MCB 1P 10kA C-100A 1.5M

Architecture

| Number of protected poles | 1 | |
|---------------------------|-----|--|
| Number of poles | 1 P | |
| Type of pole | 1 P | |
| Curve | С | |

no

Functions

Concurrently switching N-neutral

Connectivity

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

Main electrical features

| Rated short circuit breaking capacity Icn AC according 10 kA IEC60898-1 | | |
|--|-------------|--|
| Rated operational voltage Ue | 240 / 415 V | |
| Type of supply voltage | AC | |
| Frequency | 50/60 Hz | |
| | | |

Voltage

| Rated insulation voltage | 500 V |
|---------------------------------|--------|
| Rated impulse withstand voltage | 6000 V |

Electric current

| Rated current | 100 A |
|--|----------------|
| min/maxi threshold value of the AC thermal operation | 1,13 / 1,45 ln |
| Magnetic regulating currrent | 5 / 10 ln |
| Rating current 10°C according to IEC 60947 | 124 A |
| Rating current 150°C according to IEC 60947 | 120 A |
| Rating current 20°C according to IEC 60947 | 116 A |
| Rating current 25°C according to IEC 60947 | 112 A |
| Rating current 30°C according to IEC 60947 | 108 A |
| Rating current 35°C according to IEC 60947 | 104 A |
| Rating current 40°C according to IEC 60947 | 100 A |
| Rating current 45°C according to IEC 60947 | 96,6 A |
| Rating current 50°C according to IEC 60947 | 93,1 A |
| Rating current 55°C according to IEC 60947 | 89,4 A |
| Rating current 60°C according to IEC 60947 | 85,6 A |
| Rating current 65°C according to IEC 60947 | 81,6 A |
| Rating current 70°C according to IEC 60947 | 77,5 A |
| Breaking capacity on 1 pole for IT 400V NF 60947-2 | 4,5 kA |
| Breaking capacity on 1 pole for IT 415V NF 60947-2 | 4,5 kA |
| Rated short circuit breaking capacity Icn under 230V | 10 kA |
| AC according IEC60898-1 | |
| Rated short circuit breaking capacity Icn under 400V | 10 kA |
| AC according IEC60898-1 | |
| Rated service breaking capacity Ics AC according IEC | 75 % |
| 60947-2 | |
| Rated ultimate short-circuit breaking capacity Icu | 10 kA |
| under 230V AC IEC 60947-2 | |
| | |

| Technical Properties | |
|--|-------|
| Rated ultimate short-circuit breaking capacity Icu | 10 kA |
| under 240V AC IEC 60947-2 | |
| Rated ultimate short-circuit breaking capacity Icu | 10 kA |
| under 400V AC IEC 60947-2 | |
| Rated ultimate short-circuit breaking capacity Icu | 10 kA |
| under 415V AC IEC 60947-2 | |

Electric current / temperature

| Rating current 0°C | 124 A |
|---------------------|--------|
| Rating current 5°C | 120 A |
| Rating current 10°C | 116 A |
| Rating current 15°C | 112 A |
| Rating current 20°C | 108 A |
| Rating current 25°C | 104 A |
| Rating current 30°C | 100 A |
| Rating current 35°C | 96,6 A |
| Rating current 40°C | 93,1 A |
| Rating current 45°C | 89,4 A |
| Rating current 50°C | 85,6 A |
| Rating current 55°C | 81,6 A |
| Rating current 60°C | 77,5 A |
| | |

Current correction factors

| Correction factor of rating current for 2 devices placed 1 side-by-side |
|---|
| Correction factor of rating current for 3 devices placed 0,95 side-by-side |
| Correction factor of rating current for 4 and 5 devices 0,9 placed side-by-side |
| Correction factor of rating current for 6 devices placed 0,85 side-by-side |
| |

Frequency

| Frequency | 50 to 60 Hz |
|-----------|-------------|
| | |

Power

| Total power loss under IN | 6,48 W |
|---------------------------|--------|
| Power loss per pole at In | 6,48 W |

Endurance

| Electric endurance in number of cycles | 4000 |
|--|-------|
| Number of mechanical operations | 20000 |

Dimensions

| Depth of installed product | 70 mm |
|-----------------------------|-------|
| Height of installed product | 90 mm |
| Width of installed product | 27 mm |

Installation, mounting

| Type of top connection for modular devices | with screw |
|---|------------|
| Tightening torque | 3,5 to 5Nm |
| 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 | with screw |

| Top removability for modular devices | yes |
|---|---|
| Bottom removability for modular devices | yes |
| 360° product mounting position | yes |
| Connection | |
| Connection cross-section at output with screw, for flexible conductor | 1 / 50 mm² |
| Connection cross-section at output with screw, for massive conductor | 1 / 70 mm² |
| Connection cross-sect. flexible conductor | 50mm² |
| Connection cross-sect. rigid cable | 70mm² |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 70 mm² |
| Connection cross-section of the access with screws, with flexible conductor | 1 / 50 mm² |
| Connection cross-section of input and output with screws, for massive conductors | 1 / 70 mm² |
| Connection cross section of access and exit with screws, for flexible conductor | 1 / 50 mm² |
| Type of connection | terminal with tightening |
| | compensation system |
| Nominal tightening torque bottom terminal | 3,6 Nm |
| Nominal tightening torque top terminal | 3,6 Nm |
| Standards | |
| Standard text | EN 60898-1, IEC 60947-2, AS/NZ 60898-1 |
| European directive WEEE | concerned |
| Product categories described in the W3E directive 2012/19/EU | Category 5 |
| Safety | |
| Protection index IP | IP20 |
| Use conditions | |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |
| | 2000 m |
| Altitude | |
| Altitude Air humidity protection | for all climates |
| | for all climates |
| Air humidity protection | for all climates 30 °C |