

Product datasheet

Specifications



Circuit breaker ComPacT NSX160B, 25kA at 415VAC, TMD trip unit 125A, 4 poles 3d

C16B6TM125

Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX160B
Product or component type	Circuit breaker
Device application	Distribution
Poles description	4P
Protected poles description	3D
Neutral position	Left
[In] rated current	125 A at 40 °C
[Ue] rated operational voltage	690 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	40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 15 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	B 25 kA 415 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
Control type	Toggle

* Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Circuit breaker mounting mode Fixed

Complementary

[Ui] rated insulation voltage 800 V AC 50/60 Hz

[Uimp] rated impulse withstand voltage 8 kV

[Ics] rated service short-circuit breaking capacity 40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
25 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 20 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
15 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2

Mechanical durability 40000 cycles

Electrical durability 40000 cycles at 440 V In/2
20000 cycles at 440 V In
15000 cycles at 690 V In/2
7500 cycles at 690 V In

Power dissipation per pole 10.78 W

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 (thermal)
I : for short-circuit protection (magnetic)

Trip unit rating 125 A at 40 °C

Long-time pick-up adjustment type Ir (thermal protection) Adjustable

[Ir] long-time protection pick-up adjustment range 0.7...1 x In

Long-time protection delay adjustment type tr Fixed

[Tr] long-time protection delay adjustment range 120...400 s at 1.5 x In
15 s at 6 x Ir

Neutral protection settings No protection (3D)

Instantaneous protection pickup adjustment type Ii Fixed

[Ii] instantaneous protection pick-up adjustment range 1250 A

Earth-leakage protection Without

Number of slots for electrical auxiliaries 5 slot(s)

Width (W) 140 mm

Height (H) 161 mm

Depth (D)	86 mm
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Product weight	2.6 kg
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Environment

Standards	EN/IEC 60947
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Product certifications	CCC EAC Marine
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Overvoltage category	Class II
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Electrical shock protection class	Class II
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Pollution degree	3 conforming to IEC 60664-1
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IP degree of protection	IP40 conforming to IEC 60529
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IK degree of protection	IK07 conforming to IEC 62262
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Ambient air temperature for	-25...70 °C operation
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Ambient air temperature for storage	-50...85 °C
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Relative humidity	0...95 %
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Operating altitude	0...2000 m without derating 2000 m...5000 m with derating
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Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	15.0 cm
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Package 1 Width	15.0 cm
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Package 1 Length	19.0 cm
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Package 1 Weight	2.36 kg
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Unit Type of Package 2	S03
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Number of Units in Package 2	6
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Package 2 Height	30.0 cm
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Package 2 Width	30.0 cm
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Package 2 Length	40.0 cm
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Package 2 Weight	14.56 kg
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Offer Sustainability

Sustainable offer status	Green Premium product
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REACH Regulation	REACH Declaration
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EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
PVC free	Yes

Recommended replacement(s)

