# **Product datasheet**

Specification





# Circuit breaker, ComPacT NSX630F, 36kA/415VAC, 3 poles, MicroLogic Vigi 4.3 trip unit 570A

C63F34V570

### Main

IVIAIII	
Range	ComPacT new generation
Product Name	ComPacT NSX new generation
Device Short Name	NSX630F
Product Or Component Type	Earth leakage circuit breaker
Device Application	Distribution
Poles Description	3P
Protected Poles Description	3D
[In] Rated Current	570 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 36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 30 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 20 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
Performance Level	F 36 kA 415 V AC
Trip Unit Name	MicroLogic 4.3
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 36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 30 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 10 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	

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Electrical Durability	8000 cycles at 440 V In/2
Electrical Burability	4000 cycles at 440 V In 2
	6000 cycles at 690 V In/2
	2000 cycles at 690 V In
Power Dissipation Per Pole	45.49 W N
	45.49 W L1 and L3 38.99 W L2
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 R : for earth-leakage protection
Take Helt Beller	
Trip Unit Rating	570 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable 9 settings
[Ir] Long-Time Protection Pick-Up Adjustment Range	250570 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
	11 5 dt 1.2 X II
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	6900 A
Earth-Leakage Protection	Integrated
Earth-Leakage Protection Class	Class A
Earth-Leakage Protection Sensitity Adjustment Type Iδn	Adjustable
[Ion] Earth-Leakage Protection	300 mA
Sensitivity Adjustment Range	500 mA 1 A
	3 A
	5 A
	10 A
Earth-Leakage Protection Specific Mode	OFF using the IΔn rotary switch
Earth-Leakage Protection Time Delay Adjustement Type ∆t	Adjustable
[Δt] Earth-Leakage Protection	0 ms
Time Delay Adjustment Range	60 ms 150 ms
	500 ms
	1s
Zone Selective Interlocking Zsi	Without
Number Of Slots For Electrical Auxiliaries	6 slot(s)
Auxiliaries	

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)	255 mm	
Depth (D)	110 mm	
Net Weight	6.2 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**

r doking office	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	15 cm
Package 1 Width	20 cm
Package 1 Length	29 cm
Package 1 Weight	5.9 kg
Unit Type Of Package 2	S04
Number Of Units In Package 2	2
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	12.8 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	12
Package 3 Height	150 cm
Package 3 Width	80 cm
Package 3 Length	120 cm
Package 3 Weight	100 kg

# Sustainability Screen Premium

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Transparency RoHS/REACh

## Well-being performance

	Mercury Free	
<b>②</b>	Rohs Exemption Information	Yes
<b>②</b>	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
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information