# **Product datasheet**

Specifications





Circuit breaker ComPacT NSX160N, 50kA at 415VAC, MicroLogic 4.2 Vigi trip unit 160A, 4 poles 4d

C16N44V160

#### Main

Range	ComPacT new generation
Product Name	ComPacT NSX new generation
Device Short Name	NSX160N
Product Or Component Type	Earth leakage circuit breaker
Device Application	Distribution
Poles Description	4P
Protected Poles Description	4D 3D + N/2 3D
Neutral Position	Left
[In] Rated Current	160 A at 40 °C
[Ue] Rated Operational Voltage	440 V AC 50/60 Hz
Network Type	AC
Network Frequency	50/60 Hz
Suitability For Isolation	Yes conforming to EN/IEC 60947-2
Utilisation Category	Category A
[Icu] Rated Ultimate Short-Circuit Breaking Capacity	90 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	N 50 kA 415 V AC
Trip Unit Name	MicroLogic 4.2
Trip Unit Technology	Electronic
Trip Unit Protection Functions	LSoIR
Control Type	Toggle
Circuit Breaker Mounting Mode	Fixed

Circuit Breaker Mounting Mode Fixed

## Complementary

[Ui] Rated Insulation Voltage	500 V AC 50/60 Hz
[Uimp] Rated Impulse Withstand Voltage	8 kV

[Ics] Rated Service Short-Circuit Breaking Capacity	90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical Durability	40000 cycles
Electrical Durability	40000 cycles at 440 V ln/2 20000 cycles at 440 V ln 15000 cycles at 690 V ln/2 7500 cycles at 690 V ln
Power Dissipation Per Pole	12.29 W N 12.29 W L1 and L3 9.98 W L2
Mounting Support	Backplate
Mounting Position	Horizontal and vertical Flat on the back
Upside Connection	Front
Downside Connection	Front
Connection Pitch	35 mm
Protection Type	L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection R : for earth-leakage protection
Trip Unit Rating	160 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable 9 settings
[Ir] Long-Time Protection Pick-Up Adjustment Range	63160 A
Long-Time Protection Delay Adjustment Type Tr	Fixed
[Tr] Long-Time Protection Delay Adjustment Range	400 s at 1.5 x lr 16 s at 6 x lr 11 s at 7.2 x lr
Neutral Protection Settings	0.5 x lr (3D + N/2) 1 x lr (4D) No protection (3D)
Thermal Memory	20 minutes before and after tripping
Short-Time Protection Pick-Up Adjustment Type Isd	Adjustable
[Isd] Short-Time Protection Pick- Up Adjustment Range	1.510 x lr
Short-Time Protection Delay Adjustment Type Tsd	Fixed
Instantaneous Protection Pick-Up Adjustment Type li	Fixed
[li] Instantaneous Protection Pick- Up Adjustment Range	2400 A
Earth-Leakage Protection	Integrated
Earth-Leakage Protection Class	Class A
Earth-Leakage Protection Sensitity Adjustment Type Iōn	Adjustable
[lõn] Earth-Leakage Protection Sensitivity Adjustment Range	30 mA 100 mA 300 mA 500 mA 1 A 3 A 5 A
Earth-Leakage Protection Specific Mode	OFF using the I∆n rotary switch

Earth-Leakage Protection Time Delay Adjustement Type ∆t	Adjustable
[∆t] Earth-Leakage Protection Time Delay Adjustment Range	0 ms 60 ms 150 ms 500 ms 1 s
Zone Selective Interlocking Zsi	Without
Number Of Slots For Electrical Auxiliaries	5 slot(s)
Local Signalling	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload
Width (W)	140 mm
Height (H)	161 mm
Depth (D)	86 mm
Net Weight	2.6 kg

### Environment

Standards	EN/IEC 60947
Product Certifications	CCC EAC Marine
Overvoltage Category	Class II
Electrical Shock Protection Class	Class II
Pollution Degree	3 conforming to IEC 60664-1
Ip Degree Of Protection	IP40 conforming to IEC 60529
Ik Degree Of Protection	IK07 conforming to IEC 62262
Ambient Air Temperature For Operation	-2570 °C
Ambient Air Temperature For Storage	-5085 °C
Relative Humidity	095 %
Operating Altitude	02000 m without derating 2000 m5000 m with derating

# **Packing Units**

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Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14.0 cm
Package 1 Width	15.0 cm
Package 1 Length	19.3 cm
Package 1 Weight	2.594 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	4
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.756 kg

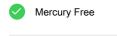
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Transparency RoHS/REACh

#### Well-being performance



Rohs Exemption Information Yes

### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information