Product datasheet





Circuit breaker, ComPact NSX100N, 50kA/415VAC, MicroLogic 2.2 trip unit 40A, 3 poles 3d

LV429797

Discontinued on: Jun 9, 2022 AD

! Discontinued

Main

Range	ComPact	
Product Name	ComPact NSX	
Range Of Product	ComPact NSX100250	
Device Short Name	NSX100N	
Product Or Component Type	Circuit breaker	
Device Application	Distribution	
Number Of Poles	3P	
Protected Poles Description	3t	
[In] Rated Current	40 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	th 85 kA at 240 V AC 50/60 Hz conforming to UL 508 10 kA Icu at 660/690 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 20 kA at 600 V AC 50/60 Hz conforming to UL 508 50 kA at 480 V AC 50/60 Hz conforming to UL 508 36 kA Icu at 500 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 90 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2	
Performance Level	N 50 kA 415 V AC	
Trip Unit Name	MicroLogic 2.2	
Trip Unit Technology	Electronic	
Trip Unit Protection Functions	LSol	
Control Type	Toggle	
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	10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 500 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 90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical Durability	50000 cycles
Electrical Durability	10000 cycles at 690 V In 20000 cycles at 690 V In/2 30000 cycles at 440 V In 50000 cycles at 440 V In/2
Mounting Support	Backplate
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
Trip Unit Rating	40 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable 9 settings
[Ir] Long-Time Protection Pick-Up Adjustment Range	1840 A
Long-Time Protection Delay Adjustment Type Tr	Fixed
[Tr] Long-Time Protection Delay Adjustment Range	11 s at 7.2 x lr 16 s at 6 x lr 400 s at 1.5 x lr
Thermal Memory	20 minutes before and after tripping
Short-Time Protection Pick-Up Adjustment Type Isd	Adjustable 9 settings
[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	600 A
Earth-Leakage Protection	Without
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)	105 mm
Height (H)	161 mm
Depth (D)	86 mm
Net Weight	2.05 kg
Environment	

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	11.0 cm
Package 1 Width	14.0 cm
Package 1 Length	19.0 cm
Package 1 Weight	1.852 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	11.532 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information