



MC116A

MCB 1P 6kA C-16A 1M

Technische Merkmale

Architecture

Neutral position	without neutral
Number of poles	1 P
Type of pole	1 P
Fixing mode	DIN rail type O (symmetrical)
Curve	C

Functions

Concurrently switching N-neutral	no
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Compatibility

Compatible with DIN rail mounting	yes
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Connectivity

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

Main electrical features

Rated operational voltage U_e	230 / 400 V
Type of supply voltage	AC

Voltage

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

Electric current

Rated current	16 A
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 I_n
Magnetic regulating current	5 / 10 I_n
Rated short circuit breaking capacity I_{cn} under 230V AC according IEC60898-1	6 kA
Rated short circuit breaking capacity I_{cn} under 400V AC according IEC60898-1	6 kA

Electric current / temperature

Rating current -25°C	22,48 A
Rating current -20°C	21,91 A
Rating current -15°C	21,33 A
Rating current -10°C	20,82 A
Rating current -5°C	20,19 A
Rating current 0°C	19,61 A
Rating current 5°C	19,04 A
Rating current 10°C	18,47 A
Rating current 15°C	17,9 A
Rating current 20°C	17,32 A
Rating current 25°C	16,75 A
Rating current 30°C	16 A
Rating current 35°C	15,6 A
Rating current 40°C	15,03 A
Rating current 45°C	14,46 A
Rating current 50°C	14 A
Rating current 55°C	13,31 A
Rating current 60°C	12,74 A
Rating current 65°C	12,17 A
Rating current 70°C	11,59 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

Maximum power loss per pole according to the product standard	3,5 W
Power loss per pole at In	2,32 W

Endurance

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

Dimensions

Depth of installed product	70 mm
Width of installed product	17,5 mm

Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of Bottom Connection for modular devices	Blconnect
360° product mounting position	yes

Connection

Connection cross-section at output with screw, for 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
Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm ²
Type of connection	with screw
Nominal tightening torque bottom terminal	2,8 Nm
Nominal tightening torque top terminal	2,8 Nm

Equipment

Can be accessorized	no
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Standards

Standard text	IEC 60898-1
European directive WEEE	concerned
Product categories described in the W3E directive 2012/19/EU	Category 5

Safety

Protection index IP	IP20
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Use conditions

Operating temperature	-25...70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I ² t	3
Altitude	2000 m
Storage/transport temperature	-25...80 °C

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Temperature of calibration	30 °C
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