

## 100A MCB 10KA 3P TYPE C 4.5M

Similar image (Picture shows HMF399T)

Architecture	
Number of protected poles	3
Number of poles	3 P
Type of pole	3 P
Curve	С
Functions	
Concurrently switching N-neutral	no
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	g 10 kA
Rated operational voltage Ue	415 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V
Electric current	
Rated current	100 A
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 ln
Magnetic regulating currrent	5 / 10 ln
D .:	1011

124 A

120 A

116 A

112 A

108 A

104 A

100 A

96,6 A

Rating current 10°C according to IEC 60947

Rating current 150°C according to IEC 60947

Rating current 20°C according to IEC 60947

Rating current 25°C according to IEC 60947

Rating current 30°C according to IEC 60947

Rating current 35°C according to IEC 60947

Rating current 40°C according to IEC 60947

Rating current 45°C according to IEC 60947

Technical Properties	
Rating current 50°C according to IEC 60947	93,1 A
Rating current 55°C according to IEC 60947	89,4 A
Rating current 60°C according to IEC 60947	85,6 A
Rating current 65°C according to IEC 60947	81,6 A
Rating current 70°C according to IEC 60947	77,5 A
Breaking capacity on 1 pole for IT 400V NF 60947-2	4,5 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2	4,5 kA
Rated short circuit breaking capacity Icn under 230V	10 kA
AC according IEC60898-1	
Rated short circuit breaking capacity Icn under 400V	10 kA
AC according IEC60898-1	
Rated service breaking capacity Ics AC according IEC	75 %
60947-2	
Rated ultimate short-circuit breaking capacity Icu	10 kA
under 230V AC IEC 60947-2	10101
Rated ultimate short-circuit breaking capacity Icu	10 kA
under 240V AC IEC 60947-2	10101
Rated ultimate short-circuit breaking capacity Icu	10 kA
under 400V AC IEC 60947-2	10 104
Rated ultimate short-circuit breaking capacity Icu	10 kA
under 415V AC IEC 60947-2	TORA
under 413V ACIEC 00941-2	
Electric current / temperature	
Rating current 0°C	124 A
Rating current 5°C	120 A
Rating current 10°C	116 A
Rating current 15°C	112 A
Rating current 20°C	108 A
Rating current 25°C	104 A
Rating current 30°C	100 A
Rating current 35°C	96,6 A
Rating current 40°C	93,1 A
Rating current 45°C	89,4 A
Rating current 50°C	85,6 A
Rating current 55°C	81,6 A
Rating current 60°C	77,5 A
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Current correction factors	
Correction factor of rating current for 2 devices placed	11
side-by-side	
Correction factor of rating current for 3 devices placed	1 0,95
side-by-side	
Correction factor of rating current for 4 and 5 devices	0,9
placed side-by-side	
Correction factor of rating current for 6 devices placed	l 0,85
side-by-side	
_	
Frequency	
Frequency	50 to 60 Hz
Power	
<del></del>	01.66.14
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
Dimensions	
Depth of installed product	70 mm
Height of installed product	90 mm
Width of installed product	80 mm
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	3,5 to 5Nm
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
360° product mounting position	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-sect. flexible conductor	50mm²
Connection cross-sect. rigid cable	70mm²
Connection cross-section for rigid conductor,	1 / 70 mm²
upstream terminals with screws	7.450
Connection cross-section of the access with screws, with flexible conductor	
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
Type of connection	terminal with tightening
	compensation system
Nominal tightening torque bottom terminal	3,6 Nm
Nominal tightening torque top terminal	3,6 Nm
Standards	
Standard text	EN 60898-1, IEC 60947-2, AS/NZS 60898-1
European directive WEEE	concerned
Product categories described in the W3E directive	Category 5
2012/19/EU	<u> </u>
Safety	
Protection index IP	IP20
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
Air humidity protection	for all climates
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## Product data sheet HMF390T



## temperatur

Temperature of calibration 30 °C
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