



NDN110A



MCB 1P 10kA/15kA D-10A 1M

Technical characteristics

| Arc | -hi | +~ | ct. | IFO |
|-----|-----|----|-----|-----|
| | | | | |

| Architecture | |
|---|------------------|
| Neutral position | without neutral |
| Number of protected poles | 1 |
| Number of poles | 1 P |
| Type of pole | 1 P |
| Curve | D |
| Functions | |
| Concurrently switching N-neutral | No |
| Configuration | |
| Number of modules | 1 |
| 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 IEC60898-1 | 10 kA |
| Rated operational voltage Ue | 230 / 400 V |
| Type of supply voltage | AC |
| Voltage | |
| Rated insulation voltage | 500 V |
| Rated impulse withstand voltage | 6000 V |
| Minimum threshold voltage (Ue min) | 12 V |
| Electric current | |
| Rated current | 10 A |
| Rated service breaking capacity Ics AC according IEC 60898-1 | 7.5 kA |
| min/maxi threshold value of the AC thermal operation | 1.13 / 1.45 ln |
| Magnetic regulating currrent | 10 / 14.4 In |
| min/maxi threshold value of the DC magnetic operation | 15 / 30 ln |
| min/maxi threshold value of the DC thermal operation | 1.13 / 1.45 ln |
| Rating current -10°C according to IEC 60947 | 13.92 A |

| Rating current -15°C according to IEC 60947 | 14.2 A |
|--|----------------------------|
| Rating current -20°C according to IEC 60947 | 14.47 A |
| Rating current -25°C according to IEC 60947 | 14.74 A |
| Rating current -5°C according to IEC 60947 | 13.64 A |
| Rating current 0°C according to IEC 60947 | 13.35 A |
| Rating current 10°C according to IEC 60947 | 12.75 A |
| Rating current 15°C according to IEC 60947 | 12.44 A |
| Rating current 20°C according to IEC 60947 | 12.12 A |
| Rating current 25°C according to IEC 60947 | 11.79 A |
| Rating current 30°C according to IEC 60947 | 11.46 A |
| Rating current 35°C according to IEC 60947 | 11.11 A |
| Rating current 40°C according to IEC 60947 | 10.75 A |
| Rating current 45°C according to IEC 60947 | 10.38 A |
| Rating current 5°C according to IEC 60947 | 13.05 A |
| Rating current 50°C according to IEC 60947 | 10 A |
| Rating current 55°C according to IEC 60947 | 9.6 A |
| Rating current 60°C according to IEC 60947 | 9.19 A |
| Rating current 65°C according to IEC 60947 | 8.75 A |
| Rating current 70°C according to IEC 60947 | 8.29 A |
| Rated short circuit breaking capacity Icn | 0.23 /. |
| under 230V AC according IEC60898-1 | 10 kA |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 15 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 15 kA |
| Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1 | 10 kA |
| Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 | 15 kA |
| Electric current / temperature | |
| Rating current -25°C | 12.86 A |
| Rating current -20°C | 12.63 A |
| Rating current -15°C | 12.39 A |
| Rating current -10°C | 12.15 A |
| Rating current -5°C | 11.9 A |
| Rating current 0°C | 11.65 A |
| Rating current 5°C | 11.39 A |
| Rating current 10°C | 11.13 A |
| Rating current 25°C | 10.29 A |
| Rating current 30°C | 10 A |
| Rating current 35°C | 9.7 A |
| | 9.39 A |
| Rating current 40°C | 5.55 /- |
| Rating current 40°C Rating current 45°C | |
| | 9.06 A |
| Rating current 45°C | 9.06 A 8.73 A 8.38 A |

| Rating current 65°C | 7.64 A |
|--|-------------|
| Rating current 70°C | 7.24 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 | 1.1 |
| 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 | |
| Maximum power loss per pole according to | |
| the product standard | 3 W |
| Total power loss under IN | 1.87 W |
| Power loss per pole at In | 1.87 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 | plastic |
| Type of Bottom Connection for modular devices | Blconnect |
| Top removability for modular devices | Yes |
| Bottom removability for modular devices | Yes |
| Suitable for flush-mounting | Yes |
| Connection | |
| | |
| Connection cross-section at output with screw, for flexible conductor | 1 / 25 mm² |

| Connection cross-section at output with | _ |
|---|--------------------------|
| screw, for massive conductor | 1 / 35 mm² |
| Connection cross-section for rigid | |
| conductor, upstream terminals with screws | 1 / 35 mm² |
| Connection cross-section of the access with | |
| screws, with flexible conductor | 1 / 25 mm² |
| Downstream cage clamp delivery status | opened |
| Upstream cage clamp delivery status | opened |
| Equipment | |
| Can be accessorized | Yes |
| Standards | |
| Standard text | EN 60898-1 ; IEC 60947-2 |
| Safety | |
| Halogen free | No |
| | |
| Use conditions | |
| Use conditions Operating temperature | -2570 °C |
| | -2570 °C |
| Operating temperature Degree of pollution according to IEC 60664 / | |
| Operating temperature Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Operating temperature Degree of pollution according to IEC 60664 / IEC 60947-2 Altitude | 2 2000 m |