

# Product datasheet

Specifications



## circuit breaker Compact NS100N - TMD - 50 A - 2 poles 2d

29606

⚠ Discontinued on: 14 Sept 2020

EAN Code: 3303430296065

⚠ Discontinued

### Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Compact NS100N
Circuit breaker name	Compact NS100N
Device application	Distribution
Poles description	2P
Protected poles description	2t
Network type	DC AC
Network frequency	50/60 Hz
[In] rated current	100 A at 40 °C 100 A at 65 °C
[U <sub>i</sub> ] rated insulation voltage	750 V AC 50/60 Hz conforming to IEC 60947-2
[U <sub>imp</sub> ] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[U <sub>e</sub> ] 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 Icu at 250 V DC 1P conforming to IEC 60947-2 85 kA Icu at 48/125 V DC 1P conforming to IEC 60947-2 10 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC 25 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 18 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 18 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 220 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 500 V DC 2P conforming to IEC 60947-2
[I <sub>cs</sub> ] rated service breaking capacity	85 kA at 250 V DC conforming to IEC 60947-2 85 kA at 48/125 V DC conforming to IEC 60947-2 18 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 18 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 220 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 500 V DC conforming to IEC 60947-2
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	TM-D

<b>Trip unit technology</b>	Thermal-magnetic
<b>Trip unit rating</b>	50 A at 40 °C
<b>Protection type</b>	Short-circuit protection (magnetic) Overload protection (thermal)
<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 277 V AC 50/60 Hz In conforming to IEC 60947-2 20000 cycles 277 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>Magnetic tripping current</b>	300 A 190 A 260 A 1250 A 640 A 1000 A 500 A 800 A
<b>Long time pick-up adjustment type Ir</b>	Fixed
<b>Long time pick-up adjustment range</b>	0.8...1 x In
<b>Instantaneous pick-up adjustment type li</b>	Fixed
<b>Instantaneous pick-up adjustment range</b>	500 A
<b>Height</b>	161 mm
<b>Width</b>	70 mm
<b>Depth</b>	86 mm

## Environment

<b>Standards</b>	IEC 60947-2
<b>Product certifications</b>	KEMA ASTA ASEFA LCIE
<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
<b>Ambient air temperature for storage</b>	-50...85 °C

## Packing Units

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

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Package 1 Height	7.8 cm
Package 1 Width	12.5 cm
Package 1 Length	17.4 cm
Package 1 Weight	1.278 kg

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## Contractual warranty

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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 Better



#### Materials and Substances

EU RoHS Directive

[Compliant](#)

### 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