



NT120C

MCB 1P 10kA C-20A 1M

Technical characteristics

Architecture

| | |
|---------------------------|-------------------------------|
| Number of protected poles | 1 |
| Number of poles | 1 P |
| Type of pole | 1 P |
| Fixing mode | DIN rail type O (symmetrical) |
| Curve | C |

Functions

Concurrently switching N-neutral

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 | 10 kA |
| Rated operational voltage U_e | 240 / 415 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 | 20 A |
| Rated service breaking capacity I_{cs} AC according IEC 60898-1 | 7,5 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 | 10 kA |
| Rated short circuit breaking capacity I_{cn} under 240V AC according IEC 60898-1 | 10 kA |

Electric current / temperature

| | |
|----------------------|--------|
| Rating current -25°C | 23,8 A |
| Rating current -20°C | 23,5 A |
| Rating current -15°C | 23,2 A |
| Rating current -10°C | 22,8 A |

| | |
|---|-------------------|
| Rating current -5°C | 22,5 A |
| Rating current 0°C | 22,2 A |
| Rating current 30°C | 20 A |
| Rating current 35°C | 19,6 A |
| Rating current 40°C | 19,2 A |
| Rating current 45°C | 18,8 A |
| Rating current 50°C | 18,4 A |
| Rating current 55°C | 18 A |
| Rating current 60°C | 17,6 A |
| Rating current 65°C | 17,2 A |
| Rating current 70°C | 16,8 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 | 2,7 W |
| Power loss per pole at In | 2,7 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 | NA |
| Type of bottom rail clip for modular devices | metallic isolated |
| Type of Bottom Connection for modular devices | Blconnect |
| Top removability for modular devices | |
| Bottom removability for modular devices | |
| Connection | |

| | |
|--|-------------------------------|
| Connection cross-section of input and output with screws, for massive conductors | 1 / 35 mm ² |
| Connection cross section of access and exit with screws, for flexible conductor | 1 / 25 mm ² |
| Type of connection | with screw |
| Standards | |
| Standard text | IEC 60898-1 AS/NZS 60898-1 |
| Safety | |
| Protection index IP | IP20 |
| Use conditions | |
| Operating temperature | -25...70 °C |
| 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 | for all climates |
| Storage/transport temperature | -25...80 °C |