



MCN450A

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	6 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	6 kA
Rated current -15°C	60.9 A
Rated current -10°C	59.8 A
Rated current -5°C	58.6 A
Rated current at 0°C	57.5 A
Rated current 5°C	56.3 A
Rated current 10°C	55.1 A
Rated current 15°C	53.9 A
Rated current at 20°C	52.6 A
Rated current 25°C	51.3 A
Rated current 30°C	50 A
Rated current 35°C	48.5 A
Rated current at 40°C	46.9 A
Rated current at 45°C	45.3 A
Rated current at 50°C	43.6 A
Rated current 55°C	41.9 A
Rated current 60°C	40 A
Rated current 65°C	38.1 A
Rated current 70°C	36.1 A

Architecture

Type of pole	4P
Curve	C

Capacity

Number of modules	4
-------------------	---

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
-----------------------------------------------	-----------

Type of top connection for modular devices	Screw terminal
360° mounting position possible	Yes
Main electrical attributes	
Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	6 kA
Voltage	
Rated operational voltage Ue	400-400 V
Type voltage supply	AC
Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	4,000 V
Frequency	
Frequency	50 - 60 Hz
Connection	
Cross-section of input and output with screws, for massive conductors	1 - 35 mm²
Cross-section of input and output with screws, for flexible conductors	1 - 25 mm²
Cross-section of input with screws, for flexible conductors	1 - 25 mm²
Cross-section of input with screws, for massive conductors	1 - 35 mm²
Safety	
Ingress Protection (IP) class	IP20
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I²t	3
Air humidity protection	For all climates
Operating temperature	-25 - 70 °C
Power	
Total power loss under IN	20.3 W
Connectivity	
Type of connection	Screw terminal
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal
Dimensions	
Height	83 mm
Width	70 mm
Depth	70 mm