

Product datasheet

Specifications



Circuit breaker, ComPacT NSX630F DC, 36kA/750VDC, 3 poles, TM-DC trip unit 600A

C63F3TM600D

Main

| | |
|--------------------------------|---|
| Range | ComPacT |
| Product name | ComPacT NSX DC |
| Device short name | NSX630F DC |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 600 A at 40 °C |
| [Ue] rated operational voltage | 750 V DC |
| Network type | DC |
| Suitability for isolation | Yes conforming to EN/IEC 60947-2 |
| Utilisation category | Category A |
| Breaking capacity | 36 kA Icu at 24...125 V DC 1 pole conforming to IEC 60947-2 36 kA Icu at 250 V DC 1 pole conforming to IEC 60947-2 36 kA Icu at 500 V DC 2 poles in series conforming to IEC 60947-2 36 kA Icu at 750 V DC 3 poles in series conforming to IEC 60947-2 |
| Breaking capacity code | F 36 kA 750 V DC |
| Trip unit name | TM-DC |
| Trip unit technology | Thermal-magnetic |
| Trip unit protection functions | LI |
| Control type | Toggle |
| Circuit breaker mounting mode | Fixed |

Complementary

| | |
|--|---|
| [Ui] rated insulation voltage | 750 V DC 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 24...125 V DC conforming to IEC 60947-2 36 kA at 250 V DC conforming to IEC 60947-2 36 kA at 500 V DC conforming to IEC 60947-2 36 kA at 750 V DC conforming to IEC 60947-2 |
| Mechanical durability | 5000 cycles |
| Electrical durability | 2000 cycles at 750 V In/2 1000 cycles at 750 V In |
| 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 (thermal) I : for short-circuit protection (magnetic) |
| Trip unit rating | 600 A at 40 °C |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable |
| [Ir] long-time protection pick-up adjustment range | 0.7...1 x In |
| Long-time protection delay adjustment type tr | Fixed |
| Instantaneous protection pick-up adjustment type Ii | Adjustable |
| [Ii] instantaneous protection pick-up adjustment range | 2.5...5 x In |
| Earth-leakage protection | Without |
| Number of slots | 6 slot(s) |
| Width (W) | 140 mm |
| Height (H) | 255 mm |
| Depth (D) | 110 mm |
| Product weight | 8.0 kg |

Environment

| | |
|---------------------------------------|--|
| Standards | EN/IEC 60947-2 |
| 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 |
| Relative humidity | 0...95 % |
| Operating altitude | 0...2000 m without derating 2000 m...5000 m with derating |

Packing Units

| | |
|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 15.000 cm |
| Package 1 Width | 15.500 cm |
| Package 1 Length | 29.000 cm |
| Package 1 Weight | 5.471 kg |
| Unit Type of Package 2 | S04 |
| Number of Units in Package 2 | 3 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 40.000 cm |

| | |
|-------------------------------------|------------|
| Package 2 Length | 60.000 cm |
| Package 2 Weight | 17.063 kg |
| Unit Type of Package 3 | P12 |
| Number of Units in Package 3 | 12 |
| Package 3 Height | 45.000 cm |
| Package 3 Width | 80.000 cm |
| Package 3 Length | 120.000 cm |
| Package 3 Weight | 80.252 kg |

Contractual warranty

| | |
|-----------------------------|----|
| Warranty (in months) | 18 |
|-----------------------------|----|



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 | 2 113 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 36 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] | 2 065 kg CO2 eq. |
| Carbon footprint of the end-of-life phase [C1 to C4] | 11 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |

Use Better



Materials and Substances

| | |
|--|--|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| SCIP Number | E01033b9-a29d-4247-893c-b0642e7209e8 |
| EU RoHS Directive | Compliant By Exemption |
| REACH Regulation | Reference contains Substances of Very High Concern above the threshold |
| Halogen-free status | Product contains halogen above thresholds |
| PVC free | Yes |
| Silicone-free | No |

Use Longer




Lifetime extension

| | |
|--------|----|
| Repair | No |
|--------|----|

Use Again



Repack and remanufacture

| | |
|---------------------------------|---|
| Recyclability potential, in % | 59 |
| End of life manual availability | No need of specific recycling operations |
| Take-back | No |
| 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



ComPacT NSX
Range Accessories

Wireless auxiliary contact

Short terminal shield

Interphase barriers

Long terminal shield

Rotary handles

Standard auxiliary contact

MN undervoltage release

MX shunt release

Standard motor mechanism module

The image displays a collection of accessories for the ComPacT NSX circuit breaker range. At the top left, a large image shows a three-phase circuit breaker. Below it, nine individual accessories are arranged in a 3x3 grid, each with a small image and a text label. The accessories include: a wireless auxiliary contact (green and black), a short terminal shield (black), interphase barriers (black), a long terminal shield (black), rotary handles (black with green accents), a standard auxiliary contact (white), an MN undervoltage release (black), an MX shunt release (yellow and black), and a standard motor mechanism module (black).

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



ComPacT NSX
Technical Benefits

- Nominal current: 16 to 630 A and 9 breaking capacities for the 2 sizes of circuit breakers
- 1, 2, 3, and 4 pole versions available
- Large range of electronic and thermal-magnetic protections
- Plug and ready wiring system and communicating accessories
- Integrated earth leakage protection via MicroLogic Vigi (earth leakage circuit breaker - ELCB)
- Advanced trip unit with integrated power metering: I, U, P, E, THD, f, CosPhi

Offer Marketing Illustration

Product benefits / Features

ComPacT NSX Moulded Case Circuit Breaker



Protection begins with prevention

Designed to prevent an electrical fire through integrated earth leakage protection with preventive maintenance thanks to its Everlink power connections.



Maximize power availability

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



Connectivity

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



Image of product / Alternate images

Alternative

