

MCB 2P 3kA C-50A 2M

Architecture

Neutral position	without neutral
Number of poles	2 P
Type of pole	2 P
Fixing mode	Din-Rail
Curve	C

Compatibility

Compatible with DIN rail mounting	yes
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Connectivity

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

Main electrical features

Type of supply voltage	AC
Rated operational voltage Ue	400 V

Voltage

Rated insulation voltage	500 V
Max operating voltage	415 V
Rated impulse withstand voltage	4000 V

Electric current

Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	3 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 -15°C	62,34 A
Rating current -20°C	63,52 A
Rating current 0°C	58,66 A
Rating current 10°C	56,08 A
Rating current -10°C	61,14 A
Rating current 15°C	54,74 A
Rating current 20°C	53,36 A
Rating current 25°C	51,95 A
Rating current -25°C	64,68 A
Rating current 30°C	50 A
Rating current 35°C	48,83 A
Rating current 40°C	47,66 A
Rating current 45°C	46,49 A
Rating current 5°C	57,38 A
Rating current -5°C	59,92 A
Rating current 50°C	45,32 A
Rating current 55°C	44,15 A
Rating current 60°C	42,98 A
Rating current 65°C	41,81 A
Rating current 70°C	40,64 A

Current correction factors

Correction factor of rating current for 2 devices placed 1 side-by-side	
Correction factor of rating current for 3 devices placed 0,95 side-by-side	
Correction factor of rating current for 4 and 5 devices 0,9 placed side-by-side	
Correction factor of rating current for 6 devices placed 0,85 side-by-side	

Power

Power loss per pole at In	4,25 W
Total power loss under IN	8,35 W

Endurance

Electric endurance in number of cycles	10000
Number of mechanical operations	20000

Dimensions

Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	35 mm

Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of bottom rail clip for modular devices	metallic
Type of top rail clip for modular devices	NA
Type of Bottom Connection for modular devices	Blconnect
Bottom removability for modular devices	no
Top removability for modular devices	no

Connection

Upstream cage clamp delivery status	opened
Downstream cage clamp delivery status	opened
Connection cross-section at output with screw, for flexible conductor	1/25 mm ²
Connection cross-section of the access with screws, with flexible conductor	1/25 mm ²
Connection cross-section at output with screw, for massive conductor	1/35 mm ²
Connection cross-section for rigid conductor, upstream terminals with screws	1/35 mm ²
Nominal tightening torque bottom terminal	2,8 Nm
Nominal tightening torque top terminal	2,8 Nm

Standards

Standard text	EN 60898-1
European directive WEEE	not concerned

Safety

Protection index IP	IP20
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Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I ² t	3
Altitude	2000 m
Storage temperature	-25 to 80 °C

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Temperature of calibration	30 °C
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