



MU450A

MCB 4P 6kA C-50A 4M

Technical characteristics

Arc	hi	te	cti	ure
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Neutral position	not applicable
Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Fixing mode	Din-Rail
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	400 V
Type of supply voltage	AC
Frequency	50/60
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

under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rating current / temperature Rating current / temperature Rating current -25°C Rating current -20°C Rating current -10°C Rating current -5°C Rating current -5°C Rating current -5°C Rating current 5°C Rating current 5°C Rating current 5°C Rating current 35°C Rating current 35°C Rating current 35°C Rating current 35°C Rating current 30°C Rating current 30°C Rating current 30°C Rating current 30°C Rating current 5°C Rating current 6°C Rating current for 6°C Rating for fact	Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
under 400V AC according IEC60898-1 Rated service breaking capacity Ics AC according IEC6 69947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rating current -25°C Rating current -20°C Rating current -20°C Rating current -10°C Rating current -10°C Rating current -5°C Rating current 0°C Rating current 0°C Rating current 10°C Rating current 10°C Rating current 20°C Rating current 3°C Rating current 40°C Rating current 40°C Rating current 40°C Rating current 5°C Rating current 6°C Rating current for 6°C Rating for 6°C Ra	Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capacity izu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity izu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity izu under 400V AC IEC 60947-2 Rating current / temperature Rating current -25°C Rating current -25°C Rating current -10°C Rating current -10°C Rating current -5°C Rating current -5°C Rating current 5°C Rating current 5°C Rating current 5°C Rating current 10°C So.8 A Rating current 10°C Rating current 10°C So.8 A Rating current 20°C Rating current 35°C Rating current 35°C Rating current 50°C Rating current 60°C Rating current for 3 devices placed side-by-side Correction factor of rating current for 3 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Correction factor of magnetic tripping with 20 Hz Correction factor of magnetic tripping with 20 Hz Correction factor of magnetic tripping with	Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 kA
capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Electric current / temperature Rating current -25°C 64 A Rating current -20°C 62.8 A Rating current -15°C 61.7 A Rating current -15°C 65.5 A Rating current -0°C 88.1 A Rating current 5°C 88.2 A Rating current 5°C 88.3 A Rating current 5°C 88.4 A Rating current 5°C 88.5 A Rating current 5°C 88.6 A Rating current 5°C 88.7 A Rating current 5°C 88.8 A Rating current 6°C 88.9 A Rating current 6°C 88.9 A Rating current for 5°C 88.9 A Rating current for 6°C 88.9	Rated service breaking capacity Ics AC according IEC 60947-2	75 %
Electric current / temperature	Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	10 kA
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200 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with		1.1
400 Hz 1.5 Correction factor of magnetic tripping with	Correction factor of magnetic tripping with 200 Hz	1.2
	Correction factor of magnetic tripping with 400 Hz	1.5
	Correction factor of magnetic tripping with 60 Hz	1
	Dimensions	

Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	70 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	19.7 W
Power loss per pole at In	5.1 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 top rail clip for modular devices	NA
Type of bottom rail clip for modular devices	metallic
Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	No
Bottom removability for modular devices	No
Connection	
Connection cross-sect. flexible conductor	1 / 25mm²
Connection cross-sect. rigid cable	1 / 35mm²
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
Equipment	
With transparent product label holder	No
Standards	
Standard text	IEC 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I²t	3
Altitude	2000 m
Air humidity protection	for all climates