# **Product datasheet**

Specification





Circuit breaker ComPacT NSX100B, 25kA at 415VAC, MicroLogic 4.2 Vigi trip unit 100A, 4 poles 4d

C10B44V100

#### Main

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Range	ComPacT new generation
Product Name	ComPacT NSX new generation
Device Short Name	NSX100B
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	100 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	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	MicroLogic 4.2
Trip Unit Technology	Electronic
Trip Unit Protection Functions	LSoIR
Control Type	Toggle
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	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	
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 ln/2 10000 cycles at 690 V ln
-	10000 030100 at 000 v III
Power Dissipation Per Pole	5.8 W N
	5.8 W L1 and L3 3.9 W L2
	0.0 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	100 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable 9 settings
[Ir] Long-Time Protection Pick-Up Adjustment Range	40100 A
Long-Time Protection Delay Adjustment Type Tr	Fixed
[Tr] Long-Time Protection Delay	400 s at 1.5 x lr
Adjustment Range	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 Ir (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 Ii	Fixed
[li] Instantaneous Protection Pick- Up Adjustment Range	1500 A
Earth-Leakage Protection	Integrated
Earth-Leakage Protection Class	Class A
Earth-Leakage Protection Sensitity Adjustment Type Ιδη	Adjustable
[Iδn] Earth-Leakage Protection	30 mA
Sensitivity Adjustment Range	100 mA
	300 mA 500 mA
	1 A
	3 A
	5 A
Earth-Leakage Protection Specific Mode	OFF using the IΔn rotary switch
Earth-Leakage Protection Time Delay Adjustement Type ∆t	Adjustable
[∆t] Earth-Leakage Protection	0 ms
Time Delay Adjustment Range	60 ms
	150 ms
	500 ms 1 s
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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	2.4 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**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14.2 cm
Package 1 Width	14.8 cm
Package 1 Length	19.4 cm
Package 1 Weight	2.528 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	10.5 kg

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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