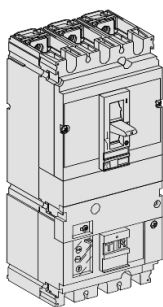


# Product data sheet

Specifications



## circuit breaker Vigicompact NS160N - STR22SE - 100 A - 4 poles 4d - 30..10000mA

30981

❗ Discontinued

### 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 3t 3t + N/2
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	STR22SE

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

<b>Trip Unit Technology</b>	Electronic
<b>Trip Unit Rating</b>	100 A at 20 °C 90 A at 70 °C 95 A at 60 °C
<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>	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 40000 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>	1 x Ir No protection 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>[I<sub>Δn</sub>] Residual Earth-Leakage Sensitive Adjustment</b>	1 A 0.03 A 0.3 A 3 A 10 A
<b>Residual Earth-Leakage Time Delay Adjustment Type</b>	Adjustable

Display Type	LED
Height	236 mm
Width	105 mm
Depth	86 mm

## Environment

Standards	IEC 60947-2
Product Certifications	KEMA LCIE ASTA ASEFA
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	18 months
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