



HMF390T

MCB 3P 10kA C-100A 4.5M

Technical properties

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Connectivity Top connection alignement for modular devices Aligned terminal Bottom connection alignement for modular devices Aligned terminal Bottom 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 IEC 60898-1 10 kA Rated operational voltage Ue 415 V Type of supply voltage AC Frequency 50/60 Hz Voltage Rated insulation voltage Soo V Rated impulse withstand voltage Soo V Electric current Rated current 100 A min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In Magnetic regulating current 100 A Rating current 100 C according to IEC 60947 124 A Rating current 150 C according to IEC 60947 120 A Rating current 200 C according to IEC 60947 120 A Rating current 200 C according to IEC 60947 116 A	Number of protected poles	3
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Rating current 0°C Rating current 5°C Rating current 10°C Rating current 15°C Rating current 20°C Rating current 25°C Rating current 30°C Rating current 30°C Rating current 45°C Rating current 45°C Rating current 55°C	120 A 116 A 112 A 108 A
Rating current 5°C Rating current 10°C Rating current 15°C Rating current 20°C Rating current 25°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 50°C	120 A 116 A 112 A 108 A
Rating current 10°C Rating current 15°C Rating current 20°C Rating current 25°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 55°C	116 A 112 A 108 A
Rating current 15°C Rating current 20°C Rating current 25°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 55°C	112 A 108 A
Rating current 20°C Rating current 25°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 50°C	108 A
Rating current 25°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 50°C	
Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 50°C	104 ^
Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 55°C	104 A
Rating current 40°C Rating current 45°C Rating current 50°C Rating current 55°C	100 A
Rating current 45°C Rating current 50°C Rating current 55°C	96.6 A
Rating current 50°C Rating current 55°C	93.1 A
Rating current 55°C	89.4 A
	85.6 A
Rating current 60°C	81.6 A
	77.5 A
Current correction factors	
Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0.95
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
Correction factor of rating current for 6 devices placed side-by-side	0.85
Dimensions	
Depth of installed product	
Height of installed product	70 mm
Width of installed product	70 mm 90 mm

Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	21.66 W
Power loss per pole at In	7.98 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
Type of top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	with screw
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes
Connection	
Connection cross-section at output with screw, for flexible conductor	1 / 50 mm²
Connection cross-section at output with screw, for massive conductor	1 / 70 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 70 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 50 mm²
Connection cross-section of input and output with screws, for massive conductors	1 / 70 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 50 mm²
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
REACH conform	Yes
RoHS conform	Yes
Halogen free	No
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
Air humidity protection	for all climates
temperatur	
Temperature of calibration	30 °C