



MU450A

## MCB 4P 6kA C-50A 4M

### Technical properties

#### Electric current

Rated current	50 A
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	7.50 kA
Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1	6 kA
Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2	10 kA
Rated current -15°C	61.70 A
Rated current -10°C	60.50 A
Rated current -5°C	59.30 A
Rated current at 0°C	58 A
Rated current 5°C	56.80 A
Rated current 10°C	55.50 A
Rated current 15°C	54.20 A
Rated current at 20°C	52.80 A
Rated current 25°C	51.40 A
Rated current 30°C	50 A
Rated current 35°C	48.50 A
Rated current at 40°C	47 A
Rated current at 45°C	45.50 A
Rated current at 50°C	43.80 A
Rated current 55°C	42.10 A
Rated current 60°C	40.40 A
Rated current 65°C	38.90 A
Rated current 70°C	37.20 A

#### Architecture

Type of pole	4P
Curve	C

#### Capacity

Number of modules	4
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#### Installation, mounting

Nominal tightening torque top terminal	2.80 - 2.80 Nm
Nominal tightening torque down terminal	2.80 - 2.80 Nm
Nominal tightening torque	2.80 - 2.80 Nm

Type of bottom connection for modular devices	biconnect
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Type of top connection for modular devices	Screw terminal
360° mounting position possible	Yes
<b>Main electrical attributes</b>	
Rated short-circuit breaking capacity I <sub>cn</sub> AC according to IEC 60898-1	6 kA
<b>Voltage</b>	
Rated operational voltage U <sub>e</sub>	400 - 400 V
Type voltage supply	AC
Rated insulation voltage U <sub>i</sub>	500 V
Rated impulse withstand voltage U <sub>imp</sub>	4,000 V
<b>Frequency</b>	
Frequency	50 - 60 Hz
<b>Connection</b>	
Cross-section of input and output with screws, for massive conductors	1 - 35 mm <sup>2</sup>
Cross-section of input and output with screws, for flexible conductors	1 - 25 mm <sup>2</sup>
Cross-section of input with screws, for flexible conductors	1 - 25 mm <sup>2</sup>
Cross-section of input with screws, for massive conductors	1 - 35 mm <sup>2</sup>
Cross-section flexible conductor	1 - 25 mm <sup>2</sup>
Cross-section rigid conductor	1 - 35 mm <sup>2</sup>
<b>Safety</b>	
Ingress Protection (IP) class	IP20
<b>Use conditions</b>	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Air humidity protection	For all climates
Operating temperature	-25 - 70 °C
<b>Power</b>	
Total power loss under I <sub>N</sub>	19.70 W
<b>Connectivity</b>	
Type of connection	Screw terminal
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal
<b>Dimensions</b>	
Height	83 mm
Width	70 mm
Depth	70 mm