

# Product datasheet

Specifications



## circuit breaker Vigicompact NS630N - STR23SE - 630A - 4 poles 4d - 300..30000mA

32934

⚠ Discontinued on: Jan 23, 2021

⚠ Discontinued

### Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Compact NS630N
Circuit breaker name	Vigicompact NS630N
Device application	Distribution
Poles description	4P
Protected poles description	3t 4t 3t + N/2
Neutral position	Left
Network type	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	440 V AC 50/60 Hz 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	STR23SE
Trip unit technology	Electronic
Trip unit rating	630 A

<b>Protection type</b>	Instantaneous short-circuit protection Protection of the fourth pole Overload protection (long time) Short time short-circuit protection Earth-leakage protection
<b>Earth-leakage add-on module name</b>	MB
<b>Earth-leakage protection</b>	With
<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>Circuit breaker CT rating</b>	630 A
<b>Mechanical durability</b>	15000 cycles
<b>Electrical durability</b>	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
<b>Connection pitch</b>	45 mm
<b>Local signalling</b>	Positive contact indication
<b>Neutral protection setting</b>	No protection 1 x Ir 0.5 x Ir
<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>	11 x In
<b>Earth-leakage protection class</b>	Class A
<b>Residual earth-leakage sensitivity adjustment type</b>	Adjustable
<b>[IΔn] residual earth-leakage sensitive adjustment</b>	30 A 10 A 0.3 A 1 A 3 A
<b>Residual earth-leakage time delay adjustment type</b>	Adjustable
<b>Display type</b>	LED
<b>Height</b>	355 mm

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<b>Width</b>	185 mm
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<b>Depth</b>	110 mm
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## Environment

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<b>Standards</b>	IEC 60947-2
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<b>Product certifications</b>	ASTA ASEFA LCIE KEMA
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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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## 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