

Product datasheet

Specifications



circuit breaker Vigicompact NS160N - TMD - 80 A - 4 poles 4d - 30..10000 mA

30953

⚠ 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 NS160N
Circuit breaker name	Vigicompact NS160N
Device application	Distribution
Poles description	4P
Protected poles description	4t
Neutral position	Left
Network type	AC
Network frequency	50/60 Hz
[In] rated current	150 A at 65 °C 160 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 10 kA at 600 V AC 50/60 Hz conforming to UL 508 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
[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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Trip unit rating	80 A at 40 °C
Protection type	Short-circuit protection (magnetic) Protection of the fourth pole Overload protection (thermal) Earth-leakage protection
Earth-leakage add-on module name	MH
Earth-leakage protection	With
Pollution degree	3 conforming to IEC 60947

Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Mechanical durability	40000 cycles
Electrical durability	20000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 40000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	Positive contact indication
Neutral protection setting	1 x Ir
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	0.8...1 x In
Instantaneous pick-up adjustment type Ii	Fixed
Instantaneous pick-up adjustment range	1000 A
Earth-leakage protection class	Class A
Residual earth-leakage sensitivity adjustment type	Adjustable
[IΔn] residual earth-leakage sensitive adjustment	10 A 1 A 0.03 A 0.3 A 3 A
Residual earth-leakage time delay adjustment type	Adjustable
Height	236 mm
Width	105 mm
Depth	86 mm

Environment

Standards	IEC 60947-2
Product certifications	KEMA LCIE ASEFA ASTA
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to EN 50102

Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C

Contractual warranty

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 Longer

Lifetime extension	
Repair	No