Product datasheet

Specifications





Circuit breaker ComPacT NSXm N (50kA at 415VAC), 3 Poles 3d, 80A rating TMD trip unit, compression lugs and busbar connectors

C11N3TM080B

Main

Range	ComPacT new generation
Product Name	ComPacT NSXm new generation
Range Of Product	ComPacT NSXm new generation
Device Short Name	NSXm 160N
Product Or Component Type	Circuit breaker
Device Application	Distribution
Poles Description	3P
Protected Poles Description	3D
[In] Rated Current	80 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 IEC 60947-2
Utilisation Category	Category A
[Icu] Rated Ultimate Short-Circuit Breaking Capacity	90 kA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380415 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 25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 15 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 660690 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	N 50 kA 415 V AC
Trip Unit Name	TM-D
Trip Unit Technology	Thermal-magnetic
Trip Unit Protection Functions	Ц
Control Type	Toggle
Circuit Breaker Mounting Mode	Fixed

Complementary

[Ui] Rated Insulation Voltage	800 V AC 50/60 Hz
[Uimp] Rated Impulse Withstand	8 kV

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[Ics] Rated Service Short-Circuit Breaking Capacity	90 kA at 220240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 15 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 2.5 kA at 660690 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical Durability	20000 cycles
Electrical Durability	20000 cycles at 440 V In/2 10000 cycles at 440 V In 10000 cycles at 690 V In/2 5000 cycles at 690 V In
Power Dissipation Per Pole	6.96 W
Mounting Support	Backplate
Mounting Position	Horizontal and vertical Flat on the back
Upside Connection	Front
Downside Connection	Front
Connection Terminals	compression lug/busbar
Connection Pitch	35 mm with spreaders 27 mm without spreaders
9 Mm Pitches	9 module
Trip Unit Rating	80 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable
[Ir] Long-Time Protection Pick-Up Adjustment Range	0.71 x ln
Long-Time Protection Delay Adjustment Type Tr	Fixed
Instantaneous Protection Pick-Up Adjustment Type Ii	Fixed
[li] Instantaneous Protection Pick- Up Adjustment Range	1000 A
Earth-Leakage Protection	Without
Number Of Slots For Electrical Auxiliaries	1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX
Local Signalling	Flag (green) for presence of auxiliary contacts
Width (W)	81 mm
Height (H)	137 mm
Depth (D)	80 mm
Net Weight	1.06 kg
Colour	Grey (RAL 7016)

Environment

Standards	EN/IEC 60947
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	2000 m without derating	
	5000 m with derating	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	12.0 cm
Package 1 Width	9.0 cm
Package 1 Length	21.0 cm
Package 1 Weight	1.1 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	9
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.276 kg



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RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Halogen Free Plastic Parts Product	

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
Circularity Profile	No need of specific recycling operations