

## HIGH BREAKING CAPACITY LEVEL MOULDED CASE CIRCUIT BREAKERS (MCCB)

### DS1 MAX with ELCB



#### Functions:

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.

<b>Technical data:</b>	
<b>Rated operating voltage:</b>	415/690V; 50/60Hz
<b>Rated residual operating current I<math>\Delta</math>n (mA):</b>	100mA; 300mA; 500mA- adjustable
<b>Tripping time I<math>\Delta</math>n:</b>	instantaneous; 0.4s; 1s -adjustable
<b>Max delayed 2 In limit non-actuating time 1s 0.2/0.5</b>	
<b>Isolating voltage:</b>	2000V
<b>Surge voltage wear resistance:</b>	≥8000V
<b>Joining terminal:</b>	flat (tunnel) screw terminal.
<b>Connecting:</b>	<ul style="list-style-type: none"> <li>▪ rigid or flexible conductors</li> <li>▪ front conductors joining</li> <li>▪ possibility for mounting to lengthening terminal</li> </ul>
<b>Plastic elements:</b>	<ul style="list-style-type: none"> <li>▪ Not keeping the burning material nylon PA66</li> <li>▪ Box permittivity strength: &gt;16MV/m</li> </ul>
<b>Abnormal heating wear resistance and fire of the outer parts:</b>	960°C
<b>Static contacts – alloy: pure copper T2Y2</b>	<ul style="list-style-type: none"> <li>▪ contact head: silver graphite CAg (5)</li> <li>▪ thickness: depends on the current</li> </ul>
<b>Electrical wear resistance (number of cycles):</b>	≥10000
<b>Mechanical wear resistance (number of cycles):</b>	≥20000
<b>IP code:</b>	IP>20
<b>Plastic material of UV rays and non- flammable</b>	
<b>Test button</b>	
<b>Residual indicating push button</b>	
<b>Ambient temperature:</b>	-20°÷65°C

## Mounting:

- vertical on a smooth surface using bolts

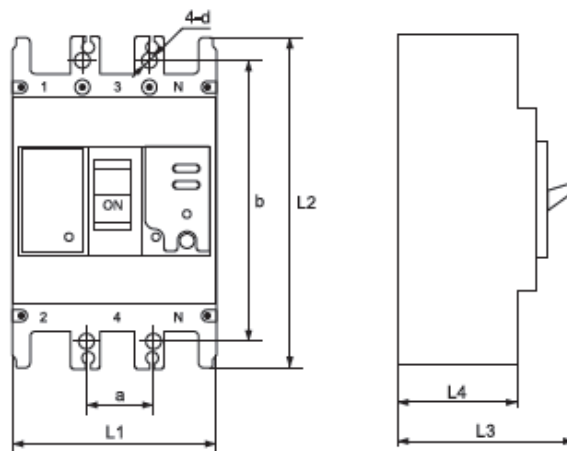
## Advantages:

- Wide range of auxiliary devices for automation
- High breaking capacity level
- Extreme reliability and performance
- High electrical and mechanical wear resistance
- Compact size

## Applications:

- Residential buildings
- Administrative buildings
- Commercial property
- Industrial applications
- Distribution boards

## Dimensions:



Dimensions  
(mm)

Type	L1	L2	L3	L4	a	b	d
DS1 MAX 125/63 3P M	92	150	110	92	30	129	4.5
DS1 MAX 630/630 3P H	150	257	146	106	44	194	7
DS1 MAX 800/800 3P H	150	257	146	106	44	194	7
DS1 MAX 125/63 4P M	122	150	110	92	60	129	4.5
DS1 MAX 630/630 4P H	198	257	146	106	44	194	7
DS1 MAX 800/800 4P H	198	257	146	106	44	194	7

## Basic data:

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

## Standards:

- EN 60947-1
- EN 60947-2

