

# Product datasheet

Specifications



## Circuit breaker ComPacT NSX630F, 36kA at 415VAC, MicroLogic 2.3 trip unit 630A, 3 poles 3d

C63F32D630

### Main

|  |   |
|--|---|
| Range  | ComPacT new generation  |
| Product Name   | ComPacT NSX new generation  |
| Device Short Name                                    | NSX630F   |
| Product Or Component Type                            | Circuit breaker   |
| Device Application                                   | Distribution  |
| Poles Description                                    | 3P  |
| Protected Poles Description                          | 3D  |
| [In] Rated Current                                   | 630 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 | 40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA at 600 V AC 50/60 Hz conforming to UL 508 |
| Performance Level                                    | F 36 kA 415 V AC  |
| Trip Unit Name                                       | MicroLogic 2.3  |
| 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 | 40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |

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

|  |  |
|--|--|
| <b>Mechanical Durability</b>                                     | 15000 cycles   |
| <b>Electrical Durability</b>                                     | 8000 cycles at 440 V In/2<br>4000 cycles at 440 V In<br>6000 cycles at 690 V In/2<br>2000 cycles at 690 V In   |
| <b>Power Dissipation Per Pole</b>                                | 39.69 W  |
| <b>Mounting Support</b>  | Backplate  |
| <b>Mounting Position</b>   | Horizontal and vertical<br>Flat on the back  |
| <b>Upside Connection</b>   | Front  |
| <b>Downside Connection</b>                                       | Front  |
| <b>Connection Pitch</b>  | 45 mm  |
| <b>Protection Type</b>   | L : for overload protection (long time)<br>So : for short time short-circuit protection with fixed delay<br>I : for instantaneous short-circuit protection |
| <b>Trip Unit Rating</b>  | 630 A at 40 °C   |
| <b>Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)</b> | Adjustable 9 settings  |
| <b>[Ir] Long-Time Protection Pick-Up Adjustment Range</b>        | 250...630 A  |
| <b>Long-Time Protection Delay Adjustment Type Tr</b>             | Fixed  |
| <b>[Tr] Long-Time Protection Delay Adjustment Range</b>          | 400 s at 1.5 x Ir<br>16 s at 6 x Ir<br>11 s at 7.2 x Ir  |
| <b>Thermal Memory</b>  | 20 minutes before and after tripping   |
| <b>Short-Time Protection Pick-Up Adjustment Type Isd</b>         | Adjustable 9 settings  |
| <b>[Isd] Short-Time Protection Pick-Up Adjustment Range</b>      | 1.5...10 x Ir  |
| <b>Short-Time Protection Delay Adjustment Type Tsd</b>           | Fixed  |
| <b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>       | Fixed  |
| <b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>    | 6900 A   |
| <b>Earth-Leakage Protection</b>                                  | Without  |
| <b>Zone Selective Interlocking Zsi</b>                           | Without  |
| <b>Number Of Slots For Electrical Auxiliaries</b>                | 6 slot(s)  |
| <b>Local Signalling</b>  | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload  |
| <b>Width (W)</b>   | 140 mm   |
| <b>Height (H)</b>  | 255 mm   |
| <b>Depth (D)</b>   | 110 mm   |
| <b>Net Weight</b>  | 6.2 kg   |

## Environment

|                               |                      |
|-------------------------------|----------------------|
| <b>Standards</b>              | EN/IEC 60947         |
| <b>Product Certifications</b> | CCC<br>EAC<br>Marine |
| <b>Overvoltage Category</b>   | Class II             |

|  |  |
|--|--|
| <b>Electrical Shock Protection Class</b>     | Class II   |
| <b>Pollution Degree</b>                      | 3 conforming to IEC 60664-1                                  |
| <b>Ip Degree Of Protection</b>               | IP40 conforming to IEC 60529                                 |
| <b>Ik Degree Of Protection</b>               | IK07 conforming to IEC 62262                                 |
| <b>Ambient Air Temperature For Operation</b> | -25...70 °C  |
| <b>Ambient Air Temperature For Storage</b>   | -50...85 °C  |
| <b>Relative Humidity</b>                     | 0...95 %   |
| <b>Operating Altitude</b>                    | 0...2000 m without derating<br>2000 m...5000 m with derating |

## Packing Units

|                                     |           |
|-------------------------------------|-----------|
| <b>Unit Type Of Package 1</b>       | PCE       |
| <b>Number Of Units In Package 1</b> | 1         |
| <b>Package 1 Height</b>             | 15.0 cm   |
| <b>Package 1 Width</b>              | 15.5 cm   |
| <b>Package 1 Length</b>             | 29.0 cm   |
| <b>Package 1 Weight</b>             | 5.728 kg  |
| <b>Unit Type Of Package 2</b>       | S04       |
| <b>Number Of Units In Package 2</b> | 2         |
| <b>Package 2 Height</b>             | 30.0 cm   |
| <b>Package 2 Width</b>              | 40.0 cm   |
| <b>Package 2 Length</b>             | 60.0 cm   |
| <b>Package 2 Weight</b>             | 12.308 kg |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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[Guide to assess a product's sustainability >](#)



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](#)