

Product Datasheet

HMC180



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MCB 1P 15kA C-80A 1.5M

Technical Features

Architecture

Type of pole	1P
Curve	C

Voltage

Rated operational voltage U_e	240 - 415 V
Type voltage supply	AC
Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	6000 V

Frequency

Frequency	50 - 60 Hz
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Installation, mounting

Nominal tightening torque	3.5 - 5.0 Nm
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	Screw terminal

Electric current

Rated current	80 A
Rated service breaking capacity I_{cs} AC according to IEC 60898-1	7.50 kA
Rated short-circuit breaking capacity I_{cn} under 230 V AC according to IEC 60898-1	15 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 230 V AC IEC 60947-2	15 kA
Rated current at -20°C	112 A
Rated current -15°C	109 A
Rated current -10°C	106 A
Rated current -5°C	102 A
Rated current at 0°C	99.20 A
Rated current 5°C	96 A
Rated current 10°C	92.80 A
Rated current 15°C	89.60 A
Rated current at 20°C	86.40 A
Rated current 25°C	83.20 A
Rated current 30°C	80 A
Rated current 35°C	77.60 A
Rated current at 40°C	75.10 A
Rated current at 45°C	72.60 A
Rated current at 50°C	70 A
Rated current 55°C	67.20 A
Rated current 60°C	64.30 A

Main electrical attributes

Rated short-circuit breaking capacity I_{cn} AC according to IEC 60898-1	15 kA
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Installation, mounting

Nominal tightening torque down terminal	3.60 - 3.60 Nm
Nominal tightening torque top terminal	3.60 - 3.60 Nm

Power

Total power loss under I_N	6.18 W
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Endurance

Electric endurance in number of cycles	4000
Number of mechanical operations	20000

Connection

Cross-section of input and output with screws, for massive conductors	1 - 70 mm ²
Cross-section of input and output with screws, for flexible conductors	1 - 50 mm ²

Connection	
Cross-section flexible conductor	50 mm²
Cross-section rigid conductor	70 mm²
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Air humidity protection	For all climates
Operating temperature	-25 - 70 °C
Capacity	
Number of modules	1.50
Connectivity	
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal
Dimensions	
Height	90 mm
Width	27 mm
Depth	70 mm
Sustainability	
REACH-SVHC free	Yes
RoHS conform	Yes

Illustrations | Drawings

