSOR ST302, IP44

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Rated current	Colour body	Size (mm)		Packing (pcs.)	Catalogue number
			Height	Diameter		
ST302	10A	white	76,7	63	100	**99DS301**

Ambient light: <5 - 50lux (adjustable) IP44

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



LIGHT-CONTROL SENSOR ST308, IP65

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Rated current	Colour body	Size (mm)			Packing (pcs.)	Catalogue number
			Length	Width	Height		
ST308	20A	white	35	66	90	100	**99DS302**

Ambient light: <2 - 100lux (adjustable) IP65



TOUCHING SENSOR ST125

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Rated load	Length (mm)	Width (mm)	Height (mm)	Diameter (mm)	Catalogue number
ST125	ESL - 200W, IL - 500W	89.7	40.2	16.8	-	**99DS115**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



CABLE REEL WITH THERMAL PROTECTION - MAK - 2A

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Cable type	Cable specification	Cable length (m)	Packing / Box (pcs)	Catalogue number
H05VV-F	3 x 1.5mm²	10	4	**47911**



CABLE REEL WITH THERMAL PROTECTION - MAK - 3

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Cable type	Cable specification	Cable length (m)	Packing / Box (pcs)	Catalogue number
H05VV-F	3 x 1.5mm²	20	4	**47921**



CABLE REEL WITH THERMAL PROTECTION - MAK - 4

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Cable type	Cable specification	Cable length (m)	Packing / Box (pcs)	Catalogue number
H05VV-F	3 x 1.5mm²	25	2	**47927**
H05VV-F	3 x 1.5mm²	40	1	**47940**
H05VV-F	3 x 1.5mm²	50	2	**47950**



CABLE REEL - HJR TYPE, IP 44

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing / Box (pcs)	Catalogue number
HJR - 10AP	H07RN-F	3 x 1.5mm²	25	2	**47960**
HJR - 10P	H07RN-F	3 x 1.5mm²	50	1	**47959**



EMPTY CABLE REEL 029A

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Suitable for cable type	Outlets	Catalogue number
H05VV-F 3G1.5mm2- max 40m / 3G1.0mm2- max 50m	4 socket 16A/230V	**47910**



EXTENSION CORDS

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Cable colour	Catalogue number
Extension cord	H05VV-F	3G1.5mm²	10	orange	**47333**
Extension cord	H05VV-F	3G1.5mm²	15	orange	**47334**

Rated current: 16A, Voltage: 230VAC



MULTIPLUGS 3 HOLES WITH KEY

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing / Box (pcs)	Catalogue number
3 holes	H05VV-F	3G1.5mm²	2	1/40	**47332**



MULTIPLUGS 4 HOLES WITH KEY

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing / Box (pcs)	Catalogue number
4 holes	H05VV-F	3G1.5mm²	2	1/40	**47432**



MULTIPLUGS 6 HOLES WITH KEY

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing / Box (pcs)	Catalogue number
6 holes	H05VV-F	3G1.5mm²	2	1/25	**47632**



MULTIPLUGS 8 HOLES WITH KEY

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing / Box (pcs)	Catalogue number
8 holes	H05VV-F	3G1.5mm²	2	1/25	**47732**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



MULTIPLUG - HX-3N TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing (pcs)	Catalogue number
HX-3N	H05VV-F	3 x 1.0mm²	1.5m	40	**47031**
HX-3N	H05VV-F	3 x 1.5mm²	3.0m	5 / 40	**47080**
HX-3N	H05VV-F	3 x 1.5mm²	5.0m	5 / 40	**47081**

Max.3500W,16/250~



MULTIPLUG - HX-4N TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing (pcs)	Catalogue number
HX-4N	H05VV-F	3 x 1.0mm²	1.5m	50	**47041**
HX-4N	H05VV-F	3 x 1.5mm²	3.0m	30	**47082**
HX-4N	H05VV-F	3 x 1.5mm²	5.0m	25	**47083**

Max.3500W,16/250~



MULTIPLUG - HX-6N TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing (pcs)	Catalogue number
HX-6N	H05VV-F	3 x 1.0mm²	1.5m	50	**47061**
HX-6N	H05VV-F	3 x 1.5mm²	3.0m	40	**47063**
HX-6N	H05VV-F	3 x 1.5mm²	5.0m	40	**47065**

Max.3500W,16/250~



MULTIPLUG - ODL, IP44*

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing (pcs)	Catalogue number
ODL - PYX - 2E	H07RN-F	3 x 1.5mm²	1.5m	40	**47802**

* Limited Offer

UNTIL SUPPLY LAST

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



MULTIPLUG WITH KEY
HKX-3N TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing (pcs)	Catalogue number
HKX-3N	H05VV-F	3 x 1.0mm²	1.5m	5 / 40	**47131**
HKX-3N	H05VV-F	3 x 1.5mm²	3.0m	5 / 30	**47133**
HKX-3N	H05VV-F	3 x 1.5mm²	5.0m	5 / 25	**47135**

Max.3500W,16/250~



MULTIPLUG WITH KEY
HKX-4N TYPE

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing (pcs)	Catalogue number
HKX-4N	H05VV-F	3 x 1.0mm²	1.5m	5 / 40	**47142**
HKX-4N	H05VV-F	3 x 1.5mm²	3.0m	5 / 30	**47143**
HKX-4N	H05VV-F	3 x 1.5mm²	5.0m	5 / 25	**47145**

Max.3500W,16/250~



MULTIPLUG WITH KEY
HKX-5N TYPE*

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing (pcs)	Catalogue number
HKX-5N	H05VV-F	3 x 1.0mm²	1.5m	5 / 40	**47152**

Max.3500W,16/250~

* Limited Offer

UNTIL SUPPLY LAST

MULTIPLUG WITH KEY
HKX-6N TYPE



3+0 standard +extended 3 YEAR TOTAL WARRANTY

Type	Cable type	Cable specification	Cable length (m)	Packing (pcs)	Catalogue number
HKX-6N	H05VV-F	3 x 1.0mm²	1.5m	5 / 40	**47162**
HKX-6N	H05VV-F	3 x 1.5mm²	3.0m	5 / 30	**47163**
HKX-6N	H05VV-F	3 x 1.5mm²	5.0m	5 / 25	**47165**

Max.3500W,16/250~

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



POWER CABLES

Cable type	Cable specification	Cable length (m)	Cable colour	Catalogue number
H05VV-F	3G1.5mm²	2	white	**47001**
H05VV-F	3G2.5mm²	2	white	**47002**







ADAPTERS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Colour	Rated current in (A)	Rated power in (W)	Packing (pcs)	Catalogue number
Adapter double	White	16	3500	50	**192213**
Adapter double	Graphite	16	3500	50	**192212**
Adapter double with key	White	16	3500	50	**192211**
Adapter double with key	Graphite	16	3500	50	**192210**
Adapter triple	White	16	3500	40	**192209**
Adapter triple	Graphite	16	3500	40	**192208**
Adapter triple with key	White	16	3500	40	**192207**
Adapter triple with key	Graphite	16	3500	40	**192206**



MULTISOCKET

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Colour	Rated current in (A)	Rated power in (W)	Packing (pcs)	Catalogue number
Multisocket double	black	16	3500	60	**192216**
Multisocket double	white	16	3500	60	**192217**
Multisocket triple	black	16	3500	60	**192218**
Multisocket triple	white	16	3500	60	**192219**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



RUBBER MULTISOCKET

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Colour	Rated current in (A)	Rated power in (W)	Packing (pcs)	Catalogue number
Multisocket triple	White	16	3500	20	**192120/WH**
Multisocket triple	Black	16	3500	20	**192120/BL**



RUBBER SCHUKO SOCKETS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Rated current In (A)	Colour	Material	Packing (pcs)	Catalogue number
Socket	16	White	Rubber	25	**192119/WH**
Socket	16	Black	Rubber	25	**192119/BL**



RUBBER SCHUKO PLUG

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Rated current In (A)	Colour	Material	Packing (pcs)	Catalogue number
Plug	16	White	Rubber	25	**192118/WH**
Plug	16	Black	Rubber	25	**192118/BL**
Plug	16	Red	Rubber	25	**192118/R**



ANGLE BAKELITE SCHUKO PLUG

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Rated current In (A)	Colour	Material	Packing (pcs)	Catalogue number
Plug	16	White	Bakelite	20/100	**192117/WH**
Plug	16	Black	Bakelite	20/100	**192117/BL**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days



PLUG WITH PVC MUFF

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Rated current In (A)	Colour	Material	Packing (pcs)	Catalogue number
Plug	16	black / white	with pvc muff	300	**192113**



PLUG BAKELITE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Rated current In (A)	Colour	Material	Packing (pcs)	Catalogue number
Plug	16	white	bakelite	80	**19211102**
Plug	16	black	bakelite	80	**19211101**



BRITISH PLUG

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Rated current In (A)	Colour	Material	Packing (pcs)	Catalogue number
British plug	13	white	PMMA	1/20	**192114**



TWO PIN PLUG WITH EXTRACTION RING

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Rated current In (A)	Colour	Material	Packing (pcs)	Catalogue number
Plug	6	White	PP	100	**192115/WH**
Plug	6	Black	PP	100	**192115/BL**



TWO PIN PLUG

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Rated current In (A)	Colour	Material	Packing (pcs)	Catalogue number
Plug	6	White	PP	100	**192116/WH**
Plug	6	Black	PP	100	**192116/BL**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days and for British plug will be 90 days.



OUTSIDE POWER CABLES

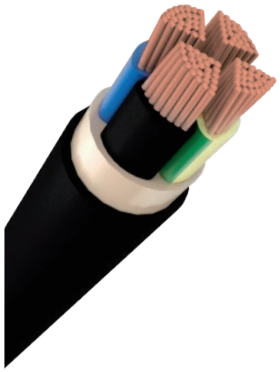
Standards:
DIN VDE 0293-308 - Colour coded acc
DIN VDE 0276 part 603 or HD 186
DIN VDE 0295 - Wire class acc

NYY

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Power cable, Cu-conductor, PVC-insulation, PVC-sheathing

NYY; PP00; PP00; PP00; NYY; NYY; CYY; NYY; NYY



Power cable for construction of underground distribution grids and installations of industrial and public projects, where mechanical damages are not to be expected. Suitable for transmission and distribution of electric power at nominal voltage u0/u 0,6/1 kV.

TECHNICAL DATA:
- Power cable acc. to DIN VDE 0276 part 603
- Ambient temperature
- fixed installation: -30°C to +50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Short circuit temperature: +160°C
- (short circuit duration up to 5 sec.)
- Nominal voltage Uo/U- 0.6/1 kV
- Test voltage: AC-4 kV/50 Hz

CONSTRUCTION::
- Solid or stranded Cu wires cl. 1 or cl. 2 acc. to DIN VDE 0295
- Insulation: PVC compound
- Inner sheath: filling compound
- Outer sheath: PVC compound
- Outer sheath colour: black
- **re** - round solid
- **rm** - round multi-core
- **sm** - sector multi-core
- **se** - sector solid conductor



Cross section (n x mm²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2x1,5	re	black	12,2	28	192	100	**833019**
2x2,5	re	black	12,9	46	229	100	**833020**
2x4	re	black	14,9	75	315	100	**833021**
2x6	re	black	15,9	112	382	100	**833022**
2x10	re	black	17,5	188	509	1	**833023**



Cross section (n x mm²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3x1,5	re	black	12,1	43	201	100	**833030**
3x2,5	re	black	12,9	70	247	100	**833031**
3x4	re	black	15	112	350	100	**833032**
3x6	re	black	16,1	168	435	100	**833034**
3x10	re	black	18	282	606	1	**833036**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



Cross section (n x mm²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
4x1,5	re	black	12,9	57	232	100	**833060**
4x2,5	re	black	13,8	93	289	100	**833061**
4x4	re	black	16,2	149	419	100	**833062**
4x6	re	black	17,4	223	525	100	**833063**
4x10	re	black	19,5	376	741	1	**833064**
4x16	re	black	21,8	595	1024	1	**833065**



Cross section (n x mm²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
5x1,5	re	black	13,7	71	272	100	**833077**
5x2,5	re	black	14,8	116	341	100	**833078**
5x4	re	black	17,4	187	494	100	**833079**
5x6	re	black	19	279	635	100	**833080**



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Standards:
BDS 904-84 - according to construction
IEC60332-1- according to flame retardant

CBT-C

5+2 standard +extended 7 YEAR TOTAL WARRANTY

POWER CABLE WITH SOLID OR STRANDED CU WIRES, PVC INSULATION AND SHEATHING



CBT-c; CBT-c; CBT-c; CBT-c; CBT-c; CBT-c; CBT-c; CBT-c; CBT-c

A cable with solid or stranded CU wires, resistant to the sun radiance and atmospheric influences. It is suitable for spread and transfer of electrical energy if it is installed steady outside or in indoor spaces -cable trunking, electrical cable conduit, cable trays, directly into tunnels, earthworks, pits and etc.

TECHNICAL DATA:
- Nominal voltage Uo- 0.6kV
- Nominal voltage U- 1kV
- Ambient temperature- from -30°C to +50°C
- Max. oprating temperature- +70C°
- Temperature of laying- ≥-5°C
- Conductor material- Copper (Cu)
- Conductors insulation - PVC compaund
- Outer steath material-filling sheath and PVC compaund
- Conductor construction- solid or stranded CU wires, class 1 or class 2
- **re** - round solid
- **rm** - round multi-core
- **sm** - sector multi-core
- **se** - sector solid conductor



Cross section (n x mm²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2X1	re	black	9.5	20	100	100	**817020**
2X1.5	re	black	10.0	28	120	100	**817021**
2X2.5	re	black	10.6	46	150	100	**817022**
2X4	re	black	12.5	73	210	100	**817023**
2X6	re	black	13.3	110	260	100	**817024**
2X10	re	black	15.2	182	370	1	**817025**



Cross section (n x mm²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3X1	re	black	9.7	28	120	100	**817036**
3X1.5	re	black	10.2	42	140	100	**817037**
3X2.5	re	black	11.0	69	180	100	**817039**
3X4	re	black	13.0	110	260	100	**817041**
3X6	re	black	14.0	165	340	100	**817043**
3X10	re	black	16.0	275	480	1	**817045**

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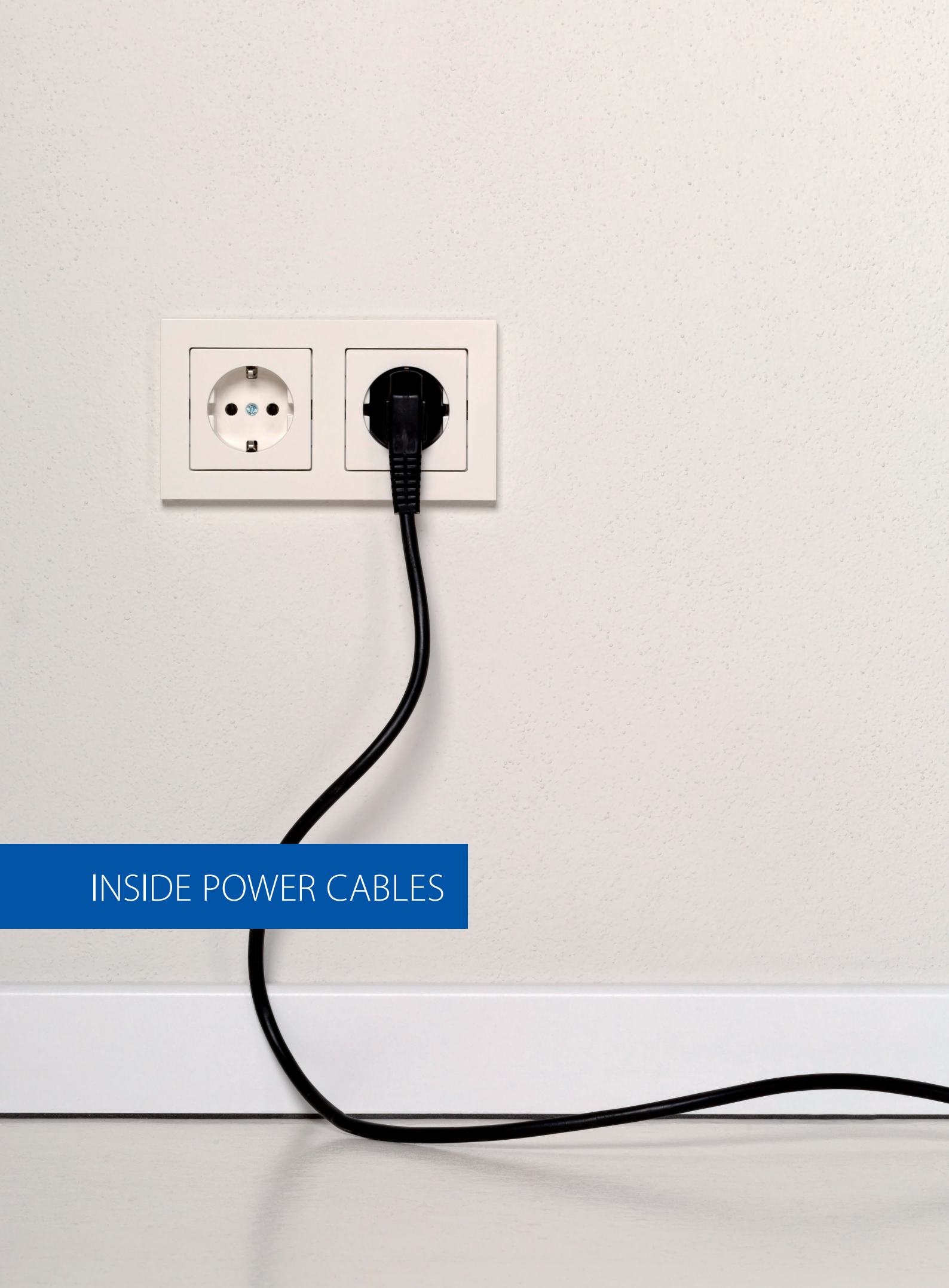
Cross section (n x mm²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
4X1	re	black	10.4	37	140	100	**817067**
4X1.5	re	black	11.0	55	165	100	**817068**
4X2.5	re	black	11.9	91	215	100	**817069**
4X4	re	black	14.1	146	315	100	**817070**
4X6	re	black	15.4	220	410	100	**817071**
4X10	re	black	17.4	365	595	1	**817072**
4X16	rm	black	20.6	585	950	1	**817073**



Cross section (n x mm²)	Wires shape	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
5X1	re	black	11.2	45	160	100	**817083**
5X1.5	re	black	11.8	69	195	100	**817084**
5X2.5	re	black	12.8	114	260	100	**817085**
5X4	re	black	15.5	182	380	100	**817086**
5X6	re	black	16.8	275	500	100	**817087**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



INSIDE POWER CABLES

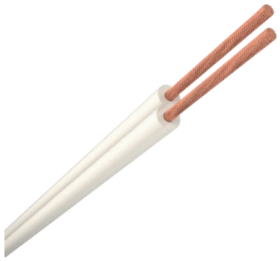
Standards:
Flat conductor acc. to BDS IEC 60227-5
Flexible Cu-wires, cl. 6 acc. to IEC 60228

H03VH-H

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Flat conductor, flexible Cu-wires, PVC-insullation

ШВПЛ-А; PL; H03VH-H; P/L; H03VH-H; H03VH-H; H03VH-H; RVV; H03VH-H



Designed for connection of electrical appliances to the electrical grid, for connection of mobile users, devices and appliances.

TECHNICAL DATA:
- Ambient temperature: -40°C to+50°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U: 300/300 V
- Test voltage: 2000 V

CONSTRUCTION:
- Flexible Cu-wires, cl. 6 acc. to IEC 60228
- Flat conductor acc. to BDS IEC 60227-5
- Insulation: PVC compound
- Insulation colour: white or black-red

Cross section (n x mm²)	Colour	Thickness (mm)	Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2x0,50	white or black-red	6,0	3,0	9	25	100	**820001**
2x0,75	white or black-red	6,4	3,2	14	30	100	**820002**
2x1	white or black-red	6,8	3,4	19,2	31	100	**820017**
2x1,50	white or black-red	7,6	4,0	28,8	38	100	**820018**

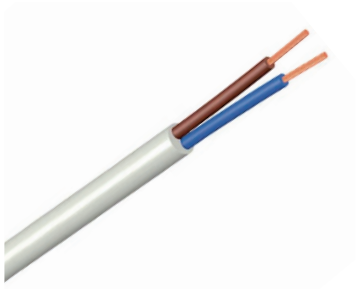
Standards:
Conductor acc. to HD 21,5 S3
Flexible Cu-wires, cl. 5 acc. to IEC 60228

H03VV-F

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Conductor with flexible Cu-wires, PVC insulation and sheath

ШВПЛ-Б; PP/L; PP/L; PP/L; H03VV-F; H03VV-F; MYYUP; H03VV-F; H03VV-F



Conductor with parallel or stranded in a bundle insulated cores, designed for connection of electrical appliances to the electrical grid, for connection of mobile users, devices and appliances.

TECHNICAL DATA:
- Variant of the conductor: H03VVH2-F - flat type
- Ambient temperature: -30°C to +50°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U: 300/300 V
- Test voltage: 2000 V

CONSTRUCTION:
- Flexible Cu-wires, cl. 5 acc. to IEC 60228
- Insulation: PVC compound
- Sheafing: PVC compound
- Outer sheath colour: white



Type (flat)	Cross section (n x mm²)	Colour	Thickness (mm)	Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H03VVH2-F	2x0,5	white	6,0	3,6	10,0	30	100	**820004**
H03VVH2-F	2x0,75	white	6,4	3,9	14,5	39	100	**820006**



Type (round)	Cross section (n x mm²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H03VV-F	2X0,5	white	9.5	100	25	100	**820003**
H03VV-F	3X0.5	white	10.0	120	30	100	**820007**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

Standards:
Flexible cable acc. to HD 21.5 S3, DIN VDE 0281 part 5
Flexible Cu-wires, cl. 5 acc. to DIN VDE 0295, IEC 60228
Colour coding: acc. to DIN VDE 0293-308

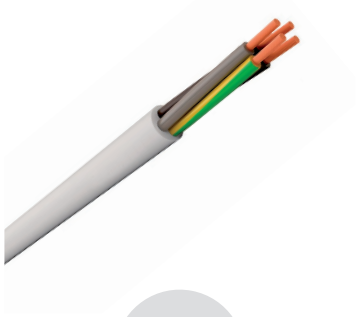
H05VV-F

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Conductor with flexible Cu-wires, PVC insulation and sheath

ШВПС; PP/J; PP/J; PP/J; H05VV-F; H05VV-F; MYYM; H05VV-F; H05VV-F

Conductor with parallel or stranded in a bundle insulated cores, designed for connection of electrical appliances to the electric grid, for connection of mobile users, devices and appliances.



TECHNICAL DATA:
- Variant of the conductor: H05VVH2-F - flat type
- Ambient temperature: -30°C to +50°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U: 300/300 V
- Test voltage: 2000 V

CONSTRUCTION:
- Flexible Cu-wires, cl. 5 acc. to DIN VDE 0295, IEC 60228
- Insulation/outer sheath: PVC compound;
- Outer sheath colour: white



Cross section (n x mm²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2 x 0,75	white	7,6	14,0	62	100	**821001**
2 x 1	white	8,0	19,5	71	100	**821002**
2 x 1,5	white	9,0	28,0	94	100	**821003**
2 x 2,5	white	11,0	47,0	114	100	**821004**



Cross section (n x mm²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3 x 0,75	white	8,0	21,5	74	100	**821008**
3 x 1	white	8,4	29,0	85	100	**821009**
3 x 1,5	white	9,8	42,0	120	100	**821010**
3 x 2,5	white	12,0	70,0	182	100	**821011**
3 x 4	white	13,0	114,0	252	100	**821012**



Cross section (n x mm²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
4 x 0,75	white	8,6	29,0	92	100	**821016**
4 x 1	white	9,4	38,5	109	100	**821017**
4 x 1,5	white	11,0	56,0	151	100	**821018**
4 x 2,5	white	13,0	93,5	225	100	**821019**
4 x 4	white	14,0	151,0	315	100	**821020**



Cross section (n x mm²)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
5 x 0,75	white	9,6	36,0	115	100	**821024**
5 x 1	white	10,0	48,0	132	100	**821025**
5 x 1,5	white	12,0	70,0	188	100	**821026**
5 x 2,5	white	14,0	117,0	280	100	**821027**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



INSTALLATION CONDUCTORS

Standards:
Conductor acc. to HD 21.3 S3, DIN VDE 0281 part 3
Solid Cu wires cl. 1 acc. to DIN VDE 0295, IEC 60228



H05V-U, H07V-U

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Conductor, Cu-wires, PVC-insulation

ПВ-А1; P; P; P; H05V-U, H07V-U; H05V-U, H07V-U (CY); H05V-U, H07V-U (FY); H05V-U, H07V-U; H05V-U, H07V-U

For fixed installation in lighting networks, electric power installations, wiring of electrical switchboards, machines and equipment.

TECHNICAL DATA:
- Ambient temperature: -30°C to+50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U:
- H05V-U 300/500 V
- H07V-U 450/750 V
- Test voltage:
- H05V-U 2000 V
- H07V-U 2500 V

CONSTRUCTION:
- Solid Cu wires cl. 1 acc. to DIN VDE 0295, IEC 60228
- Insulation: PVC compound
- Insulation colour:
- yellow-green: available cross sections from 0.5 to 10 (mm^2)
- white: available cross sections from 0.5 to 4 (mm^2)
- black: available cross sections from 0.5 to 10 (mm^2)
- blue: available cross sections from 0.5 to 10 (mm^2)
- brown: available cross sections from 0.5 to 10 (mm^2)
- red: available cross sections from 0.5 to 10 (mm^2)

Type	Cross section (n x mm^2)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H05V-U	0,5	2,4	4,5	9	100	**822001**
H05V-U	0,75	2,6	7,0	12	100	**822002**
H05V-U	1	2,8	9,0	15	100	**822003**

Note: At orders of the desires colour, must be added after the catalogue number:
^BL – blue; ^R – red; ^B - black; ^W- white; ^YG- yellow green; ^BR- brown

Type	Cross section (n x mm^2)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H07V-U	1,5	3,3	13,5	21	100	**822004**
H07V-U	2,5	3,9	22,0	33	100	**822005**
H07V-U	4	4,4	35,0	48	100	**822006**
H07V-U	6	4,6	52,5	68	100	**822007**
H07V-U	10	6,4	87,5	113	100	**822008**

Note: At orders of the desires colour, must be added after the catalogue number:
^BL – blue; ^R – red; ^B - black; ^W- white; ^YG- yellow green; ^BR- brown

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

Standards:
PVC conductor acc. to HD 21.3 S3, DIN VDE 0281 part 3
Flexible Cu wires cl. 5 acc. to DIN VDE 0295, IEC 60228





H05V-K, H07V-K

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Conductor, Cu-wires, PVC-isulation

ПВ-А2; PF; P/F; P/F; H05V-K, H07V-K; H05V-K, H07V-K (CYA); MYF; H05V-K, H07V-K; H05V-K, H07V-K

For fixed installation wiring of electrical switchboards, machines and equipment, where small bending radius is required.

TECHNICAL DATA:
- Ambient temperature: -30°C to+50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U:
- H05V-K 300/500 V
- H07V-K 450/750 V
- Test voltage:
- H05V-K 2000 V
- H07V-K 2500 V

CONSTRUCTION:
- Flexible Cu wires cl. 5 acc. to DIN VDE 0295, IEC 60228
- Insulation: PVC compound
- Insulation colour:
- yellow-green: available cross sections from 0.5 to 25 (mm^2)
- white: available cross sections from 0.5 to 4 (mm^2)
- black: available cross sections from 0.5 to 25 (mm^2)
- blue: available cross sections from 0.5 to 25 (mm^2)
- brown: available cross sections from 0.5 to 10(mm^2)
- red: available cross sections from 0.5 to 25 (mm^2)

Type	Cross section (n x mm^2)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H05V-K	0,5	2,6	5,0	10	100	**823002**
H05V-K	0,75	2,8	7,0	13	100	**823003**
H05V-K	1	3,0	9,5	16	100	**823004**

Note: At orders of the desires colour, must be added after the catalogue number:
^BL – blue; ^R – red; ^B - black; ^W- white; ^YG- yellow green; ^BR- brown

Type	Cross section (n x mm^2)	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
H07V-K	1,5	3,5	14,0	23	100	**823005**
H07V-K	2,5	4,2	23,0	36	100	**823006**
H07V-K	4	4,8	36,5	52	100	**823007**
H07V-K	6	6,3	57,0	74	100	**823008**
H07V-K	10	7,6	96,0	131	100	**823009**
H07V-K	16	8,8	151,0	195	100	**823010**
H07V-K	25	11,0	235,0	300	100	**823011**

Note: At orders of the desires colour, must be added after the catalogue number:
^BL – blue; ^R – red; ^B - black; ^W- white; ^YG- yellow green; ^BR- brown

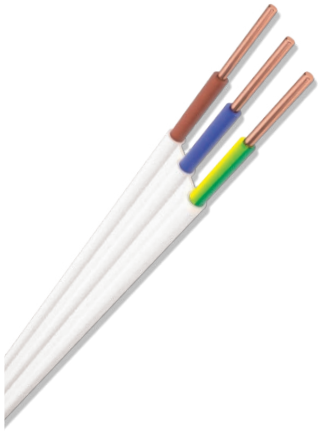
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

Standards:
Flat conductor acc. to BDS 4305-90
Solid Cu wires cl. 1 acc. to BDS 904-84

NYIFY-O/J

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Flat installation conductor, Cu-wires, PVC-insulation, PVC-sheath



ПВВ-МБ1; PG; PP/R; PP/R; NYIFY-O/J; NYIFY-O/J; NYIFY-O/J; NYIFY-O/J; NYFAZ

Installation conductor with parallel Cu-wires for fixed installation in lighting networks and electric power installations.

TECHNICAL DATA:
- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. -5°C
- Max. operating temperature: +70°C
- Nominal voltage Uo/U: 220/380 V
- Test voltage: 2000 V

CONSTRUCTION:
- Solid Cu wires cl. 1 acc. to BDS 904-84
- Insulation: PVC compound
- Sheath: PVC compound
- Outer sheath colour: white



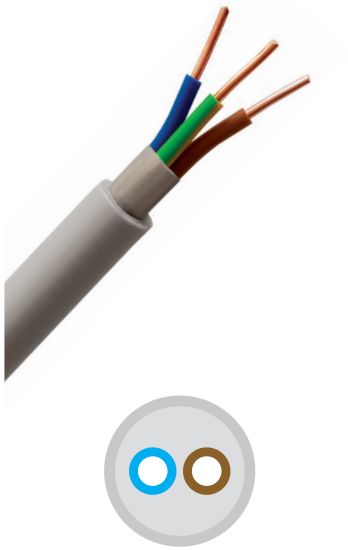
Cross section (n x mm²)	Colour	Conductor Thickness (mm)	Conductor Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2 x 1,00	white	3,70	10,30	17,9	55	100	**834001**
2x1,50	white	4,10	11,20	26,6	65	100	**834002**
2 x 2,50	white	5,00	12,90	44,3	97	100	**834003**
2x4,00	white	5,60	14,20	70,6	135	100	**834004**
2x6,00	white	6,50	16,00	104,4	190	100	**834005**



Cross section (n x mm²)	Colour	Conductor Thickness (mm)	Conductor Width (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3x1,00	white	3,70	14,00	26,8	73	100	**834007**
3x1,50	white	4,10	15,30	39,8	95	100	**834008**
3x2,50	white	5,00	16,90	66,4	142	100	**834009**
3x4,00	white	5,60	19,80	104,2	200	100	**834010**
3x6,00	white	6,50	22,50	156,5	280	100	**834011**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

Standards:
DIN VDE 0295; IEC 60228- according to construction DIN VDE 0250-204- according to multi-core conductors IEC60332-1- according to flame retardant



NYM

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Multi-core conductor with Cu wires and PVC insulation

NYM; PGP; PGP; PP-Y; PGP; NYM; NYM; NYM; NYM; NYM

For fixed instalations in , or on under plasterboard, in lighting networks in dry places. Can be used and in damp or wet rooms, in wall and concrete, in switchboards and mashines. Is suitable for outdoor use if cable is protected against direct sunshine.

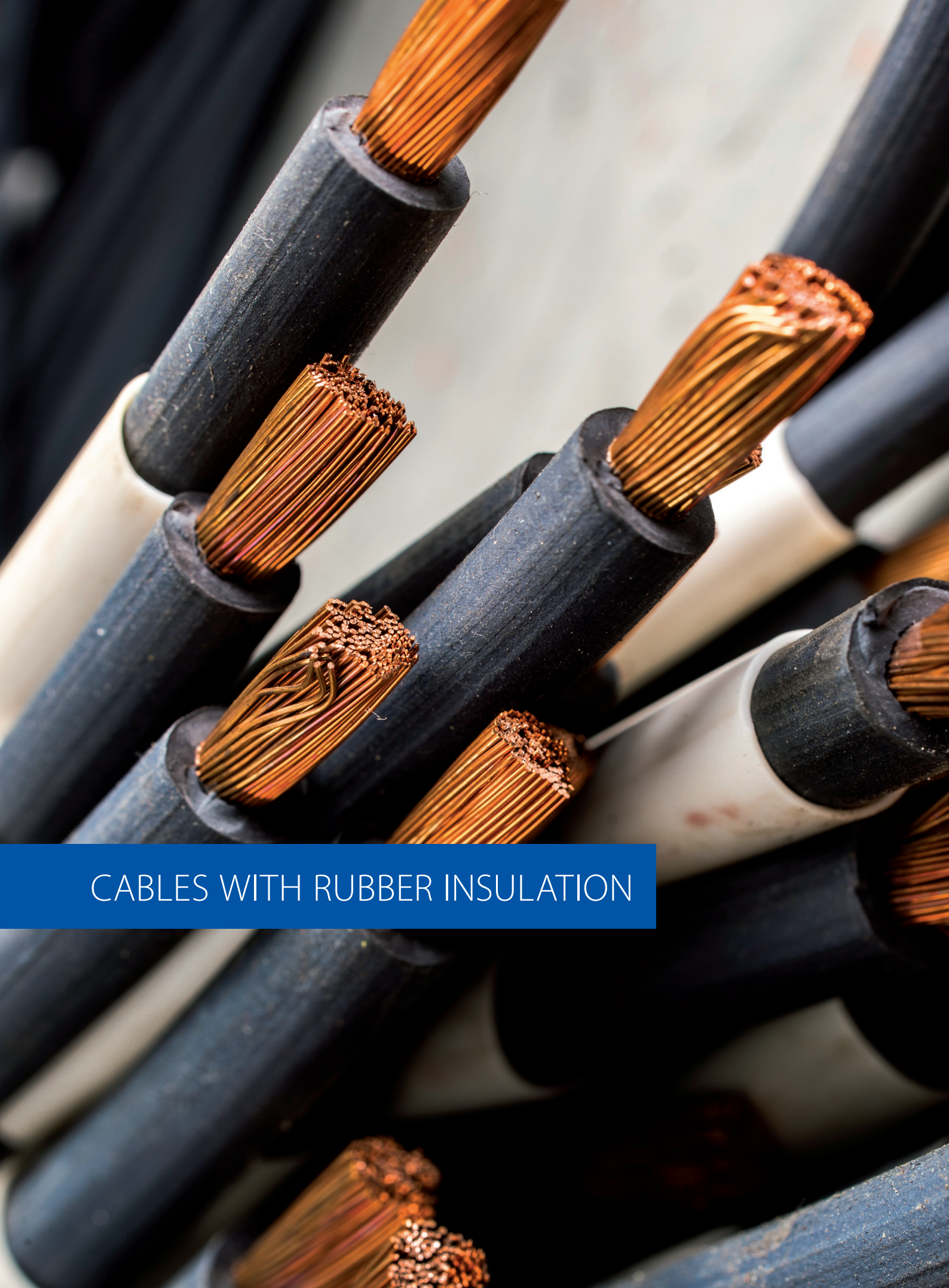
TECHNICAL DATA:
- Nominal voltage: Uo- 300V; U- 500V
- Ambient temperature- from -20°C to +50°C
- Max. oprating temperature- +70C°
- Instalation temperature- ≥-5°C
- Conductor material- Copper (Cu)
- Conductors insulation - PVC compaund
- Outer steath material-filling sheath and PVC compaund
- Conductor construction- solid CU wires, class 1 and class 2 for cross section above 10mm^2

Cross section (n x mm^2)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2X1.5	grey	9.8	29	120	100	**832008**
2X2.5	grey	11.0	48	160	100	**832009**
2X4	grey	12.5	76	220	100	**832010**



Cross section (n x mm^2)	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3X1.5	grey	10.5	43	136	100	**832016**
3X2.5	grey	11.5	72	190	100	**832017**
3X4	grey	13.0	115	260	100	**832018**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



CABLES WITH RUBBER INSULATION

Standards:
DIN VDE 0295; IEC 60228- according to construction
DIN VDE 0293-308 and HD 186- according to colour coating
DIN VDE 0482-332-1-2; IEC60332-1- according to flame retardant

H05RR-F

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Rubber flexible cable

ШКПЛ; GG/J; GG/J; GG/J; H05RR-F; H05RR-F; MCCM; H05RR-F; H05RR-F

For connection of electrical appliances and consumers with low and middle mechanical stress to Alternating Current (AC). It has wide use in household, office, for cable reels, for connecting of mobile consumers and etc.



TECHNICAL DATA:
- Nominal voltage Uo/U: 300V/500V
- Ambient temperature: from -30°C to +60°C
- Conductor material: Copper (Cu) wires, class 5
- Conductors insulation: Rubber EPR
- Outer steath material: Rubber EPR

Cross section (n x mm²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
2X1	H05RR-F	black	6.1 - 8.0	19.0	71.0	100	**814002**
2X1.5	H05RR-F	black	7.6 - 9.8	29.0	99.0	100	**814003**
2X2.5	H05RR-F	black	9.0 - 11.6	48.0	148.0	100	**814004**



Cross section (n x mm²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
3X1	H05RR-F	black	6.5 - 8.5	29.0	88.0	100	**814007**
3X1.5	H05RR-F	black	8.0 - 10.4	43.0	125.0	100	**814008**
3X2.5	H05RR-F	black	9.6 - 12.4	72.0	175.0	100	**814009**
3X4	H05RR-F	black	11.3 - 14.5	115.0	246.0	100	**814010**



Cross section (n x mm²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
4X1	H05RR-F	black	9.0 - 11.6	58.0	165.0	100	**814012**
4X1.5	H05RR-F	black	9.0 - 11.6	58.0	165.0	100	**814013**
4X2.5	H05RR-F	black	10.7 - 13.8	96.0	225.0	100	**814014**
4X4	H05RR-F	black	12.7 - 16.2	154.0	315.0	100	**814015**
4X6	H05RR-F	black	14.2 - 18.1	231.0	440.0	100	**814017**



Cross section (n x mm²)	Type	Colour	Outer diameter (mm)	Cu weight (kg/km)	Total weight (kg/km)	Packing (m)	Catalogue number
5X1.5	H05RR-F	black	9.8 - 12.7	72.0	185.0	100	**814020**
5X2.5	H05RR-F	black	11.9 - 15.3	120.0	275.0	100	**814021**
5x4	H05RR-F	black	15,6-19,9	187	475	100	**814022**
5x6	H05RR-F	black	17,5-22,2	288	635	100	**814023**

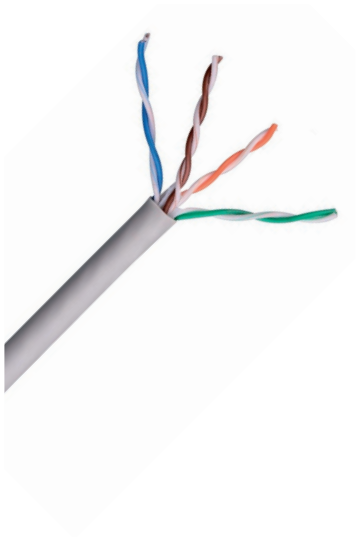


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COMMUNICATION CABLES

Standards:
LAN cable acc. to ISO/IEC-11801/1995, IEC-1156/1995
ANSI/TIA/EIA - 568-A-5
CCA-wires - 24 AWG; 0,51 mm, acc. to IEC 60228



UTP

5+2 standard +extended 7 YEAR TOTAL WARRANTY

LAN cable, stranded in pairs, cat. 5e

UTP; UTP; UTP; UTP; UTP; UTP; UTP; UTP; UTP CAT5E

Cable, stranded by pairs, used for transmission of digital signals with high speed of transmission, with spectrum of the frequency being used up to 100 MHz for cat. 5 and up to 125 MHz for cat. 5e. Suitable for setting computer systems for data transmission, measuring and control systems with proper resistance to electromagnetic influences.

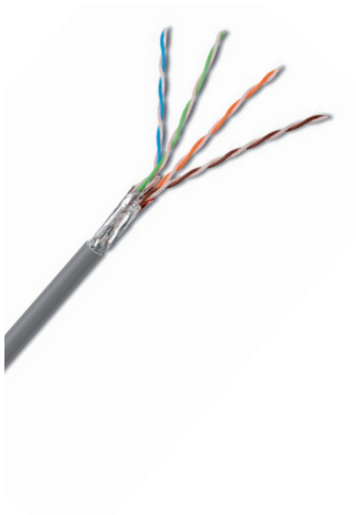
TECHNICAL DATA:
- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance: 100 Ω ± 15 Ω
- Loop resisistance: ≤ 192 0/ km
- Unbalance of loop resistance: ≤ 3%
- Insulation resistance: ≥ 150 MΩ x km
- Operating capacity: ≤ 55,8 nF/km
- Cable diameter: 5 mm
- Cu weight: 16,5 kg/km
- Cable weight: 27 kg/km

CONSTRUCTION:
- Solid Cu-wires - 24 AWG; 0,51 mm, acc. to IEC 60228
- Insulation: PE compound
- Cable bundle: 4 stranded pairs
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour: for PVC-grey

Colour	Category	Frequency - MHz	Characteristic of attenuation						Packing (m)	Catalogue number
			4	10	16	62,5	100	125		
grey	Cat. 5e	Attenuation - db/100 m	4,1	6,5	8,2	17	22	24,9	305	**879002**
		Attenuation (Next) - db	56,3	50,3	47,3	38,4	35,3	33,9		

Insulation colour of stranded pairs - core a / core b:
- white with blue ring / blue
- white with orange ring / orange
- white with green ring /green
- white with brown ring / brown

Standards:
LAN cable acc. to ISO/IEC-11801/1995, IEC-1156/1995
ANSI/TIA/EIA - 568-A-5
Solid Cu-wires - 24 AWG; 0,51 mm, acc. to IEC 60228



FTP

5+2 standard +extended 7 YEAR TOTAL WARRANTY

LAN cable, stranded in pairs, with screen, cat. 5e

FTP; FTP; FTP; FTP; FTP; FTP; FTP; FTP; FTP CAT5E

Cable, stranded in pairs, with screen of laminated foil, used for transmission of digital signals with high speed of transmission, with spectrum of the frequency being used up to 100 MHz for cat. 5 and up to 125 MHz for cat. 5e. FTP cable is suitable for setting computer systems for data transmission, measuring and control systems and for transmission of high-frequency analogue sygnals in automatic and industrial TV networks . High resistance to electromagnetic influences.

TECHNICAL DATA:
- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance: 100 Ω ± 15 Ω
- Loop resisistance: ≤ 192 0/ km
- Unbalance of loop resistance: ≤ 3%
- Insulation resistance: ≥ 150 MΩ x km
- Operating capacity: ≤ 55,8 nF/km
- Cable diameter: 6 mm
- Cu weight: 18 kg/km
- Cable weight: 31 kg/km

CONSTRUCTION:
- Solid Cu-wires - 24 AWG; 0,51 mm, acc. to IEC 60228
- Insulation: PE compound
- Cable bundle: 4 stranded pairs
- PETP foil
- Drain tinned Cu-wire
- Screen: laminated Al foil
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour tor PVC-grey

Colour	Category	Frequency - MHz	Characteristic of attenuation						Packing (m)	Catalogue number
			4	10	16	62,5	100	125		
grey	Cat. 5e	Attenuation - db/100 m	4,1	6,5	8,2	17	22	24,9	305	**879001**
		Attenuation (Next) - db	56,3	50,3	47,3	38,4	35,3	33,9		

Insulation colour of stranded pairs - core a / core b:
- white with blue ring / blue
- white with orange ring / orange
- white with green ring /green
- white with brown ring / brown

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

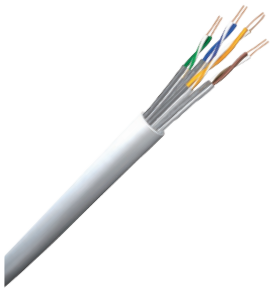
Standards:
LAN cable acc. to ISO/ EC-11801/1995, IEC-1156/1995, ANSI/TIA/EIA-568-A-5
Solid Cu-wires - 24 AWG; 0,57 mm acc. to IEC 60228

STP

5+2 standard +extended 7 YEAR TOTAL WARRANTY

LAN cable, stranded in pairs, with screen on each pair, cat. 6

STP; STP; STP; STP; STP; STP; STP; STP; STP CAT6



Cable, stranded in pairs, with screen of laminated foil on each pair, used for transmission of digital signals with high speed of transmission, with spectrum of the frequency being used up to 300 MHz for cat. 6. The cable is suitable for setting computer systems for data transmission, measuring and control systems and for transmission of high-frequency analogue sygnals in automatic and industrial TV networks and is with high resistance to electromagnetic influences.

TECHNICAL DATA:
- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance:
- 100 Ω ± 15 Ω up to 100 MHz
- 100 Ω ± (15 +0,05(f-100)) above 100 MHz
- Loop resisistance: ≤ 170 Ω / km
- Unbalance of loop resistance: ≤ 3%
- Insulation resistance: ≥ 150 MΩ x km
- Operating capacity: ≤ 50 nF/km
- Cable diameter: 7 mm
- Cu weight: 21 kg/km
- Cable weight 42 kg/km

CONSTRUCTION:
- CCA-wires - 24 AWG; 0,57 mm acc. to IEC 60228
- Insulation: PE compound
- Screen: laminated Al foil on each pair
- Cable bundle: 4 stranded screened pairs
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour: for PVC-grey, for LSOH - orange

Colour	Category	Frequency - MHz	Characteristic of attenuation 4	10	16	62,5	100	200	300	Packing (m)	Catalogue number
grey	Cat. 6	Attenuation - db/100 m	3,8	6	7,6	15,5	19,9	29,5	35	305	**879012**
		Attenuation (Next) - db	65,3	59,3	56,2	47,4	44,3	39,8	38		

Insulation colour of stranded pairs - core a / core b:
- white with blue ring / blue
- white with orange ring / orange
- white with green ring /green
- white with brown ring / brown

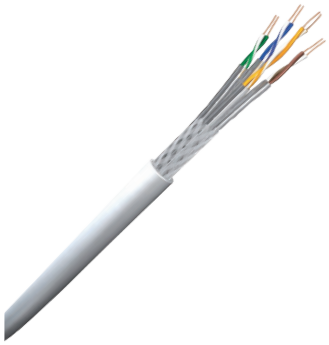
Standards:
LAN cable acc. to ISO/ EC-11801/1995, IEC-1156/1995, ANSI/TIA/EIA-568-A-5
Solid Cu-wires - 24 AWG; 0,51 mm acc. to IEC 60228

S-FTP

5+2 standard +extended 7 YEAR TOTAL WARRANTY

LAN cable, stranded in pairs, with duble-screen, cat. 5

S-FTP; S-FTP; S-FTP; S-FTP; S-FTP; S-FTP; S/FTP; s-FTP; SFTP CAT5



Cable, stranded in pairs, with screen of laminated foil, with braid of tinned copper wires used for transmisson of digital signals with high speed of transmission, with spectrum of the frequency being used up to 100 MHz for cat. 5. The cable is suitable for setting computer systems for data transmisson, measuring and control systems and for transmisson of high-fiequency analogue sygnals in automatic and industrial TV networks. High resistance to electromagnetic influences.

TECHNICAL DATA:
- Ambient temperature: -30°C to +50°C
- Temperature of laying: min. 0°C
- Characteristic Impedance: 100 Ω ± 15 Ω
- Loop resisistance: ≤ 192 0/ km
- Unbalance of loop resistance: ≤ 3%
- Insulation resistance: ≥ 150 MΩ x km
- Operating capacity: ≤ 55,8 nF/km
- Cable diameter: 6,9 mm
- Cu / Cable weight: 31 / 51 kg/km

CONSTRUCTION:
- Solid Cu-wires - 24 AWG; 0,51 mm acc. to IEC 60228
- Insulation: PE compound
- Cable bundle: 4 stranded pairs
- PETP foil
- Screen: laminated Al foil
- Braiding of tinned Cu-wires
- Outer sheath: PVC compound or LSOH compound
- Outer sheath colour: for PVC - grey

Colour	Category	Frequency - MHz	Characteristic of attenuation 4	10	16	62,5	100	125	Packing (m)	Catalogue number
grey	Cat. 5	Attenuation - db/100 m	4,3	6,6	8,2	17,1	22		305	**879011**
		Attenuation (Next) - db	53	47	44	35	32			

Insulation colour of stranded pairs - core a / core b:
- white with blue ring / blue
- white with orange ring / orange
- white with green ring /green
- white with brown ring / brown

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

COAXIAL CABLE RG6 / 96

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Coaxial cable, suitable for connection of TV aerials to TV receivers.
Central cord Cu 0.72 mm2



RG6/96; RG6/96; RG6; RG6; RG6/96; RG6/96; RG6/96; RG6/96; RG6

Suitable for high frequency equipment, measuring and control equipment and appliances, for setting up local computer networks, and data systems, for connection of TV aerials to TV receivers

TECHNICAL DATA:
- model - RG6 / 96;
- material and structure of the core cable: CCS 1.02 mm;
- type of insulation: PE 4.60 mm;
- external conductor (screen): 96 Al foil;
- diameter and cable material: 6.9 mm PVC;
- wave impedance: 75 ± 5 Ohm;
- operating temperature: from -30 ° C to +70 ° C;
- damping ratio: at 100 MHz 0.0637 dB / m.

Colour	Description	Insulation Ø mm	Outer Ø mm	Wave resistance Ω	Max. capacity pF/m	Attenuation at 200 MHZ max. dB/100m	Packing (m)	Catalogue number
white	RG6/96	PE 4,70	8,40 PVC	75 ±3	68	12	100	**856001**

COAXIAL CABLE RG59 / + 2X0.5MM2

5+2 standard +extended 7 YEAR TOTAL WARRANTY

Coaxial cable, suitable for video surveilance systems.
Central cord Cu 0.59 mm2 and two power supply cords. Cu 2x0.5mm2



RG59+2x0.5; RG59+2x0.5; RG59; R59; RG59+2x0.5; RG59(CCTV)+2X0.5; RG59; RG59; RG59+2x0.5

TECHNICAL DATA:
- **Coaxial cable: RG-59**
- Inner conductor: Ø 0.59 mm - CCS wire
- Dielectric: Ø 3.7 mm PE full
- Braid: Stranded wire Cu, Indoor coverage area : 90 %
- Impedance: 75 Ω
- Outer coating: Al foil + Al braiding
- Cable attenuation at 100m section:
- - 10.9 dB @ 100 MHz
- - 15.2 dB @ 200 MHz
- - 23.2 dB @ 450 MHz
- - 32.6 dB @ 800 MHz
- - 36.6 dB @ 1000 MHz

Electrical cable:
- Inner conductor: 2 x 0.5 m CU wires
- Power wires resistance: 4 Ω / 100 m
- Outer coating: Ø 5 mm
- Cat. Number 856004

Colour	Description	Insulation Ø mm	Outer Ø mm	Wave resistance Ω	Max. capacity pF/m	Attenuation at 200 MHZ max. dB/100m	Packing (m)	Catalogue number
white	RG59/U+2x0.5	PE 3,66	8/5mm	75 ±3	53.4	12.4	100	**856004**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



DIGITAL MULTIMETER EM890G

3+0 standard +extended 3 YEAR TOTAL WARRANTY

TECHNICAL FEATURES:
- DC voltage: 200m/ 2 / 20 / 200 / 600 V
- AC voltage : 2 / 20 / 200 / 600 V
- DC current: 2 / 20 / 200 / 10A
- AC current: 200m / 10A
- Resistance: 200 / 2K / 20K / 200K / 2M / 20MΩ
- Capacitors: 2η / 20η / 200η / 2µ / 20µ
- Frequency: 20kHz
- Temperature: -20° up to 1000°C
- Diodes control: yes
- Buzzer: yes
- Transistor test: yes
- Auto power: yes
- Dimensions: 170 x 87 x 33mm
- Weight: 326 g
- Battery: 1x9V

Type	Packing (pcs) / carton	Catalogue number
EM890G	1/40	**519890**



DIGITAL MULTIMETER EM850L

3+0 standard +extended 3 YEAR TOTAL WARRANTY

TECHNICAL FEATURES:
- DC voltage: 200m/ 2 / 20 / 200 / 600 V
- AC voltage : 200 / 600 V
- DC current: 200µ / 2 / 20 / 200 / 10A
- Resistance: 200 / 2K / 20K / 200K / 2MΩ
- Diodes control: yes
- Buzzer: yes
- Transistor test: yes
- Data hold: yes
- Back light function: yes
- Dimensions: 135x 67 x 33mm
- Weight: 147 g
- Battery: 1x9V

Type	Packing (pcs) / carton	Catalogue number
EM850L	1/40	**519850**



DIGITAL MULTIMETER EM83B

3+0 standard +extended 3 YEAR TOTAL WARRANTY

TECHNICAL FEATURES:
- DC voltage: 200m/2000m/ 20 / 200 / 400 V
- AC voltage : 200 / 400 V
- DC current: 2000µ / 20m / 200mA
- Resistance: 200 / 2000 / 20K / 200K / 2000KΩ
- Diodes control: yes
- Buzzer: yes
- Battery test (9V): yes
- Dimensions: 102x 60 x 24mm
- Weight: 60 g
- Battery: 12V

Type	Packing (pcs) / carton	Catalogue number
EM83B	1/100	**519083**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



DIGITAL MULTIMETER EM5510

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a digital device for measuring of humidity, illumination, temperature and all electric values. It features automatic range adjustment, manual value selection. It has an LCD display showing the measured value in digits with the size of 3 ¾ . It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off.

TECHNICAL FEATURES:

- DC voltage: 0.4 / 4 / 40 / 400 / 600 V
- AC voltage : 4 / 40 / 400 / 600V
- DC current: 400µ / 4000µ / 40m / 400m / 10A
- AC current: 400µ / 4000µ / 40m / 400m / 10A
- Resistance: 400 / 4K / 40K / 400K / 4M / 40MΩ
- Capacitors: 4η / 40η / 400η / 4µ / 40µ / 100µF
- Frequency: 10 / 100 / 1k / 10k / 100k / 200kHz
- Loading cycles: from 0.1% to 99.9%
- Temperature: -20° up to 1000°C
- Humidity: 30% to 95%
- Illumination: 4000 Lux / 40000 Lux
- Noise level: 35 to 100dB
- Circuit control: yes
- Diodes control: yes
- Weight: 310 g (including battery)
- Battery: 1x9V
- Dimensions: 83 x 162 x 47mm

Type	Packing (pcs) / carton	Catalogue number
EM5510	1/10	**5195510**



DIGITAL MULTIMETER EM420C

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a digital device for measuring of humidity, illumination, temperature and all electric values. It features automatic range adjustment, manual value selection. It has an LCD display showing the measured value in 4 digits with the size of 16 mm. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off.

TECHNICAL FEATURES:

- DC voltage: 200m/ 2 / 20 / 200 / 600 V
- AC voltage : 2 / 20 / 200 / 600V
- DC current: 200µ / 2000µ / 20m / 200m / 2 / 10A
- AC current: 00µ / 2000µ / 20m / 200m / 2 / 10A
- Resistance: 200 / 2K / 20K / 200K / 2M / 20MΩ
- Temperature: -20° up to 1000°C
- Battery test: 1.5 / 3 / 9 / 12 V
- Circuit control: yes
- Diodes control: yes
- Weight: 200 g (including battery)
- battery: 3x1.5 V
- dimensions: 75 x 158 x 35mm

Type	Packing (pcs) / carton	Catalogue number
EM420C	1/10	**519420**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



DIGITAL MULTIMETER EM3055

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a digital device for measuring of all electric values. It features manual range adjustment. It has an LCD display showing the measured value in 4 digits with the size of 3 ½ . It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences.

TECHNICAL FEATURES:
- DC voltage: 200m/ 2 / 20 / 200 / 1000 V
- AC voltage: 2 / 20 / 200 / 750V
- DC current: 2m / 20m / 200m / 10A
- AC current: 200m / 10A
- Resistance: 200 / 2K / 20K / 200K / 2M / 20M / 200MΩ
- Capacity: 2000p / 20η / 200η / 20μF
- Temperature: 0° up to 1000°C
- Battery test: 1.5 / 3 / 9 / 12 V
- Transistor test: Vce≈3V , Ib≈10μF
- Circuit control: yes
- Diodes control: yes
- Weight: 495 g (including battery)
- battery: 1x9V
- dimensions: 97 x 200 x 48mm

Type	Packing (pcs) / carton	Catalogue number
EM3055	1/10	**5193055**



DIGITAL MULTIMETER EM3058

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a digital device for measuring of temperature and all electric values. It features manual range adjustment, manual value selection. It has an LCD display showing the measured value in digits with the size of 3 ¾ . It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off.

TECHNICAL FEATURES:
- DC voltage: 200m/ 2 / 20 / 200 / 1000 V
- AC voltage: 200 m / 2 / 20 / 200 / 750V
- DC current: 20μ / 200 μ / 2m / 200m / 10A
- AC current: 20μ / 200μ / 2m / 200m / 2 / 10A
- Resistance: 200 / 2K / 20K / 200K / 2M / 20M / 200MΩ
- Capacitors: 2η / 20η / 200η / 2μ / 20μF
- Frequency: 20kHz to 2000kHz
- Loading cycles: 0.1% to 99.9%
- Temperature: 0° up to 1000°C
- Logical level: High > 2.0 V; Low < 0.8 V
- Circuit control: yes
- Diodes control: yes
- Weight: 495 g (including battery)
- battery: 1x9V
- dimensions: 97 x 200 x 47 mm

Type	Packing (pcs) / carton	Catalogue number
EM3058	1/10	**5193058**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



DIGITAL MULTIMETER EM31

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a digital device for measuring of electric values. It features automatic range adjustment, manual value selection. It has an LCD display showing the measured value in 4 digits with the size of 16 mm. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off and low battery indication.

TECHNICAL FEATURES:
- DC voltage: 240m/ 2400m / 24 / 240 / 600 V
- AC voltage: 240m/ 2400m / 24 / 240 / 600 V
- DC current: 240µ / 2400µ / 24m / 240m / 10A
- AC current: 240µ / 2400µ / 24m / 240m / 10A
- Resistance: 400Ω - 40MΩ
- Capacity: 51.2ηF to 51.2µF
- Frequency: 50 / 500 / 5000 / 50k / 50MHz
- Circuit control: yes
- Diodes control: yes
- Weight: 137 g (including battery)
- battery: 9V
- dimensions: 70 x 126 x 28mm

Type	Packing (pcs) / carton	Catalogue number
EM31	1/10	**519031**



DIGITAL MULTIMETER / PEN EM3215

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a digital device for measuring of electric values in the form of a pen. It features automatic range adjustment, manual value selection. It has an LCD display, data retain function, automatic reset, polarity selection, range overload indication. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off and low battery indication and a torch.

TECHNICAL FEATURES:
- DC voltage: 200m/ 2 / 20 / 200 / 600 V
- AC voltage: 2 / 20 / 200 / 600V
- DC current: 20m to 200mA
- AC current: 20m to 200mA
- Resistance: 200 / 2K / 20K / 200K / 2M / 20MΩ
- Logical level: High > 2.3V; Low < 0.8 V
- Circuit control: yes
- Diodes control: yes
- Weight: 182 g (including battery)
- battery: 1x9V
- dimensions: 57 x 230 x 30mm

Type	Packing (pcs) / carton	Catalogue number
EM3215	1/10	**5193215**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



DIGITAL CLAMP METER EM202

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a digital clamp meter for measuring of electric values. It features manual range adjustment, manual value selection. It has an LCD display showing the measured value in digits with the size of 3½ mm. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off.

TECHNICAL FEATURES:
- DC voltage: 1000 V
- AC voltage: 750V
- AC current: 20 / 200 / 1000A
- Resistance: 200 kΩ
- Temperature: -40° up to 1400°C
- Circuit control: yes
- Diodes control: yes
- Weight: 400 g (including battery)
- battery: 1x9V
- dimensions: 99 x 250 x 43mm

Type	Packing (pcs) / carton	Catalogue number
EM202	1/10	**519202**



DIGITAL CLAMP METER EM204

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a digital clamp meter for measuring of electric values. It features automatic range adjustment, manual value selection. It has an LCD display, low battery indication, overload protection. It is of high accuracy of analogue-digital conversion, precision in measuring and resistance to electro-magnetic interferences. It has an automatic switch off.

TECHNICAL FEATURES:
- DC voltage: 1000 V
- AC voltage: 750V
- DC current: 200 / 1000A
- AC current: 200 / 1000A
- Resistance: 200 kΩ
- Frequency: 2 kHz
- Circuit control: yes
- Weight: 400 g (including battery)
- battery: 1x9V
- dimensions: 99 x 258 x 43mm

Type	Packing (pcs) / carton	Catalogue number
EM204	1/10	**519204**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



DIGITAL CLAMP METER EM266

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a digital clamp meter for measuring of electric values. It features manual range adjustment. It has an LCD display and retain function option, low battery indication and overload protection.

TECHNICAL FEATURES:
- DC voltage: 1000 V
- AC voltage: 750V
- AC current: 200 / 1000A
- Resistance: 200 / 20 kΩ
- Circuit control: yes
- Diodes control: yes
- Weight: 310 g (including battery)
- battery: 1x9V
- dimensions: 69 x 229 x 38mm

Type	Packing (pcs) / carton	Catalogue number
EM266	1/10	**519266**



INFRARED TEMPERATURE METER EM520A

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a digital device for measuring of temperature.The temperature is measured with no contact. It has a laser counter for precision measuring, suitable large LCD display, battery low indication and overload protection.

TECHNICAL FEATURES:
- Temperature: -20° up to 320°C / -4° to 608 °F
- Distance to point size: 6:1
- Precision: ±2° C or 2% in reading
- battery: 1x9V
- dimensions: 90 x 155 x 45mm

Type	Packing (pcs) / carton	Catalogue number
EM520A	1/5	**519520**



DIGITAL DETECTOR 4 IN 1 SERIES TS530

3+0 standard +extended 3 YEAR TOTAL WARRANTY

This is a device for detecting metals, voltage and live conductors, wooden struts, or piping sections. The device has a 2-meter measuring tape. It features light and sound indication. When an object is located, the display light blinks and marks with increasing position. Once the exact position is located, a light point is marked on the wall through a button.

TECHNICAL FEATURES:
- 2-meter measuring tape
- Pen: marking the located detail
- Piping section: metal pipe up to 25mm
- Wooden struts: 30x30mm
- Live conductors detection: 50mm for 90 ~ 250V; 50/60Hz
- Weight: 213 g (including battery)
- battery: 1x9 V
- dimensions: 73 x 180 x 32mm

Type	Packing (pcs) / carton	Catalogue number
TS530	1/10	**519530**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



INDUSTRIAL REPAIR KIT ETK06A

3+0 standard +extended 3 YEAR TOTAL WARRANTY

A finely packaged repair kit containing four elements in a metal briefcase, sealed with special plastic foam and struts for each instrument.

THE KIT INCLUDES:
- Digital multimeter EM420
- Digital clamp-on ammeter EM465
- Phase meter GK7
- Infrared temperature meter EM520A

Type	Packing (pcs) / carton	Catalogue number
ETK06A	1/6	**51906A**



VOLTAGE TESTER

2+0 standard +extended 2 YEAR TOTAL WARRANTY

The voltage tester screwdriver is used for detecting the presence of electrical voltage. Existence of voltage is shown via lighting signal indicator located in the handle of the screwdriver. It can detect voltage in the range from 100V to 250V. The screwdriver has a flat tip.

TECHNICAL FEATURES:
- Length-3.5*140mm
- Voltage range 100-250V~
- GS, CE certifycates

Type	Packing (pcs) / carton	Catalogue number
DN-8203	1/480	**519203**



VOLTAGE TESTER

2+0 standard +extended 2 YEAR TOTAL WARRANTY

TECHNICAL FEATURES:
- Length-3.5*190mm
- Voltage range 100-500V~
- ABS+PC

Type	Packing (pcs) / carton	Catalogue number
EL-1805	1/40/600	**519205**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

PHASE METER GK7

3+0 standard +extended 3 YEAR TOTAL WARRANTY



A device indicating phase availability in the system. No contact phase indicator featuring sound and light indication of phase availability.

TECHNICAL FEATURES:
- Voltage range: from 50 to 1000V
- Frequency range: from 50 Hz to 500 Hz
- dimensions: length – 62mm

Type	Packing (pcs) / carton	Catalogue number
GK7	60	**519GK7**

VOLTAGE TESTER

2+0 standard +extended 2 YEAR TOTAL WARRANTY



TECHNICAL FEATURES:
- Length-2.0*185mm
- Voltage range 6-380V
- ABS

Type	Packing (pcs) / carton	Catalogue number
EL-EN08	1/10/200	**519206**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



CUTTER

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Length (mm)	Packing (pcs) / carton	Catalogue number
Cutter	760	1	**598245**



MULTI-PURPOSE WIRING TOOL

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Ergonomic molded anti-slip grid handle
Crimp insulated and non insulated cable terminals

Type	Size (mm)	Cable size section	Packing (pcs) / carton	Catalogue number
Wiring tool	200	0.75-6.0mm	6/36	**598030**



AUTOMATIC WIRE STRIPPER

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Wire is automatically gripped and stripped with the same motion
Adjustable dial
Comfort grip handle

Type	Size (mm)	Cable size section	Packing (pcs) / carton	Catalogue number
Wire Stripper	168	1.0-3.2mm	6/36	**598032**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



INSTRUMENT FOR MANUAL CRIMPING OF CONDUCTORS HD – 005 TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Crimping of naked cable terminals

TECHNICAL DATA:
- Possibility for crimping of cable conductors up to 10mm^2
- Form of the crimping head: hexahedral^2
- Weight of the instrument: 0.49kg
- Length of the instrument: 220mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
HD – 005	20	**59308**



INSTRUMENT FOR MANUAL CRIMPING OF CONDUCTORS G – 301H TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Crimping of isolated cable terminals

TECHNICAL DATA:
- Possibility for crimping of cable conductors up to 6mm^2
- Form of the crimping head: hexahedral
- Weight of the instrument: 0.49kg
- Length of the instrument: 220mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
G – 301H	20	**59307**



CRIMPING PLIERS SN – 003 TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Crimping of naked cable terminals and joining bushes

TECHNICAL DATA:
- Possibility for crimping of cable conductors from 6 to 16mm^2
- Form of the crimping head: hexahedral
- Weight of the instrument: 0.39kg
- Length of the instrument: 190mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
SN – 003	10 / 20	**59309**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



MECHANICAL CABLE CUTTING PLIERS CC – 325 TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Cutting of aluminum or copper cable conductors
- Cutting of conductors with metal bearing core

TECHNICAL DATA:
- Maximum section of the cable:
  - for aluminum conductors up to 150mm^2
  - for copper conductors up to 150mm^2
- Cutting power: 15T
- Presence of cutting mechanism type ratchet
- Presence of brake of the cutting mechanism
- Weight of the instrument: 0.58kg
- Length of the instrument: 260mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
CC – 325	5 / 10	**59305**



MECHANICAL CABLE CUTTING PLIERS CC – 400 TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Cutting of aluminum or copper cable conductors
- Cutting of conductors with metal bearing core

TECHNICAL DATA:
- Maximum section of the cable:
  - - for aluminum conductors up to 400mm^2
  - - for copper conductors up to 350mm^2
- Cutting power: 15T
- Presence of cutting mechanism type ratchet
- Presence of brake of the cutting mechanism
- Weight of the instrument: 1.25kg
- Length of the instrument: 360mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
CC – 400	5	**59304**



MECHANICAL CABLE CUTTING PLIERS HS – 250 TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Cutting of aluminum or copper cable conductors
- Cutting of conductors with metal bearing core

TECHNICAL DATA:
- Maximum section of the cable:
  - for aluminum conductors up to 240mm^2
  - for copper conductors up to 185mm^2
- Weight of the instrument: 1.43kg
- Length of the instrument: 540mm
- Packing: blister

Type	Packing (pcs) / carton	Catalogue number
HS – 250	10	**59306**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.





HYDRAULIC CRIMPING PLIERS HT - 300 TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Crimping of aluminum or copper conductors with cable terminals or bush in the corresponding size

TECHNICAL DATA:
- Crimping head turning at 360° which facilitates the crimping of static conductors
- Device for automatic following of the effort at crimping completion
- Form of the crimping element: hexahedral
- Size of the crimping element: 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 mm^2
- Section of the crimping conductors:
  - Al conductors - from 16 to 300 mm^2
  - Cu conductors – from 16 to 240 mm^2
- Element pressing power: 60kN
- Width of the element: 17mm
- Weight of the instrument: 3.3 kg
- Length: 460mm
- Used hydraulic oil: #15 (hydraulic oil with viscosity 15)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder

Type	Packing (pcs) / carton	Catalogue number
HT - 300	2	**59300**





HYDRAULIC CRIMPING PLIERS KYQ-300B TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Crimping of aluminum or copper conductors with cable terminals or bush in the corresponding size

TECHNICAL DATA:
- Device for automatic following of the effort at crimping completion
- Form of the crimping element: hexahedral
- Size of the crimping element: 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 mm^2
- Section of the crimping conductors:
  - Al conductors - from 16 to 300 mm^2
  - Cu conductors – from 16 to 240 mm^2
- Element pressing power: 100kN
- Width of the element: 22mm
- Weight of the instrument: 6.8 kg
- Length: 500mm
- Used hydraulic oil: #23 (hydraulic oil with viscosity 23)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder

Type	Packing (pcs) / carton	Catalogue number
KYQ-300B	2	**59302**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.





HYDRAULIC CRIMPING PLIERS YQK-300 TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Crimping of aluminum or copper conductors with cable terminals or bush in the corresponding size

TECHNICAL DATA:
- Form of the crimping element: hexahedral
- Size of the crimping element: 10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 mm^2
- Section of the crimping conductors:
  - Al conductors - from 10 to 300 mm^2
  - Cu conductors – from 10 to 240 mm^2
- Element pressing power: 100kN
- Width of the element: 22mm
- Weight of the instrument: 6.3 kg
- Length: 500mm
- Used hydraulic oil: #15 (hydraulic oil with viscosity 15)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder

Type	Packing (pcs) / carton	Catalogue number
YQK-300	4	**59301**



HYDRAULIC CRIMPING PLIERS YQK – 50 TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
Crimping of aluminum or copper conductors with cable terminals or bush in the corresponding size

TECHNICAL DATA:
- Form of the crimping element: hexahedral
- Size of the crimping element: 4, 6, 10, 16, 25, 35, 50 mm^2
- Section of the crimping conductors:
  - Al conductors - from 4 to 50mm^2
  - Cu conductors – from 4 to 50 mm^2
- Element pressing power: 8T
- Width of the element: 10mm
- Weight of the instrument: 2.8 kg
- Length: 310mm
- Used hydraulic oil: #15 (hydraulic oil with viscosity 15)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder

Type	Packing (pcs) / carton	Catalogue number
YQK – 50	5	**59303**



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



HYDRAULIC PUNCHING PLIERS WK - 8 TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Cutting through openings in sheet metal with gauge up to 3mm without rotary motion

TECHNICAL DATA:
- Piercing head turning at 360°
- Form of the cutting element: round
- Size of the cutting element: Ø 22, 27.5, 34.3, 40, 49, 60.8mm
- Piercing capacity:
  - sheet metal 3mm – openings up to Ø 30mm
  - sheet metal 2mm – openings up to Ø 60mm
- Element pressing power: 80kN
- Thickness of the element: 25mm
- Weight of the instrument: 3.5 kg
- Used hydraulic oil: #15 (hydraulic oil with viscosity 15)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder
- Additional set of cutting elements for cable glands – Ø16, 20, 26.2, 32.5, 39, 51, 63 and a square for display devices 46.5x46.5, 68x68 (ordered additionally); Catalogue number 54002

Type	Packing (pcs) / carton	Catalogue number
WK - 8	2	**54000**
Additional set	2	**54002**



HYDRAULIC PUNCHING PRESS SYK – 15 TYPE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

FUNCTIONS:
- Cutting through openings in sheet metal with gauge up to 3mm without rotary motion

TECHNICAL DATA:
- Protracting piercing head supplied with a hose for the hydraulic oil that gives possibility for piercing openings everywhere on the metal surface
- Form of the cutting element:
  - round
  - square
- Size of the cutting element:
  - square: 32x32mm
  - round openings: Ø 22, 27.5, 34.3, 40, 49, 60.8mm
- Piercing capacity:
  - sheet metal 3mm – openings up to Ø 60.8mm
  - sheet metal 2mm – openings up to Ø 115.5mm
  - square opening up to 110x110mm
- Element pressing power: 15T
- Thickness of the element: 25mm
- Weight of the instrument: 11.5 kg
- Used hydraulic oil: #15 (hydraulic oil with viscosity 15)
- Metal box for the instrument
- A set of congestion hoops for the hydraulic cylinder
- Additional set of cutting elements for cable glands – Ø16, 20, 26.2, 32.5, 39, 51, 63 and a square for display devices 46.5x46.5, 68x68 (ordered additionally); Catalogue number 54002

Type	Packing (pcs) / carton	Catalogue number
SYK – 15	2	**54001**
Additional set	2	**54002**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



CrV

1000V

3+2 standard +extended 5 YEAR TOTAL WARRANTY

VDE INSULATED COMBINED PLIERS

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
COMBINED PLIERS 1000V	200	6 / 36	**598001**



CrV

1000V

3+2 standard +extended 5 YEAR TOTAL WARRANTY

VDE INSULATED LONG NOSE PLIERS

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
LONG NOSE PLIERS 1000V	200	6 / 36	**598002**



CrV

1000V

3+2 standard +extended 5 YEAR TOTAL WARRANTY

VDE INSULATED DIAGONAL PLIERS

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
CUTTING PLIERS 1000V	160	6 / 36	**598003**



CrV

1000V

3+2 standard +extended 5 YEAR TOTAL WARRANTY

VDE INSULATED WIRE STRIPPER

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
WIRE STRIPPER 1000V	160	6 / 36	**598004**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



1000V

VDE INSULATED GROOVE JOINT PLIERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
GROOVE JOINT PLIERS 1000V	250	6/36	**598005**

CrV



1000V

VDE INSULATED SCREWDRIVER- SLOTTED

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
SCREWDRIVER- SLOTTED	2.5X50	6/36	**598006**
SCREWDRIVER- SLOTTED	3.5X75	6/36	**598007**
SCREWDRIVER- SLOTTED	4X100	6/36	**598008**
SCREWDRIVER- SLOTTED	5.5X150	6/36	**598009**

CrV



1000V

VDE INSULATED SCREWDRIVER- PH

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
SCREWDRIVER	PH0X75	6/36	**598010**
SCREWDRIVER	PH1X100	6/36	**598011**
SCREWDRIVER	PH2X125	6/36	**598012**

CrV

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



VDE CABLE CUTTING PLIERS, 1000V

3+2 standard +extended 5 YEAR TOTAL WARRANTY

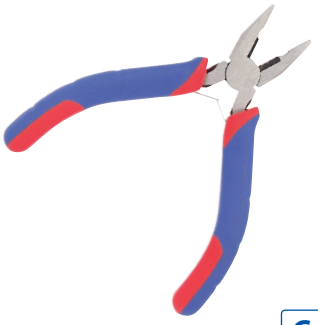
Type	Size (mm)	Packing (pcs) / carton	Catalogue number
VDE Cable Cutting Pliers	180	1 / 6 / 60	**599200180**



VDE SCREWDRIVER, SLOTTED, 1000V

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Length (mm)	Packing (pcs) / carton	Catalogue number
VDE Screwdriver, Slotted	5,5	125	1 / 12 / 240	**599055125**



CrV

MINI COMBINED PLIERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Mini combined pliers	115	6/36	**598040**



CrV

MINI DIAGONAL PLIERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Mini diagonal pliers	115	6/36	**598042**



UNTIL SUPPLY LAST

BENT NOSE MINI PLIERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Bent Nose Mini Pliers	115	1 / 12 / 120	**592400115**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



COMBINED PLIERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle
Heat treated, fully polished

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Combined pliers	160	6/36	**598043**
Combined pliers	180	6/36	**598044**

CrV



DIAGONAL PLIERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle
Heat treated, fully polished

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Diagonal pliers	160	6/36	**598046**

CrV



LONG NOSE PLIERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Chrome-vanadium steel for longer life and durability
Bi-material comfort grip handle
Heat treated, fully polished

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Long nose pliers	160	6/36	**598047**

CrV

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



MAGNETIC SCREWDRIVER- SLOTTED

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	6x38	6/36	**598070**
Screwdriver	3x75	6/36	**598071**
Screwdriver	3x100	6/36	**598072**
Screwdriver	4x100	6/36	**598073**

CrV



MAGNETIC SCREWDRIVER- PH

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	PH2x38	6/36	**598080**

CrV



MAGNETIC SCREWDRIVER- PZ

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	PZ2x38	6/36	**598089**

CrV



MAGNETIC BIT HOLDER

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Packing (pcs) / carton	Catalogue number
Bit holder	6/36	**598096**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

COMBINATION PLIERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Combination pliers	200	1 / 6 / 36	**592100200**

SIDE CUTTING PLIERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Side Cutting Pliers	180	1 / 6 / 36	**592200180**

CUTTING PLIERS, HEAVY DUTY

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Cutting Pliers, Heavy Duty	180	1 / 6 / 36	**592201180**



UNTIL SUPPLY LAST

SCREWDRIVER SLOTTED

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Length (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	4	150	1 / 12 / 120	**593140150**
Screwdriver	5	100	1 / 12 / 120	**593150100**
Screwdriver	5	150	1 / 12 / 120	**593150150**
Screwdriver	6	100	1 / 12 / 120	**593160100**
Screwdriver	6	150	1 / 12 / 120	**593160150**
Screwdriver	8	150	1 / 6 / 60	**593180150**



UNTIL SUPPLY LAST

SCREWDRIVER PH

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Length (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	PH0	75	1 / 12 / 120	**593200075**
Screwdriver	PH0	100	1 / 12 / 120	**593200100**
Screwdriver	PH0	150	1 / 12 / 120	**593200150**
Screwdriver	PH1	75	1 / 12 / 120	**593201075**
Screwdriver	PH1	100	1 / 12 / 120	**593201100**
Screwdriver	PH1	150	1 / 12 / 120	**593201150**
Screwdriver	PH2	100	1 / 12 / 120	**593202100**
Screwdriver	PH2	150	1 / 12 / 120	**593202150**
Screwdriver	PH3	150	1 / 6 / 60	**593203150**



UNTIL SUPPLY LAST

SCREWDRIVER PZ

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Length (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	PZ0	75	1 / 12 / 120	**593300075**
Screwdriver	PZ1	100	1 / 12 / 120	**593301100**
Screwdriver	PZ2	150	1 / 12 / 120	**593302150**
Screwdriver	PZ3	150	1 / 6 / 60	**593303150**



SCREWDRIVER T

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Length (mm)	Packing (pcs) / carton	Catalogue number
Screwdriver	T5	75	1 / 12 / 120	**593400005**
Screwdriver	T6	75	1 / 12 / 120	**593400006**
Screwdriver	T7	75	1 / 12 / 120	**593400007**
Screwdriver	T8	75	1 / 12 / 120	**593400008**
Screwdriver	T9	75	1 / 12 / 120	**593400009**
Screwdriver	T10	100	1 / 12 / 120	**593400010**
Screwdriver	T15	100	1 / 12 / 120	**593400015**
Screwdriver	T20	100	1 / 12 / 120	**593400020**
Screwdriver	T25	100	1 / 12 / 120	**593400025**
Screwdriver	T27	100	1 / 12 / 120	**593400027**
Screwdriver	T30	100	1 / 12 / 120	**593400030**
Screwdriver	T40	150	1 / 6 / 60	**593400040**

UNTIL SUPPLY LAST



SLOTTED BIT 1/4

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Length (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
Slotted bit	4,0	25	2	125 / 500	**594104025**
Slotted bit	4,5	25	2	125 / 500	**594104525**
Slotted bit	5,5	25	2	125 / 500	**594105525**
Slotted bit	6,0	25	2	125 / 500	**594106025**
Slotted bit	6,5	25	2	125 / 500	**594106525**
Slotted bit	8,0	25	2	125 / 500	**594108025**
Slotted bit	9,0	25	2	125 / 500	**594109025**

UNTIL SUPPLY LAST



SLOTTED BIT 1/4

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Length (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
Slotted bit	4,0	50	2	125 / 500	**594114050**
Slotted bit	4,5	50	2	125 / 500	**594114550**
Slotted bit	5,5	50	2	125 / 500	**594115550**
Slotted bit	6,0	50	2	125 / 500	**594116050**
Slotted bit	6,5	50	2	125 / 500	**594116550**
Slotted bit	8,0	50	2	125 / 500	**594118050**
Slotted bit	9,0	50	2	125 / 500	**594119050**

UNTIL SUPPLY LAST



PH BIT 1/4

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Type	Size (mm)	Length (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
PH bit	PH0	25	2	125 / 500	**594200025**
PH bit	PH1	25	2	125 / 500	**594200125**
PH bit	PH2	25	1	10	**594200225**
PH bit	PH3	25	2	125 / 500	**594200325**
PH bit	PH1	50	1	10	**594210150**
PH bit	PH2	50	1	10	**594210250**
PH bit	PH3	50	2	125 / 500	**594210350**
PH bit	PH4	50	2	125 / 500	**594210450**

PZ BIT1/4

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Type	Size (mm)	Length (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
PZ bit	PZ0	25	2	125 / 500	**594300025**
PZ bit	PZ1	25	2	125 / 500	**594300125**
PZ bit	PZ2	25	1	10	**594300225**
PZ bit	PZ3	25	2	125 / 500	**594300325**
PZ bit	PZ1	50	2	125 / 500	**594310150**
PZ bit	PZ2	50	1	10	**594310250**
PZ bit	PZ3	50	2	125 / 500	**594310350**
PZ bit	PZ4	50	2	125 / 500	**594310450**

TORX BIT

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Type	Size (mm)	Length (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
TORX bit	T4	25	2	125 / 500	**594400425**
TORX bit	T5	25	2	125 / 500	**594400525**
TORX bit	T6	25	2	125 / 500	**594400625**
TORX bit	T7	25	2	125 / 500	**594400725**
TORX bit	T8	25	2	125 / 500	**594400825**
TORX bit	T9	25	2	125 / 500	**594400925**
TORX bit	T10	25	2	125 / 500	**594401025**
TORX bit	T15	25	2	125 / 500	**594401525**
TORX bit	T20	25	2	125 / 500	**594402025**
TORX bit	T25	25	2	125 / 500	**594402525**
TORX bit	T27	25	2	125 / 500	**594402725**
TORX bit	T30	25	2	125 / 500	**594403025**
TORX bit	T40	25	2	125 / 500	**594404025**

UNTIL SUPPLY LAST

TORX BIT

3+2 standard +extended 5 YEAR TOTAL WARRANTY



UNTIL SUPPLY LAST

Type	Size (mm)	Length (mm)	Packing (pcs) / hanging card	Packing (pcs) / carton	Catalogue number
TORX bit	T10	50	2	125 / 500	**594411050**
TORX bit	T15	50	2	125 / 500	**594411550**
TORX bit	T20	50	2	125 / 500	**594412050**
TORX bit	T25	50	2	125 / 500	**594412550**
TORX bit	T27	50	2	125 / 500	**594412750**
TORX bit	T40	50	2	125 / 500	**594414050**

RACHET HANDLE

3+2 standard +extended 5 YEAR TOTAL WARRANTY



UNTIL SUPPLY LAST

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Rachet handle	3/8"	1 / 6 / 36	**595100038**

HEXAGON SOCKET 1/4

3+2 standard +extended 5 YEAR TOTAL WARRANTY



UNTIL SUPPLY LAST

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
1/4" socket	4mm	1 / 14 / 280	**595300040**
1/4" socket	4.5mm	1 / 14 / 280	**595300045**
1/4" socket	5mm	1 / 14 / 280	**595300050**
1/4" socket	5.5mm	1 / 14 / 280	**595300055**
1/4" socket	6mm	1 / 14 / 280	**595300060**
1/4" socket	7mm	1 / 14 / 280	**595300070**
1/4" socket	8mm	1 / 14 / 280	**595300080**
1/4" socket	9mm	1 / 14 / 280	**595300090**
1/4" socket	10mm	1 / 14 / 280	**595300100**
1/4" socket	11mm	1 / 14 / 280	**595300110**
1/4" socket	12mm	1 / 14 / 280	**595300120**
1/4" socket	13mm	1 / 14 / 280	**595300130**
1/4" socket	14mm	1 / 14 / 280	**595300140**

HEXAGON SOCKET 3/8

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Type	Size (mm)	Packing (pcs) / carton	Catalogue number
3/8" socket	6mm	1 / 14 / 280	**595400006**
3/8" socket	7mm	1 / 14 / 280	**595400007**
3/8" socket	8mm	1 / 14 / 280	**595400008**
3/8" socket	9mm	1 / 14 / 280	**595400009**
3/8" socket	10mm	1 / 14 / 280	**595400010**
3/8" socket	11mm	1 / 14 / 280	**595400011**
3/8" socket	12mm	1 / 14 / 280	**595400012**
3/8" socket	13mm	1 / 12 / 240	**595400013**
3/8" socket	14mm	1 / 12 / 240	**595400014**
3/8" socket	15mm	1 / 12 / 240	**595400015**
3/8" socket	16mm	1 / 12 / 240	**595400016**
3/8" socket	17mm	1 / 12 / 240	**595400017**
3/8" socket	18mm	1 / 10 / 200	**595400018**
3/8" socket	19mm	1 / 10 / 200	**595400019**
3/8" socket	20mm	1 / 10 / 200	**595400020**
3/8" socket	21mm	1 / 8 / 160	**595400021**

UNTIL SUPPLY LAST

HEXAGON SOCKET 1/2

3+2 standard +extended 5 YEAR TOTAL WARRANTY



Type	Size (mm)	Packing (pcs) / carton	Catalogue number
1/2" socket	10mm	1 / 10 / 200	**595500010**
1/2" socket	11mm	1 / 10 / 200	**595500011**
1/2" socket	12mm	1 / 10 / 200	**595500012**
1/2" socket	13mm	1 / 10 / 200	**595500013**
1/2" socket	14mm	1 / 10 / 200	**595500014**
1/2" socket	15mm	1 / 10 / 200	**595500015**
1/2" socket	16mm	1 / 10 / 200	**595500016**
1/2" socket	17mm	1 / 8 / 160	**595500017**
1/2" socket	18mm	1 / 8 / 160	**595500018**
1/2" socket	19mm	1 / 8 / 160	**595500019**
1/2" socket	20mm	1 / 8 / 160	**595500020**
1/2" socket	21mm	1 / 8 / 160	**595500021**
1/2" socket	22mm	1 / 8 / 160	**595500022**
1/2" socket	23mm	1 / 6 / 120	**595500023**
1/2" socket	24mm	1 / 6 / 120	**595500024**
1/2" socket	27mm	1 / 5 / 100	**595500027**
1/2" socket	30mm	1 / 4 / 80	**595500030**
1/2" socket	32mm	1 / 4 / 80	**595500032**

UNTIL SUPPLY LAST

COMBINATION SPANNER

3+2 standard +extended 5 YEAR TOTAL WARRANTY



UNTIL SUPPLY LAST

Type	Size (mm)	Length (mm)	Offset ring end	Packing (pcs) / carton	Catalogue number
Combination Spanner	9	6,5	15º	1 / 12 / 300	**596200009**
Combination Spanner	11	7,5	15º	1 / 12 / 300	**596200011**
Combination Spanner	15	9,5	15º	1 / 12 / 180	**596200015**
Combination Spanner	16	10,0	15º	1 / 12 / 180	**596200016**
Combination Spanner	18	11,0	15º	1 / 12 / 120	**596200018**
Combination Spanner	20	12,0	15º	1 / 6 / 120	**596200020**
Combination Spanner	21	12,3	15º	1 / 6 / 90	**596200021**
Combination Spanner	22	12,5	15º	1 / 6 / 90	**596200022**
Combination Spanner	23	12,8	15º	1 / 6 / 90	**596200023**
Combination Spanner	24	13,0	15º	1 / 6 / 60	**596200024**
Combination Spanner	27	14,5	15º	1 / 6 / 60	**596200027**

DOUBLE OPEN SPANNER

3+2 standard +extended 5 YEAR TOTAL WARRANTY



UNTIL SUPPLY LAST

Type	Size (mm)	Length (mm)	Packing (pcs) / carton	Catalogue number
Double Open Spanner	6x7	120	1 / 12 / 300	**596300067**
Double Open Spanner	8x9	140	1 / 12 / 300	**596300089**
Double Open Spanner	14x15	185	1 / 12 / 240	**596301415**
Double Open Spanner	16x17	200	1 / 12 / 180	**596301617**
Double Open Spanner	18x19	220	1 / 12 / 180	**596301819**
Double Open Spanner	20x22	235	1 / 6 / 120	**596302022**
Double Open Spanner	21x23	245	1 / 6 / 60	**596302123**
Double Open Spanner	25x28	270	1 / 6 / 48	**596302528**
Double Open Spanner	30x32	295	1 / 6 / 48	**596303032**

DOUBLE OFFSET RING SPANNER

3+2 standard +extended 5 YEAR TOTAL WARRANTY



UNTIL SUPPLY LAST

Type	Size (mm)	Length (mm)	Offset ring end	Packing (pcs) / carton	Catalogue number
Double Offset Ring Spanner	6x7	165	75º	1 / 12 / 240	**596400067**
Double Offset Ring Spanner	8x9	180	75º	1 / 12 / 240	**596400089**
Double Offset Ring Spanner	14x15	235	75º	1 / 6 / 150	**596401415**
Double Offset Ring Spanner	16x17	250	75º	1 / 6 / 150	**596401617**
Double Offset Ring Spanner	18x19	265	75º	1 / 6 / 120	**596401819**
Double Offset Ring Spanner	20x22	285	75º	1 / 6 / 60	**596402022**
Double Offset Ring Spanner	21x23	305	75º	1 / 6 / 60	**596402123**
Double Offset Ring Spanner	24x27	325	75º	1 / 6 / 60	**596402427**
Double Offset Ring Spanner	25x28	340	75º	1 / 6 / 30	**596402528**
Double Offset Ring Spanner	30x32	375	75º	1 / 6 / 30	**596403032**



PLASTIC LEVEL

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Durable acrylic vials read plumb, level, 45°
Top read window for convenience
Rubber end caps for shock-resistant
Highly visible vials with magnetic base

Type	Length (mm)	Packing (pcs) / carton	Catalogue number
Level	228.6	6/36	**598243**



UNTIL SUPPLY LAST

LEVEL

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Level	1200	1 / 24	**597500120**



UNTIL SUPPLY LAST

SAW

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Saw	400	1 / 6 / 60	**597200400**



6PC PRECISION SCREWDRIVER SET

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Slotted size: 1.4mm, 2.0mm, 2.4mm, 3.0mm
PH size: PH0, PH1
Carbon steel blade with black finish
With chrome plated handle

Type	Packing (pcs) / carton	Catalogue number
Screwdriver set	6/36	**598094**



15-IN-1 MULTI-PURPOSE PLIERS

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Precision punched
Machined surface
Stainless steel components
Compact folding design
deal selection for general purpose use

Type	Packing (pcs) / carton	Catalogue number
Multi pliers	4/24	**598210**



ALLIGATORS CLIPS SETS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Rated current	Colour	Length (mm)	Packing / Box (pcs)	Catalogue number
F 275	max 5A	red/ black	50	50	**M500060**
F 279	max 80A	red/ black	80	50	**M500059**
L 150	max 200A	red/ black	150	2	**M411012**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



CUTTER KNIFE 9MM

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Handle material: Plastic PP
Blade material: Steel
Blade size: 83x9x0.4mm;
Color: Yellow
Packaging: Blister card

Type	Packing (pcs) / carton	Catalogue number
Cutter knife	1/135/1080	**597300009**



CUTTER KNIFE 18MM

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Handle material: Plastic PP
Blade material: Steel
Blade size: 100x18x0.5mm;
Color: Blue
Packaging: Blister card

Type	Packing (pcs) / carton	Catalogue number
E-7229 Cutter knife	1/50/400	**597300021**



CUTTER KNIFE 18MM

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Handle material: Plastic PP+TPR
Blade material: SK5
Blade size: 100x18x0.5mm;
Color: Red
Packaging: Blister card

Type	Packing (pcs) / carton	Catalogue number
E-82087 Cutter knife	1/36/288	**597300019**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



FOLDABLE KNIFE 18MM

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Handle material: Plastic PP+TPR
Blade material: SK5(1+5pcs)
Blade size: 60x19x0.5mm;
Color: Yellow
Packaging: Blister card

Type	Packing (pcs) / carton	Catalogue number
E7002 Foldable knife	1/12/240	**597300022**



ALUMINIUM AUTO-LOCK KNIFE

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Handle material: Aluminum Alloy
Blade material: SK5
Blade size: 60x19x0.5mm;
Color: Silver
Packaging: Blister card

Type	Packing (pcs) / carton	Catalogue number
E-522 Auto- lock knife	1/36/288	**597300020**



ALUMINUM FIXED BLADE UTILITY KNIFE

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Razor-sharp tempered SK5 blade
Aluminum alloy housing
Fixed blade for more cutting power
3PC blades included

Type	Packing (pcs) / carton	Catalogue number
Aluminium utility knife	6/36	**598201**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



KNIFE SPARE BLADES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Size (mm)	Packing (pcs) / carton	Catalogue number
Knife spare blades	9	10 / 40 / 600	**597310009**
Knife spare blades	18	1/20/400	**597310018**



HAMMER WITH HARDWOOD HANDLE

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Drop forged carbon steel
Fully heat treated & polished head

Type	Packing (pcs) / carton	Catalogue number
Hammer 300gr	6/36	**598230**
Hammer 500gr	6/36	**598231**



5PC DIAMOND NEEDLE FILE SET

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Fine diamond grit
Perfect for machinists, gunsmiths, jewelers and hobbyists
Size: 3x140mm, 150 grit
Dipped grip handle

Type	Packing (pcs) / carton	Catalogue number
Needle file	6/24	**598232**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



3-IN-1 STAPLE GUN SET

3+2 standard +extended 5 YEAR TOTAL WARRANTY

1PC staple gun
500PC 8x1.2x11.3mm staples
500PC 12mm staples
500PC 14mm nails
1PC handy storage case

Type	Packing (pcs) / carton	Catalogue number
Staple gun	6	**598246**



MAGNETIC TAPE MEASURE E-240 SERIES

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Tape sizes (m/mm)	Packing (pcs) / carton	Catalogue number
E-240/319 Tape measure	3x19	1/10/200	**598247**
E-240/519 Tape measure	5x19	1/10/200	**598248**
E-240/525 Tape measure	5x25	1/10/100	**598249**



CHROME PLATING TAPE MEASURE

3+2 standard +extended 5 YEAR TOTAL WARRANTY

Type	Tape Length	Packing (pcs) / carton	Catalogue number
Tape measure	5m	4/24	**598241**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



Metal

CUTTING DISC FOR METAL

Ø - Outer disc diameter (mm)
D1 - Inner disc diameter (mm)
D2 - Disc width (mm)

Ø (mm)	D1 (mm)	D2 (mm)	Packing/Box (pcs)	Catalogue number
115	22.2	1.0	10/400	**M516300**
115	22.2	1.6	10/400	**M516301**
125	22.2	1.0	10/400	**M516302**
125	22.2	1.6	1/400	**M516303**
125	22.2	3.2	5/200	**M516211**
180	22.2	3.2	5/100	**M516212**
230	22.2	3.2	5/100	**M516213**



Metal **Inox**

CUTTING DISC METAL A60T INOX

Ø - Outer disc diameter (mm)
D1 - Inner disc diameter (mm)
D2 - Disc width (mm)

Ø (mm)	D1 (mm)	D2 (mm)	Packing/Box (pcs)	Catalogue number
115	22.2	1.0	25/400	**M516304**
125	22.2	1.0	25/400	**M516305**



Metal

GRINDING DISC

Ø - Outer disc diameter (mm)
D1 - Inner disc diameter (mm)
D2 - Disc width (mm)

Ø (mm)	D1 (mm)	D2 (mm)	Packing/Box (pcs)	Catalogue number
115	22.2	6	25/200	**M516219**
125	22.2	6	25/100	**M516220**
180	22.2	6	25/100	**M516307**
230	22.2	6	25/50	**M516308**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



Metal

TWIST KNOT WIRE WHEEL BRUSH FOR ANGLE GRINDERS

Ø - Outer disc diameter (mm)
D1 - Inner disc diameter (mm)

Ø (mm)	D1 (mm)	Packing/Box (pcs)	Catalogue number
100	22.2	1/100	**M516050**
150	22.2	1/40	**M516068**



Stone

CUTTING DISC STONE

Ø - Outer disc diameter (mm)
D1 - Inner disc diameter (mm)
D2 - Disc width (mm)

Ø (mm)	D1 (mm)	D2 (mm)	Packing/Box (pcs)	Catalogue number
115	22.2	3.2	5/400	**M516216**
125	22.2	3.2	25/200	**M516306**
180	22.2	3.2	5/100	**M516217**
230	22.2	3.2	5/100	**M516218**



Concrete **Bricks** **Faience**

DIAMOND CUTTING DISC WET

Ø - Outer disc diameter (mm)
D1 - Inner disc diameter (mm)

Ø (mm)	D1 (mm)	Packing/Box (pcs)	Catalogue number
115	22.2	10/100	**M516309**
125	22.2	10/100	**M516310**

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Concrete **Bricks** **Faience**

DIAMOND CUTTING DISC TURBO

Ø - Outer disc diameter (mm); D1 - Inner disc diameter (mm)

Ø (mm)	D1 (mm)	Packing/Box (pcs)	Catalogue number
115	22.2	10/100	**M516311**
125	22.2	10/100	**M516312**



Metal **Wood** **Stone**

FLAP DISC

Ø - Outer disc diameter (mm); D1 - Inner disc diameter (mm)

Ø (mm)	D1 (mm)	Grit	Packing/Box (pcs)	Catalogue number
125	22.2	A-60	50/100	**M516169**
125	22.2	A-80	50/100	**M516313**
125	22.2	A-120	50/100	**M516171**



Metal

TWIST KNOT WIRE CUP BRUSH FOR ANGLE GRINDERS

Ø - Outer disc diameter (mm)

Ø (mm)	Packing/Box (pcs)	Catalogue number
100	1/60	**M516256**



Metal

DRILL TWIST KNOT WIRE CUP BRUSH WITH SHANK

Ø - Outer disc diameter (mm)

Ø (mm)	Packing/Box (pcs)	Catalogue number
75	30/120	**M516314**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



Wood

HOLE CUTTERS SET

Ø - Outer disc diameter (mm)
7 pcs SET

Ø (mm)	Packing/Box (pcs)	Catalogue number
26-63	10/60	**M516013**



Concrete

CORE CUTTERS FOR DRILL

Ø - Outer disc diameter (mm)

Ø (mm)	Packing/Box (pcs)	Catalogue number
65	5/20	**M516148**
85	4/20	**M516315**

ARBOR & PILOT DRILL SDS PLUS FOR CORE CUTTERS



Length (mm)	Packing/Box (pcs)	Catalogue number
170	4/20	**M516147**



Wood

CROSS HEAD DRILLS SET SDS-PLUS

Ø - Drill bit diameter (mm)
5 pcs SET

Ø (mm)	Packing/Box (pcs)	Catalogue number
4; 5; 6; 8; 10	5/100	**M516370**

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Metal

DRILL BITS FOR METAL

Ø - Drill bit diameter (mm)
L1- Total length (mm)
L1- Working length (mm)

Ø (mm)	L1 (mm)	L2 (mm)	Packing/Box (pcs)	Catalogue number
1.0	34	12	2/150/300	**M516316**
1.5	40	18	2/150/300	**M516317**
2.0	49	24	2/150/300	**M516318**
2.5	57	30	2/150/300	**M516319**
3.0	61	33	2/150/300	**M516320**
3.2	65	36	2/150/300	**M516321**
3.5	70	39	2/150/300	**M516322**
4.0	75	43	2/150/300	**M516323**
4.2	75	43	1/150/300	**M516324**
4.5	80	47	1/150/300	**M516325**
5.0	86	52	1/150/300	**M516326**
6.0	93	57	1/150/300	**M516327**
6.5	101	63	1/90/180	**M516328**
7.0	109	69	1/90/180	**M516329**
8.0	117	75	1/90/180	**M516330**
10.0	133	87	1/60/120	**M516331**
12.0	151	101	1/10/50	**M516332**



Concrete

MASONRY DRILL BITS

Ø - Drill bit diameter (mm)
L1- Total length (mm)
L1- Working length (mm)

Ø (mm)	L1 (mm)	L2 (mm)	Packing/Box (pcs)	Catalogue number
3.0	70	30	150/300	**M516340**
4.0	75	40	150/300	**M516341**
5.0	85	50	150/300	**M516342**
6.0	100	60	150/300	**M516343**
8.0	120	80	90/180	**M516344**
10.0	150	90	60/120	**M516345**

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Concrete

CROSS HEAD DRILLS SDS-PLUS

Ø - Drill bit diameter (mm)
L1- Total length (mm)
L1- Working length (mm)

Ø (mm)	L1 (mm)	L2 (mm)	Packing/Box (pcs)	Catalogue number
6.0	110	30	10/200	**M516350**
6.0	160	40	10/200	**M516351**
6.0	210	50	10/200	**M516352**
6.5	260	200	10/200	**M516353**
8.0	110	50	10/200	**M516354**
8.0	160	100	10/200	**M516355**
8.0	210	150	10/200	**M516356**
8.0	350	300	10/100	**M516357**
10.0	160	100	10/200	**M516358**
10.0	260	200	10/200	**M516359**
10.0	450	400	10/50	**M516360**
12.0	210	150	10/200	**M516361**
12.0	450	400	10/50	**M516362**



SOLDERING GUN

2+0 standard +extended 2 YEAR TOTAL WARRANTY

With LED light

Power (W)	Temperature range	Packing/Box (pcs)	Catalogue number
100	600°C	1/24	**M516375**



SOLDERING IRON

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Cable Length: 1.2m

Power (W)	Heating time	Packing/Box (pcs)	Catalogue number
30	3 min	10/100	**M032053**
60	3 min	10/100	**M032054**

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TIN ABSORBTION PUMP

Packing/Box (pcs)	Catalogue number
1/150	**M516380**



SOLDER WIRE

Solder Alloy	External diameter (mm)	Melting temp.	Weigh	Packing/Box (pcs)	Catalogue number
Sn-60%; PB-40%	1	180°C	200g	20/120	**M516072**



ROSIN

It serves to degrease the soldering parts and the soldering tip of the soldering iron | Facilitates the flow of solder | Increases efficiency of the soldering process

Weight (gr)	Packing/Box (pcs)	Catalogue number
50	1	**M500632**



HOT MELT GLUE GUN

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Power (W)	Temperature range	Silicone pipe diameter	Heating time	Packing/Box (pcs)	Catalogue number
100	18-200°C	11mm	4-5min	6/24	**M516385**



GLUE STICKS SET FOR GLUE GUNS

6 pcs SET

Ø (mm)	Length (mm)	Packing/Box (pcs)	Catalogue number
11	200	12/216	**M516386**

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KNITTED WORK GLOVES PLOVER

Seamless knitted gloves white polyester/cotton elastic cuff, palm and fingers with PVC dots.

Model	Colour	Packing/Box (pcs)	Catalogue number
PLOVER	white/blue	10/100	**M081001**



WORK GLOVES SPARROW

Gaude white polyester, nitrile dipped.

Model	Colour	Packing/Box (pcs)	Catalogue number
SPARROW	white/red	10/100	**M081014**



WORK GLOVES AUK

Seamless knit, nylon/cotton, white colour

Model	Colour	Packing/Box (pcs)	Catalogue number
AUK	white	10/100	**M081015**

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PARTICULATE RESPIRATOR AFFINITY PLUS FFP1 VD



Protects against dust, aqueous and solid aerosols | Suitable for - wood working, glass production, textile production, mining, construction works| Protection level - FFP1

Model	Colour	Packing/Box (pcs)	Catalogue number
FFP1 VD	white	10/100	**M081019**

VERTICALLY FOLDING RESPIRATORY MASK FFP1



Protects against solid non-toxic particles and aqueous aerosols | Suitable for - wood working, glass production, textile production, mining, construction works| Protection level - FFP1

Model	Colour	Packing/Box (pcs)	Catalogue number
2111 FFP1 NR D	white	10/100	**M081086**

GOGGLES POLYCARBONATE VS170



Protective spectacles with polycarbonate visor, adjustable frames, mechanical protection against particles with low energy

Model	Colour	Packing/Box (pcs)	Catalogue number
VS 170 2266-00	white	10/100	**M081010**

GOGGLES POLYCARBONATE VS170



Glasses with polycarbonate visor, against acid splashes and dust, with indirect ventilation

Model	Colour	Packing/Box (pcs)	Catalogue number
2203-00	white	10/100	**M081091**

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PLASTIC ORGANIZER WITH DIVIDERS

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Section	Colour	Length (mm)	Width (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
8	Red	165	140	35	1	**M16654432**
8	Black	303	180	50	1	**M16654434**
12	Red	265	155	40	1	**M16654433**

PLASTIC ORGANIZER WITH DIVIDERS

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Section	Length (mm)	Width (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
3x11	315	140	210	1	**M16654400**

PLASTIC TOOL BOX WITH ORGANIZER

2+0 standard +extended 2 YEAR TOTAL WARRANTY



Model	Length (mm)	Width (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
13"	320	160	130	1	**M16654420**
16"	400	200	175	1	**M16654421**
19"	480	255	230	1	**M16654422**
22"	555	295	265	1	**M16654423**

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BATTERIES



Reference IEC	Type	Serie	Voltage (V)	Diameter (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
LR03	AAA	High energy	1.5	10.5	44.5	1/4	**M070125**
LR03	AAA	Max tech	1.5	10.5	44.5	1/4	**M070261**
LR6	AA	High energy	1.5	14.5	50.5	1/4	**M070117**
LR6	AA	Max tech	1.5	14.5	50.5	1/4	**M070257**

BATTERIES



M070284



M070110



M070057

Reference IEC	Type	Serie	Voltage (V)	Diameter (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
LR1		Professional electronic	1.5	12	30.2	1/1	**M070284**
LR14	C	Long Life	1.5	26.2	50	1/2	**M070087**
LR20	D	Long Life	1.5	34.2	61.5	1/2	**M070113**
3R12	4.5V	Super Life	4.5		67	1/1	**M070057**
LR22	9V	Long Life	9		48.5	1/1	**M070110**

BATTERIES



M070236

Reference IEC	Type	Serie	Voltage (V)	Diameter (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
8LR932	A23 GA	Professional electronic	12	10.3	8.5	1/1	**M070236**
V27A	A27 GA	Professional electronic	12	7.7	28.2	1/1	**M070132**

BATTERIES



Reference IEC	Type	Serie	Voltage (V)	Diameter (mm)	Height (mm)	Packing/Box (pcs)	Catalogue number
DL2016	CR2016	Professional electronic	3	20	1.6	1/1	**M070011**
DL2025	CR2025	Professional electronic	3	20	2.5	1/1	**M070220**
DL2032	CR2032	Professional electronic	3	20	3.2	1/1	**M070221**
LR44	V 13 GA	Professional electronic	1.5	11.6	5.4	1/1	**M070259**

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ALUMINIUM LIGHT BAR

1+0 standard +extended 1 YEAR TOTAL WARRANTY

TECHNICAL DATA:
- LED 3Watt COB
- Material: Aluminium
- Size: 159x32x18mm
- Battery Type: 3xAAA
- Light Mode: On/Off
- Other: With Two Magnets & Velcro Strip

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-4116	Light Bar	Silver	1/100	**100166**



WORK LIGHT WITH ROTARY BASE

1+0 standard +extended 1 YEAR TOTAL WARRANTY

TECHNICAL DATA:
- LED 3Watt COB
- Lumens: 200lm
- Material: Plastic
- Size: 130x68x39mm
- Battery Type: 3xAAA
- Light Mode: On/Off
- Other: With Two Strong Magnet on Swivel Holder | With 360° Rotary Dividual Pocket Clip and 360° Swivel Holder

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-5542	Work Light	Green	1/100	**100169/G**
E-5542	Work Light	Yellow	1/100	**100169/Y**



PIVOT WORK LIGHT WITH MAGNETIC BASE

1+0 standard +extended 1 YEAR TOTAL WARRANTY

TECHNICAL DATA:
- LED 3Watt COB
- Lumens: 240lm
- Material: Rubber Coated
- Size: 87x55x95mm
- Battery Type: 3xAA
- Light Mode: On/Off
- Other: With 360° Rotary Pivot Base | With strong magnet on bottom

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-5503	Pivot Work Light	Black	1/50	**100167**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



ALUMINIUM WORK LIGHT

1+0 standard +extended 1 YEAR TOTAL WARRANTY

TECHNICAL DATA:
- LED 3Watt COB
- Lumens: 200lm
- Material: Aluminium
- Size: 162x25x15mm
- Battery Type: 3xAAA
- Light Mode: On/Off
- Other: With Strong Magnet in Swivel Hook

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-5545	Work Light	Black	1/100	**100168**



ZOOM FLASHLIGHT

1+0 standard +extended 1 YEAR TOTAL WARRANTY

TECHNICAL DATA:
- LED 1Watt
- Material: Rubber Coated
- Size: 115x34mm
- Battery Type: 3xAAA
- Light Mode: On/Off
- Other: Handstrap; Telescopic (ZOOM)

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-6605	Flashlight	Black	1/100	**100172**



ZOOM FLASHLIGHT

1+0 standard +extended 1 YEAR TOTAL WARRANTY

TECHNICAL DATA:
- LED Type: CREE XPE
- Lumens: 200lm
- Material: Aluminium
- Size: 150x33mm
- Battery Type: 3xAAA
- Light Mode: High/Low/Strobe/Off
- Light Distance: Zoom in-250Meters / Zoom Out-100Meters
- Other: Handstrap

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-1171	Flashlight	Black	1/50	**100173**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



HANDY SPOT FLASHLIGHT RECHARGEABLE

1+0 standard +extended 1 YEAR TOTAL WARRANTY

TECHNICAL DATA:
- 7LED
- Material: Plastic
- Size: 150x70x70mm
- Battery Type: Rechargeable battery
- Light Mode: On/Off
- Other: Direct Charge

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-6630	Flashlight	Black & Yellow	1/50	**100174**



MINI KEY LIGHT

1+0 standard +extended 1 YEAR TOTAL WARRANTY

TECHNICAL DATA:
- LED 1.5W COB
- Material: Plastic
- Size: 71x34x21mm
- Battery Type: 2xCR2032)
- Light Mode: High/Low/Flash/Off
- Other: Strong Back Magnet; Colourful Carabiner

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-5903	Flashlight	Blue	1/100	**100176/B**
E-5903	Flashlight	Black	1/100	**100176/BL**



BULB SHAPE PULL LIGHT

1+0 standard +extended 1 YEAR TOTAL WARRANTY

TECHNICAL DATA:
- LED 1W
- Material: Plastic
- Size: 55x55x160mm
- Battery Type: 3xAAA
- Light Mode: On/Off

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-6621	Pull Light	Blue	1/100	**100175/B**
E-6621	Pull Light	Black	1/100	**100175/BL**
E-6621	Pull Light	Pink	1/100	**100175/P**
E-6621	Pull Light	Red	1/100	**100175/R**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

HEADLAMP

1+0 standard +extended 1 YEAR TOTAL WARRANTY



TECHNICAL DATA:
- LED 3W COB
- Lumens: 200lm
- Size: 60x42x34mm
- Battery Type: 3xAAA
- Light Mode: High/Low/Strobe/Off

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-3645	Headlamp	Black	1/100	**100170**

ZOOM HEADLAMP

1+0 standard +extended 1 YEAR TOTAL WARRANTY



TECHNICAL DATA:
- 1xXML T6 + 2xCREE XPE
- Lumens: 1200lm
- Size: 59x43mm
- Battery Type: 4xAA
- Light Mode: 1xT6 On/ 2 Sides XPE On/ All On/ All Strobe/ OFF

Model	Description	Colour	Packing/Box (pcs)	Catalogue number
E-3396	Zoom Headlamp	Black	1/50	**100171**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



TWINFAST THREAD SCREWS FOR DRYWALLS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- For fixings of drywall panels of standard density
- Needle S point: it drills directly metals up to 0.8 mm thick.
- 60° tapping thread.
- Coverings: Phosphated. This covering enables the adherence of the filler putty to the head of the screw.

Material to be fixed	Outer thread diameter (mm)	Length (mm)	Recess	Point	Thread	Packing/ Box (pcs)	Catalogue number
Plasterboard & metal	3.5	25	PH2	needle	twinfast	1000	**M317172**
Plasterboard & metal	3.5	35	PH2	needle	twinfast	1000	**M317173**
Plasterboard & metal	3.5	45	PH2	needle	twinfast	1000	**M317174**

Application: Fixing of plasterboards or isolation panels to metallic profiles of 0.8 mm maximum thickness.



COARSE THREAD SCREWS FOR DRYWALLS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- S needle point: it allows penetrating in soft materials and in metallic materials up to 0.8 mm thickness.
- Covering: phosphated
- Coarse thread: it allows a faster installation.

Material to be fixed	Outer thread diameter (mm)	Length (mm)	Recess	Point	Thread	Packing/ Box (pcs)	Catalogue number
Plasterboard	3.5	25	PH2	needle	coarse	1000	**M317259**
Plasterboard	3.5	35	PH2	needle	coarse	1000	**M317169**
Plasterboard	3.5	45	PH2	needle	coarse	1000	**M317170**

Applications: with double pitch thread, for the proper fixing of plasterboards together or plasterboards to wood.



SELFDRILLING SCREWS FOR DRYWALLS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Selfdrilling point and tapping thread: for use in metallic materials without pilot hole, up to 3 mm thick.
- Covering: phosphated

Material to be fixed	Outer thread diameter (mm)	Length (mm)	Recess	Point	Thread	Packing/ Box (pcs)	Catalogue number
Plasterboard & metal	3.5	25	PH2	selfdrilling	tapping	1000	**M317300**
Plasterboard & metal	3.5	35	PH2	selfdrilling	tapping	1000	**M317301**
Plasterboard & metal	3.5	45	PH2	selfdrilling	tapping	1000	**M317302**

"Application: fixing of plaster boards or isolation panels to metallic profiles of 0.8 - 3.0 mm thickness."



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SELF DRILLING SCREW WITH TRUSS WASHER HEAD

2+0 standard +extended 2 YEAR TOTAL WARRANTY



- Selfdrilling point and tapping thread: for use in metallic materials without pilot hole
- Covering: Zn

Material to be fixed	Outer thread diameter (mm)	Length (mm)	Recess	Point	Packing/Box (pcs)	Catalogue number
Metal	4.2	13	PH2	selfdrilling	1000	**M317134**
Metal	4.2	16	PH2	selfdrilling	1000	**M317135**
Metal	4.2	19	PH2	selfdrilling	1000	**M317231**
Metal	4.2	25	PH2	selfdrilling	1000	**M317303**

Application: for metal

DRYWALL SCREW WITH WAFER HEAD AND TWINFAST THREAD

2+0 standard +extended 2 YEAR TOTAL WARRANTY



- Material: Carbon steel
- Covering: phosphated

Material to be fixed	Outer thread diameter (mm)	Length (mm)	Recess	Point	Thread	Packing/Box (pcs)	Catalogue number
Metal	4.2	13	PH2	needle	twinfast	1000	**M317230**
Metal	4.2	16	PH2	needle	twinfast	1000	**M317241**
Metal	4.2	19	PH2	needle	twinfast	1000	**M317313**
Metal	4.2	25	PH2	needle	twinfast	1000	**M317314**

Application: For laminated and metal profiles

CONCRETE SCREW FOR DIRECT MOUNTING

2+0 standard +extended 2 YEAR TOTAL WARRANTY



- Material: Carbon steel
- Covering: Zn

Outer thread diameter (mm)	Length (mm)	Recess	Packing/Box (pcs)	Catalogue number
7.5	72	TX30	100	**M317136**
7.5	92	TX30	100	**M317137**
7.5	112	TX30	100	**M317206**
7.5	132	TX30	100	**M317139**

Application: Suitable for installation of PVC and wooden frames, door frames to concrete or solid brick

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



CHIPBOARD (WOOD) SCREW

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Fully threaded
- Covering: Zn

Material to be fixed	Outer thread diameter (mm)	Length (mm)	Recess	Point	Packing/Box (pcs)	Catalogue number
Wood & Chipboard	3.5	16	PZ2	needle	1000	**M317001**
Wood & Chipboard	3.5	20	PZ2	needle	1000	**M317003**
Wood & Chipboard	3.5	25	PZ2	needle	1000	**M317004**
Wood & Chipboard	3.5	30	PZ2	needle	1000	**M317005**
Wood & Chipboard	3.5	35	PZ2	needle	1000	**M317006**
Wood & Chipboard	3.5	40	PZ2	needle	1000	**M317007**
Wood & Chipboard	4.0	20	PZ2	needle	1000	**M317012**
Wood & Chipboard	4.0	25	PZ2	needle	1000	**M317013**
Wood & Chipboard	4.0	30	PZ2	needle	1000	**M317015**
Wood & Chipboard	4.0	35	PZ2	needle	500	**M317014**
Wood & Chipboard	4.0	40	PZ2	needle	500	**M317016**
Wood & Chipboard	4.0	50	PZ2	needle	500	**M317209**
Wood & Chipboard	4.0	60	PZ2	needle	500	**M317210**
Wood & Chipboard	4.5	25	PZ2	needle	1000	**M317304**
Wood & Chipboard	4.5	30	PZ2	needle	1000	**M317020**
Wood & Chipboard	4.5	35	PZ2	needle	1000	**M317021**
Wood & Chipboard	4.5	40	PZ2	needle	500	**M317305**
Wood & Chipboard	4.5	50	PZ2	needle	500	**M317022**
Wood & Chipboard	4.5	60	PZ2	needle	500	**M317023**
Wood & Chipboard	5.0	30	PZ2	needle	1000	**M317028**
Wood & Chipboard	5.0	40	PZ2	needle	500	**M317030**
Wood & Chipboard	5.0	50	PZ2	needle	500	**M317032**
Wood & Chipboard	5.0	60	PZ2	needle	250	**M317033**
Wood & Chipboard	5.0	70	PZ2	needle	250	**M317048**
Wood & Chipboard	5.0	80	PZ2	needle	250	**M317034**
Wood & Chipboard	6.0	50	PZ3	needle	250	**M317242**
Wood & Chipboard	6.0	60	PZ3	needle	250	**M317040**
Wood & Chipboard	6.0	70	PZ3	needle	250	**M317041**
Wood & Chipboard	6.0	80	PZ3	needle	250	**M317042**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



SELF DRILLING SCREW WITH HEXAGON HEAD AND EPDM WASHER

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Carbon steel
- Covering: Zn

Material to be fixed	Outer thread diameter (mm)	Length (mm)	Point	Packing/Box (pcs)	Catalogue number
Metal	4.8	19	selfdrilling	1000	**M317306**
Metal	4.8	25	selfdrilling	500	**M317243**
Metal	4.8	32	selfdrilling	500	**M317126**
Metal	5.5	25	selfdrilling	500	**M317127**
Metal	5.5	32	selfdrilling	500	**M317307**
Metal	5.5	38	selfdrilling	500	**M317308**
Metal	5.5	50	selfdrilling	500	**M317309**
Metal	6.3	25	selfdrilling	500	**M317130**
Metal	6.3	32	selfdrilling	500	**M317310**
Metal	6.3	38	selfdrilling	500	**M317131**
Metal	6.3	50	selfdrilling	250	**M317311**
Metal	6.3	60	selfdrilling	250	**M317312**

Application: Sheet metal to steel construction



HEXAGON HEAD SCREWS FULLY THREADED

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Carbon steel
- Covering: Zn

Thread	Length (mm)	Grade	Packing/Box (pcs)	Catalogue number
M6	16	5.6	500	**M317064**
M6	20	5.6	500	**M317065**
M6	25	5.6	500	**M317066**
M6	30	5.6	500	**M317067**
M8	20	5.6	200	**M317073**
M8	25	5.6	200	**M317074**
M8	30	5.6	200	**M317075**
M8	40	5.6	200	**M317076**
M10	30	5.6	200	**M317080**
M10	40	5.6	100	**M317081**
M10	50	5.6	100	**M317082**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



CARRIAGE BOLT

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Carbon steel
- Covering: Zn

Thread	Length (mm)	Grade	Packing/Box (pcs)	Catalogue number
M6	20	5.6	500	**M317315**
M6	30	5.6	500	**M317316**
M6	40	5.6	200	**M317317**
M6	50	5.6	200	**M317318**
M6	60	5.6	200	**M317319**
M6	70	5.6	200	**M317320**
M6	80	5.6	200	**M317321**
M8	30	5.6	200	**M317322**
M8	40	5.6	200	**M317323**
M8	50	5.6	200	**M317324**
M8	60	5.6	200	**M317325**
M8	70	5.6	200	**M317326**
M8	80	5.6	200	**M317327**



HEXAGON NUT

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Carbon steel
- Covering: Zn

Thread	Packing/Box (pcs)	Catalogue number
M6	1000	**M317152**
M8	1000	**M317153**
M10	1000	**M317154**

LOCK NUT

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Carbon steel
- Covering: Zn

Thread	Packing/Box (pcs)	Catalogue number
M6	1000	**M317145**
M8	500	**M317146**
M10	500	**M317147**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

FLAT WASHER

2+0 standard +extended 2 YEAR TOTAL WARRANTY



- Material: Carbon steel
- Covering: Zn

Thread	Diameter 1 (mm)	Diameter 2 (mm)	Packing/Box (pcs)	Catalogue number
M6	6.4	12	1000	**M517076**
M8	8.4	16	1000	**M317216**
M10	10.5	20	1000	**M317217**

LARGE FLAT WASHER

2+0 standard +extended 2 YEAR TOTAL WARRANTY



- Material: Carbon steel
- Covering: Zn

Thread	Diameter 1 (mm)	Diameter 2 (mm)	Packing/Box (pcs)	Catalogue number
M6	6.4	18	2500	**M317236**
M8	8.4	24	500	**M517203**
M10	10.5	30	250	**M317328**

SPRING-LOCK WASHER

2+0 standard +extended 2 YEAR TOTAL WARRANTY

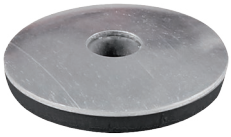


- Material: Carbon steel
- Covering: Zn

Thread	Diameter 1 (mm)	Diameter 2 (mm)	Packing/Box (pcs)	Catalogue number
M6	6.1	11.8	1000	**M317162**
M8	8.1	14.8	1000	**M317163**
M10	10.2	18.1	1000	**M317164**

EPDM WASHER

2+0 standard +extended 2 YEAR TOTAL WARRANTY



- Material: Carbon steel
- Covering: Zn

For screw with diameter (mm)	Diameter 1 (mm)	Diameter 2 (mm)	Packing/Box (pcs)	Catalogue number
4.8	5.3	16	500	**M317329**
4.8	5.3	19	500	**M317330**
5.5	5.8	16	500	**M317331**
5.5	5.8	19	500	**M317332**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



DROP IN ANCHOR

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Galvanized steel
- Covering: Zn

Thread	Length (mm)	Drill diameter (mm)	Packing/Box (pcs)	Catalogue number
M6	25	8	100	**M517233**
M8	30	10	100	**M517234**
M10	40	12	50	**M517235**

Application: For fixing in concrete and hard materials



SLEEVE ANCHOR

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Galvanized steel
- Covering: Zn

Thread	Length (mm)	Drill diameter (mm)	Grade	Packing/Box (pcs)	Catalogue number
M6	45	8	6.8	100	**M517207**
M6	60	8	6.8	100	**M517208**
M8	60	10	6.8	100	**M517209**
M8	80	10	6.8	100	**M517210**
M10	70	12	6.8	50	**M517211**
M10	100	12	6.8	25	**M517212**

Application: For fixing in concrete and solid materials



HEX NUT ANCHOR

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Galvanized steel
- Covering: Zn

Thread	Length (mm)	Drill diameter (mm)	Grade	Packing/Box (pcs)	Catalogue number
M6	45	8	6.8	100	**M517213**
M8	60	10	6.8	100	**M517214**
M8	80	10	6.8	50	**M517215**
M10	70	12	6.8	50	**M517216**
M10	100	12	6.8	25	**M517217**

Application: For fixing in concrete and solid materials

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



THROUGH BOLT ANCHOR

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Carbon steel
- Covering: Zn

Thread	Length (mm)	Drill diameter (mm)	Grade	Packing/Box (pcs)	Catalogue number
M8	75	10	6.8	100	**M517224**
M8	90	10	6.8	100	**M517225**
M8	115	10	6.8	50	**M517226**
M10	90	12	6.8	50	**M517227**
M10	120	12	6.8	25	**M517228**
M10	150	12	6.8	25	**M517229**
M12	90	14	6.8	25	**M517230**
M12	110	14	6.8	25	**M517231**
M12	140	14	6.8	25	**M517232**

Application: Non-cracked concrete and hard materials. Attaching structural steel, facade, hand rails, racks, elevators, etc.



EYE ANCHOR BOLT

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Galvanized steel
- Covering: Zn

Thread	Length (mm)	Drill diameter (mm)	Grade	Packing/Box (pcs)	Catalogue number
M6	45	8	6.8	100	**M517218**
M8	60	10	6.8	50	**M517219**
M10	70	12	6.8	25	**M517220**

Application: For fixing in concrete and solid materials





HOOK ANCHOR BOLT

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Galvanized steel
- Covering: Zn

Thread	Length (mm)	Drill diameter (mm)	Grade	Packing/Box (pcs)	Catalogue number
M6	45	8	6.8	100	**M517221**
M8	60	10	6.8	50	**M517222**
M10	70	12	6.8	25	**M517223**

Application: For fixing in concrete and solid materials



In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



UNIVERSAL NYLON WALL PLUGS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Nylon PA6
- Halogen free

Diameter (mm)	Length (mm)	Packing/Box (pcs)	Catalogue number
6	30	200	**M517065**
6	50	100	**M517298**
8	40	200	**M517066**
8	60	100	**M517067**
10	50	100	**M517064**
10	70	50	**M517062**

Application: Suitable for general light duty fittings



PLASTERBOARD PLUGS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: polyethylene

Drill diameter (mm)	Wall thickness (mm)	Screw size (mm)	Packing/Box (pcs)	Catalogue number
10	10	4.3x40	25	**M517273**
10	17	4.3x50	25	**M517274**



WALL PLUG FOR PLASTERBOARD

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	Bore diameter (mm)	a (mm)	b (mm)	Packing (pcs)	Catalogue number
wall plug for plasterboard	grey	6-7	30	19	25	**500443**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



FRAME FIXINGS PLUGS WITH SCREWS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: PLUG-Nylon PA6; SCREW- Zink-plated steel
- Halogen free

Plug diameter (mm)	Length (mm)	Packing/Box (pcs)	Catalogue number
8	80	100	**M317340**
8	100	100	**M317341**
8	120	50	**M317342**
10	80	50	**M317343**
10	100	50	**M317344**
10	120	50	**M317345**
10	140	50	**M317346**

Application: Suitable for heavy ribbing ensures a tight hold in aerated blocks



NYLON HAMMERFIX

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: PLUG-Nylon PA6; SCREW- Zink-plated steel
- Halogen free

Plug diameter (mm)	Length (mm)	Packing/Box (pcs)	Catalogue number
6	40	200	**M517180**
6	50	200	**M517281**
6	60	200	**M517282**
6	80	200	**M517283**
8	60	100	**M517074**
8	80	100	**M517284**
8	100	100	**M517285**
8	120	100	**M517286**

Application: Suitable for fixing skirting, stud battens to wall and long runs of shelf support

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



RIGHT ANGLE SCREW SET

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: PLUG-Nylon PA6; SCREW- Zink-plated steel
- SET: 2 pcs

Plug size (mm)	Screw size (mm)	Packing/Box (pcs)	Catalogue number
12x60	10x75	1	**M517156**

Application: Suitable for heavy ribbing ensures a tight hold in aerated blocks



HOOK SCREW WITH PLUG

2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: PLUG-Nylon PA6; SCREW- Zink-plated steel

Plug size (mm)	Screw size (mm)	Packing/Box (pcs)	Catalogue number
6x30	4x35	100	**M517289**
8x40	5x42	100	**M517318**



THREADED HANGING ROD

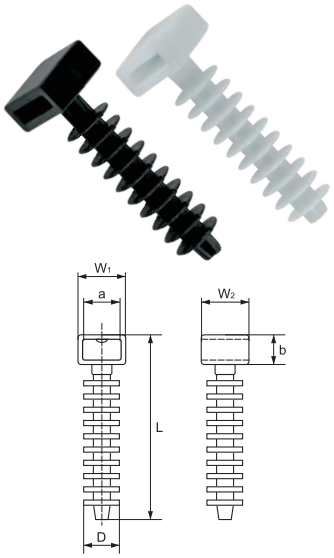
2+0 standard +extended 2 YEAR TOTAL WARRANTY

- Material: Carbon steel
- Covering: Zn

Thread	Length (mm)	Grade	Packing/Box (pcs)	Catalogue number
M6	1000	4.8	100	**M517079**
M8	1000	4.8	50	**M517080**
M8	2000	4.8	50	**56082**
M10	1000	4.8	40	**M517078**
M10	2000	4.8	40	**56102**

Application: Suitable for fixing skirting, stud battens to wall and long runs of shelf support

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

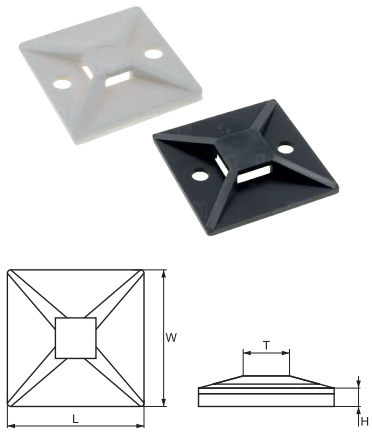


CABLE TIE HOLDER

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	colour	Bore diameter (mm)	a (mm)	b (mm)	D (mm)	W1 (mm)	W2 (mm)	L (mm)	Packing (pcs)	Catalogue number
MT-6*	black	ϕ6	9,7	6,2	7,2	12,7	11,9	37	100	**500044**
MT-6*	white	ϕ6	9,7	6,2	7,2	12,7	11,9	37	100	**500045**
MT-8	black	ϕ8	9,7	6,3	9,9	12,7	12,6	43	100	**500046**
MT-8	white	ϕ8	9,7	6,3	9,9	12,7	12,6	43	100	**500047**

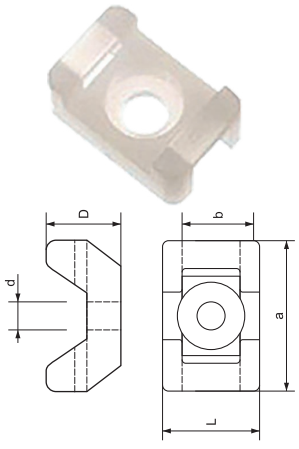
Note: * Until Supply Last



CABLE TIE MOUNTS-ADHESIVE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	colour	Dimmensions (mm)				Packing (pcs.)	Catalogue number
		L	W	H	T		
MT-25	white	25	25	7,5	6,2	100	**500041**
MT-25	black	25	25	7,5	6,2	100	**500042**
MT-30	white	30	30	8,7	6,4	100	**500043**
MT-30	black	30	30	8,7	6,4	100	**500039**



CABLE TIE BASES FIXED WITH SCREWS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	a (mm)	b (mm)	L (mm)	d (mm)	D (mm)	Packing (pcs)	Catalogue number
CTH-2C	white	22	16,5	9	5,8	9,5	100	**500048**
CTH-2C	black	22	16,5	9	5,8	9,5	100	**500038**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days, and for CTH-2C will be 90 days.



CABLE TIES - WHITE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Length (mm)	Colour	Width (mm)	Packing (pcs)	Packing / Box (pcs)	Catalogue number
Cable ties	100	white	2.5	100	10 / 800	**500100**
Cable ties	150	white	2.5	100	10 / 500	**500152**
Cable ties	160	white	2.5	100	10 / 500	**500162**
Cable ties	200	white	2.5	100	10 / 400	**500202**
Cable ties	250	white	3.5	100	10 / 250	**500253**
Cable ties	280	white	3.5	100	10 / 200	**500283**
Cable ties	300	white	3.5	100	10 / 200	**500303**
Cable ties	300	white	4.8	100	10 / 120	**500304**
Cable ties	370	white	3.5	100	10 / 120	**500373**
Cable ties	380	white	4.8	100	10 / 100	**500384**
Cable ties	450	white	4.8	100	10 / 70	**500454**
Cable ties	500	white	7.9	100	5 / 40	**500507**



CABLE TIES - BLACK

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Length (mm)	Colour	Width (mm)	Packing (pcs)	Packing / Box (pcs)	Catalogue number
Cable ties	150	black	2.5	100	10 / 500	**500151**
Cable ties	160	black	2.5	100	10 / 500	**500161**
Cable ties	250	black	3.5	100	10 / 250	**500251**
Cable ties	280	black	3.5	100	10 / 200	**500281**
Cable ties	300	black	3.5	100	10 / 200	**500301**
Cable ties	500	black	7.9	100	40	**500501**



CABLE HOLDER WITH TIE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	a (mm)	b (mm)	c (mm)	d (mm)	Packing (pcs)	Catalogue number
cable holder with tie	black	27	14	140	0,5	20	**500444**



WALL PLUG WITH CABLE TIE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	Bore diameter (mm)	Tie Length (mm)	Packing (pcs)	Catalogue number
wall plug with cable tie	black	Ø6	95	50	**500427**
wall plug with cable tie	black	Ø8	95	50	**500425**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days, and for Cable Ties will be 90 days.



WIRE GRIP BAND FOR FLAT CABLE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	Bore diameter (mm)	width of the head	Packing (pcs)	Catalogue number
wire grip band for flat cable 1	white	6-7	18	50	**500432**
wire grip band for flat cable 2	white	6-7	12	50	**500434**
wire grip band for flat cable 3	white	6-7	10	50	**500436**

Wire grip band 1 is Suitable for flat cables with section- 2x1.0; 2x1.5mm^2
Wire grip band 2 is Suitable for flat cables with section- 2x2.5; 3x1.0
Wire grip band 3 is Suitable for flat cables with section- 2x4; 2x6; 3x1.5; 3x2.5mm^2



WIRE GRIP BAND FOR ROUND CABLE

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Type	Color	Bore diameter (mm)	width of the head	Packing (pcs)	Catalogue number
wire grip band for round cable 4	white	6-7	6	50	**500438**
wire grip band for round cable 5	white	6-7	8	50	**500440**

Wire grip band 4 is Suitable for round cables with section- 2x1.0; 2x1.5; 3x1.0; 3x2.5mm^2; RG6
Wire grip band 5 is Suitable for round cables with section- 2x0.5; 2x0.75; UTP; FTP



CABLE FIXING CLIPS

2+0 standard +extended 2 YEAR TOTAL WARRANTY

Support insulators are used in control and distribution cabinets mounting when bars isolation is required.
Provides reliable insulation of live parts.

TECHNICAL SPECIFICATION:
- Rated voltage: 1000V
- Insulating voltage: 5000 V
- Ambient temperature : -40 to +65°C

Type	Diameter Ø (mm)	Packing (pcs)	Packing / Box (pcs)	Catalogue number
CHR-4	4	100	500	**500004**
CHR-5	5	100	500	**500005**
CHR-6	6	100	300	**500006**
CHR-7	7	100	300	**500007**
CHR-8	8	100	250	**500008**
CHR-9	9	100	200	**500009**
CHR-10	10	100	200	**500010**
CHR-12	12	100	100	**500012**
CHR-14	14	100	50	**500014**
CHR-16	16	100	50	**500016**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days, and for cable fixing clips will be 90 days.



ELMARK AF SERIES EASY MOUNTING

3+0 standard +extended 3 YEAR TOTAL WARRANTY

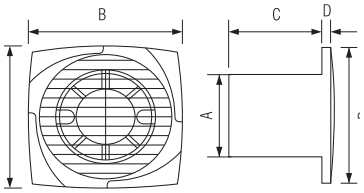
Axial fans, for exhaust ventilation

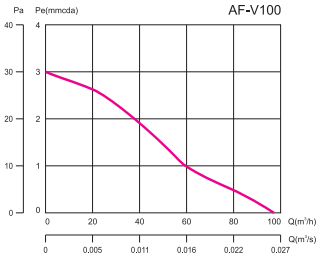
AREAS OF APPLICATION
Kitchens, Showers, Bathrooms, Utility spaces

OPTIONS:
- V-Valve: Back flow preventing. Fan is equipped with a valve
- VT- Timer + Valve: Adjustable operating time from 3 to 15 minutes. Fan is equipped with a valve.
- VH- Higro-Timer + Valve: Humidistat detects humidity starting from 40% to 90%, includes adjustable
- timer from 3 minutes to 15 minutes. Fan is equipped with a valve.
- Compatible with 100 and 120 mm PVC or flexible air ducts

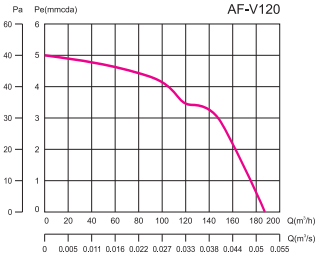
MOTOR:
- Equipped with thermal cut out protection
- Low power consumption
- High materials quality and high efficiency
- Ambient temperature max 130°C
- IP-X4
- Insulation class B

DESIGN:
- Easy mounting system
- Very slim front panel
- Plastic housing and impeller
- Modern design and aesthetic look



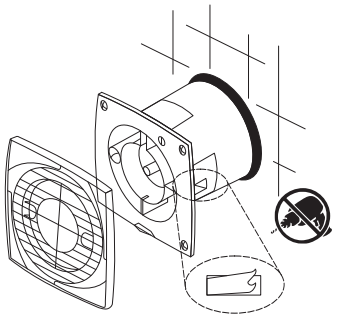






Overal dimensions (mm)

Model	ØA	B	C	D
AF-V100	98	140	98	10
AF-V120	118	170	100	13

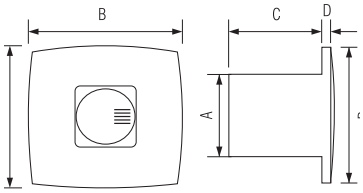


Model	Diameter (mm)	Voltage (V)	Power (W)	r.p.m.	Maximum air capacity (m^3/h)	Sound pressure level db(A)	Packing/ Box (pcs)	Catalogue number
AF-V100 with valve	100	220-240	15	2500	98	41	12	**500120**
AF-VT100 with valve+timer	100	220-240	15	2500	98	41	12	**500122**
AF-VH100 with valve+hygro-timer	100	220-240	15	2500	98	41	12	**500124**
AF-V120 with valve	120	220-240	20	2450	190	43	12	**500121**
AF-VT120 with valve+timer	120	220-240	20	2450	190	43	12	**500123**
AF-VH120 with valve+hygro-timer	120	220-240	20	2450	190	43	12	**500125**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



SILENT SERIES



ELMARK ALS SILENT SERIES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

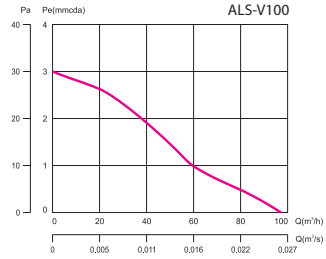
Axial fans, for exhaust ventilation

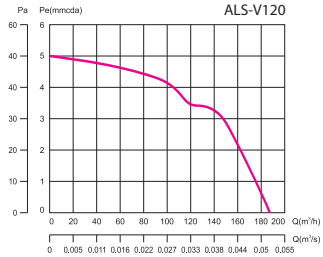
AREAS OF APPLICATION
Kitchens, Showers, Bathrooms, Utility spaces

OPTIONS:
- V-Valve: Back flow preventing. Fan is equipped with a valve
- Compatible with 100 and 120 mm PVC or flexible air ducts

MOTOR:
- Equipped with thermal cut out protection
- Low power consumption
- High materials quality and high efficiency
- IP-X4
- Insulation class B

DESIGN:
- Easy mounting system
- Very slim front panel
- Plastic housing and impeller
- Modern design and aesthetic look

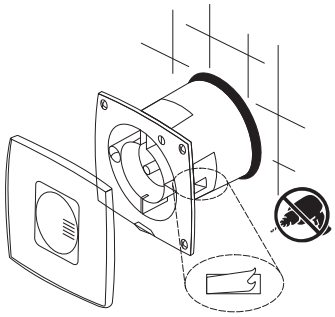






Overal dimensions (mm)

Model	ØA	B	C	D
ALS-V100	98	140	98	10
ALS-V120	118	170	100	13



Model	Diameter (mm)	Voltage (V)	Power (W)	r.p.m.	Maximum air capacity (m^3/h)	Sound pressure level db(A)	Packing/ Box (pcs)	Catalogue number
ALS-V100 with valve WHITE	100	220-240	15	2500	98	37	12	**500140**
ALS-V100 with valve SILVER	100	220-240	15	2500	98	37	12	**500141**
ALS-V120 with valve WHITE	120	220-240	20	2450	190	39	12	**500142**
ALS-V120 with valve SILVER	120	220-240	20	2450	190	39	12	**500143**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



ELMARK AS SERIES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

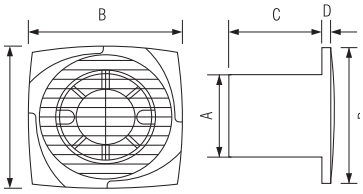
Axial fans, for exhaust ventilation

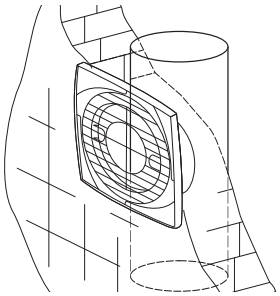
AREAS OF APPLICATION:
Kitchens, Showers, Bathrooms, Utility spaces

OPTIONS:
- V-Valve: Back flow preventing. Fan is equipped with a valve
- Compatible with 100 mm PVC or flexible air ducts

MOTOR:
- Equipped with thermal cut out protection
- Low power consumption
- High materials quality and high efficiency
- IP-X4
- Insulation class B

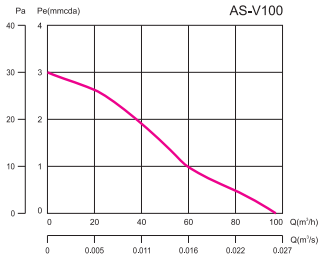
DESIGN:
- Very slim front panel
- Plastic housing and impeller
- Modern design and aesthetic look





Overal dimensions (mm)

Model	ØA	B	C	D
AS-V100	98	140	75	10



Model	Diameter (mm)	Voltage (V)	Power (W)	r.p.m.	Maximum air capacity (m³/h)	Sound pressure level db(A)	Packing	Catalogue number
AS-V100 with valve	100	220-240	15	2500	98	41	12	**500119**

ELMARK APB10

3+0 standard +extended 3 YEAR TOTAL WARRANTY



AREAS OF APPLICATION
Kitchens, Showers, Bathrooms, Utility spaces

OPTIONS:
- Back flow preventing- fan is equipped with a valve
- Equipped with PVC ring for stable fixing of the fan towards the mounted surface - hollow walls, suspended ceilings, furniture flat surfaces, glassings and etc.
- Fan comes with a power cable supply
- Compatible with 110 mm PVC or flexible air ducts

MOTOR:
- Low power consumption
- High materials quality and high efficiency
- IP-X4
- Insulation class B

DESIGN:
- Plastic housing and impeller
- Modern design and aesthetic look

Model	Diameter (mm)	Voltage (V)	Power (W)	r.p.m.	Maximum air capacity (m³/h)	Sound pressure level db(A)	Packing/ Box (pcs)	Catalogue number
APB10- 110V with valve	110	220-240	15	2500	100	41	30	**500020**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.



ELMARK AN SERIES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

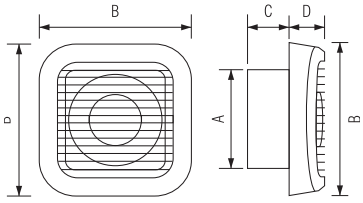
Axial fans, for exhaust ventilation.

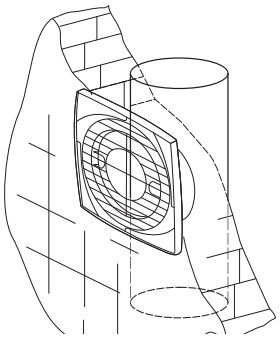
AREAS OF APPLICATION
Kitchens, Showers, Bathrooms, Utility spaces

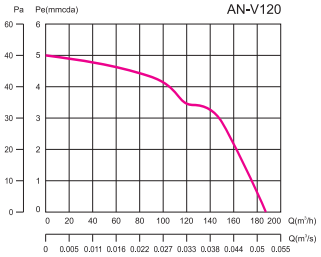
OPTIONS:
- Back flow preventing- fan is equipped with a valve
- Compatible with 100 and 120 mm PVC or flexible air ducts

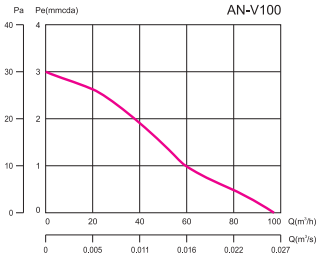
- **MOTOR:**
- Equipped with thermal cut out protection
- Low power consumption
- High materials quality and high efficiency
- IP-X4
- Insulation class B

DESIGN:
- Short back tube
- Plastic housing and impeller
- Modern design and aesthetic look









Overal dimensions (mm)

Model	ØA	B	C	D
AN-V100	98	153	45	37
AN-V120	118	180	50	37

Model	Diameter (mm)	Voltage (V)	Power (W)	r.p.m.	Maximum air capacity (m3/h)	Sound pressure level db(A)	Packing/ Box (pcs)	Catalogue number
AN-V100 with valve	100	220-240	15	2500	98	41	9	**500115**
AN-V120 with valve	120	220-240	20	2450	190	43	12	**500116**

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ELMARK AC SERIES

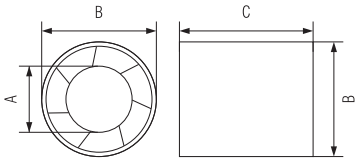
3+0 standard +extended 3 YEAR TOTAL WARRANTY

Axial inline fans, for exhaust and supply ventilation.

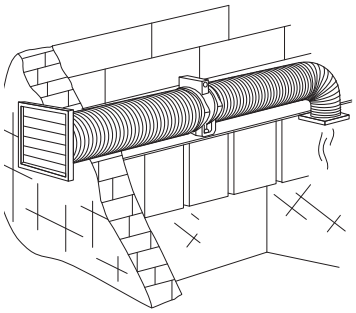
AREAS OF APPLICATION:
Kitchens, Showers, Bathrooms, Utility spaces, Supply ventilation

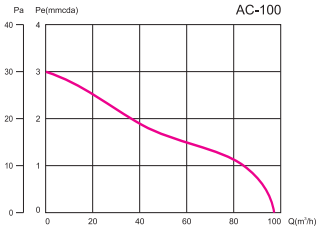
OPTIONS:
- Compatible with 100 and 120 mm PVC or flexible air ducts
- Possibility to mounting in in the ventilation systems

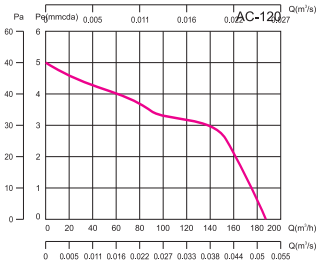
DESIGN:
- Plastic housing and impeller
- Modern design and aesthetic look
- Designed for ventilation where you want to stop spreading humidity and unpleasure smells.



MOTOR:
- Equipped with thermal cut out protection
- Low power consumption
- High materials quality and high efficiency
- Do not use in rooms where the temperature is above 40°C
- IP-X4
- Insulation class B







Overal dimensions (mm)

Model	ØA	ØB	C
AC-100	60	97	92
AC-120	65	118	96

Model	Diameter (mm)	Voltage (V)	Power (W)	r.p.m.	Maximum air capacity (m³/h)	Sound pressure level db(A)	Packing/ Box (pcs)	Catalogue number
AC-100	100	220-240	15	2500	98	41	12	**500117**
AC-120	120	220-240	20	2450	190	43	12	**500118**

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INDUSTRIAL FANS

3+0 standard +extended 3 YEAR TOTAL WARRANTY

For a continuous or periodical ventilation of medium large agricultural, industrial buildings, park lots, warehouses and other places where it is needed great volumes of air to be moved as well as other non-explosive gases, not containing glue substances

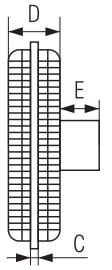
ELMARK PAS SERIES

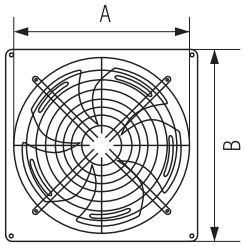
3+0 standard +extended 3 YEAR TOTAL WARRANTY



Industrial fans, for exhaust ventilation

MOUNTING:
on a window, wall, roof, suspending ceiling, inside walls.





Overal dimensions (mm)

Model	ØA	B	C	D	E
PAS- 200	220	257	3	70	53
PAS- 250	270	313	8	70	60
PAS- 300	320	350	10	86	80

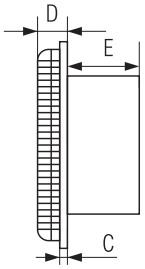
Model	Diameter (mm)	Voltage (V)	Rated input (W)	Output (W)	r.p.m.	Maximum air capacity (m^3/h)	Sound pressure level db(A)	Packing/ Box (pcs)	Catalogue number
PAS- 200	200	220-240	55	10	1300	410	51	1	**500126**
PAS- 250	250	220-240	70	16	1300	800	53	1	**500127**
PAS- 300	300	220-240	120	34	1300	1400	58	1	**500128**

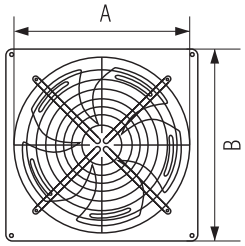
ELMARK IAS SERIES

3+0 standard +extended 3 YEAR TOTAL WARRANTY



Industrial wall fans, for exhaust ventilation
MOUNTING:
on the, wall.





Overal dimensions (mm)

Model	ØA	B	C	D	E
IAS- 200	220	264	11	18	127
IAS- 250	270	314	11	18	147
IAS- 300	320	364	11	18	155

Model	Diameter (mm)	Voltage (V)	Rated input (W)	Output (W)	r.p.m.	Maximum air capacity (m^3/h)	Sound pressure level db(A)	Packing/ Box (pcs)	Catalogue number
IAS- 200	200	220-240	55	10	1300	410	53	1	**500129**
IAS- 250	250	220-240	70	16	1300	800	56	1	**500130**
IAS- 300	300	220-240	120	34	1300	1400	60	1	**500131**

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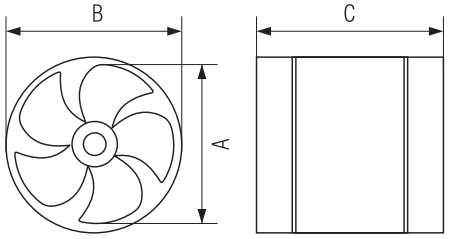


ELMARK TAS SERIES

3+0 standard +extended 3 YEAR TOTAL WARRANTY

Industrial inline fans, for exhaust ventilation

MOUNTING:
on a walls, ceilings, suspending ceilings.
Possibility to mounting in in the ventilation systems



Overal dimensions (mm)

Model	ØA	B	C	D	E
TAS- 200	220	264	11	18	127
TAS- 250	270	314	11	18	147
TAS- 300	320	364	11	18	155

Model	Diameter (mm)	Voltage (V)	Rated input (W)	Output (W)	r.p.m.	Maximum air capacity (m^3/h)	Sound pressure level db(A)	Packing/ Box (pcs)	Catalogue number
TAS- 200	200	220-240	55	10	1300	410	55	1	**500132**
TAS- 250	250	220-240	70	16	1300	800	57	1	**500133**
TAS- 300	300	220-240	120	34	1300	1400	62	1	**500134**



ALUMINIUM EXHAUST GRILLS

Material	Colour	Dimensions (mm)	Packing/Box (pcs)	Catalogue number
Aluminium	grey	200/200	8	**500136**
Aluminium	grey	250/250	4	**500137**
Aluminium	grey	300/300	4	**500138**
Aluminium	grey	350/350	5	**500139**

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AIR CONDUIT ALUMINUM



Material: Aluminium 99,5%. For ventilaton and clima systems

Diameter (mm)	Full length (m)	Thickness (mm)	Packing/Box (pcs)	Catalogue number
100	1,5m	0,1	66	**500201**
100	3m	0,1	42	**500101**
120	1,5m	0,1	45	**500203**
120	3m	0,1	30	**500103**

AIR CONDUIT TEXOFLEX



The tube is completed from multilayer aluminum, laminated with polyester, and forced with reinforcement additionally. The material is light and flexible, which helps for its easy use in round or oval connections in the aspiration and ventilation systems. Toxic gases are not being insulated in case of a fire. The product is certified in B1 category - fireproof material.



Diameter (mm)	Full length (m)	Thickness (mm)	Packing/Box (pcs)	Catalogue number
100	1,5m	0,1	12	**500204**
120	1,5m	0,1	12	**500205**
100	3m	0,1	12	**500104**
120	3m	0,1	12	**500105**

AIR CONDUIT PLASTIC



Connection diameter (mm)	Length (m)	Material	Packing/Box (pcs)	Catalogue number
100	1	Plastic	1	**M522023**

AIR CONDUIT PLASTIC



Width (mm)	Height (mm)	Length (m)	Material	Packing/Box (pcs)	Catalogue number
110	55	1	Plastic	1	**M522039**

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FLAT DUCT BRACKET



Width (mm)	Height (mm)	Material	Packing/Box (pcs)	Catalogue number
110	55	Plastic	1	**M522032**

FLAT DUCT CONNECTOR



Width (mm)	Height (mm)	Material	Packing/Box (pcs)	Catalogue number
110	55	Plastic	1	**M522029**

FLAT DUCT CONNECTOR WITH DAMPER



Width (mm)	Height (mm)	Material	Packing/Box (pcs)	Catalogue number
110	55	Plastic	1	**M522030**

PVC WALL CONNECTOR

Section of PVC duct	Material	Packing/Box (pcs)	Catalogue number
110x55	Plastic	1	**M522033**

HORIZONTAL 90° BEND FOR FLAT DUCTS



Width (mm)	Height (mm)	Material	Packing/Box (pcs)	Catalogue number
110	55	Plastic	1	**M522015**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.

VERTICAL 90° BEND FOR FLAT DUCTS



Width (mm)	Height (mm)	Material	Packing/Box (pcs)	Catalogue number
110	55	Plastic	1	**M522016**

T-JOINT FOR FLAT DUCTS



Width (mm)	Height (mm)	Material	Packing/Box (pcs)	Catalogue number
110	55	Plastic	1	**M522020**

T-JOINT FOR FLAT & ROUND DUCTS



Width (mm)	Height (mm)	Connection diameter of round duct (mm)	Material	Packing/Box (pcs)	Catalogue number
110	55	100	Plastic	1	**M522017**

END GRILLE FOR FLAT DUCS



Width (mm)	Height (mm)	Material	Packing/Box (pcs)	Catalogue number
110	60	Plastic	1	**M522019**

90° CONNECTING BEND FOR FLAT & ROUND DUCTS



Width (mm)	Height (mm)	Connection diameter (mm)	Material	Packing/Box (pcs)	Catalogue number
110	55	100	Plastic	1	**M522018**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



ROUND TO FLAT CONNECTOR

Width (mm)	Height (mm)	Connection diameter (mm)	Material	Packing/Box (pcs)	Catalogue number
110	55	100	Plastic	1	**M522014**



CONNECTOR WITH BACKDRAFT DAMPER AND WALL PLATE FOR ROUND DUCTS

Length (mm)	Width (mm)	Height (mm)	Connection diameter (mm)	Material	Packing/Box (pcs)	Catalogue number
150	62	134	100	Plastic	1	**M522115**



90° CONNECTING BEND FOR ROUND DUCTS

Connection diameter (mm)	Material	Packing/Box (pcs)	Catalogue number
100	Plastic	1	**M522013**



T-JOINT FOR ROUND DUCTS

Connection diameter (mm)	Material	Packing/Box (pcs)	Catalogue number
100	Plastic	1	**M522012**



CONNECTOR WITH BACKDRAFT DAMPER FOR ROUND DUCTS

Connection diameter (mm)	Material	Packing/Box (pcs)	Catalogue number
100	Plastic	1	**M522010**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



UNIVERSAL REDUCTOR PVC Ø100- Ø150

Packing/Box (pcs)	Catalogue number
12	**500109**



FRONT MASK WITH SHUTTER ADJUSTABLE

Diameter (mm)	Packing/Box (pcs)	Catalogue number
100 / 120	20	**500108**



VENTILATION GRILL PVC

For fan with Diameter (mm)	Packing/Box (pcs)	Catalogue number
100	30	**500111**
125	30	**500112**



RING

For fan with Diameter (mm)	Packing/Box (pcs)	Catalogue number
100	100	**500106**
120	100	**500107**



VENTILATION ANEMOSTAT PVC

For fan with Diameter (mm)	Packing/Box (pcs)	Catalogue number
100	10	**500113**
125	10	**500114**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 45 days.

AIR CONDUIT METAL CLAMPS



Connection diameter (mm)	Material	Packing/Box (pcs)	Catalogue number
90-110	Metal	1	**M522036**
110-130	Metal	1	**M522089**

METAL FAN GRILLS



Connection diameter (mm)	Width (mm)	Material	Packing/Box (pcs)	Catalogue number
125	125	Metal	1	**M522049T**
150	150	Metal	1	**M522050T**
200	200	Metal	1	**M522139**

FAN GRILLS WITH BACKDRAFT DAMPER



Length (mm)	Width (mm)	Material	Connection diameter (mm)	Packing/Box (pcs)	Catalogue number
154	154	ABS	100	1	**M522034**
186	186	Metal	125	1	**M522078**

REVISION OPENING PVC



Length (mm)	Height (mm)	Material	Packing/Box (pcs)	Catalogue number
150	150	Plastic	1	**M522001T**
150	200	Plastic	1	**M522002T**
200	200	Plastic	1	**M522003T**
200	250	Plastic	1	**M522004T**
200	300	Plastic	1	**M522005T**
200	400	Plastic	1	**M522006T**
250	300	Plastic	1	**M522007T**
300	300	Plastic	1	**M522008T**
300	400	Plastic	1	**M522009T**

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



5020



5016



5019

WIRELESS DOORBELLS WITH LED FLASH LIGHT

Catalogue number	QTY Transmiter/Reciever	Voltage (V)	Sound level db(A)	Volume levels	Music	Distance (m)	Packing/Box (pcs)
5020	One/One	220	65-85	Low/Middle/High	36 melodies	80	1/60
5016	One/One	220	65-85	Low/Middle/High	36 melodies	80	1/60
5019	One/One	220	65-85	Low/Middle/High	36 melodies	80	1/60

Transmitter battery: 12V A23

RoHS COMPLIANT CE 2+0 standard +extended 2 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



5015



5018

WIRELESS DOORBELLS WITH LED FLASH LIGHT

Catalogue number	QTY Transmiter/Reciever	Voltage (V)	Sound level db(A)	Volume levels	Music	Distance (m)	Packing/Box (pcs)
5015	One/Two	220	65-85	Low/Middle/High	36 melodies	80	1/60
5018	One/Two	220	65-85	Low/Middle/High	36 melodies	80	1/60

Transmitter battery: 12V A23

RoHS COMPLIANT CE 2+0 standard +extended 2 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



5023/1
5024



5023/2

WIRELESS DOORBELLS WITH LED FLASH LIGHT

Catalogue number	QTY Transmiter/ Reciever	Transmiter Voltage (V)	Receiver Voltage (V)	Sound level db(A)	Volume levels	Music	Distance (m)	Packing/Box (pcs)
5023/1	One/One	12V 23A Battery	DC 3x1.5V AAA Battery	70-85	Low/Middle/High	36 melodies	80	1/60
5023/2	One/Two	12V 23A Battery	DC 3x1.5V AAA Battery	70-85	Low/Middle/High	36 melodies	80	1/60
5024	One/One	12V 23A Battery	220V AC	70-85	Low/Middle/High	36 melodies	80	1/60

RoHS COMPLIANT CE 2+0 standard +extended 2 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



5025BL



5025WH

DIGITAL WIRELESS DOORBELLS WITH LED FLASH LIGHT

Catalogue number	QTY Transmiter/ Reciever	Transmiter Voltage (V)	Receiver Voltage (V)	Sound level db(A)	Volume levels	Music	Distance (m)	Packing/Box (pcs)
5025BL	One/One	12V 23A Battery	DC 2x1.5V AA Battery	70-85	Low/Middle/High	32 melodies	120	1/60
5025WH	One/One	12V 23A Battery	DC 2x1.5V AA Battery	70-85	Low/Middle/High	32 melodies	120	1/60

RoHS COMPLIANT CE 2+0 standard +extended 2 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



5021



5022

INFRARED INDUCTION DOORBELLS

Catalogue number	Description	Voltage (V)	Sound level db(A)	Detection angle	Sensor detection distance (m)	Music	Packing/Box (pcs)
5021	Doorbell with sensor	4,5V DC	85	100°	up to 7	36 melodies	1/60
5022	Doorbell & sensor	4,5V DC	85	100°	up to 7	36 melodies	1/60

5021 - This is an electric appliance with inserted motion sensor.It is used for advisement for guests,visitors or customers.When there is a motion ,it starts / there is a sound which advises that there is a visitor/customer/ in the premisses.Working area - up to 7 meters

5022 - This is a complex product that combines two appliances.It is used for advisor for guests,visitors or customers.The sensor is installed to the place that we would like to know there is a motion/ visitor,this usually is the shop entrance,offices,warehouses and etc.The bell can be installed at a distance up to 130 m from the sensor which we will receive the signal for motion /visitor.

Working frequency: 315MHz/433.92 MHz

RoHS COMPLIANT CE 2+0 standard +extended 2 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



5012
5220



5001

BELL / BELL TRANSFORMER

Catalogue number	Type	In (V)	Un (V)	Conssumption (VA)	Sound level db(A)	Packing/Box (pcs)
5012	Bell	230	8-12	3.6	70	1 /12 / 240
5220	Bell	230	230	5	70	1 /12 / 240
5001	Bell transformer	230	8/12/24	8	-	1 / 80

Mounting: on DIN-rail |

5+0 standard +extended 5 YEAR TOTAL WARRANTY

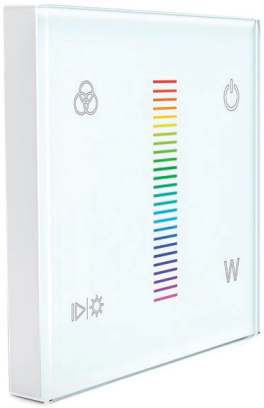
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



SMART HOME CONTROL



ONE CHANNEL
LED PANEL REMOTE
99TOUCHUSB1



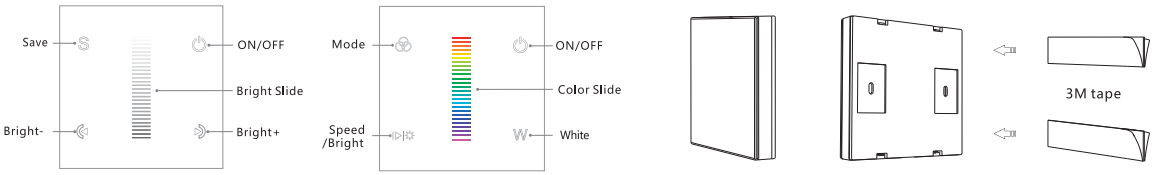
FOUR CHANNEL
LED PANEL REMOTE
99TOUCHUSB4

IP20

UNTIL SUPPLY LAST

ONE / FOUR CHANNEL RECHARGEABLE LED PANEL REMOTE

Catalogue number	Output signal	Li-battery capacity	Working current	Standby current	Packing/Box (pcs)
99TOUCHUSB1	RF(2.4G)	200mAh	<20mA	< 30μA	1/200
99TOUCHUSB4	RF(2.4G)	200mAh	<20mA	< 30μA	1/200



ONE CHANNEL RECHARGEABLE LED PANEL REMOTE
To control single color LED lamp | Removeable and stick anywhere easily | Built-in rechargeable Li-Battery | With on/off state and touch operation indication | Wireless control 30m | Can remote control multiple controllers or lamps | High precision touch chip with high sensitive&high stability touch control
Standby time: 6 months | **Remote distance:** 30m | **Working temperature:** -30°C~55°C | **Product size:** L86×W86×H13.5mm

FOUR CHANNEL RECHARGEABLE LED PANEL REMOTE
To control single color LED lamp | Removeable and stick anywhere easily | Built-in rechargeable Li-Battery | With on/off state and touch operation indication | Wireless control 30m | Can remote control multiple controllers or lamps | High precision touch chip with high sensitive&high stability touch control

Standby time: 6 months | **Remote distance:** 30m | **Working temperature:** -30°C~55°C | **Product size:** L86×W86×H13.5mm
Full info for the products, instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT CE 3+0 standard +extended 3 YEAR TOTAL WARRANTY

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ONE COLOUR FOUR ZONES REMOTE
99TOUCHB1

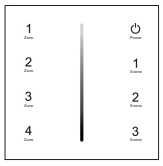


FOUR COLOUR FOUR ZONES REMOTE
99TOUCHB4

IP20

ONE / FOUR CHANNEL FOUR ZONES REMOTE

Catalogue number	Output signal	Battery capacity	Working current	Standby current	Packing/Box (pcs)
99TOUCHB1	RF(2.4G)	2xAAA	<20mA	< 20μA	1/200
99TOUCHB4	RF(2.4G)	2xAAA	<20mA	< 20μA	1/200



Turn on/off all zone light.
Brightness slide.
1 2 3 — Short press recall scene. Long press 2s to save the current state into 1/2/3.
1 2 3 4
Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light. 4 zone control seperately or synchronously, each zone could control multiple receivers.



Turn on/off all zone light.
Color temperature / Brightness slide.
Switch between color temperature / brightness slide
1 2 — Short press recall scene. Long press 2s to save the current state into 1/2.
1 2 3 4
Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light. 4 zone control seperately or synchronously, each zone could control multiple receivers.

ONE CHANNEL FOUR ZONES REMOTE
To control one colour | Removeable and stick anywhere easily | With on/off state and touch operation indication | Wireless control 30m | Can remote control multiple controllers or lamps | High precision touch chip with high sensitive&high stability touch control
Remote distance: 30m | **Working temperature:** -30°C~55°C | **Product size:** L86×W86×H13.5mm

FOUR CHANNEL FOUR ZONES REMOTE
To control one-four colours | Removeable and stick anywhere easily | With on/off state and touch operation indication | Wireless control 30m | Can remote control multiple controllers or lamps | High precision touch chip with high sensitive&high stability touch control

Remote distance: 30m | **Working temperature:** -30°C~55°C | **Product size:** L86×W86×H13.5mm
Full info for the products, instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT CE 3+0 standard +extended 3 YEAR TOTAL WARRANTY

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TOUCH DIMMER
99TOUCH1

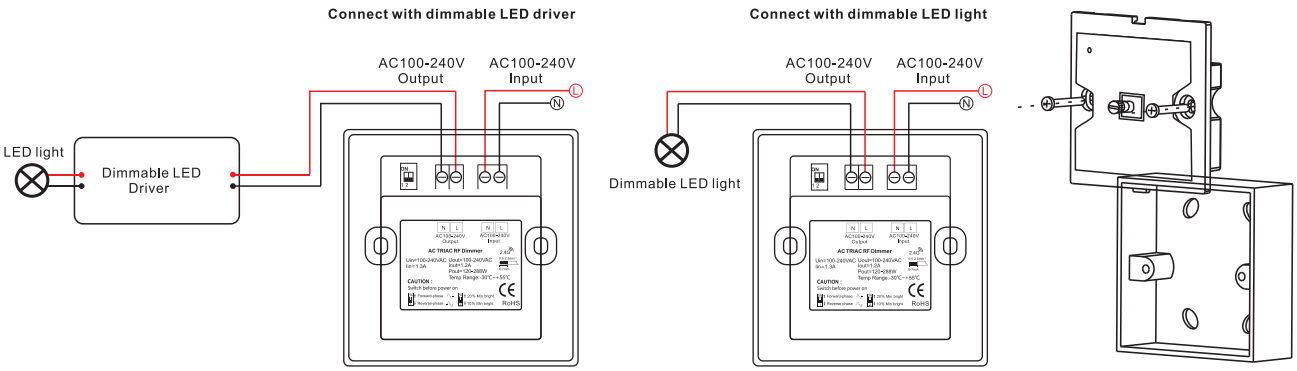


ROTARY DIMMER
99DIMMERR

GET IT ON Google Play | Download on the App Store | **IP20**

TOUCH AC TRIAC RF DIMMER / ROTARY AC TRIAC RF DIMMER

Catalogue number	Input voltage	Output voltage	Output current	Output power	Packing/Box (pcs)
99TOUCH1	100- 240VAC	100- 240VAC	1Channel x 1.2A	100- 240VAC-288W	1/200
99DIMMERR	100- 240VAC	100- 240VAC	1Channel x 1.2A	100- 240VAC-288W	1/200



TOUCH AC TRIAC RF DIMMER
Ultra sensitive high strength glass touch panel with touch brightness slide in the middle and backlighting | Triac and Mosfet dimmable | Workt with direct connected dimmable light | Great compatibility with a variety of dimming remoter | Leading edge dimming or trailing edge dimming set by dip switch | Minimum brightness set by dip switch | Rotate knob to change brightness, support push, long push operation | Adopt 2.4GHz wireless technology | Remote distance up to 30m | Control is done by installed IOS or Android application | To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights

RF AC TRIAC ROTARY DIMMER
Triac and Mosfet dimmable | Workt with direct connected dimmable light | Great compatibility with a variety of dimming remoter | Leading edge dimming or trailing edge dimming set by dip switch | Minimum brightness set by dip switch | Rotate knob to change brightness, support push, long push operation | Adopt 2.4GHz wireless technology | Remote distance up to 30m | Control is done by installed IOS or Android application | To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights

Remote distance: 30m | **Working temperature:** -30℃~55℃ | **Product size:** L86×W86×H50mm
Download Skydance Application from Android market or Apple store.
Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT | CE | 3+0 standard +extended | 3 YEAR TOTAL WARRANTY

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SINGLE ZONE RF WIRELESS
REMOTE CONTROLLER
99REMOTE1



SINGLE ZONE RF WIRELESS
RGBW REMOTE CONTROLLER
99RGBREMOTE1



FOUR ZONE RF WIRELESS
RGBW REMOTE CONTROLLER
99RGBREMOTE4

IP20

REMOTE CONTROLLERS

Catalogue number	Output signal	Working voltage	Working current	Standby curre	Packing/Box (pcs)
99REMOTE1	RF(2.4GHz) 58.5mm	3VDC(CR2032)	<20mA	<10μA	1/150
99RGBREMOTE1	RF(2.4GHz) 58.5mm	3VDC(CR2032)	<20mA	<10μA	1/150
99RGBREMOTE4	RF(2.4GHz) 58.5mm	3VDC(CR2032)	<20mA	<10μA	1/150

SINGLE ZONE RF WIRELESS REMOTE CONTROLLER
Match with single color dimming receiver- 99RECEIVER1 | Adopt 2.4GHz wireless technology | Remote distance up to 30m | CR2032 button battery power supply | Operate with LED indicator light | Each remote can match one or more receiver
Standby time: 6 months | **Remote distance:** 30m | **Working temperature:** -30°C~55°C | **Product size:** L107×W58.5×H9mm

SINGLE ZONE RF WIRELESS RGBW REMOTE CONTROLLER
Match with one channel and four channel dimming receivers- 99RECEIVER1 and 99RECEIVER4 | Suitable to single color, dual color, RGB, RGBW or RGB+CCT LED controller | Adopt 2.4GHz wireless technology, remote distance up to 30m | Working voltage: 3VDC(AAA*2pcs) | Operate with LED indicator light | Each remote can match one or more receiver
Standby time: 6 months | **Remote distance:** 30m | **Working temperature:** -30°C~55°C | **Product size:** L107×W58.5×H9mm

FOUR ZONE RF WIRELESS RGBW REMOTE CONTROLLER
Match with one channel and four channel dimming receivers- 99RECEIVER1 and 99RECEIVER4 | Suitable to single color, dual color, RGB, RGBW or RGB+CCT LED controller | Adopt 2.4GHz wireless technology, remote distance up to 30m | Working voltage: 3VDC(AAA*2pcs) | Operate with LED indicator light | Each remote can match one or more receiver
Standby time: 6 months | **Remote distance:** 30m | **Working temperature:** -30°C~55°C | **Product size:** L122×W53×H17.5mm

Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT CE 3+0 standard +extended 3 YEAR TOTAL WARRANTY

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FOUR CHANNEL WIFI RECEIVER
99RGBWF4

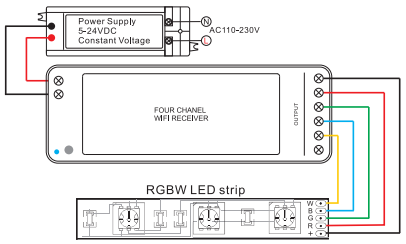


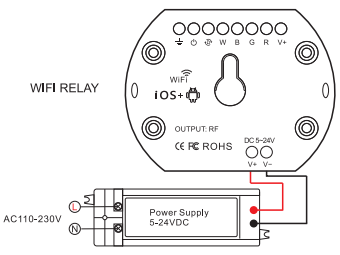
WIFI RELAY
99RWIFI

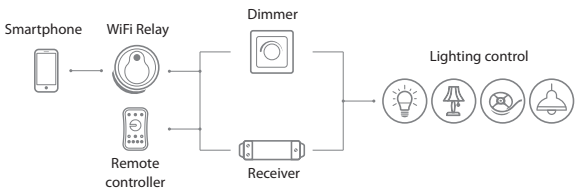
GET IT ON Google Play | Download on the App Store | WiFi | IP20

FOUR CHANNEL CONSTANT VOLTAGE WIFI RECEIVER / WIFI RELAY CONTROLLER

Catalogue number	Input voltage	Output type	Output current	Output power (12V)	Output power (24V)	Packing/Box (pcs)
99RGBWF4	12-24 VDC	Constant voltage	4Channel 4 x 3A	0 - 144W	0 - 288W	1/100
99RWIFI	5-24 VDC	-	-	-	-	1/100







FOUR CHANNEL CONSTANT VOLTAGE WIFI RECEIVER

Four channel 2.4GHz RF wireless LED lighting dimming reciever | Work as ON/OFF switch and RGBW controler with RGBW remoter | Can also be used for RGB, RGBW, 2 x dual colour, 4 x single color LED strips | Full compatibility with a variety of single color, dual color and RGB/RGBW remoters | Through jump, strobe, gradual change style, fine adjust color, realize thousands of powerful editing effect | 32 change mode optional | Changing mode or loop mode can be stored to 8 scenes, or timming run | Control is done by remote control, dimmer switch and/or installed IOS or Android application | For more power control it can be equiped with amplifier

WIFI RELAY CONTROLLER

Convert WiFi to RF signal | It used to carry 1-16 constant voltage receiver with different channel number | Can not control lamp directly | WiFi-Relay controller control up to 16 zones lamp with any light type.

Working temperature: -30°C~55°C | **Dimming range:** 0-100% | **Remote distance:** 30m | **Product size:** Ø72×25mm
Download Skydance Application from Android market or Apple store.
Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT | CE | 3+0 standard +extended | 3 YEAR TOTAL WARRANTY

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ONE CHANNEL DIMMING RECEIVER

99RECEIVER1



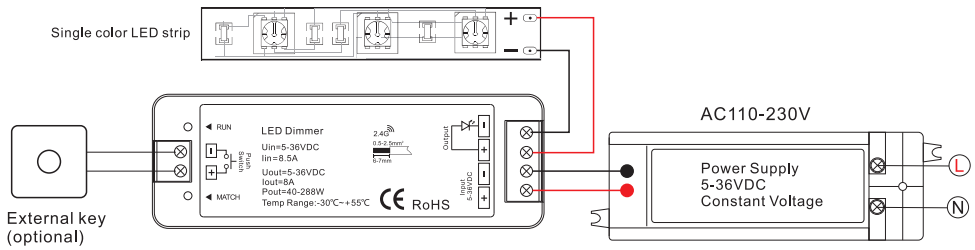
FOUR CHANNEL DIMMING RECEIVER

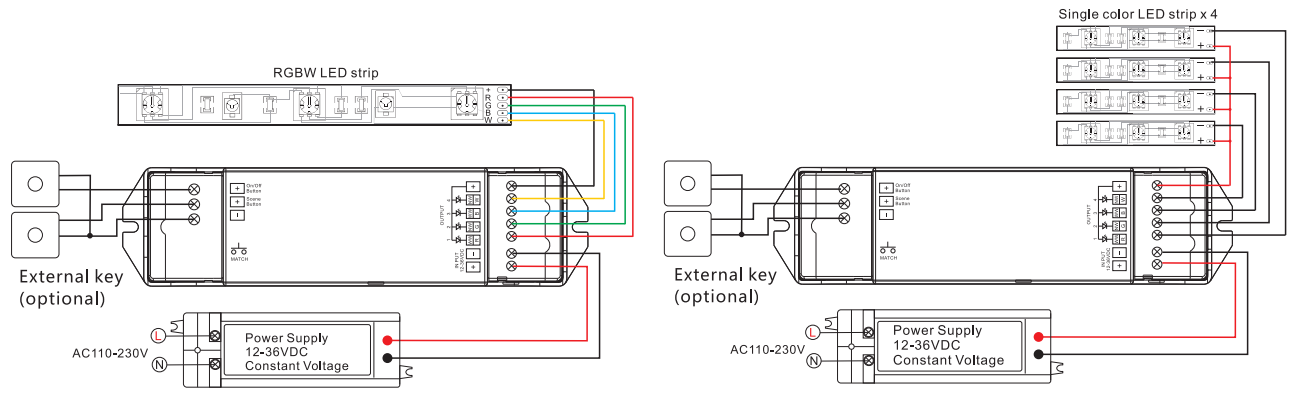
99RECEIVER4

GET IT ON Google Play | Download on the App Store | **IP20**

ONE / FOUR CHANNEL CONSTANT VOLTAGE LED DIMMING RECEIVER

Catalogue number	Input voltage	Output type	Output current	Output power (5V)	Output power (12V)	Output power (24V)	Output power (36V)	Packing/Box (pcs)
99RECEIVER1	5-36 VDC	Constant voltage	1Channel x 8A	0-40W	0-96W	0-192W	0-288W	1/200
99RECEIVER4	12-36VDC	Constant voltage	4Channel 4 x 5A	-	0 - 240W	0 -480W	0 - 720W	1/300





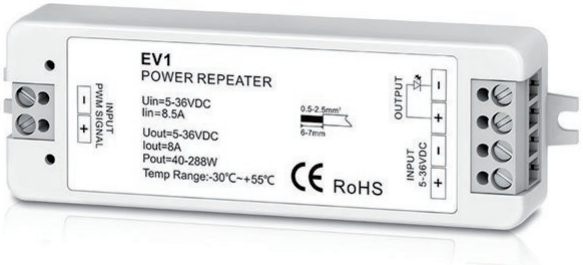
One channel 2.4GHz RF wireless LED lighting dimming receiver | Work as ON/OFF switch and dimming | Control is done by remote control, dimmer switch and/or installed IOS or Android application | For more power control it can be equiped with amplifier.

Four channel 2.4GHz RF wireless LED lighting dimming receiver | Work as ON/OFF switch and RGBW controler with RGBW remoter, create colorful static or dynamic effect | Can also be used for RGB, RGBW, 2 x dual colour, 4 x single color LED strips | Full compatibility with a variety of single color, dual color and RGB/RGBW remoters | When control RGB/RGBW lamp, built in 30 change mode optional | Control is done by remote control, dimmer switch and/or installed IOS or Android application | For more power control it can be equiped with amplifier

Grey levels: 4096 | **Working temperature:** -30°C~55°C | **Dimming range:** 0-100% | **Remote distance:** 30m | **Product size:** L97×W33×H18mm
Download Skydance Application from Android market or Apple store.
Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT | CE | 3+0 standard +extended | 3 YEAR TOTAL WARRANTY

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ONE CHANNEL POWER REPEATER

99REPEATER1



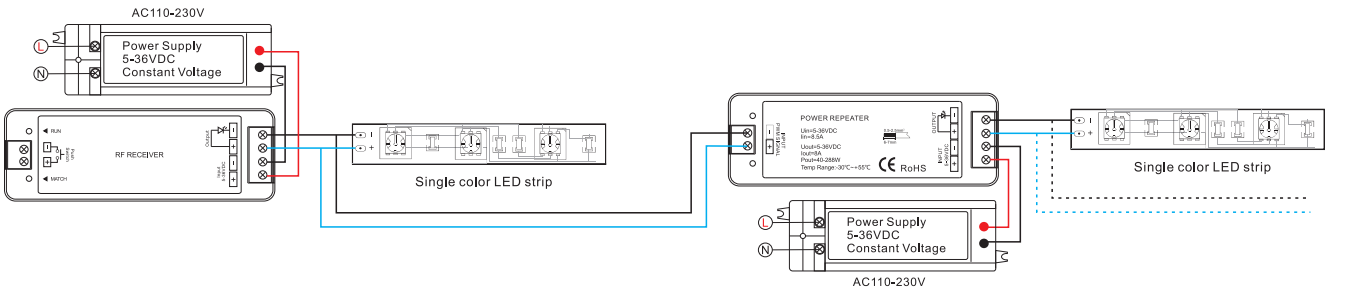
FOUR CHANNEL POWER REPEATER

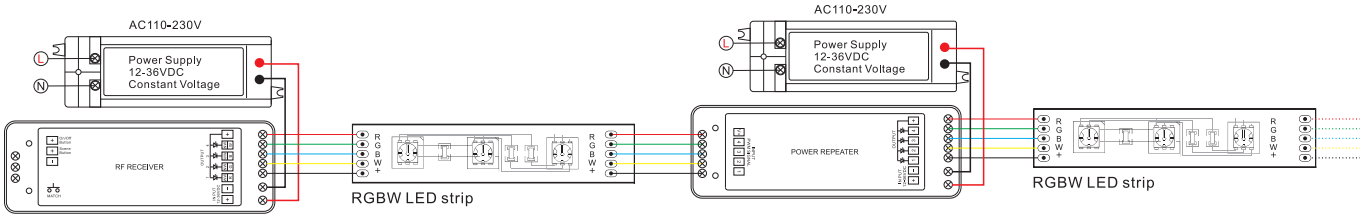
99REPEATER4

IP20

ONE / FOUR CHANNEL CONSTANT VOLTAGE POWER REPEATER

Catalogue number	Input voltage	Output type	Output current	Output power (5V)	Output power (12V)	Output power (24V)	Output power (36V)	Packing/Box (pcs)
99REPEATER1	5-36 VDC	Constant voltage	1Channel x 8A	0 - 40W	0 - 96W	0 -192W	0 - 288W	1/200
99REPEATER4	12-36VDC	Constant voltage	4Channel 4 x 5A	-	0 - 240W	0 -480W	0 - 720W	1/200





ONE FOUR CHANNEL CONSTANT VOLTAGE POWER REPEATER
It's used along with 99RECEIVER1, in case we want to increase the output power, for the contol of several light sources | It can be used unlimited number of amplifiers, connected in parallel or successively without reflecting the sincronization of the control itself

Working temperature: -30°C~55°C. | **Product size:** L97×W33×H18mm

FOUR CHANNEL CONSTANT VOLTAGE POWER REPEATER
It's used along with 99RECEIVER4, in case we want to increase the output power, for the contol of several light sources | It can be used unlimited number of amplifiers, connected in parallel or successively without reflecting the sincronization of the control itself

Working temperature: -30°C~55°C. | **Product size:** L175×W45×H27mm
Download Skydance Application from Android market or Apple store.
Full info for the products and instructions, can be found at www.elmarkholding.eu

3+0 standard +extended 3 YEAR TOTAL WARRANTY

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AC TRIAC RF DIMMER
99DIMMERT1



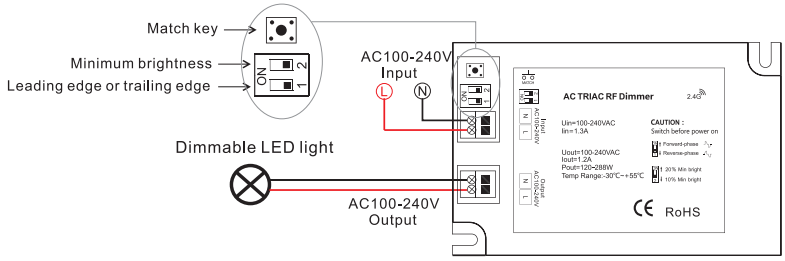
AC TRIAC RF DIMMER SWITCH
99DIMMERMT

GET IT ON Google Play | Download on the App Store | **IP20**

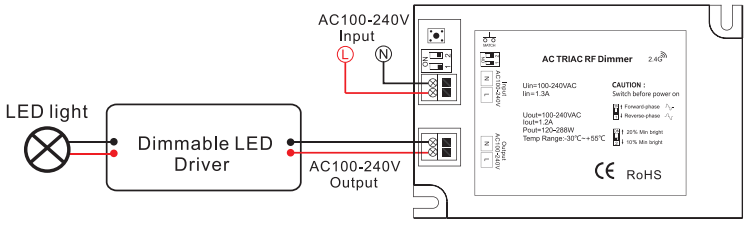
AC TRIAC RF DIMMER / AC TRIAC RF DIMMER SWITCH

Catalogue number	Input voltage	Output voltage	Output current	Output power	Packing/Box (pcs)
99DIMMERT1	100- 240VAC	100- 240VAC	1Channel x 1.2A	100- 240VAC-288W	1/300
99DIMMERMT	100- 240VAC	100- 240VAC	1Channel x 1A	100- 240VAC-240W	1/200

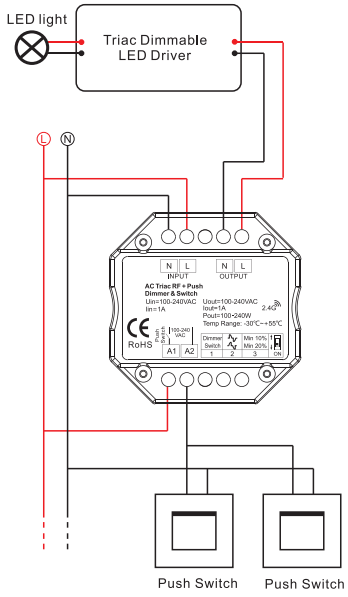
Connect with dimmable LED light



Connect with dimmable LED driver



Connect with dimmable LED driver



AC TRIAC RF DIMMER
AC phase cut RF dimmer | Triac and Mosfet dimmable | Leading edge dimming or trailing edge dimming set by dip switch | Minimum brightness set by dip switch | Adopt 2.4GHz wireless technology | Remote distance up to 30m | Control is done by remote control and/or installed IOS or Android application | To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights
Working temperature: -30°C~55°C | **Product size:** L103×W67×H30mm

AC TRIAC RF DIMMER SWITCH
AC phase cut RF dimmer switch | Suitable to use with dimmer switch | Suitable to mounting in standard panel bottom box | Can accept up to 10 remote control | Great compatibility with a variety of dimming remote | Leading edge dimming or trailing edge dimming set by dip switch | Minimum brightness set by dip switch | Adopt 2.4GHz wireless technology | Remote distance up to 30m | Control is done by remote control, dimmer switch and/or installed IOS or Android application | To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights
Working temperature: -30°C~55°C | **Product size:** L52×W25×H26mm

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Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT | CE | 3+0 standard +extended | 3 YEAR TOTAL WARRANTY

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WIFI SMART
UK SOCKET
195022



ONE CHANNEL SMART WIFI
GLASS TOUCH PANEL
195020



WIFI SMART
GERMAN SOCKET
195021

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ONE CHANNEL SMART WIFI GLASS TOUCH PANEL / WIFI SMART UK AND GERMAN SOCKET

Catalogue number	Input voltage	Output current	Output power	Colour	Packing/Box (pcs)
195020	90-250V AC	2A	400 W	white	1/1 000
195021	90-250V AC	10A	2000 W	white	1/900
195022	90-250V AC	10A	2000 W	white	1/200

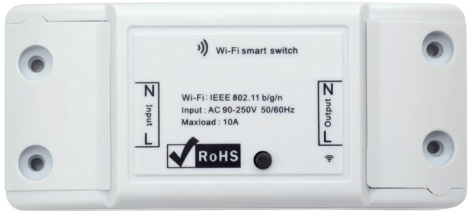
ONE CHANNEL SMART WIFI GLASS TOUCH PANEL - Touch ON/OF | Real-time turn ON/OF lighting from anywhere | Control is done from anywhere with IOS or Android mobile application | Time seting function- turn ON/OF at specified time after seting | Turn ON/OF a gang of devices with one tap | Control can by shared to another mobile phones | Control electrical devices over Wi-Fi | Supports max 8 enabled timing tasks | EU standard | Possibility to voice control with **AMAZON ALEXA**, Google Home(Stay tuned) | Works with **GOOGLE NEST**

WIFI SMART UK AND GERMAN SOCKET - Tourn ON/OF electrical devices from enywhere | Real time control status | Control is done from anywhere with IOS or Android mobile application | Time seting function- turn ON/OF at specified time after seting | Turn ON/OF a gang of devices with one tap | Control can by shared to another mobile phones | Control electrical devices over Wi-Fi | Supports max 8 enabled timing tasks | Possibility to voice control with **AMAZON ALEXA**, Google Home(Stay tuned) | Works with **GOOGLE NEST; Security mechanism:** WEP/WPA-PSK/WPA2-PSK/WPA/WPA2/WAPI/WPS2

Working temperature: 0°C-40°C (32°F-104°F). | **Humidity:** 5%-90%RH, Non-condensing | **Frequency:** 2.4Ghz
Download EWeLink Application from Android market or Apple store.
Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT | CE | 3+0 standard +extended | 3 YEAR TOTAL WARRANTY

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WIRELESS
SMART SWITCH
195001



WIRELESS SMART SWITCH
WITH POWER CONSUMPTION
MEASUREMENT
195003

GET IT ON Google Play | Download on the App Store | WiFi | IP20

WIRELESS SMART SWITCH / WIRELESS SMART SWITCH WITH POWER CONSUMPTION MEASUREMENT

Catalogue number	Input voltage	Output current	Output power	Colour	Packing/Box (pcs)
195001	90-250V AC	10A	2200 W	white	1/800
195003	90-250V AC	16A	3500 W	white	1/800

WIRELESS SMART SWITCH
One channel wireless ON/OF switch | Control is done from anywhere with IOS or Android mobile application | Control electrical devices over Wi-Fi | Control can by shared to another mobile phones | Real-time ON/OF devices status provided to application | Time seting function- turn ON/OF at specified time after seting | Supports max 8 enabled timing tasks | Possibility to voice control with **AMAZON ALEXA** | Works with **GOOGLE NEST**



Working temperature: 0°C-40°C (32°F-104°F). | **Humidity:** 5%-90%RH, Non-condensing | **Frequency:** 2.4Ghz | **Product size:** L88×W38×H23mm

WIRELESS SMART SWITCH WITH POWER CONSUMPTION MEASUREMENT
Real-time ON/OF control and monitoring status from energy usage in a period via App (KWH calculator) | Check energy usage daily and monthly via App | Control is done from anywhere with IOS or Android mobil application | Control electrical devices over Wi-Fi | Time seting function- turn ON/OF at specified time after seting | Supports max 8 enabled timing tasks | Possibility to voice control with **AMAZON ALEXA** | Works with **GOOGLE NEST** | This device works perfectly with electric fan, air conditioner, humidifier, smart fish tank, watering system, etc.



Working temperature: 0°C-40°C (32°F-104°F). | **Humidity:** 5%-90%RH, Non-condensing | **Frequency:** 2.4Ghz | **Product size:** L114×W52×H32mm
Download EWeLink Application from Android market or Apple store.
Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT | CE | 3+0 standard +extended | 3 YEAR TOTAL WARRANTY

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WIRELESS SMART SWITCH

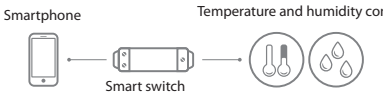
195002

GET IT ON Google Play | Download on the App Store | WiFi | **IP20** | **IP68**

TEMPERATURE AND HUMIDITY MONITORING WiFi WIRELESS SWITCH

Catalogue number	Input voltage	Output current	Output power	Colour	Packing/Box (pcs)
195002	90-250V AC	16A	3500 W	white	1/800

Real-time ON/OF control and monitoring status from temperature and humidity with sensor | Control is done from anywhere with IOS or Android mobil application | Control electrical devices over Wi-Fi | Control can by shared- temperature and humidity to another mobile phones | Time seting function- turn ON/OF at specified time after seting | Can turn switch ON/OF electrical devices without monted sensor | Supports max 8 enabled timing tasks | Possibility to voice control with **AMAZON ALEXA** | Works with **GOOGLE NEST** | This device works perfectly with electric fan, air conditioner, humidifier, smart fish tank, watering system, etc.



Working temperature: 0°C-40°C (32°F-104°F). | **Humidity:** 5%-90%RH, Non-condensing | **Frequency:** 2.4Ghz | **Product size:** L88×W38×H23mm



HIGH-PRECISION TEMPERATURE & HUMIDITY SENSOR
Catalogue number: 195030

Temperature: -40°C/+80°C
Humidity Measuring Range: 0~99.9%RH
Accuracy: in 25°C
Temperature: ±0.5%RH
Humidity: ±3%RH(10...90%RH)
Power supply: 3.3-5.2V DC(5V recommended)



WATERPROOF TEMPERATURE SENSOR
Catalogue number: 195031

Temperature: -55°C/+125°C
Power supply: 3.0-5.5V
Stainless steel temperature probe

Download EWeLink Application from Android market or Apple store.
Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT | CE | 3+0 standard +extended 3 YEAR TOTAL WARRANTY

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DUAL WIFI WIRELESS SMART SWITCH

195004

GET IT ON Google Play | Download on the App Store | WiFi | IP20

DUAL WIFI WIRELESS SMART SWITCH

Catalogue number	Input voltage	Output current	Output power	Colour	Packing/Box (pcs)
195004	90-250V AC	2x10A	2x2200 W	white	1/ 800

DUAL WIFI WIRELESS SMART SWITCH
Twoo channel wireless ON/OF switch | Control is done from anywhere with IOS or Android mobil application | Control electrical devices over Wi-Fi | Control can by shared to another mobile phones | Real-time ON/OF devices status provided to application | Time seting function- turn ON/OF at specified time after seting | Supports max 8 enabled timing tasks | Possibility to voice control with **AMAZON ALEXA** | Works with **GOOGLE NEST**



Working temperature: 0°C-40°C (32°F-104°F). | **Humidity:** 5%-90%RH, Non-condensing | **Frequency:** 2.4Ghz | **Product size:** L88×W38×H23mm
Download EWeLink Application from Android market or Apple store.
Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT | CE | 3+0 standard +extended | 3 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



SMART WIFI
FOUR CHANNEL SWITCH

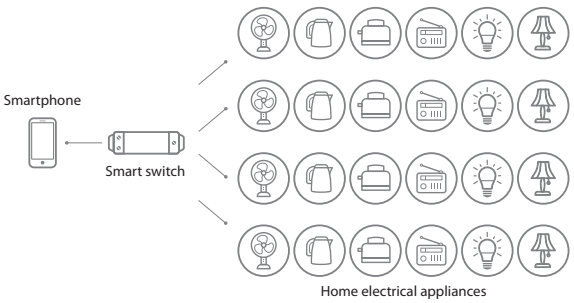
195006

GET IT ON Google Play | Download on the App Store | WiFi | IP20

SMART WIFI FOUR CHANNEL SWITCH

Catalogue number	Input voltage	Output current	Output power	Colour	Packing/Box (pcs)
195006	90-250V AC / 5-24V DC	4x10A	4x2200 W	white	1/ 350

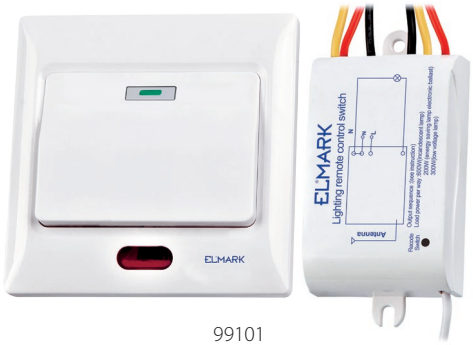
Real-time ON/OF switching electrical devices from anywhere | Three modes to work- Switch among interlock/self-locking/inching modes | Posibility to turn on devices for 0,25-4 s | Control each channel separately | Control is done from anywhere with IOS or Android mobil application, RF remote | Control electrical devices over Wi-Fi | Time seting function- turn ON/OF at specified time after seting | Supports max 8 enabled timing tasks | Mounting in Din rail | Possibility to voice control with **AMAZON ALEXA** | Works with **GOOGLE NEST** | This device is good for industrial control



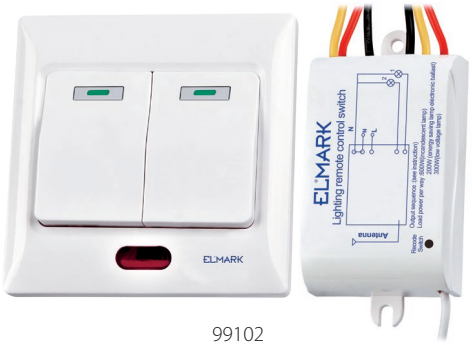
Working temperature: 0°C-40°C (32°F-104°F). | **Humidity:** 5%-90%RH, Non-condensing | **Frequency:** 2.4Ghz | **Product size:** L145×W90
Download EWeLink Application from Android market or Apple store.
Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT | CE | 3+0 standard +extended | 3 YEAR TOTAL WARRANTY

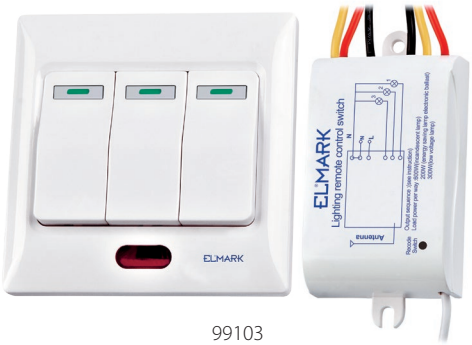
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



99101



99102



99103



99104

IP20

REMOTE CONTROL SWITCH

Catalogue number	Description	Voltage (V)	Operating distance in open air (m)	Output power (per way) ESL/ LED lamp	Incandescent lamp	Packing/Box (pcs)
99101	One way output power	220V AC	50	200W	600W	1/60
99102	Twoo ways output power	220V AC	50	200W	600W	1/60
99103	Three way output power	220V AC	50	200W	600W	1/60
99104	Twoo ways output power- 2xE27	220V AC	50	150W	400W	1/60

Rear View



Left side View



The remote devices for lighting control work through sending a frequent signal from the key to the receiver, which commands the connected to it lighting bodies. The installation of the key can be done in a standard round bracket as the advantage of this product is that there is no additional requirement for wiring from it towards the receiver. Thanks to this the product is widely used in premises with build in installations where there is no ability for adding the additional cable layouts and expenses for their building are reserved. The connection between the key and the receiver is through a frequent signal in the range -315Mhz – 433.92 Mhz.

Battery: 12V 23A | Cordless control of lighting fixtures
Full info for the products and instructions, can be found at www.elmarkholding.eu

RoHS COMPLIANT CE 2+0 standard +extended 2 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



SMART CAMERA
195050



SMART CAMERA
195051

IP20

Wi-Fi SMART CAMERA

Catalogue number	Type	Pixels	Voltage	Cover range	Colour	Packing/Box (pcs)
195050	indoor camera 100	100W pixels (720)	100-240V/5.0V	10-15m	white	1
195051	indoor camera H265	200W pixels (1080), H265	100-240V/5.0V	10-15m	white	1

195050 - Control is done from anywhere with IOS or Android mobil application| Support TF recording & Cloud storage| Two-way voice communication | Motion detection voice alarm | Detailed alarm sector setting | Sending images| Night vision| Standard power adapter 5V/1A

195051 - Control is done from anywhere with IOS or Android mobil application| With network port |Support TF recording & Cloud storage| Two-way voice communication | Motion detection voice alarm | Detailed alarm sector setting | Sending images| Night vision| Standard power adapter 5V/1A

RoHS COMPLIANT CE 3+0 standard +extended 3 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



SMART CAMERA IP66
195053



SMART CAMERA
195052

IP66 **IP20**

Wi-Fi SMART CAMERA

Catalogue number	Type	Pixels	Voltage	Cover range	Colour	Packing/Box (pcs)
195052	ceiling camera 200	200W pixels (1080)	100-240V/5.0V	50m²	black/white	1
195053	outdoor camera 100W IP66	100W pixels (720)	100-240V/12V DC	25-30m	white	1

195052 - Control is done from anywhere with IOS or Android mobil application| Diferent view settings| Support TF recording & Cloud storage| Two-way voice communication | Motion detection voice alarm & save alarm video | Detailed alarm sector setting | Sending images| Night vision| View: 360°| Standard power adapter 5V/1A

195053 - Control is done from anywhere with IOS or Android mobil application| With network port|Support TF recording & Cloud storage| Two-way voice communication | Motion detection voice alarm & save alarm video | Detailed alarm sector setting | Images pushing| Night vision| General view

RoHS COMPLIANT CE 3+0 standard +extended 3 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



SWITCHES AND SOCKETS



White/White



Champagne metallic/White



Orenge/White



Yellow/White



Red/White



Green/White



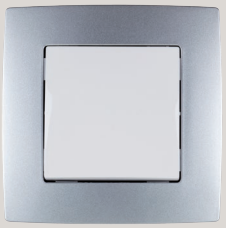
Blue/White



Orange metallic/White



Bordo metallic/
White



Grey/White



2 gangs Champagne metallic/White



3 gangs Red/White



4 gangs Bordo metallic/White



5 gangs Grey/White

5+0 standard +extended 5 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.


190011
190021
190031


190011L
190021L


190041
190051


190191


190181


190183


190211
190211s


190371
190371s


190211C
190211D


190211F

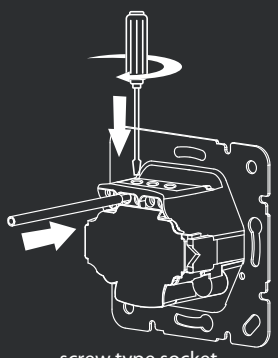

190043

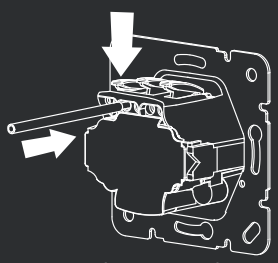

190045

IP20

FUNCTIONAL PART PLUS PANEL "CITY" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/ Box (pcs)
190011	1 button 1 way switch	White	10	10/100
190011L	1 button 1 way switch with light	White	10	10/100
190021	1 button 2 way switch	White	10	10/100
190021L	1 button 2 way switch with light	White	10	10/100
190031	1 button cross switch	White	10	10/100
190041	2 buttons 1 way switch	White	10	10/100
190051	2 buttons 2 way switch	White	10	10/100
190191	Dimmer switch LED 3-300W	White	-	10/60
190181	Door bell switch	White	-	10/100
190183	Push light button	White	-	10/100
190211	German screwless type socket	White	16	10/100
190211S	German screw type socket	White	16	10/100
190211F	French screw type socket	White	16	10/100
190211C	German screwless type socket IP44	White	16	10/100
190211D	German screw type socket IP44	White	16	10/100
190371	German screwless type socket (double)	White	16	10/60
190371S	German screw type socket (double)	White	16	10/60
190043	Key card power switch *	White	10	10/60
190045	Curtain control switch	White	10	10/60


screw type socket


screwless type socket

**is not compatible with another decorative frame or frame designed for more than one functional part*

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.


190261


190281
190034


190711
190731


190251


190033


190791


190721

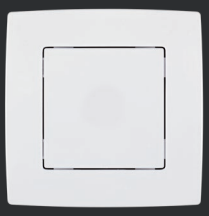

190751


190747


190771


190781


190171


190741

IP20

FUNCTIONAL PART PLUS PANEL "CITY" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/ Box (pcs)
190261	Phone socket RJ11	White	-	10/100
190281	Computer socket RJ45 CAT5E	White	-	10/100
190034	Computer socket RJ45 CAT6E	White	-	10/100
190731	Phone socket RJ11 + computer socket RJ45	White	-	10/100
190711	Computer socket RJ45 - double	White	-	10/100
190251	TV socket	White	-	10/100
190033	TV+FM+SAT	White	-	10/100
190791	1 button 1 way switch	white	20	10/100
190721	Audio socket- double	white	10	10/100
190751	USB socket- double	white	2	10/100
190747	HDMI socket	white		10/100
190771	Motion sensor 200W	white		10/100
190781	Thermostat	white	16	10/100
190171	Doorbell switch with light name card	white	10	10/100
190741	1 Gang blank Plate	white		10/100

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190012
190022
190032


190012L


190042
190052


190192


190182


190184


190212
190212s


190372
190372s


190212D


190212F

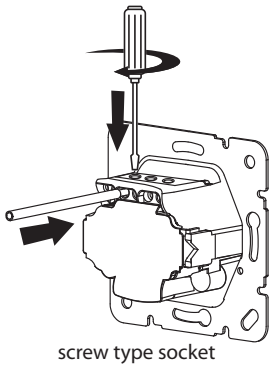

190044

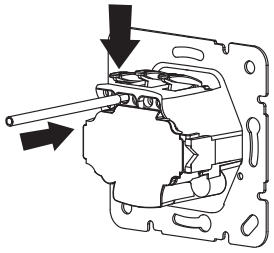

190046

IP20

FUNCTIONAL PART PLUS PANEL "CITY" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
190012	1 button 1 way switch	Champagne metallic	10	10/100
190012L	1 button 1 way switch with light	Champagne metallic	10	10/100
190022	1 button 2 way switch	Champagne metallic	10	10/100
190022L	1 button 2 way switch with light	Champagne metallic	10	10/100
190032	1 button cross switch	Champagne metallic	10	10/100
190042	2 buttons 1 way switch	Champagne metallic	10	10/100
190052	2 buttons 2 way switch	Champagne metallic	10	10/100
190192	Dimmer switch LED 3-300W	Champagne metallic	-	10/60
190182	Door bell switch	Champagne metallic	-	10/100
190184	Push light button	Champagne metallic	-	10/100
190212	German screwless type socket	Champagne metallic	16	10/100
190212S	German screw type socket	Champagne metallic	16	10/100
190212F	French screw type socket	Champagne metallic	16	10/100
190372	German screwless type socket (double)	Champagne metallic	16	10/60
190372S	German screw type socket (double)	Champagne metallic	16	10/60
190212D	German screw type socket IP44	Champagne metallic	16	10/100
190044	Key card power switch *	Champagne metallic	10	10/60
190046	Curtain control switch	Champagne metallic	10	10/60


screw type socket


screwless type socket

**** is not compatible with another decorative frame or frame designed for more than one functional part***

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.


190262


190282
190035


190732
190712


190252


190034F


190722


190742


190752


190772


190782


190792


190748


190172

IP20

FUNCTIONAL PART PLUS PANEL "CITY" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
190262	Phone socket RJ11	Champagne metallic	-	10/100
190282	Computer socket RJ45 CAT5E	Champagne metallic	-	10/100
190035	Computer socket RJ45 CAT6E	Champagne metallic	-	10/100
190732	Phone socket RJ11 + computer socket RJ45	Champagne metallic	-	10/100
190712	Computer socket RJ45 - double	Champagne metallic	-	10/100
190252	TV socket	Champagne metallic	-	10/100
190034F	TV+FM+SAT	Champagne metallic	-	10/100
190722	1 button 1 way switch	Champagne metallic	20	10/100
190742	Audio socket- double	Champagne metallic	10	10/100
190752	USB socket- double	Champagne metallic	2	10/100
190772	HDMI socket	Champagne metallic		10/100
190782	Motion sensor 200W	Champagne metallic		10/100
190792	Thermostat	Champagne metallic	16	10/100
190748	Doorbell switch with light name card	Champagne metallic	10	10/100
190172	1 Gang blank Plate	Champagne metallic		10/100

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

1 gang

2 gangs

3 gangs

1 GANG PANEL "CITY" SERIES

Catalogue number	Type	Colour
190441	1 gang	White
190442	1 gang	Champagne metallic
190443	1 gang	Orange
190444	1 gang	Yellow
190445	1 gang	Green
190446	1 gang	Red
190447	1 gang	Blue
190448	1 gang	Orange metallic
190449	1 gang	Bordo metallic
190450	1 gang	Grey

2 gangs PANELS "CITY" SERIES

Catalogue number	Type	Colour
190551	2 gangs	White
190552	2 gangs	Champagne metallic
190553	2 gangs	Orange
190554	2 gangs	Yellow
190555	2 gangs	Green
190556	2 gangs	Red
190557	2 gangs	Blue
190558	2 gangs	Orange metallic
190559	2 gangs	Bordo metallic
190560	2 gangs	Grey

3 gangs PANELS "CITY" SERIES

Catalogue number	Type	Colour
190661	3 gangs	White
190662	3 gangs	Champagne metallic
190663	3 gangs	Orange
190664	3 gangs	Yellow
190665	3 gangs	Green
190666	3 gangs	Red
190667	3 gangs	Blue
190668	3 gangs	Orange metallic
190669	3 gangs	Bordo metallic
190670	3 gangs	Grey

Packing/Box (pcs): 1 gang 1/200 | 2 gangs 1/100 | 3 gangs 1/150

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.

4 gangs

5 gangs

4 gangs PANELS “CITY” SERIES

Catalogue number	Type	Colour
190361	4 gangs	White
190362	4 gangs	Champagne metallic
190363	4 gangs	Orange
190364	4 gangs	Yellow
190365	4 gangs	Green
190366	4 gangs	Red
190367	4 gangs	Blue
190368	4 gangs	Orange metallic
190369	4 gangs	Bordo metallic
190370	4 gangs	Grey

5 gangs PANELS “CITY” SERIES

Catalogue number	Type	Colour
190601	5 gangs	White
190602	5 gangs	Champagne metallic
190603	5 gangs	Orange
190604	5 gangs	Yellow
190605	5 gangs	Green
190606	5 gangs	Red
190607	5 gangs	Blue
190608	5 gangs	Orange metallic
190609	5 gangs	Bordo metallic
190610	5 gangs	Grey

Packing/Box (pcs): 4 gangs 1/100 | 5 gangs 1/100

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



LECCE



White/White



Blue/White



Silver grey/White



Golden/White



Graphite mat/White



Graphite/White



Champagne/White



Green/White



Onix/White



Cherry-tree/White

5+0 standard +extended 5 YEAR TOTAL WARRANTY

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sound dimmer



boiler switch with neon*



LED dimmer 200VA, 3 mod



1 button 1 way switch with light



1 button 1 way / 2 way / cross switch / push light



1 button 2 pole switch 16A



curtain Switch



dimmer 250W



door bell switch

IP20

FUNCTIONAL PART "LECCE" SERIES

Catalogue number	Type	Colour	Size	Rated current In (A)	Packing/Box (pcs)
26016	sound dimmer	White	2 mod		1/120
26053	LED dimmer 200VA	White	3 mod	-	
26024	boiler switch with neon*	White	3 mod	45	1/60
26001	1 button 1 way switch	White	1 mod	16	1/300
26003	1 button 2 way switch	White	1 mod	16	1/300
26026	1 button 2 pole switch	White	1 mod	16	
26004	1 button cross switch	White	1 mod	10	1/240
26002	1 button 1 way switch with light	White	1 mod	16	1/300
26006	curtain Switch	White	1 mod	6	1/240
26055	dimmer 250W	White	1 mod	-	1/120
26005	door bell switch	White	1 mod	10	1/300
26027	push light button	White	1 mod	10	

* the product comes without decorative tripple panel

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



blank cover



computer socket



phone socket



TV socket



Satellite socket



button without functional part



key power switch

IP20

FUNCTIONAL PART "LECCE" SERIES

Catalogue number	Type	Colour	Size	Rated current In (A)	Packing/Box (pcs)
26017	blank cover	White	1 mod		1/600
26013	computer socket RJ45 CAT5E	White	1 mod		1/300
26013C	computer socket RJ45 CAT6E	White	1 mod		1/300
26012	phone socket	White	1 mod		1/300
26010	TV socket	White	1 mod	-	1/300
26011	Satellite socket	White	1 mod	-	1/300
26023	button without functional part	White	3 mod		1/360
26025	key power switch	white	3 mod	30A	

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



german type socket



double pin socket



italian standard multi socket



door bell



2 port USB socket



universal socket



audio socket



italian type socket



HDMI socket

IP20

FUNCTIONAL PART "LECCE" SERIES

Catalogue number	Type	Colour	Size	Rated current In (A)	Packing/Box (pcs)
26008	german type socket	White	2 mod	16	1/140
26007SA	double pin socket	White	1 mod	16	1/300
26007	italian standard multi socket	White	1 mod	16	1/300
26015	door bell	White	2 mod		1/100
26014	2 port USB socket, Input: 90-240V Output: 5V 2A	White	1 mod		1/120
26009	universal socket	White	2 mod	13	1/120
26021	audio socket	White	1 mod		1/100
26020	italian type socket	White	2 mod	16	1/300
26022	HDMI socket	White	1 mod		1/300

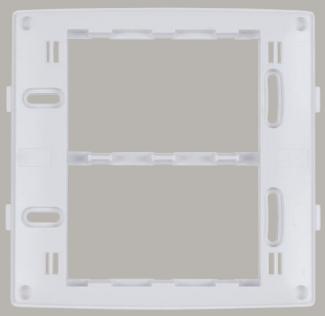
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



box for suspended
mounting IP65
3 mod



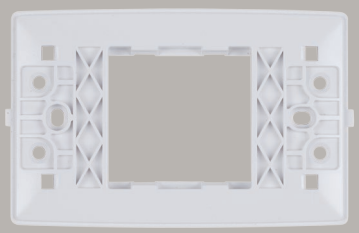
mounting frames
6 mod



mounting frames
3x2 mod



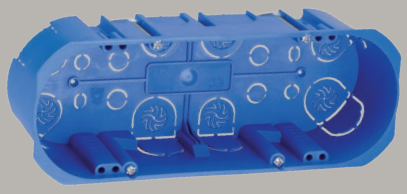
mounting frames
1 mod / 3 mod



mounting frames
2 mod



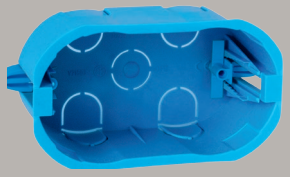
mounting frames
4 mod



Console box for plasterboard
26636



Console box for brick and concrete
24203
71304
68206



Console box for plasterboard
26205
26206

INSTALLATION FRAMES "LECCE"

Catalogue number	Type	Size	Packing/Box (pcs)
26019	mounting frames	1 mod	1/110
26019	mounting frames	3 mod	1/110
26018	mounting frames	2 mod	1/110
26054	mounting frames	4 mod	1/150
26156	mounting frames	6 mod	1/240
26056	mounting frames	2x3 mod	1/240
2603	box for suspended mounting IP65	3 mod	
24203	Console box for brick and concrete	triple	1/300
71304	Console box for brick and concrete	quadruple	1/200
68206	Console box for brick and concrete	sixfold	1/200
24205	Console box for plasterboard	triple	1/300
24206	Console box for plasterboard	quadruple	1/200
26636	Console for plasterboard	sixfold	1/160

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



1 gang



2 gangs



3 gangs

1 GANG PANEL "LECCE" SERIES

Catalogue number	Type	Colour
26100	1 gang	White
26101	1 gang	Blue
26102	1 gang	Silver grey
26103	1 gang	Golden
26104	1 gang	Graphite mat
26105	1 gang	Graphite
26106	1 gang	Champagne
26107	1 gang	Green
26108	1 gang	Onix
26109	1 gang	Cherry-tree

2 gangs PANELS "LECCE" SERIES

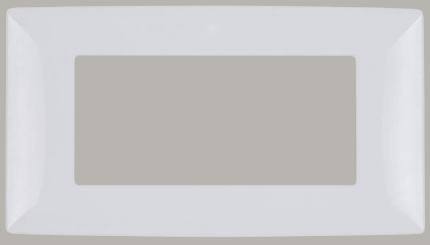
Catalogue number	Type	Colour
26200	2 gangs	White
26201	2 gangs	Blue
26202	2 gangs	Silver grey
26203	2 gangs	Golden
26204	2 gangs	Graphite mat
26205	2 gangs	Graphite
26206	2 gangs	Champagne
26207	2 gangs	Green
26208	2 gangs	Onix
26209	2 gangs	Cherry-tree

3 gangs PANELS "LECCE" SERIES

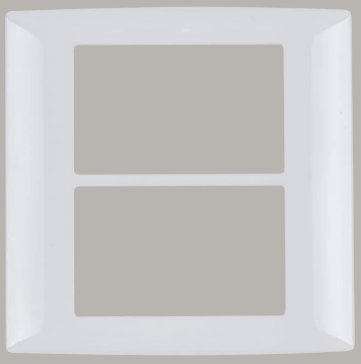
Catalogue number	Type	Colour
26300	3 gangs	White
26301	3 gangs	Blue
26302	3 gangs	Silver grey
26303	3 gangs	Golden
26304	3 gangs	Graphite mat
26305	3 gangs	Graphite
26306	3 gangs	Champagne
26307	3 gangs	Green
26308	3 gangs	Onix
26309	3 gangs	Cherry-tree

Packing/Box (pcs): 1 gang 1/180 | 2 gangs 1/180 | 3 gangs 1/180

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



4 gangs



3x2 gangs



6 gangs

4 gangs PANELS "LECCE" SERIES

Catalogue number	Type	Colour
26400	4 gangs	White
26401	4 gangs	Blue
26402	4 gangs	Silver grey
26403	4 gangs	Golden
26404	4 gangs	Graphite mat
26405	4 gangs	Graphite
26406	4 gangs	Champagne
26407	4 gangs	Green
26408	4 gangs	Onix
26409	4 gangs	Cherry-tree

6 gangs PANELS "LECCE" SERIES

Catalogue number	Type	Colour
266001	6 gangs	White
26601	6 gangs	Blue
266021	6 gangs	Silver grey
26603	6 gangs	Golden
26604	6 gangs	Graphite mat
266051	6 gangs	Graphite
266061	6 gangs	Champagne
26607	6 gangs	Green
26608	6 gangs	Onix
26609	6 gangs	Cherry-tree

3x2 gangs PANELS "LECCE" SERIES

Catalogue number	Type	Colour
26600	6 gangs	White
26606	6 gangs	Champagne
26602	6 gangs	Silver grey
26605	6 gangs	Graphite

Packing/Box (pcs): 4 gangs 1/200 | 6 gangs 1/160 | 3x2 gangs 1/80

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



RHYME



White metallic



Champagne metallic



Grey metallic



Graphite metallic



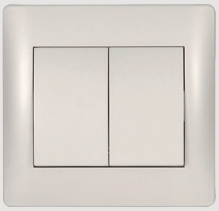
Coffee metallic

5+0 standard +extended 5 YEAR TOTAL WARRANTY

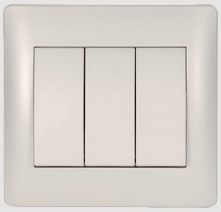
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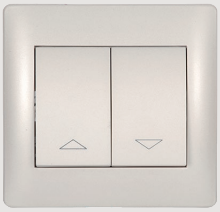
11011
11021
11341



11041
11051



11721



11171A



11411



11191



11181



11181B



11181C

IP20

FUNCTIONAL PART "RHYME" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
11011	1 button 1 way switch	White metallic	10	10/100
11021	1 button 2 way switch	White metallic	10	10/100
11341	1 button cross switch	White metallic	10	10/100
11041	2 buttons 1 way switch	White metallic	10	10/100
11051	2 buttons 2 way switch	White metallic	10	10/100
11721	3 buttons 1 way switch	White metallic	10	10/100
11171A	curtain control switch	White metallic	-	10/100
11411	sensor switch	White metallic	-	10/100
11191	dimmer switch	White metallic	-	10/80
11181	door bell switch	White metallic	-	10/100
11181B	door bell switch with name card	White metallic	-	10/100
11181C	Push light switch	White metallic	10	10/100

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



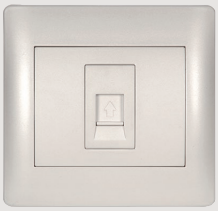
11211



11371



11211C



11261



11741
11731



11281
112816E



11711



11251



11681



11331

IP20

FUNCTIONAL PART "RHYME" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
11211	German type socket	White metallic	16	10/100
11211C	German type socket with cover	White metallic	16	10/100
11371	German type socket (double)	White metallic	16	10/50
11261	Phone socket RJ11	White metallic		10/100
11741	Phone socket RJ11 - double	White metallic		10/100
11731	Phone socket RJ11 + computer socket RJ45	White metallic		10/100
11281	Computer socket (cat5e) RJ45	White metallic		10/100
112816E	Computer socket RJ45 (CAT6e)	White metallic		10/100
11711	Computer socket RJ45 - double	White metallic		10/100
11251	TV socket	White metallic		10/100
11681	TV socket+FM socket + SAT socket *	White metallic		10/100
11331	Key card power switch *	White metallic		10/100

is not compatible with another decorative frame or frame designed for more than one functional part

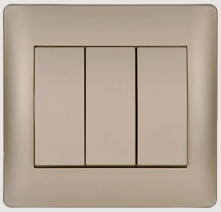
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



11012
11022
11342



11042
11052



11722



11172A



11412



11192



11182



11182B



11182C

IP20

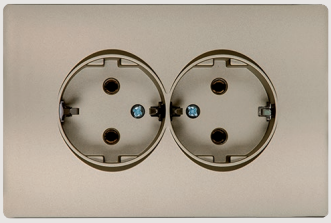
FUNCTIONAL PART "RHYME" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
11012	1 button 1 way switch	Champagne metallic	10	10/100
11022	1 button 2 way switch	Champagne metallic	10	10/100
11342	1 button cross switch	Champagne metallic	10	10/100
11042	2 buttons 1 way switch	Champagne metallic	10	10/100
11052	2 buttons 2 way switch	Champagne metallic	10	10/100
11722	3 buttons 1 way switch	Champagne metallic	10	10/100
11172A	curtain control switch	Champagne metallic	-	10/100
11412	sensor switch	Champagne metallic	-	10/100
11192	dimmer switch	Champagne metallic	-	10/100
11182	door bell switch	Champagne metallic	-	10/100
11182B	door bell switch with name card	Champagne metallic	-	10/100
11182C	Push light switch	Champagne metallic	10	10/100

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



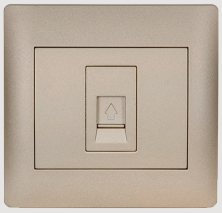
11212



11372



11212C



11262



11742
11732



11282
112826E



11712



11254



11684



11332

IP20

FUNCTIONAL PART "RHYME" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
11212	German type socket	Champagne metallic	16	10/100
11212C	German type socket with cover	Champagne metallic	16	10/100
11372	German type socket (double)	Champagne metallic	16	10/50
11262	Phone socket RJ11	Champagne metallic		10/100
11742	Phone socket RJ11 - double	Champagne metallic		10/100
11732	Phone socket RJ11 + computer socket RJ45	Champagne metallic		10/100
11282	Computer socket (cat5e) RJ45	Champagne metallic		10/100
112826E	Computer socket RJ45 (CAT6e)	Champagne metallic		10/100
11712	Computer socket RJ45 - double	Champagne metallic		10/100
11252	TV socket	Champagne metallic		10/100
11682	TV socket+FM socket + SAT socket *	Champagne metallic		10/100
11332	Key card power switch *	Champagne metallic		10/100

**** is not compatible with another decorative frame or frame designed for more than one functional part***

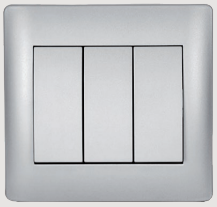
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



11014
11024
11344



11044
11054



11724



11174A



11414



11194



11184



11184B



11184C

IP20

FUNCTIONAL PART "RHYME" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
11014	1 button 1 way switch	Grey metallic	10	10/100
11024	1 button 2 way switch	Grey metallic	10	10/100
11344	1 button cross switch	Grey metallic	10	10/100
11044	2 buttons 1 way switch	Grey metallic	10	10/100
11054	2 buttons 2 way switch	Grey metallic	10	10/100
11724	3 buttons 1 way switch	Grey metallic	10	10/100
11174A	curtain control switch	Grey metallic	-	10/100
11414	sensor switch	Grey metallic	-	10/100
11194	dimmer switch	Grey metallic	-	10/100
11184	door bell switch	Grey metallic	-	10/100
11184B	door bell switch with name card	Grey metallic	-	10/100
11184C	Push light switch	Grey metallic	10	10/100

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



11214



11374



11214C



11264



11744
11734



11284
112846E



11714



11254



11684



11334

IP20

FUNCTIONAL PART "RHYME" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
11214	German type socket	Grey metallic	16	10/100
11214C	German type socket with cover	Grey metallic	16	10/100
11374	German type socket (double)	Grey metallic	16	10/50
11264	Phone socket RJ11	Grey metallic		10/100
11744	Phone socket RJ11 - double	Grey metallic		10/100
11734	Phone socket RJ11 + computer socket RJ45	Grey metallic		10/100
11284	Computer socket (cat5e) RJ45	Grey metallic		10/100
112846E	Computer socket RJ45 (CAT6e)	Grey metallic		10/100
11714	Computer socket RJ45 - double	Grey metallic		10/100
11254	TV socket	Grey metallic		10/100
11684	TV socket+FM socket + SAT socket *	Grey metallic		10/100
11334	Key card power switch *	Grey metallic		10/100

**** is not compatible with another decorative frame or frame designed for more than one functional part***

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11015
11025
11345



11045
11055



11725



11175A



11415



11195



11185



11185B



11185C

IP20

FUNCTIONAL PART "RHYME" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
11015	1 button 1 way switch	Graphite metallic	10	10/100
11025	1 button 2 way switch	Graphite metallic	10	10/100
11345	1 button cross switch	Graphite metallic	10	10/100
11045	2 buttons 1 way switch	Graphite metallic	10	10/100
11055	2 buttons 2 way switch	Graphite metallic	10	10/100
11725	3 buttons 1 way switch	Graphite metallic	10	10/100
11175A	curtain control switch	Graphite metallic	-	10/100
11415	sensor switch	Graphite metallic	-	10/100
11195	dimmer switch	Graphite metallic	-	10/100
11185	door bell switch	Graphite metallic	-	10/100
11185B	door bell switch with name card	Graphite metallic	-	10/100
11185C	Push light switch	Graphite metallic	10	10/100

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11215



11375



11215C



11265



11745
11735



11285
112856E



11715



11255



11685



11335

IP20

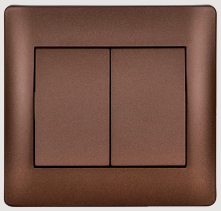
FUNCTIONAL PART "RHYME" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
11215	German type socket	Graphite metallic	16	10/100
11215C	German type socket with cover	Graphite metallic	16	10/100
11375	German type socket (double)	Graphite metallic	16	10/50
11265	Phone socket RJ11	Graphite metallic		10/100
11745	Phone socket RJ11 - double	Graphite metallic		10/100
11735	Phone socket RJ11 + computer socket RJ45	Graphite metallic		10/100
11285	Computer socket (cat5e) RJ45	Graphite metallic		10/100
112856E	Computer socket RJ45 (CAT6e)	Graphite metallic		10/100
11715	Computer socket RJ45 - double	Graphite metallic		10/100
11255	TV socket	Graphite metallic		10/100
11685	TV socket+FM socket + SAT socket *	Graphite metallic		10/100
11335	Key card power switch *	Graphite metallic		10/100

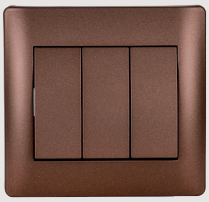
** is not compatible with another decorative frame or frame designed for more than one functional part*
In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



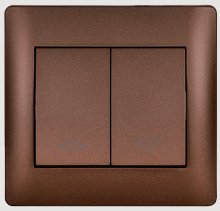
11016
11026
11346



11046
11056



11726



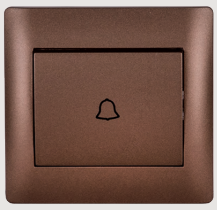
11176A



11416



11196



11186



11186B



11186C

IP20

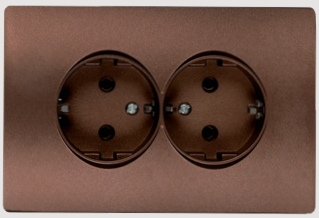
FUNCTIONAL PART "RHYME" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
11016	1 button 1 way switch	Coffee metallic	10	10/100
11026	1 button 2 way switch	Coffee metallic	10	10/100
11346	1 button cross switch	Coffee metallic	10	10/100
11046	2 buttons 1 way switch	Coffee metallic	10	10/100
11056	2 buttons 2 way switch	Coffee metallic	10	10/100
11726	3 buttons 1 way switch	Coffee metallic	10	10/100
11176A	curtain control switch	Coffee metallic	-	10/100
11416	sensor switch	Coffee metallic	-	10/100
11196	dimmer switch	Coffee metallic	-	10/100
11186	door bell switch	Coffee metallic	-	10/100
11186B	door bell switch with name card	Coffee metallic	-	10/100
11186C	Push light switch	Coffee metallic	10	10/100

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11216



11376



11216C



11266



11746
11736



11286
112866E



11716



11256



11686



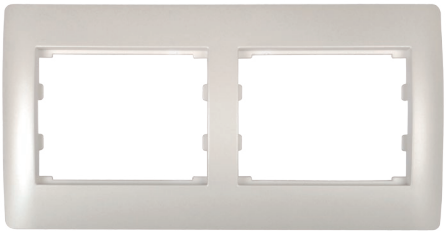
11336

IP20

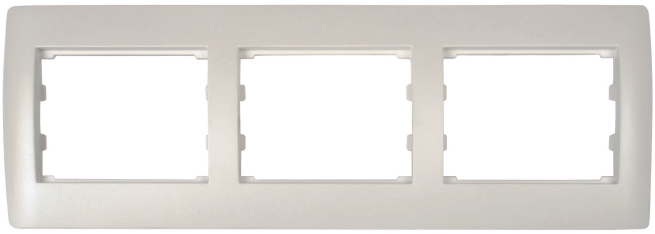
FUNCTIONAL PART "RHYME" SERIES

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
11216	German type socket	Coffee metallic	16	10/100
11216C	German type socket with cover	Coffee metallic	16	10/100
11376	German type socket (double)	Coffee metallic	16	10/50
11266	Phone socket RJ11	Coffee metallic		10/100
11746	Phone socket RJ11 - double	Coffee metallic		10/100
11736	Phone socket RJ11 + computer socket RJ45	Coffee metallic		10/100
11286	Computer socket (cat5e) RJ45	Coffee metallic		10/100
112866E	Computer socket RJ45 (CAT6e)	Coffee metallic		10/100
11716	Computer socket RJ45 - double	Coffee metallic		10/100
11256	TV socket	Coffee metallic		10/100
11686	TV socket+FM socket + SAT socket*	Coffee metallic		10/100
11336	Key card power switch *	Coffee metallic		10/100

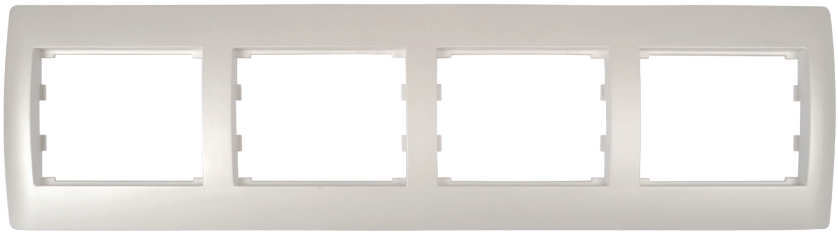
** is not compatible with another decorative frame or frame designed for more than one functional part*
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2 gangs



3 gangs



4 gangs

2 GANGS PANEL "RHYME" SERIES

Catalogue number	Type	Colour
11551	2 gangs	White metallic
11552	2 gangs	Champagne metallic
11554	2 gangs	Grey metallic
11555	2 gangs	Graphite metallic
11556	2 gangs	Coffee metallic

3 GANGS PANELS "RHYME" SERIES

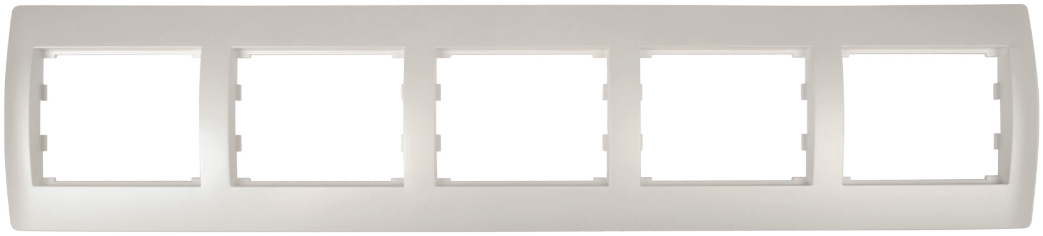
Catalogue number	Type	Colour
11661	3 gangs	White metallic
11662	3 gangs	Champagne metallic
11664	3 gangs	Grey metallic
11665	3 gangs	Graphite metallic
11666	3 gangs	Coffee metallic

4 GANGS PANELS "RHYME" SERIES

Catalogue number	Type	Colour
11361	4 gangs	White metallic
11362	4 gangs	Champagne metallic
11364	4 gangs	Grey metallic
11365	4 gangs	Graphite metallic
11366	4 gangs	Coffee metallic

Packing/Box (pcs): 2 gangs 20/200 | 3 gangs 20/200 | 4 gangs 10/100

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



5 gangs



6 gangs



Outlet safety cap



Wall protector

5 GANGS PANEL "RHYME" SERIES

Catalogue number	Type	Colour
11601	5 gangs	White metallic
11602	5 gangs	Champagne metallic
11604	5 gangs	Grey metallic
11605	5 gangs	Graphite metallic
11606	5 gangs	Coffee metallic

6 GANGS PANELS "RHYME" SERIES

Catalogue number	Type	Colour
11621	6 gangs	White metallic
11622	6 gangs	Champagne metallic
11624	6 gangs	Grey metallic
11625	6 gangs	Graphite metallic
11626	6 gangs	Coffee metallic

OUTLET SAFETY CAP

Catalogue number	Type	Colour
192215	Outlet safety cap	White
192214	Outlet safety cap	Brown
192121/WH	Wall protector	White
192121/TR	Wall protector	Transperent

Packing/Box (pcs): 2 gangs 20/200 | 3 gangs 20/200 | 4 gangs 10/100

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



M030137



M030164

IP20

WATER HEATER SWITCH WITH LIGHT LABEO SERIES

Catalogue number	Type	Voltage (V)	Current (A)	Mounting type	Length (mm)	Height (mm)	Width (mm)	Packing/ Box (pcs)
M030137	LABEO FM	220 AC	25	flush	100	100	50	1
M030164	LABEO SM	220 AC	25	surface	100	100	50	1

2+0 standard +extended 2 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 30 days.



26024



24203



26205

IP20

WATER HEATER SWITCH AND MOUNTING CONSOLE BOXES "LECCE" SERIES

Catalogue number	Type	Colour	Size	Rated current In (A)	Packing/Box (pcs)
26024	boiler switch with neon*	White	3 mod	45	1/60
24203	Console box for brick and concrete	Black	triple		1/300
24205	Console box for plasterboard	Blue	triple	-	1/300

* the product comes without decorative tripple panel

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



191011
191021
191031



191041



191012



191071

IP44

SWITCHES AND SOCKETS

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
191011	1 Gang 1 Way Switch	white	10AX	10/100
191021	1 Gang 2 Way Switch	white	10AX	10/100
191031	1 Gang Intermediate Switch	white	10AX	10/100
191041	2 gangs 1 Way Switch	white	10AX	10/100
191012	German type socket	white	16A	10/100
191071	German type socket- double	white	16A	10/100

5+0 standard +extended 5 YEAR TOTAL WARRANTY

In case of insufficient quantity in stock of any item listed on this page, the delivery time after order confirmation will be 90 days.



191111
191121
191181



191141



191112



191171

IP65

SWITCHES AND SOCKETS

Catalogue number	Type	Colour	Rated current In (A)	Packing/Box (pcs)
191111	1 Gang 1 Way Switch	grey	10AX	10/100
191121	1 Gang 2 Way Switch	grey	10AX	10/100
191141	2 gangs 1 Way Switch	grey	10AX	10/100
191181	1 Gang Push Button Switch	grey	10AX	10/100
191112	German type socket	grey	16A	10/100
191171	German type socket- double	grey	16A	10/100

5+0 standard +extended 5 YEAR TOTAL WARRANTY

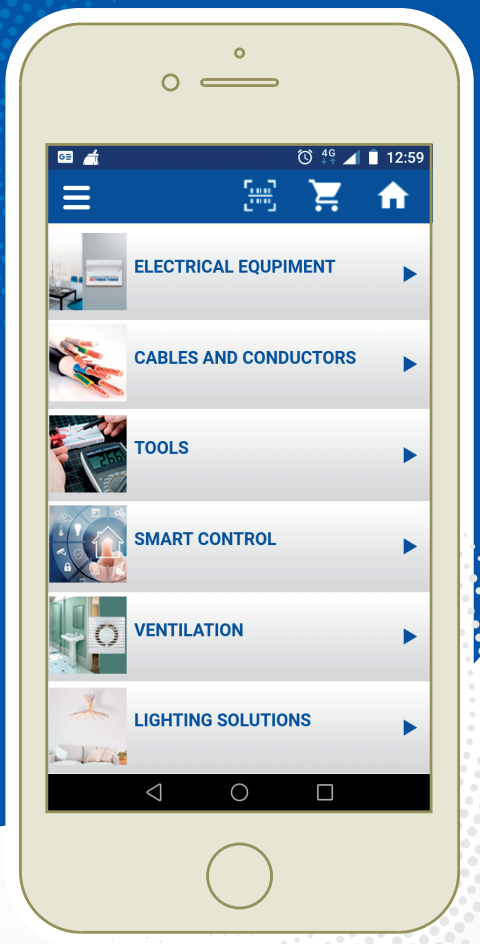
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