

MCB 1P 10kA C-20A 1M

NC120A

Architecture

| Number of protected poles | 1 |
|--|------------------|
| Number of poles | 1 P |
| Type of pole | 1 P |
| Curve | С |
| Connectivity | |
| Bottom connection alignement for modular devices | Aligned terminal |
| Top connection alignement for modular devices | Aligned terminal |
| Main electrical features | |
| Frequency | 50/60 Hz |
| Rated short circuit breaking capacity Icn AC according IEC60898-1 | g 10 kA |
| Type of supply voltage | AC |
| Rated operational voltage Ue | 230/400 V |
| Voltage | |
| Rated insulation voltage | 500 V |
| Rated impulse withstand voltage | 4000 V |
| Electric current | |
| Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 | 10 kA |
| Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 | 10 kA |
| Rated service breaking capacity Ics AC according IEC 60898-1 | 7,5 kA |
| Breaking capacity on 1 pole with 400 V NF 60947-2 | 3 kA |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 10 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 10 kA |
| Magnetic regulating currrent at 40° C | 5/10 ln |
| min/maxi threshold value of the DC magnetic | 7/15 ln |

min/maxi threshold value of the AC thermal operation 1,13/1,45 In

| Technical Properties min/maxi threshold value of the DC thermal operation 1,13/1,45 In | | | |
|--|---------|--|--|
| Electric current / temperature | | | |
| Rating current -15°C | 23,2 A | | |
| Rating current -20°C | 23,5 A | | |
| Rating current 0°C | 22,2 A | | |
| Rating current 10°C | 21,5 A | | |
| Rating current -10°C | 22,8 A | | |
| Rating current 15°C | 21,1 A | | |
| Rating current 20°C | 20,7 A | | |
| Rating current 25°C | 20,4 A | | |
| Rating current -25°C | 23,8 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 5°C | 21,8 A | | |
| Rating current -5°C | 22,5 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 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 | | |
| Correction factor of rating current for 2 devices placed | l 1 | | |
| side-by-side | | | |
| Correction factor of rating current for 3 devices placed | 10,95 | | |
| side-by-side Correction factor of rating current for 4 and 5 devices | 0.0 | | |
| placed side-by-side | 0,9 | | |
| Correction factor of rating current for 6 devices placed | 10.85 | | |
| side-by-side | . 0,00 | | |
| Power | | | |
| Power loss per pole at In | 2,7 W | | |
| Total power loss under IN | 2,7 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 | 83 mm | | |
| Width of installed product | 17,5 mm | | |
| | | | |

Installation, mounting

| Type of top connection for modular devices | with screw |
|---|------------|
| Tightening torque | 2,8Nm |
| Type of bottom rail clip for modular devices | metallic |
| Type of top rail clip for modular devices | NA |
| Type of Bottom Connection for modular devices | Blconnect |
| Bottom removability for modular devices | no |
| Top removability for modular devices | no |

Connection

| Connection cross-sect. rigid cable | 1 / 35mm² |
|--|------------|
| Connection cross-sect. flexible conductor | 1 / 25mm² |
| Type of connection | with screw |
| Connection cross section of access and exit with screws, for flexible conductor | 1/25 mm² |
| Connection cross-section of input and output with screws, for massive conductors | 1/35 mm² |

Standards

| Standard text | EN 60898-1 |
|-------------------------|------------|
| European directive WEEE | concerned |

Safety

| Protection index IP | IP20 | |
|---------------------|------|--|

Use conditions

| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
|--|------------------|
| Operating temperature | -25 70 °C |
| Class of energy limitation I ² t | 3 |
| Altitude | 2000 m |
| Storage temperature | -25 to 80 °C |
| Air humidity protection | for all climates |
| Storage/transport temperature | -25 80 °C |