

# Product datasheet

Specifications



## Circuit breaker basic frame, ComPacT NSX630F, 36kA at 415VAC 50/60 Hz, 630A, without trip unit, 3 poles

C63F3

### Main

Range	ComPacT
Product name	ComPacT NSX
Device short name	NSX630F
Product or component type	Basic frame
Device application	Distribution
Poles description	3P
[In] rated current	630 A at 40 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
Breaking capacity	85 kA at 240 V AC 50/60 Hz conforming to UL 508 25 kA Icu at 500 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 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 480 V AC 50/60 Hz conforming to UL 508 20 kA at 600 V AC 50/60 Hz conforming to UL 508 20 kA Icu at 525 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
Breaking capacity code	F 36 kA 415 V AC
Control type	Toggle
Mounting mode	Fixed

### Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[Ics] rated service breaking capacity	36 kA at 380/415 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 40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	15000 cycles conforming to IEC 60947-2
Electrical durability	6000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2 2000 cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2 4000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 8000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2

Excluding VAT, FCA Jabal Ali & amp; are subject to change – check with your local distributor.

Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	45 mm
Protection type	Without protection
Width (W)	140 mm
Height (H)	255 mm
Depth (D)	110 mm

## Environment

Standards	EN/IEC 60947-2 UL 60947-4-1
Overvoltage category	III
Electrical shock protection class	Class II on front face
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	-25...70 °C
Ambient air temperature for storage	-50...85 °C

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.000 cm
Package 1 Width	15.500 cm
Package 1 Length	30.000 cm
Package 1 Weight	4.538 kg
Unit Type of Package 2	X12
Number of Units in Package 2	36
Package 2 Height	45.000 cm
Package 2 Width	80.000 cm
Package 2 Length	120.000 cm
Package 2 Weight	180.000 kg

## Contractual warranty

Warranty (in months)	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Total lifecycle Carbon footprint	488 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	29 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.7 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.5 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	449 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	9 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	5c8b3f64-d41d-441f-90cc-da32d0570283
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
Silicone-free	No

## Use Longer




### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	56
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	Nej
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins



Offer Marketing Illustration

Product benefits / Features

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## ComPacT NSX Moulded Case Circuit Breaker



### Maximize power availability

By providing corrective, preventive, and predictive maintenance for asset management when paired to our advanced MicroLogic trip units.



### Protection begins with prevention

Designed to prevent an electrical fire and preventive maintenance thanks to its Everlink power connections.



### Connectivity

Designed to connect to EcoStruxure Power, an IoT-connected architecture for improving every aspect of your power distribution system.



Offer Marketing Illustration

Product benefits / Features

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## ComPacT NSX

### Technical Benefits



Nominal current: 100A to 630A and 9 breaking capacities for the 2 sizes of circuit breakers.

3, and 4 pole versions available.

Large range of electronic and thermal-magnetic protections.

Plug and ready wiring system and communicating accessories.

This basic frame comes without trip unit, and is compatible with any type of trip unit which has to be ordered separately.

Compatible advanced trip unit with integrated power metering: I, U, P, E, THD, f, CosPhi.

Offer Marketing Illustration

Product benefits / Features

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## ComPacT NSX Range Accessories



Wireless auxiliary contact



Trip Unit



Interphase barriers



Terminal shields



Rotary handles



Standard auxiliary contact



MN undervoltage release



MX shunt release



Standard motor mechanism module