

HMC180

MCB 1P 15kA C-80A 1.5M

Technische Merkmale

Architecture	
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	C

Connectivity

Bottom connection alignement for modular devices	Aligned terminal
Top connection alignement for modular devices	Aligned terminal

Main electrical features

Frequency	50/60 Hz
Rated short circuit breaking capacity Icn AC according IEC60898-1	15 kA
Type of supply voltage	AC
Rated operational voltage Ue	240/415 V

Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V

Electric current

15 kA
15 kA
15 kA
7,5 kA
50 %
4,5 kA
4,5 kA
15 kA
15 kA
15 kA
5/10 ln
1,13/1,45 In

Rating current -20°CRating current 0°CRating current 10°CRating current -10°CRating current 15°CRating current 20°CRating current 25°CRating current -25°CRating current 30°CRating current 35°CRating current 40°CRating current 5°CRating current 50°CRating current 50°CRating current 50°CRating current 50°CRating current 50°CRating current 60°CRating current 10°C according to IEC 60947-2Rating current 10°C according to IEC 60947-2	112 A 99,2 A 92,8 A 106 A 89,6 A 86,4 A 83,2 A 115 A 80 A 77,6 A 75,1 A
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Rating current -5°C Rating current 50°C Rating current 55°C Rating current 60°C Rating current 0°C according to IEC 60947-2	72,6 A
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Rating current 55°C Rating current 60°C Rating current 0°C according to IEC 60947-2	102 A
Rating current 60°C Rating current 0°C according to IEC 60947-2	70 A
Rating current 0°C according to IEC 60947-2	67,2 A
	64,3 A
Rating current 10°C according to IEC 60947-2	106 A
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Rating current -10°C according to IEC 60947-2	112 A
Rating current 150°C according to IEC 60947-2	96 A
Rating current -15°C according to IEC 60947-2	115 A
Rating current 20°C according to IEC 60947-2	92,8 A
Rating current -20°C according to IEC 60947-2	118 A
Rating current 25°C according to IEC 60947-2	89,6 A
Rating current -25°C according to IEC 60947-2	122 A
Rating current 30°C according to IEC 60947-2	86,4 A
Rating current 35°C according to IEC 60947-2	83,2 A
Rating current 40°C according to IEC 60947-2	80 A
Rating current 45°C according to IEC 60947-2	77,6 A
Rating current 5°C according to IEC 60947-2	102 A
Rating current -5°C according to IEC 60947-2	109 A
Rating current 50°C according to IEC 60947-2	75,1 A
Rating current 55°C according to IEC 60947-2	72,6 A
Rating current 60°C according to IEC 60947-2	70 A
Rating current 65°C according to IEC 60947-2	67,2 A
Rating current 70°C according to IEC 60947-2	64,3 A
Current correction factors	
Correction factor of rating current for 2 devices placed side-by-side	

placed side-by-side	
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



Power	
Power loss per pole at In	6,18 V
Total power loss under IN	6,18 W
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	2000
Dimensions	
Depth of installed product	70 mm
Height of installed product	90 mm
Width of installed product	27 mr
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	3,5 to 5Nm
Type of bottom rail clip for modular devices	plasti
Type of top rail clip for modular devices	Plasti
Type of Bottom Connection for modular devices	with screv
Bottom removability for modular devices	ye
Top removability for modular devices	yes
Connection	
Connection cross-section at output with screw, for flexible conductor	1/50 mm
Connection cross-section of the access with screws, with flexible conductor	1/50 mm
Connection cross-section at output with screw, for massive conductor	1/70 mm
Connection cross-section for rigid conductor, upstream terminals with screws	1/70 mm
Connection cross-sect. rigid cable	70mm
Connection cross-sect. flexible conductor	50mm
Nominal tightening torque bottom terminal	3,6 Nn
Nominal tightening torque top terminal	3,6 Nn
Type of connection	terminal with tightening compensation system
Standards	
Standard text	EN 60898-1, IEC 60947-2
European directive WEEE	concerned

Safety

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
Storage temperature	-25 to 80 °C
Air humidity protection	for all climates

temperatur

Temperature of calibration

30 °C