



MSN310



MCB 3P 6kA C-10A 3M

Technical characteristics

Architecture

Neutral position	without neutral
Number of poles	3 P
Type of pole	3 P
Fixing mode	DIN rail type O (symmetrical)
Curve	C

Functions

Concurrently switching N-neutral

Configuration

Number of modules	3
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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 Ue	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	10 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 415V AC according IEC 60898-1	6 kA

Electric current / temperature

Rating current -25°C	12,73 A
Rating current -20°C	12,5 A
Rating current -15°C	12,28 A
Rating current -10°C	12,04 A
Rating current -5°C	11,81 A
Rating current 0°C	11,57 A
Rating current 30°C	10 A
Rating current 35°C	9,71 A
Rating current 40°C	9,42 A

Rating current 45°C	9,12 A
Rating current 50°C	8,8 A
Rating current 55°C	8,48 A
Rating current 60°C	8,14 A
Rating current 65°C	7,78 A
Rating current 70°C	7,41 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
Width of installed product	52,5 mm
Power	
Maximum power loss per pole according to the product standard	3 W
Power loss per pole at In	1,54 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
Type of connection	with screw
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

Use conditions

Operating temperature

-25...70 °C

Degree of pollution according to IEC 60664 /
IEC 60947-2

2

Class of energy limitation I²t

3

Altitude

2000 m

Storage/transport temperature

-25...80 °C

temperatur

Temperature of calibration

30 °C