



MSN140

MCB 1P 6kA C-40A 1M

Technical characteristics

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

Configuration

Number of modules	1
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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	240 / 415 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	40 A
Rated service breaking capacity I_{cs} AC according IEC 60898-1	6 kA
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 240V AC according IEC 60898-1	6 kA

Electric current / temperature

Rating current -25°C	53,33 A
Rating current -20°C	52,29 A
Rating current -15°C	51,25 A
Rating current -10°C	50,19 A
Rating current -5°C	49,18 A
Rating current 0°C	48,14 A

Rating current 30°C	41,92 A
Rating current 35°C	40,88 A
Rating current 40°C	40 A
Rating current 45°C	38,8 A
Rating current 50°C	37,63 A
Rating current 55°C	36,73 A
Rating current 60°C	35,69 A
Rating current 65°C	34,65 A
Rating current 70°C	33,62 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
Dimensions	
Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	17,5 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Maximum power loss per pole according to the product standard	7,5 W
Total power loss under IN	4,84 W
Power loss per pole at In	4,84 W
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	20000
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	
Bottom removability for modular devices	
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
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened

Subject to technical modifications

Equipment

Can be accessorized

With transparent product label holder

Standards

Standard text	IEC 60898-1 AS/NZS 60898-1
European directive WEEE	not concerned

Safety

Protection index IP	IP20
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Use conditions

Operating temperature	-25...70 °C
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Degree of pollution according to IEC 60664 / IEC 60947-2	2
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Class of energy limitation I ² t	3
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Altitude	2000 m
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Storage/transport temperature	-25...80 °C
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Temperature of calibration	40 °C
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