

58.11 A



NRN440

MCB 4P 20kA C-40A 4M

Technical characteristics

| Neutral position | without neutral |
|--|------------------|
| Number of protected poles | 4 |
| Number of poles | 4 P |
| Type of pole | 4 P |
| Curve | C |
| Functions | |
| Concurrently switching N-neutral | No |
| Configuration | |
| Number of modules | 4 |
| 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 | 415 V |
| Type of supply voltage | AC |
| Voltage | |
| Rated insulation voltage | 500 V |
| Max operating voltage | 415 V |
| Rated impulse withstand voltage | 6000 V |
| Electric current | |
| Rated current | 40 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 In |
| Magnetic regulating currrent | 5 / 10 In |
| min/maxi threshold value of the DC magnetic operation | 5 / 15 In |
| min/maxi threshold value of the DC thermal operation | 1.13 / 1.45 In |
| Rating current -10°C according to IEC | |

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| Rating current -15°C according to IEC 60947 | 59.97 A |
|--|---------|
| Rating current -20°C according to IEC 60947 | 61.45 A |
| Rating current -25°C according to IEC 60947 | 62.93 A |
| Rating current -5°C according to IEC 60947 | 57.02 A |
| Rating current 0°C according to IEC 60947 | 55.54 A |
| Rating current 10°C according to IEC 60947 | 52.58 A |
| Rating current 15°C according to IEC 60947 | 51.11 A |
| Rating current 20°C according to IEC 60947 | 49.63 A |
| Rating current 25°C according to IEC 60947 | 48.15 A |
| Rating current 30°C according to IEC 60947 | 47.82 A |
| Rating current 35°C according to IEC 60947 | 45.2 A |
| Rating current 40°C according to IEC 60947 | 43.72 A |
| Rating current 45°C according to IEC 60947 | 42.24 A |
| Rating current 5°C according to IEC 60947 | 54.06 A |
| Rating current 50°C according to IEC 60947 | 40 A |
| Rating current 55°C according to IEC 60947 | 39.29 A |
| Rating current 60°C according to IEC 60947 | 37.81 A |
| Rating current 65°C according to IEC 60947 | 36.33 A |
| Rating current 70°C according to IEC 60947 | 34.85 A |
| Breaking capacity on 1 pole for IT 400V NF 60947-2 | 3 kA |
| Breaking capacity on 1 pole for IT 415V NF 60947-2 | 3 kA |
| 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 ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 40 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 40 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 20 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 20 kA |
| Rated short circuit breaking capacity Icn 400 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 | 40 kA |
| Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 | 20 kA |
| 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 | 70 mm |
| Frequency | |
| Frequency | 50 to 60 Hz |
| Power | |
| Maximum power loss per pole according to the product standard | 7.5 W |
| Total power loss under IN | 15 W |
| Power loss per pole at In | 4.28 W |
| Tripping | |
| Time of response when opening | 7 ms |
| | |
| 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 |
| Suitable for flush-mounting Connection | Yes |
| | |
| Connection Connection cross-section at output with | 1 / 25 mm² |
| Connection Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with | 1 / 25 mm² 1 / 35 mm² |
| Connection Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screw, for massive conductor Connection cross-section for rigid | 1 / 25 mm² 1 / 35 mm² 1 / 35 mm² |
| Connection Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screw, for massive conductor Connection cross-section for rigid conductor, upstream terminals with screws Connection cross-section of the access with | Yes 1 / 25 mm ² 1 / 35 mm ² 1 / 35 mm ² 1 / 35 mm ² 1 / 25 mm ² opened |

Equipment

| Can be accessorized | Yes |
|---|------------------|
| With transparent product label holder | Yes |
| Standards | |
| Standard text | IEC 60947-2 |
| European directive WEEE | concerned |
| Safety | |
| Protection index IP | IP20 |
| 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 |
| Class of energy limitation I ² t | 3 |
| Altitude | 2000 m |
| Air humidity protection | for all climates |
| Storage/transport temperature | -2580 °C |

temperatur

Temperature of calibration

50 °C