

Product data sheet

Specifications



Circuit breaker, ComPacT NSX100B, 25kA/415VAC, 4 poles 3D (neutral not protected), TMD trip unit 50A

C10B6TM050

Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX100B
Product or component type	Circuit breaker
Device application	Distribution
Poles description	4P
Protected poles description	3D
Neutral position	Left
[In] rated current	50 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
[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 7 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2

Control type	Toggle
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Circuit breaker mounting mode	Fixed
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Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
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[Uimp] rated impulse withstand voltage	8 kV
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Mechanical durability	50000 cycles
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Electrical durability	50000 cycles at 440 V In/2 30000 cycles at 440 V In 20000 cycles at 690 V In/2 10000 cycles at 690 V In
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Power dissipation per pole	4.11 W
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Mounting support	Backplate
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Mounting position	Horizontal and vertical Flat on the back
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Upside connection	Front
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Downside connection	Front
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Connection pitch	35 mm
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Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
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Trip unit rating	50 A at 40 °C
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Long-time pick-up adjustment type Ir (thermal protection)	Adjustable
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[Ir] long-time protection pick-up adjustment range	0.7...1 x In
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Long-time protection delay adjustment type tr	Fixed
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[Tr] long-time protection delay adjustment range	120...400 s at 1.5 x In 15 s at 6 x Ir
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Neutral protection settings	No protection (3D)
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Instantaneous protection pickup adjustment type li	Fixed
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[li] instantaneous protection pick-up adjustment range	500 A
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Earth-leakage protection	Without
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Number of slots for electrical auxiliaries	5 slot(s)
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Width (W)	140 mm
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Height (H)	161 mm
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Depth (D)	86 mm
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Product weight	2.4 kg
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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	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Relative humidity	0...95 %
Operating altitude	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	15.0 cm
Package 1 Width	18.0 cm
Package 1 Length	18.0 cm
Package 1 Weight	2.352 kg
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	14.52 kg
Offer Sustainability	
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
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

California proposition 65 WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Recommended replacement(s)

