

TECHNICAL SPECIFICATION

Miniature circuit breakers (MCB) C100M



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

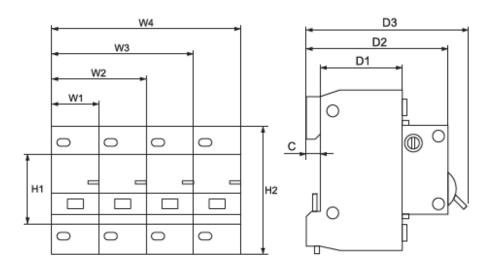
- Rated voltage:230/400V;50/60Hz
- Breaking capacity (cycle O-CO) in accordance with standard EN 60 898-1:10000A
- Rated breaking capacity lcs=75% lcu
- Isolating voltage ≥2000V
- Electrical wear resistance (number of cycles): ≥4000
- Mechanical (number of cycles)≥ 20000
- Class of current limiting:3
- IP code: IP>20
- Tripping 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
- Status indicator
- Heat resistance of internal non-electrical components 850°C / 10s
- Box permittivity strength: > 18MV/m
- Abnormal heating wear resistance and fire of the outer parts: 960°C/3s
- Tightening moment: 1.33Nm
- Power supply (conducting)
 - power supply busbar 1P63A, 2P63A, 3P63A
 - rigid conductor up to 50
 - flexible conductor up to 35
- Maximum current release containing
 - copper coil composition: pure copper T2 type
 - resistance: from 148 to 230m
 - welding effort: <150 000 N/mm
 - bimetal plate composition: TB180/0.5
 - magnetic core composition coldly draw-plated metal wire(1Gr18Ni9)
 - drawing effort: from 20N/mm²
 - thickness: 1.15 to 2.24μm

- dimensions 6x6x1
- contact head of the moveable contact composition silver graphite CAg(5)
- static contact composition: pure copper T2Y2
- composition of the contact head: silver graphite CAg(5)

Mounting

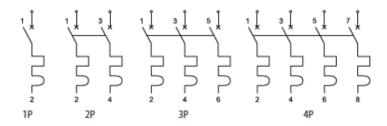
- Vertical
- Din-rail
- Possibility for labeling
- Ambient temperature -5°C to +65°C ±2°C
- For mounting in industrial environment

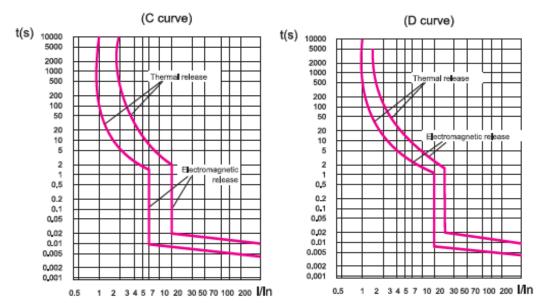
Dimensions



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

Schemes





Products

- C100M - 1P

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

- C100M - 2P

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

- C100M - 3P

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

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

Standarts

EN60898-1:2003

EN60947-2:2006

