

Product datasheet

Specifications



circuit breaker Compact NS100L - STR22SE - 100 A - 4 poles 4d

29820

! Discontinued

Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Compact NS100L
Circuit breaker name	Compact NS100L
Device application	Distribution
Poles description	4P
Protected poles description	4t 3t + N/2 3t
Neutral position	Left
Network type	DC AC
Network frequency	50/60 Hz
[In] rated current	100 A at 40 °C 100 A at 65 °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 100 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 130 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 75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service breaking capacity	50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 130 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 37.5 kA at 660/690 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	Protection of the fourth pole Instantaneous short-circuit protection Short time short-circuit protection Overload protection (long time)
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	50000 cycles
Electrical durability	30000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 50000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	Positive contact indication
Neutral protection setting	1 x I _r 0.5 x I _r No protection
Long time pick-up adjustment type I_r	Adjustable 48 settings
Long time pick-up adjustment range	0.4...1 x I _n
Long time delay adjustment type	Fixed
[tr] long-time delay adjustment range	90...180 s 1.5 x I _r 3.2...5 s 7.2 x I _r 5...7.5 s 6 x I _r
Short-time pick-up adjustment type I_{sd}	Adjustable 8 settings
[I_{sd}] short-time pick-up adjustment range	2...10 x I _r
Short-time delay adjustment type	Fixed
[tsd] short-time delay adjustment range	0.04...0.06 s
Instantaneous pick-up adjustment type I_i	Fixed
Instantaneous pick-up adjustment range	>= 11 x I _n
Display type	LED
Height	161 mm
Width	140 mm
Depth	86 mm

Environment

Standards	IEC 60947-2
Product certifications	LCIE KEMA ASEFA ASTA
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)	18
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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