

# Product datasheet

Specifications



## circuit breaker Vigicompact NS100N - TMD - 100A - 4 poles 3d +N/2 - 30..10000mA

29960

! Discontinued

### Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Vigicompact NS100N
Circuit breaker name	Vigicompact NS100N
Device application	Distribution
Poles description	4P
Protected poles description	3t + N/2
Neutral position	Left
Network type	DC AC
Network frequency	50/60 Hz
[In] rated current	100 A at 40 °C 100 A at 65 °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	250 V DC conforming to IEC 60947-2 277 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 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 600 V AC 50/60 Hz conforming to UL 508 25 kA at 480 V AC 50/60 Hz conforming to UL 508 35 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 8 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC 85 kA at 240 V AC 50/60 Hz conforming to UL 508 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 380/415 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
[Ics] rated service breaking capacity	8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 600 V AC 50/60 Hz conforming to UL 508 22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 480 V AC 50/60 Hz conforming to UL 508 35 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 8 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC 85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 85 kA at 240 V AC 50/60 Hz conforming to UL 508

<b>Suitability for isolation</b>	Yes conforming to IEC 60947-2
<b>Utilisation category</b>	Category A
<b>Trip unit name</b>	TM-D
<b>Trip unit technology</b>	Thermal-magnetic
<b>Trip unit rating</b>	100 A
<b>Protection type</b>	Short-circuit protection (magnetic) Overload protection (thermal)
<b>Earth-leakage add-on module name</b>	MH
<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>Mechanical durability</b>	50000 cycles
<b>Electrical durability</b>	30000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 50000 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>Neutral protection setting</b>	No protection
<b>Long time pick-up adjustment type I<sub>r</sub></b>	Fixed
<b>Long time pick-up adjustment range</b>	0.8...1 x I <sub>n</sub>
<b>Long time delay adjustment type</b>	Fixed
<b>Instantaneous pick-up adjustment type I<sub>i</sub></b>	Fixed
<b>Instantaneous pick-up adjustment range</b>	800 A
<b>Earth-leakage protection class</b>	Class A
<b>Residual earth-leakage sensitivity adjustment type</b>	Adjustable
<b>[I<math>\Delta</math>n] residual earth-leakage sensitive adjustment</b>	1 A 0.03 A 10 A 0.3 A 3 A
<b>Residual earth-leakage time delay adjustment type</b>	Adjustable
<b>Height</b>	236 mm
<b>Width</b>	105 mm
<b>Depth</b>	86 mm

## Environment

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

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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
<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