MCB 1P 10kA C-80A 1.5M

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Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	С

Functions

Concurrently switching N-neutral	no	
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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 10 kA IEC60898-1	
Rated operational voltage Ue	240 / 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	A 08
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 ln
Magnetic regulating currrent	5 / 10 ln
Rating current -10°C according to IEC 60947	112 A
Rating current -15°C according to IEC 60947	115 A
Rating current -20°C according to IEC 60947	118 A
Rating current -25°C according to IEC 60947	122 A
Rating current -5°C according to IEC 60947	109 A
Rating current 0°C according to IEC 60947	106 A
Rating current 10°C according to IEC 60947	99,2 A
Rating current 150°C according to IEC 60947	96 A
Rating current 20°C according to IEC 60947	92,8 A
Rating current 25°C according to IEC 60947	89,6 A
Rating current 30°C according to IEC 60947	86,4 A
Rating current 35°C according to IEC 60947	83,2 A
Rating current 40°C according to IEC 60947	80 A
Rating current 45°C according to IEC 60947	77,6 A
Rating current 5°C according to IEC 60947	102 A
Rating current 50°C according to IEC 60947	75,1 A
Rating current 55°C according to IEC 60947	72,6 A
Rating current 60°C according to IEC 60947	70 A
Rating current 65°C according to IEC 60947	67,2 A
Rating current 70°C according to IEC 60947	64,3 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

T. I ID	
Technical Properties Rated short circuit breaking capacity Icn under 230V	10 kA
AC according IEC60898-1	10 KA
Rated short circuit breaking capacity Icn under 400V	10 kA
AC according IEC60898-1	10 KA
Rated service breaking capacity Ics AC according IEC	75 %
60947-2	15 %
Rated ultimate short-circuit breaking capacity Icu	10 kA
under 230V AC IEC 60947-2	TORA
Rated ultimate short-circuit breaking capacity Icu	10 kA
under 240V AC IEC 60947-2	10 101
Rated ultimate short-circuit breaking capacity Icu	10 kA
under 400V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	10 kA
under 415V AC IEC 60947-2	
Electric current / temperature	
Poting ourrent 25°C	115 A
Rating current -25°C Rating current -20°C	112 A
Rating current -15°C	109 A
Rating current -10°C	106 A
Rating current -5°C	102 A
Rating current 0°C	99,2 A
Rating current 5°C	96 A
Rating current 10°C	92,8 A
Rating current 15°C	92,8 A 89,6 A
Rating current 20°C	86,4 A
Rating current 25°C	83,2 A
Rating current 30°C	80 A
Rating current 35°C	77,6 A
Rating current 40°C	75,1 A
Rating current 45°C	72,6 A
Rating current 50°C	70 A
Rating current 55°C	67,2 A
Rating current 60°C	64,3 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	1095
side-by-side	. 0,50
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	1 0.85
side-by-side	.,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	
Frequency	
Frequency	50 to 60 Hz
Power	
1 OHG	
Total power loss under IN	6,18 W
Power loss per pole at In	6,18 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	27 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	
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
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	- 3 - 7 -
20.2, .3, 20	
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 HMF180T



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Temperature of calibration	30 °C