

Product datasheet

Specifications



circuit breaker Compact NS250H STR22SE - 40 A - 3 poles 3d

31794

! Discontinued

Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Compact NS250H
Circuit breaker name	Compact NS250H
Device application	Distribution
Poles description	3P
Protected poles description	3t
Network type	DC AC
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	H
Breaking capacity	100 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 35 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC 65 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 240 V AC 50/60 Hz conforming to UL 508 65 kA at 480 V AC 50/60 Hz conforming to UL 508 100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 18 kA at 600 V AC 50/60 Hz conforming to UL 508
[Ics] rated service breaking capacity	10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 220/240 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	36 A at 70 °C 38 A at 60 °C 40 A at 20 °C
Protection type	Overload protection (long time) Short time short-circuit protection Instantaneous short-circuit protection
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 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	KEMA LCIE 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



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