40 A

55,54 A

52,58 A



NCN440A



NCN440A

MCB 4P 10kA/15kA C-40A 4M

Product Datasheet

Architecture

| without neutral |
|-----------------|
| 4 |
| 4 P |
| 4 P |
| Din-Rail |
| С |
| |

Functions

| Concurrently switching N-neutral | no |
|----------------------------------|----|
| | |

Compatibility

| Compatible with DIN rail mounting | ves |
|-----------------------------------|-----|
| Compande with Din rail mounting | VES |

Controls and indicators

| With fault indicator | no |
|----------------------|----|
|----------------------|----|

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 |

Rated current

| 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 | 5 / 10 ln |
| min/maxi threshold value of the DC magnetic operation | 7 / 15 ln |
| min/maxi threshold value of the DC thermal operation | 1,13 / 1,45 ln |
| Rating current -10°C according to IEC 60947 | 58,11 A |
| 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

Rating current 10°C according to IEC 60947



| Rating current 150°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 |
| Rated service breaking capacity Ics under 220V AC according IEC 60947-2 | 15 kA |
| Rated service breaking capacity Ics under 230V AC according IEC 60947-2 | 15 kA |
| Rated service breaking capacity Ics under 240V AC according IEC 60947-2 | 15 kA |
| Rated service breaking capacity Ics under 380V AC according IEC 60947-2 | 7,5 kA |
| Rated service breaking capacity Ics under 400V AC according IEC 60947-2 | 7,5 kA |
| Rated service breaking capacity Ics under 415V AC according IEC 60947-2 | 7,5 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 | 30 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 30 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 15 kA |
| Rated ultimate short-circuit breaking capacity 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 380V AC according IEC 60898-1 | 10 kA |
| Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1 | 10 kA |
| Rated service breaking capacity Ics under 220V AC according IEC 60898-1 | 7,5 kA |
| Rated service breaking capacity Ics under 230V AC according IEC 60898-1 | 7,5 kA |
| Rated service breaking capacity Ics under 240V AC according IEC 60898-1 | 7,5 kA |
| Rated service breaking capacity Ics under 380V AC according IEC 60898-1 | 7,5 kA |
| Rated service breaking capacity Ics under 400V AC according IEC 60898-1 | 7,5 kA |
| Rated service breaking capacity Ics under 415V AC according IEC 60898-1 | 7,5 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 | 59,75 A |
| Rating current -20°C | 57,95 A |
| Rating current -15°C | 56,16 A |
| Rating current -10°C | 54,36 A |
| Rating current -5°C | 52,57 A |
| Rating current 0°C | 50,77 A |
| Rating current 5°C | 48,98 A |
| Rating current 10°C | 47,18 A |
| Rating current 25°C | 41,8 A |
| Rating current 30°C | 40 A |
| Rating current 35°C | 39,89 A |
| Rating current 40°C | 39,79 A |
| Rating current 45°C | 39,68 A |
| Rating current 50°C | 39,57 A |
| Rating current 55°C | 39,46 A |
| Rating current 60°C | 39,36 A |
| Rating current 65°C | 39,25 A |
| Rating current 70°C | 39,14 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 |
| 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 |
| | |
| 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 | 70 mm |
| 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 |
| 360° product mounting position | 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 |
| With transparent product label holder | yes |
| Standards | |
| Standard text | EN 60898-1, IEC 60947-2 |
| European directive WEEE | concerned |
| Product categories described in the W3E directive 2012/19/EU | Category 5 |
| Safety | |
| Protection index IP | IP20 |
| Use conditions | |
| Operating temperature | -2570 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Class of energy limitation I2t | 3 |
| Altitude | 2000 m |
| Storage/transport temperature | -2580 °C |



temperatur

Temperature of calibration 50 °C