



MCB 4P 15kA C-125A 6M

HMC499

Architecture

Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Curve	C

Connectivity

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

Main electrical features

Frequency	50/60 Hz
Rated short circuit breaking capacity I _{cn} AC according IEC60898-1	15 kA
Type of supply voltage	AC
Rated operational voltage U _e	415 V

Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V

Electric current

Rated ultimate short-circuit breaking capacity I _{cu} under 400V AC IEC 60947-2	15 kA
Rated short circuit breaking capacity I _{cn} under 230V AC according IEC60898-1	15 kA
Rated short circuit breaking capacity I _{cn} under 400V AC according IEC60898-1	15 kA
Rated service breaking capacity I _{cs} AC according IEC 60898-1	7,5 kA
Rated service breaking capacity I _{cs} AC according IEC 60947-2	50 %
Breaking capacity on 1 pole with 400 V NF 60947-2	4,5 kA
Breaking capacity on 1 pole with 415 V NF 60947-2	4,5 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 230V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240V AC IEC 60947-2	15 kA

Technical Properties

Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	15 kA
Magnetic regulating current at 40° C	5/10 In
min/maxi threshold value of the AC thermal operation	1,13/1,45 In

Electric current / temperature

Rating current 30°C	125 A
Rating current 35°C	122 A
Rating current 40°C	119 A
Rating current 45°C	115,7 A
Rating current 50°C	112 A
Rating current 55°C	109,1 A
Rating current 60°C	105,6 A
Rating current 40°C according to IEC 60947-2	125 A
Rating current 45°C according to IEC 60947-2	122 A
Rating current 50°C according to IEC 60947-2	119 A
Rating current 55°C according to IEC 60947-2	115,7 A
Rating current 60°C according to IEC 60947-2	112 A
Rating current 65°C according to IEC 60947-2	109,1 A
Rating current 70°C according to IEC 60947-2	105,6 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

Power

Power loss per pole at In	11,56 W
Total power loss under IN	42,25 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	106 mm

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	plastic
Type of top rail clip for modular devices	Plastic
Type of Bottom Connection for modular devices	with screw
Bottom removability for modular devices	yes
Top removability for modular devices	yes

Connection

Connection cross-section at output with screw, for flexible conductor	1/50 mm ²
Connection cross-section of the access with screws, with flexible conductor	1/50 mm ²
Connection cross-section at output with screw, for massive conductor	1/70 mm ²
Connection cross-section for rigid conductor, upstream terminals with screws	1/70 mm ²
Connection cross-sect. rigid cable	70mm ²
Connection cross-sect. flexible conductor	50mm ²
Nominal tightening torque bottom terminal	3,6 Nm
Nominal tightening torque top terminal	3,6 Nm
Type of connection	terminal with tightening compensation system

Standards

Standard text	EN 60898-1, IEC 60947-2
European directive WEEE	concerned

Safety

Protection index IP	IP20
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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

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Temperature of calibration	30 °C
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