

# Product datasheet

Specifications



## circuit breaker Compact NS630N - STR53UE - 630 A - 3 poles 3d

32899

⚠ Discontinued on: 1 Nov 2020

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### Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Compact NS630N
Circuit breaker name	Compact NS630N
Device application	Distribution
Poles description	3P
Protected poles description	3t
Network type	DC AC
Network frequency	50/60 Hz
[In] rated current	500 A at 65 °C 630 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	N
Breaking capacity	85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 42 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 42 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service breaking capacity	85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 42 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 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	STR53UE F
Trip unit technology	Electronic
Trip unit rating	630 A
Protection type	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
Circuit breaker CT rating	630 A
Mechanical durability	15000 cycles
Electrical durability	4000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 8000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Connection pitch	45 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	Adjustable
[tr] long-time delay adjustment range	12...16 s 6 x Ir 138...200 s 1.5 x Ir 277...400 s 1.5 x Ir 3...4 s 6 x Ir 34...50 s 1.5 x Ir 6...8 s 6 x Ir 69...100 s 1.5 x Ir 8...15 s 1.5 x Ir 0.2...0.74 s 7.2 x Ir 0.4...0.5 s 6 x Ir 1...1.4 s 7.2 x Ir 1.5...2 s 6 x Ir 2...2.8 s 7.2 x Ir 4...5.5 s 7.2 x Ir 8.2...11 s 7.2 x Ir
Short-time pick-up adjustment type Isd	Adjustable 8 settings
[Isd] short-time pick-up adjustment range	1.5...10 x Ir
Short-time delay adjustment type	Adj 4 setgs + const I <sup>2</sup> t option
[tsd] short-time delay adjustment range	0.015...0.06 s 0.23...0.35 s 0.06...0.14 s 0.14...0.23 s
Instantaneous pick-up adjustment type Ii	Adjustable
Instantaneous pick-up adjustment range	1.5...11 x In
Zone selective interlocking ZSI	With
Display type	LED
Height	255 mm
Width	140 mm
Depth	110 mm

## Environment

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

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<b>Unit Type of Package 1</b>	PCE
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<b>Number of Units in Package 1</b>	1
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## Contractual warranty

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<b>Warranty (in months)</b>	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