MDN106P

MCB 1P 6kA D-6A 1M

Technical properties

Architecture

Neutral position	without neutral
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	D

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	240 / 415 V
Type of supply voltage	AC

Voltage

Rated insulation voltage	500 V
Max operating voltage	440 V
Rated impulse withstand voltage	4000 V
Minimum threshold voltage (Ue min)	12 V

Electric current

Rated current	6 A
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
Magnetic regulating currrent	10 / 15 In
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	6 kA
Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1	6 kA

Electric current / temperature	
Rating current -25°C	7.51 A
Rating current -20°C	7.39 A
Rating current -15°C	7.26 A
Rating current -10°C	7.13 A
Rating current -5°C	7 A
Rating current 0°C	6.87 A
Rating current 5°C	6.73 A
Rating current 10°C	6.59 A
Rating current 25°C	6.15 A
Rating current 30°C	6 A
Rating current 35°C	5.84 A
Rating current 40°C	5.68 A
Rating current 45°C	5.52 A
Rating current 50°C	5.35 A
Rating current 55°C	5.17 A
Rating current 60°C	4.99 A
Rating current 65°C	4.8 A
Rating current 70°C	4.6 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
Correction factor of magnetic tripping with 100 Hz	1.2
Correction factor of magnetic tripping with 200 Hz	1.4
Correction factor of magnetic tripping with 400 Hz	1.8
Correction factor of magnetic tripping with 60 Hz	1.1

Dimensions	
Depth of installed product	70 mm
Height of installed product	84.6 mm
Width of installed product	17.7 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	1.31 W
Power loss per pole at In	1.31 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 top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	BIconnect
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes
Suitable for flush-mounting	Yes

Connection

Connection cross-section at output with screw, for flexible conductor	1 / 25 mm²
Connection cross-section at output with screw, for massive conductor	1 / 35 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 35 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm²
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened

Equipment

Can be accessorized	Yes

Standards

Standard text	EN 60898-1 ; AS/NZS 60898-1

Safety

Halogen free	No

Use conditions

Operating temperature	-25…70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Altitude	2000 m
Air humidity protection	95% / 55°C
Storage/transport temperature	-25…80 °C

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Temperature of calibration	30 °C