

# Product datasheet

Specifications



## Circuit breaker, ComPacT NSX160F AC/DC, 18kA/415VAC, 2 poles, TMD trip unit 125A

C16F2TM125

### Main

Range	ComPacT new generation
Product Name	ComPacT NSX new generation
Device Short Name	NSX160F
Product Or Component Type	Circuit breaker
Device Application	Distribution
Poles Description	2P
Protected Poles Description	2D
[In] Rated Current	125 A at 40 °C
[Ue] Rated Operational Voltage	690 V AC 50/60 Hz 500 V DC
Network Type	AC DC
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	36 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 18 kA Icu at 380/415 V AC 50/60 Hz 1P conforming to IEC 60947-2 15 kA Icu at 440 V AC 50/60 Hz 1P conforming to IEC 60947-2 10 kA Icu at 500/525 V AC 50/60 Hz 2P conforming to IEC 60947-2 5 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 250 V DC 50/60 Hz 1 pole conforming to IEC 60947-2 36 kA Icu at 500 V DC 50/60 Hz 2 poles in series conforming to IEC 60947-2
Performance Level	F 18 kA 415 V AC
Trip Unit Name	TM-D
Trip Unit Technology	Thermal-magnetic
Trip Unit Protection Functions	LI
Control Type	Toggle
Circuit Breaker Mounting Mode	Fixed

### Complementary

[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

<b>[Ics] Rated Service Short-Circuit Breaking Capacity</b>	36 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 18 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 15 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 5 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 250 V DC 50/60 Hz conforming to IEC 60947-2 36 kA at 500 V DC 50/60 Hz conforming to IEC 60947-2
<b>Mechanical Durability</b>	20000 cycles
<b>Electrical Durability</b>	20000 cycles at 277 V In/2 10000 cycles at 277 V In
<b>Power Dissipation Per Pole</b>	10.78 W
<b>Mounting Support</b>	Backplate
<b>Mounting Position</b>	Horizontal and vertical Flat on the back
<b>Upside Connection</b>	Front
<b>Downside Connection</b>	Front
<b>Connection Pitch</b>	35 mm
<b>Protection Type</b>	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
<b>Trip Unit Rating</b>	125 A at 40 °C
<b>Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)</b>	Fixed
<b>[Ir] Long-Time Protection Pick-Up Adjustment Range</b>	1 x In
<b>Long-Time Protection Delay Adjustment Type Tr</b>	Fixed
<b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>	Fixed
<b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>	1000 A
<b>Earth-Leakage Protection</b>	Without
<b>Width (W)</b>	70 mm
<b>Height (H)</b>	161 mm
<b>Depth (D)</b>	86 mm
<b>Net Weight</b>	1.2 kg

## Environment

<b>Standards</b>	EN/IEC 60947
<b>Product Certifications</b>	CCC EAC Marine
<b>Overvoltage Category</b>	Class II
<b>Electrical Shock Protection Class</b>	Class II
<b>Pollution Degree</b>	3 conforming to IEC 60664-1
<b>Ip Degree Of Protection</b>	IP40 conforming to IEC 60529
<b>Ik Degree Of Protection</b>	IK07 conforming to IEC 62262
<b>Ambient Air Temperature For Operation</b>	-25...70 °C
<b>Ambient Air Temperature For Storage</b>	-50...85 °C
<b>Relative Humidity</b>	0...95 %
<b>Operating Altitude</b>	0...2000 m without derating 2000 m...5000 m with derating

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.900 cm
Package 1 Width	13.000 cm
Package 1 Length	17.600 cm
Package 1 Weight	1.285 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	12
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	15.820 kg

## Sustainability

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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

Pvc Free

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

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](#)