MCN100

MCB 1P 6kA C-0.5A 1M

Technical properties

Architecture

Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	C

Functions

Concurrently switching N-neutral	No

Configuration

Number of modules	1

Connectivity

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

Main electrical features

Rated operational voltage Ue	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	0.5 A
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
Magnetic regulating currrent	5 / 11 In
min/maxi threshold value of the DC magnetic operation	7 / 15 In
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 In
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	10 kA

Electric current / temperature

Rating current -25°C	0.7 A

Rating current -20°C	0.7 A
Rating current -15°C	0.7 A
Rating current -10°C	0.7 A
Rating current -5°C	0.7 A
Rating current 0°C	0.6 A
Rating current 5°C	0.6 A
Rating current 10°C	0.6 A
Rating current 25°C	0.6 A
Rating current 30°C	0.5 A
Rating current 35°C	0.5 A
Rating current 40°C	0.5 A
Rating current 45°C	0.5 A
Rating current 50°C	0.5 A
Rating current 55°C	0.5 A
Rating current 60°C	0.4 A
Rating current 65°C	0.4 A
Rating current 70°C	0.4 A

Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	0.8
Correction factor of rating current for 3 devices placed side-by-side	8
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.7
Correction factor of rating current for 6 devices placed side-by-side	0.6
Correction factor of magnetic tripping with 100 Hz	1.1
Correction factor of magnetic tripping with 200 Hz	1.2
Correction factor of magnetic tripping with 400 Hz	1.5
Correction factor of magnetic tripping with 60 Hz	1

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	3 W
Total power loss under IN	9999 W
Power loss per pole at In	0.1 W

Tripping

Time of response when opening	7 ms

Endurance

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

Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of top rail clip for modular devices	NA
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	BIconnect
Top removability for modular devices	No
Bottom removability for modular devices	Yes
Suitable for flush-mounting	Yes

Connection

Connection cross-section at output with screw, for flexible conductor	1 / 16 mm²
Connection cross-section at output with screw, for massive conductor	1 / 25 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm²

Equipment

Can be accessorized	No

Standards

Standard text	EN 60898-1
European directive WEEE	not concerned

Safety

REACH conform	No
RoHS conform	Yes
Halogen free	No

Use conditions

Operating temperature	-25…60 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Class of energy limitation I^2t	3
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-25…80 °C