# **Product datasheet**

Specifications





# Circuit breaker ComPacT NSX400N, 50kA at 415VAC, MicroLogic 2.3 M trip unit 320A, 3 poles 3d

C40N32M320

#### Main

Wall	
Range	ComPacT new generation
Product Name	ComPacT NSX new generation
Device Short Name	NSX400N
Product Or Component Type	Circuit breaker
Device Application	Motor protection
Poles Description	3P
Protected Poles Description	3D
[In] Rated Current	320 A at 65 °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	85 kA Icu at 220/240 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 42 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 480 V AC 50/60 Hz conforming to UL 508
Performance Level	N 50 kA 415 V AC
Trip Unit Name	MicroLogic 2.3 M
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	85 kA at 220/240 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 42 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 11 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2

Mechanical Durability	15000 cycles
Electrical Durability	12000 cycles at 440 V ln/2 6000 cycles at 440 V ln
	6000 cycles at 690 V ln/2 3000 cycles at 690 V ln
Power Dissipation Per Pole	12.29 W
Mounting Support	Backplate
Mounting Position	Horizontal and vertical Flat on the back
Upside Connection	Front
Downside Connection	Front
Connection Pitch	45 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	320 A at 65 °C
Motor Tripping Class	5 20
	10
Complementary Motor Protection	Phase unbalance
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable 9 settings
[Ir] Long-Time Protection Pick-Up Adjustment Range	160320 A
Long-Time Protection Delay Adjustment Type Tr	Fixed
[Tr] Long-Time Protection Delay Adjustment Range	120 s at 1.5 x Ir for trip class 5 6.5 s at 6 x Ir for trip class 5
	5 s at 7.2 x lr for trip class 5 240 s at 1.5 x lr for trip class 10
	13.5 s at 6 x Ir for trip class 10
	10 s at 7.2 x Ir for trip class 10 480 s at 1.5 x Ir for trip class 20
	26 s at 6 x lr for trip class 20
	20 s at 7.2 x lr for trip class 20
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	513 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	4800 A
Earth-Leakage Protection	Without
Zone Selective Interlocking Zsi	Without
Number Of Slots For Electrical Auxiliaries	6 slot(s)
Local Signalling	Flashing LED (green) for ready to operate LED 95 % Ith (red) for temperature over set point
	140 mm
Width (W)	
Width (W) Height (H)	255 mm

## 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	15.3 cm
Package 1 Width	15.5 cm
Package 1 Length	29.3 cm
Package 1 Weight	5.627 kg

## Sustainability Screen Premium

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Transparency RoHS/REACh

#### Well-being performance

Mercury Free
Rohs Exemption Information Yes
Pvc Free
Halogen Free Plastic Parts Product

### **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
Circularity Profile	End of Life Information