

Product datasheet

Specifications



circuit breaker ComPacT NSX320F
DC, 36 kA at 750 VDC, TM-DC trip
unit, 320 A rating, 3 poles

C40F3TM320D

EAN Code: 3606481995001

Main

| | |
|--------------------------------|---|
| Range | ComPacT |
| Product name | ComPacT NSX DC |
| Device short name | NSX400F DC |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 320 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 | 320 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 |
| Net 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 | 14.700 cm |
| Package 1 Width | 20.000 cm |
| Package 1 Length | 29.100 cm |
| Package 1 Weight | 5.436 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 | 16.958 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 | 79.832 kg |

Logistical informations

| | |
|-------------------|----|
| Country of origin | FR |
|-------------------|----|

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 758

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number E01033b9-a29d-4247-893c-b0642e7209e8

REACH Regulation [REACH Declaration](#)

Halogen-free status Product contains halogen above thresholds

PVC free Yes

Silicone-free No

Use Again

Repack and remanufacture

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 green circular graphic partially overlaps a photograph of a circuit breaker. Below this, the title 'ComPacT NSX Range Accessories' is presented in a bold, sans-serif font. The accessories are arranged in a 3x3 grid, each accompanied by a small product photograph and a descriptive label. The labels are: 'Wireless auxiliary contact' (a green and black component), 'Short terminal shield' (a grey metal plate), 'Interphase barriers' (a black vertical plate), 'Long terminal shield' (a grey metal plate), 'Rotary handles' (a black handle with a green grip), 'Standard auxiliary contact' (a grey metal component), 'MN undervoltage release' (a black component with a white label), 'MX shunt release' (a grey component with a yellow label), and 'Standard motor mechanism module' (a black component with a red button).

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

