



MCN450A

MCB 4P 6kA C-50A 4M

Technical properties

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Architecture	
Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Curve	С
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	4
Connectivity	
Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned terminal
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	230 / 400 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V
Electric current	
Rated current	50 A
Rated service breaking capacity Ics AC according IEC 60898-1	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 ln
Magnetic regulating currrent	5 / 10 In
min/maxi threshold value of the DC magnetic operation	7 / 15 ln
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 ln
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 kA

Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Electric current / temperature Rating current -25°C Rating current -20°C Rating current -15°C	10 k/
Rating current -25°C Rating current -20°C	63.7 /
Rating current -20°C	63.7
Rating current -15°C	62.5
nading carrein 15 C	61.4
Rating current -10°C	60.2
Rating current -5°C	59.1
Rating current 0°C	57.9
Rating current 5°C	56.6
Rating current 10°C	55.4
Rating current 15°C	54.1
Rating current 20°C	52.8
Rating current 25°C	51.4
Rating current 30°C	50
Rating current 35°C	48.5
Rating current 40°C	47
Rating current 45°C	45.4
Rating current 50°C	43.7
Rating current 55°C	42
Rating current 60°C	40.2
Rating current 65°C	38.3
Rating current 70°C	36.3
Current correction factors	
Correction factor of rating current for 2 devices placed side-by-side	
Correction factor of rating current for 3 devices placed side-by-side	0.9
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.
Correction factor of rating current for 6 devices placed side-by-side	0.8
Correction factor of magnetic tripping with 100 Hz	1.
Correction factor of magnetic tripping with 200 Hz	1.
Correction factor of magnetic tripping with 400 Hz	1.
Correction factor of magnetic tripping with 60 Hz	
Dimensions	
Depth of installed product	70 mr
Height of installed product	83 mr
Width of installed product	70 mr
Frequency	
Frequency	50 to 60 H

Power	
Total power loss under IN	19.8 W
Power loss per pole at In	5.2 W
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	20000
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of Bottom Connection for modular devices	Blconnect
Connection	
Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm²
Type of connection	with screw
Standards	
European directive WEEE	concerned
Safety	
Protection index IP	IP20
RoHS conform	Yes
Halogen free	No
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I ² t	3
Altitude	2000 m
Air humidity protection	for all climates

-25...80 °C

Storage/transport temperature