



HMB180

MCB 1P 15kA B-80A 1.5M

Technical Features

Electric current

Rated current I_N	80 A
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} AC IEC 60947-2	15 kA
Rated current at -15°C	109 A
Rated current at -10°C	106 A
Rated current at -5°C	102 A
Rated current at 0°C	99.20 A
Rated current at 5°C	96 A
Rated current at 10°C	92.80 A
Rated current at 15°C	89.60 A
Rated current at 20°C	86.40 A
Rated current at 25°C	83.20 A
Rated current at 30°C	80 A
Rated current at 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 at 55°C	67.20 A
Rated current at 60°C	64.30 A

Architecture

Type of pole	1P
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Electric current

Rated service breaking capacity I_{cs} AC according to IEC 60947-2	50 %
Rated service breaking capacity I_{cs} AC according to IEC 60898-1	7.50 kA

Architecture

Curve	B
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Capacity

Number of modules	1.50
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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 top terminal	3.60 - 3.60 Nm
Nominal tightening torque down terminal	3.60 - 3.60 Nm
Nominal tightening torque	3.5 - 5.0 Nm

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

Installation, mounting

Type of bottom connection for modular devices	Screw terminal
Type of top connection for modular devices	Screw terminal
360° mounting position possible	Yes

Safety

Ingress Protection (IP) class	IP20
Grid distance	110 mm

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Air humidity protection	For all climates
Operating temperature	-25 - 70 °C

Power

Power dissipation at IN	6.18 W
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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