



MCN110



MCB 1P 6kA C-10A 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 alignment for modular devices | Aligned terminal |
| Bottom connection alignment for modular devices | Aligned terminal |

Main electrical features

| | |
|--|-------------|
| Rated short circuit breaking capacity I_{cn} AC according IEC60898-1 | 6 kA |
| Rated operational voltage U_e | 230 / 400 V |
| Type of supply voltage | AC |
| Frequency | 50/60 Hz |

Voltage

| | |
|---------------------------------|--------|
| Rated insulation voltage | 500 V |
| Rated impulse withstand voltage | 4000 V |

Electric current

| | |
|---|-------------------|
| Rated current | 10 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 ultimate short-circuit breaking capacity I_{cu} under 230V AC IEC 60947-2 | 6 kA |

Electric current / temperature

| | |
|----------------------|--------|
| Rating current -25°C | 13.4 A |
|----------------------|--------|

| | |
|----------------------|---------|
| Rating current -20°C | 13.1 A |
| Rating current -15°C | 12.8 A |
| Rating current -10°C | 12.54 A |
| Rating current -5°C | 12.21 A |
| Rating current 0°C | 11.91 A |
| Rating current 5°C | 11.61 A |
| Rating current 10°C | 11.31 A |
| Rating current 15°C | 11.01 A |
| Rating current 20°C | 10.72 A |
| Rating current 25°C | 10.42 A |
| Rating current 30°C | 10 A |
| Rating current 35°C | 9.82 A |
| Rating current 40°C | 9.52 A |
| Rating current 45°C | 9.22 A |
| Rating current 50°C | 9 A |
| Rating current 55°C | 8.63 A |
| Rating current 60°C | 8.33 A |
| Rating current 65°C | 8.03 A |
| Rating current 70°C | 7.73 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 | 1.1 |
| 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

| | |
|---------------------------|--------|
| Total power loss under IN | 1.63 W |
| Power loss per pole at In | 1.63 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 Connection for modular devices Blconnect

Connection

Connection cross-sect. flexible conductor 1 / 25mm²

Connection cross-sect. rigid cable 1 / 35mm²

Connection cross-section of input and output with screws, for massive conductors 1 / 35 mm²

Connection cross section of access and exit with screws, for flexible conductor 1 / 25 mm²

Type of connection with screw

Standards

Standard text EN 60898-1

Safety

REACH conform No

RoHS conform Yes

Halogen free No

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

Air humidity protection for all climates

Storage/transport temperature -25...80 °C

Identification

Aesthetic for B.G. Protection devices PD