

# Product datasheet

Specifications



## circuit breaker Compact NS250H - STR22SE - 250 A - 3 poles 3d

31790

! 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

<b>Trip unit rating</b>	225 A at 70 °C 237.5 A at 60 °C 250 A at 20 °C
<b>Protection type</b>	Instantaneous short-circuit protection Short time short-circuit protection Overload protection (long time)
<b>Pollution degree</b>	3 conforming to IEC 60947

## Complementary

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

## Environment

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

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Ambient air temperature for storage -50...85 °C

## Packing Units

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Unit Type of Package 1 PCE

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Number of Units in Package 1 1

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## Contractual warranty

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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

### 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