



HMB290

MCB 2P 15kA B-100A 3M

Product Datasheet

Architecture

2
2 P
2 P
В

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 IEC60898-1	15 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
Rated service breaking capacity Ics AC according IEC 60898-1	7,5 kA
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 ln
Magnetic regulating currrent	3 / 5 ln
Rating current 10°C according to IEC 60947	124 A
Rating current 150°C according to IEC 60947	120 A
Rating current 20°C according to IEC 60947	116 A
Rating current 25°C according to IEC 60947	112 A
Rating current 30°C according to IEC 60947	108 A
Rating current 35°C according to IEC 60947	104 A
Rating current 40°C according to IEC 60947	100 A
Rating current 45°C according to IEC 60947	96,6 A
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 AC according IEC60898-1	15 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	15 kA
Rated service breaking capacity Ics AC according IEC 60947-2	50 %
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	15 kA
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



Current correction factors	
Correction factor of rating current for 2 devices placed side-by-side	1
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
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	16,33 W
Power loss per pole at In	9,12 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	53 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 1 / 50 mm² flexible conductor 1 / 70 mm² Connection cross-section at output with screw, for massive conductor Connection cross-sect. flexible conductor 50mm² Connection cross-sect. rigid cable 70mm² 1 / 70 mm² Connection cross-section for rigid conductor, upstream terminals with screws Connection cross-section of the access with 1 / 50 mm² screws, with flexible conductor Connection cross-section of input and output with 1 / 70 mm² screws, for massive conductors Connection cross section of access and exit with 1 / 50 mm² screws, for flexible conductor 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** EN 60898-1, IEC 60947-2 Standard text European directive WEEE concerned Product categories described in the W3E directive Category 5 2012/19/EU Safety Protection index IP IP20 **Use conditions** Degree of pollution according to IEC 60664 / IEC 3 60947-2 Altitude 2000 m for all climates Air humidity protection temperatur Temperature of calibration 30 °C