

Product datasheet

Specifications



circuit breaker Compact NS250L - STR22SE - 100 A - 3 poles 3d

31812

! Discontinued

Main

| | |
|--|--|
| Range of product | Compact NS100...630 |
| Product or component type | Circuit breaker |
| Device short name | Compact NS250L |
| Circuit breaker name | Compact NS250L |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3t |
| Network type | AC DC |
| Network frequency | 50/60 Hz |
| [In] rated current | 220 A at 65 °C 250 A at 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 | L |
| Breaking capacity | 130 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 200 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 50 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC 130 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 150 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 150 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 20 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity | 130 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 150 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 150 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 20 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 70 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Suitability for isolation | Yes conforming to IEC 60947-2 |
| Utilisation category | Category A |
| Trip unit name | STR22SE |
| Trip unit technology | Electronic |
| Trip unit rating | 100 A at 20 °C 90 A at 70 °C 95 A at 60 °C |

| | |
|-------------------------|--|
| Protection type | Short time short-circuit protection Instantaneous short-circuit protection Overload protection (long time) |
| Pollution degree | 3 conforming to IEC 60947 |

Complementary

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|--|--|
| Control type | Toggle |
| Mounting mode | Fixed |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Mechanical durability | 20000 cycles |
| Electrical durability | 10000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 20000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| Connection pitch | 35 mm |
| Local signalling | Positive contact indication |
| Long time pick-up adjustment type Ir | Adjustable 48 settings |
| Long time pick-up adjustment range | 0.4...1 x In |
| Long time delay adjustment type | Fixed |
| [tr] long-time delay adjustment range | 90...180 s 1.5 x Ir 3.2...5 s 7.2 x Ir 5...7.5 s 6 x Ir |
| Short-time pick-up adjustment type Isd | Adjustable 8 settings |
| [Isd] short-time pick-up adjustment range | 2...10 x Ir |
| Short-time delay adjustment type | Fixed |
| [tsd] short-time delay adjustment range | 0.04...0.06 s |
| Instantaneous pick-up adjustment type Ii | Fixed |
| Instantaneous pick-up adjustment range | $\geq 11 \times I_n$ |
| Display type | LED |
| Height | 161 mm |
| Width | 105 mm |
| Depth | 86 mm |

Environment

| | |
|--|-------------------------------|
| Standards | IEC 60947-2 |
| Product certifications | ASTA KEMA LCIE ASEFA |
| 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 (in months)

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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins