

# Product datasheet

Specifications



## circuit breaker Vigicompact NS250N - TMD - 160A - 4 poles 3d +N/2 - 30..10000mA

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! Discontinued

### Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Compact NS250N
Circuit breaker name	Vigicompact NS250N
Device application	Distribution
Poles description	4P
Protected poles description	3t + N/2
Neutral position	Left
Network type	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	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 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 480 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 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 20 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC 35 kA at 480 V AC 50/60 Hz conforming to UL 508 30 kA Icu at 500 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	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 22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 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	TM-D
Trip unit technology	Thermal-magnetic

<b>Trip unit rating</b>	160 A
<b>Protection type</b>	Earth-leakage protection Protection of the fourth pole Overload protection (thermal) Short-circuit protection (magnetic)
<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>	40000 cycles
<b>Electrical durability</b>	20000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 10000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
<b>Local signalling</b>	Positive contact indication
<b>Neutral protection setting</b>	No protection
<b>Long time pick-up adjustment type Ir</b>	Adjustable
<b>Long time pick-up adjustment range</b>	0.8...1 x In
<b>Instantaneous pick-up adjustment type Ii</b>	Fixed
<b>Instantaneous pick-up adjustment range</b>	1250 A
<b>Earth-leakage protection class</b>	Class A
<b>Residual earth-leakage sensitivity adjustment type</b>	Adjustable
<b>[<math>\Delta n</math>] residual earth-leakage sensitive adjustment</b>	0.3 A 1 A 3 A 0.03 A 10 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
<b>Product certifications</b>	ASEFA LCIE KEMA 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

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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