

RCBO 1M 1P 10kA C-40A 100mA AC

Technische Merkmale

Architecture

| | |
|---------------------------|----------|
| Neutral position | right |
| Number of protected poles | 1 |
| Number of poles | 1 P |
| Type of pole | 1 P |
| Fixing mode | Din-Rail |
| Curve | C |

Compatibility

| | |
|-----------------------------------|-----|
| Compatible with DIN rail mounting | yes |
|-----------------------------------|-----|

Controls and indicators

| | |
|----------------------|----|
| With fault indicator | no |
|----------------------|----|

Main electrical features

| | |
|---|-----------|
| Frequency | 50/60 Hz |
| Rated short circuit breaking capacity Icn AC according IEC60898-1 | 10 kA |
| Rated operational voltage Ue | 230/240 V |

Voltage

| | |
|---------------------------------|--------|
| Rated insulation voltage | 250 V |
| Max operating voltage | 253 V |
| Rated impulse withstand voltage | 4000 V |

Electric current

| | |
|--|--------------|
| Rated residual operating current | 100 mA |
| Withstand not tripping on 8-20 µs wave | 3 kA |
| Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 | 10 kA |
| Breaking and opening capacity | 6 kA |
| Magnetic regulating current at 40° C | 5/10 In |
| min/maxi threshold value of the AC thermal operation | 1,13/1,45 In |

Electric current / temperature

| | |
|----------------------|---------|
| Rating current -15°C | 49,23 A |
| Rating current -20°C | 50,25 A |
| Rating current 0°C | 46,15 A |
| Rating current 10°C | 44,1 A |
| Rating current -10°C | 48,2 A |
| Rating current 15°C | 43,08 A |
| Rating current 20°C | 42,05 A |
| Rating current 25°C | 41,03 A |
| Rating current -25°C | 51,28 A |
| Rating current 30°C | 40 A |
| Rating current 35°C | 39,1 A |
| Rating current 40°C | 38,2 A |
| Rating current 45°C | 37,3 A |
| Rating current 5°C | 45,13 A |
| Rating current -5°C | 47,18 A |
| Rating current 50°C | 36,4 A |
| Rating current 55°C | 35,5 A |
| Rating current 60°C | 34,6 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 |

Power

| | |
|---------------------------|---------|
| Power loss per pole at In | 6,72 W |
| Total power loss under IN | 12,96 W |

Tripping

| | |
|-------------------------------------|----|
| Protected against nuisance tripping | no |
|-------------------------------------|----|

Endurance

| | |
|--|------|
| Electric endurance in number of cycles | 2000 |
| Number of mechanical operations | 1000 |

Dimensions

| | |
|-----------------------------|---------|
| Depth of installed product | 70 mm |
| Height of installed product | 110 mm |
| Width of installed product | 17,8 mm |

Installation, mounting

| | |
|--|-------------------|
| Tightening torque | 2,1Nm |
| Type of bottom rail clip for modular devices | metallic isolated |
| Type of top rail clip for modular devices | NA |
| Bottom removability for modular devices | no |
| Top removability for modular devices | no |

Connection

| | |
|--|----------------------|
| Connection cross-section at output with screw, for flexible conductor | 1/16 mm ² |
| Connection cross-section of the access with screws, with flexible conductor | 1/16 mm ² |
| Connection cross-section at output with screw, for massive conductor | 1/25 mm ² |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1/25 mm ² |

Standards

| | |
|-------------------------|---------------|
| Standard text | IEC 61009-1 |
| European directive WEEE | not concerned |

Safety

| | |
|-----------------------|------|
| Protection index IP | IP20 |
| Residual current type | AC |

Use conditions

| | |
|--|--------------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Class of energy limitation I ² t | 3 |
| Altitude | 2000 m |
| Air humidity protection | Execution II |