



NCN420A



MCB 4P 10kA C-20A 4M

Technical characteristics

| A . | | . : | ecti | |
|-----|-----|-----|------|------|
| A | rcr | HTE | CTI | JITE |

| 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 | 440 V |
| Rated impulse withstand voltage | 6000 V |
| Minimum threshold voltage (Ue min) | 12 V |
| Electric current | |
| Rated current | 20 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 | 5 / 10 In |
| 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 |

| Reting current -15°C according to IEC 60947 2.7.17 A 6.7.25°C according to IEC 60947 2.5°C according IEC 60947 2.5°C according to IEC 60947 2.5°C according to IE | Rating current -10°C according to IEC 60947 | 26.27 A |
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| 27.61 A | | 27.17 A |
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| Rating current 65°C according to IEC 60947 Rating current 70°C according to IEC 60947 Rating current 70°C according to IEC 60947 Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated ultimate short-circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated ultimate short-circuit breaking capacity Icn under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icn under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icn under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icn under 415V AC IEC 60947-2 Rated short circuit breaking capacity Icn under 420V AC IEC 60988-1 Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1 Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icn under 415V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icn under 415V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icn under 315V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icn under 315V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icn under 320V AC IEC 60947-2 30 kA Rated ultimate short-circuit breaking capacity Icn under 380V AC IEC 60947-2 315 kA Rated ultimate short-circuit breaking capacity Icn under 380V AC IEC 60947-2 32 30 kA Rated ultimate short-circuit breaking capacity Icn under 380V AC IEC 60947-2 33 kA Rated ultimate short-circuit breaking capacity Icn under 380V AC IEC 60947-2 34.38 A Rating current -15°C 24.38 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current 0°C | Rating current 55°C according to IEC 60947 | 19.34 A |
| Rating current 70°C according to IEC 60947 Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated ultimate short-circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 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 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 415V AC IEC 60947-2 Rated short circuit breaking capacity Icu under 415V 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 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Rating current -25°C 24.78 A Rating current -15°C 23.98 A Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -5°C | Rating current 60°C according to IEC 60947 | 18.65 A |
| Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 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 415V AC IEC 60947-2 Rated short circuit breaking capacity Icu under 240V AC according IEC 60948-1 Rated short circuit breaking capacity Icu under 415V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu under 415V AC according IEC 60898-1 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 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 15 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 15 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 24.78 A Rating current -25°C 24.78 A Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -0°C | Rating current 65°C according to IEC 60947 | 17.94 A |
| under 230V AC according IECG0898-1 Rated short circuit breaking capacity Icn under 400V AC according IECG0898-1 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 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 IEC 60947-2 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 415V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu under 415V AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu under 415V AC according IEC 608947-2 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 15 kA Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 15 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 20 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 21 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 22 k3 kA Rating current -25°C 24 k3 kA Rating current -15°C 23 k3 kA Rating current -5°C 23 k3 kA | Rating current 70°C according to IEC 60947 | 17.2 A |
| under 400V AC according IEC60898-1 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 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 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 24.78 A Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current -5°C 22.73 A | | 10 kA |
| capacity Icu under 230V AC IEC 60947-2 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 60988-1 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 ultimate short-circuit breaking capacity Icu 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 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 24.78 A Rating current -20°C 24.38 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current -5°C 23.16 A | 9 | 10 kA |
| 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 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 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Electric current / temperature Rating current -25°C 24.78 A Rating current -20°C 24.38 A Rating current -10°C 23.57 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current 0°C | | 30 kA |
| 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 415V 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 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 15 kA Electric current / temperature Rating current -25°C 24.78 A Rating current -20°C 24.38 A Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current 0°C | 3 | 30 kA |
| capacity Icu under 415V AC IEC 60947-2 Rated short circuit breaking capacity Icn 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 Icn 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 380V AC IEC 60947-2 Electric current / temperature Rating current -25°C Rating current -20°C 24.78 A Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current 0°C 22.73 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 | g g | 15 kA |
| 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 -10°C Rating current -5°C Rating current -5°C Rating current -5°C Rating current -5°C Rating current -20°C Rating current -20°C Rating current -10°C Rating current -20°C | | 10 kA |
| 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 -15°C Rating current -10°C Rating current -5°C | | 10 kA |
| Electric current / temperature Rating current -25°C 24.78 A Rating current -20°C 24.38 A Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current -5°C 22.73 A | 9 | 30 kA |
| Rating current -25°C 24.78 A Rating current -20°C 24.38 A Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current 0°C 22.73 A | 9 | 15 kA |
| Rating current -20°C 24.38 A Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current 0°C 22.73 A | Electric current / temperature | |
| Rating current -15°C 23.98 A Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current 0°C 22.73 A | Rating current -25°C | 24.78 A |
| Rating current -10°C 23.57 A Rating current -5°C 23.16 A Rating current 0°C 22.73 A | Rating current -20°C | 24.38 A |
| Rating current -5°C 23.16 A Rating current 0°C 22.73 A | Rating current -15°C | 23.98 A |
| Rating current 0°C 22.73 A | Rating current -10°C | 23.57 A |
| | Rating current -5°C | 23.16 A |
| Rating current 5°C 22.3 A | Rating current 0°C | 22.73 A |
| | Rating current 5°C | 22.3 A |

| Rating current 10°C | 21.86 A |
|---|-------------|
| Rating current 25°C | 20.48 A |
| Rating current 30°C | 20 A |
| Rating current 35°C | 19.48 A |
| Rating current 40°C | 18.94 A |
| Rating current 45°C | 18.39 A |
| Rating current 50°C | 17.81 A |
| Rating current 55°C | 17.22 A |
| Rating current 60°C | 16.61 A |
| Rating current 65°C | 15.98 A |
| Rating current 70°C | 15.32 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 | 70 mm |
| Frequency | |
| Frequency | 50 to 60 Hz |
| Power | |
| Maximum power loss per pole according to the product standard | 4.5 W |
| Total power loss under IN | 10.87 W |
| Power loss per pole at in | 2.74 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 |
| European directive WEEE | concerned |
| Safety | |
| Protection index IP | IP20 |
| Use conditions | |
| Operating temperature | -2570 °C |
| Class of energy limitation I ² t | 3 |
| Altitude | 2000 m |
| Storage/transport temperature | -2580 °C |
| temperatur | |
| Temperature of calibration | 30 °C |