



Main

| | |
|--|---|
| Range | Compact |
| Range of product | Compact NS100...630 |
| Product or component type | Circuit breaker |
| Product name | Compact NS |
| Device short name | Compact NS100N |
| Circuit breaker name | Compact NS100N |
| Device application | Distribution |
| Poles description | 2P |
| Protected poles description | 2t |
| Network type | AC DC |
| Network frequency | 50/60 Hz |
| [In] rated current | 100 A 65 °C 100 A 40 °C |
| [Ui] rated insulation voltage | 750 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947-2 |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 750 V DC conforming to IEC 60947-2 |
| Breaking capacity code | N |
| Breaking capacity | 85 kA Icu at 250 V DC 1P conforming to IEC 60947-2 85 kA Icu at 48/125 V DC 1P conforming to IEC 60947-2 18 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 18 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 220 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 500 V DC 2P conforming to IEC 60947-2 10 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC 25 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC |
| [Ics] rated service breaking capacity | Ics 18 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 Ics 18 kA 525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 25 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Ics 25 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 Ics 8 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 85 kA 220 V AC 50/60 Hz conforming to IEC 60947-2 Ics 85 kA 250 V DC conforming to IEC 60947-2 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Ics 85 kA 48/125 V DC conforming to IEC 60947-2
Ics 85 kA 500 V DC conforming to IEC 60947-2

| | |
|---------------------------|--|
| Suitability for isolation | Yes conforming to IEC 60947-2 |
| Utilisation category | Category A |
| Trip unit name | TM-D |
| Trip unit technology | Thermal-magnetic |
| Trip unit rating | 100 A |
| Protection type | Short-circuit protection (magnetic) Overload protection (thermal) |
| Pollution degree | 3 conforming to IEC 60947 |

Complementary

| | |
|--|--|
| Control type | Toggle |
| Mounting mode | Fixed |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Mechanical durability | 20000 cycles |
| Electrical durability | 10000 cycles 277 V AC 50/60 Hz In conforming to IEC 60947-2 20000 cycles 277 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| Connection pitch | 35 mm |
| Local signalling | Positive contact indication |
| Magnetic tripping current | 500 A 300 A 260 A 1000 A 640 A 190 A 800 A 1250 A |
| Long time pick-up adjustment type Ir | Fixed |
| Long time pick-up adjustment range | 0.8...1 x In |
| Instantaneous pick-up adjustment type li | Fixed |
| Instantaneous pick-up adjustment range | 800 A |
| Height | 161 mm |
| Width | 70 mm |
| Depth | 86 mm |
| Compatibility code | NS100 |

Environment

| | |
|---------------------------------------|-------------------------------|
| Standards | IEC 60947-2 |
| Product certifications | ASEFA LCIE ASTA KEMA |
| IP degree of protection | IP40 conforming to IEC 60529 |
| IK degree of protection | IK07 conforming to EN 50102 |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -50...85 °C |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|