



NDN302A



MCB 3P 10kA/15kA D-2A 3M

Technical properties

| Arc | hi | tec | tu | re |
|-----|----|-----|----|----|
|-----|----|-----|----|----|

| Neutral position | without neutral |
|---|------------------|
| Number of protected poles | 3 |
| Number of poles | 3 P |
| Type of pole | 3 P |
| Curve | D |
| Functions | |
| Concurrently switching N-neutral | No |
| Configuration | |
| Number of modules | 3 |
| 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 | 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 | 2 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 In |
| min/maxi threshold value of the DC thermal operation | 1.13 / 1.45 ln |
| Rating current -10°C according to IEC 60947 | 2.82 A |

| Rating current -20°C according to IEC 60947 2.99 A Rating current -25°C according to IEC 60947 2.76 A Rating current -5°C according to IEC 60947 2.7 A Rating current 10°C according to IEC 60947 2.57 A Rating current 20°C according to IEC 60947 2.51 A Rating current 20°C according to IEC 60947 2.44 A Rating current 20°C according to IEC 60947 2.38 A Rating current 20°C according to IEC 60947 2.31 A Rating current 20°C according to IEC 60947 2.33 A Rating current 30°C according to IEC 60947 2.08 A Rating current 40°C according to IEC 60947 2.08 A Rating current 40°C according to IEC 60947 2.08 A Rating current 5°C according to IEC 60947 2.08 A Rating current 5°C according to IEC 60947 2.4 Rating current 5°C according to IEC 60947 2.4 Rating current 5°C according to IEC 60947 1.79 A Rating current 5°C according to IEC 60947 1.55 A Rating current 5°C according to IEC 60947 1.55 A Rating current 5°C according to IEC 60947 1.5 A Rated short circuit breaking capacity Icn under 200°A Caccording IEC 60898-1 <th>Rating current -15°C according to IEC 60947</th> <th>2.88 A</th> | Rating current -15°C according to IEC 60947 | 2.88 A |
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| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1 Rated short circuit breaking capacity Icu under 240V AC according IEC 60898-1 Rated short circuit breaking capacity Icu under 415V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu under 240V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Rating current / temperature Rating current -25°C 2.59 A Rating current -20°C 2.54 A Rating current -10°C 2.45 A Rating current -10°C 2.45 A Rating current -5°C 2.39 A Rating current -5°C 2.39 A Rating current -5°C 2.39 A | Rated ultimate short-circuit breaking capa- | |
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| city Icu under 415V AC IEC 60947-2 15 kA Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1 10 kA Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1 10 kA Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 30 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 15 kA Electric current / temperature Rating current -25°C 2.59 A Rating current -15°C 2.55 A Rating current -10°C 2.45 A Rating current 0°C 2.34 A Rating current 5°C 2.29 A | | 15 kA |
| under 240V AC according IEC 60898-1 Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Electric current / temperature Rating current -25°C Rating current -20°C Rating current -15°C Rating current -10°C Rating current -5°C Rating current 5°C Rating current 5°C Rating current 5°C Rating current 5°C | 3 1 | 15 kA |
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| Rating current -20°C 2.54 A Rating current -15°C 2.5 A Rating current -10°C 2.45 A Rating current -5°C 2.39 A Rating current 0°C 2.34 A Rating current 5°C 2.29 A | Electric current / temperature | |
| Rating current -15°C Rating current -10°C Rating current -5°C Rating current 0°C Rating current 5°C 2.39 A Rating current 5°C 2.39 A | Rating current -25°C | 2.59 A |
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| Rating current 0°C 2.34 A Rating current 5°C 2.29 A | Rating current -10°C | 2.45 A |
| Rating current 5°C 2.29 A | Rating current -5°C | 2.39 A |
| Rating current 5°C 2.29 A | Rating current 0°C | 2.34 A |
| | | |
| | | 2.23 A |

| Rating current 25°C | 2.06 A |
|---|------------------|
| Rating current 30°C | 2 A |
| Rating current 35°C | 1.93 A |
| Rating current 40°C | 1.85 A |
| Rating current 45°C | 1.77 A |
| Rating current 50°C | 1.69 A |
| Rating current 55°C | 1.61 A |
| Rating current 60°C | 1.51 A |
| Rating current 65°C | 1.42 A |
| Rating current 70°C | 1.31 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 | 70 |
| Depth of installed product | 70 mm |
| Height of installed product Width of installed product | 83 mm 52.5 mm |
| within or installed product | 52.5 111111 |
| Frequency | |
| Frequency | 50 to 60 Hz |
| Power | |
| Maximum power loss per pole according to the product standard | 3 W |
| Total power loss under IN | 6.16 W |
| Power loss per pole at In | 2.09 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 | |
| REACH conform | No |
| RoHS conform | Yes |
| Halogen free | No |
| Use conditions | |
| Operating temperature | -2570 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Altitude | 2000 m |
| Storage/transport temperature | -2580 °C |
| temperatur | |
| Temperature of calibration | 50 °C |