

# Product data sheet

Specifications



## Circuit breaker, ComPacT NSX400F DC, 36kA/750VDC, 3 poles, TM-DC trip unit 400A

C40F3TM400D

### Main

|  |   |
|--|---|
| Range  | ComPacT new generation  |
| Product name   | ComPacT NSX DC new generation   |
| Device short name                                    | NSX400F DC  |
| Product or component type                            | Circuit breaker   |
| Device application                                   | Distribution  |
| Poles description                                    | 3P  |
| Protected poles description                          | 3D  |
| [In] rated current                                   | 400 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  |
| [Icu] rated ultimate short-circuit breaking capacity | 36 kA Icu at 24...125 V DC 1 pole conforming to IEC 60947-2<br>36 kA Icu at 250 V DC 1 pole conforming to IEC 60947-2<br>36 kA Icu at 500 V DC 2 poles in series conforming to IEC 60947-2<br>36 kA Icu at 750 V DC 3 poles in series conforming to IEC 60947-2 |
| Performance level                                    | 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 short-circuit breaking capacity | 36 kA at 24...125 V DC conforming to IEC 60947-2<br>36 kA at 250 V DC conforming to IEC 60947-2<br>36 kA at 500 V DC conforming to IEC 60947-2<br>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

|  |  |
|--|--|
| <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 (thermal)<br>I : for short-circuit protection (magnetic) |
| <b>Trip unit rating</b>  | 400 A at 40 °C   |
| <b>Long-time pick-up adjustment type Ir (thermal protection)</b> | Adjustable   |
| <b>[Ir] long-time protection pick-up adjustment range</b>        | 0.7...1 x In   |
| <b>Long-time protection delay adjustment type tr</b>             | Fixed  |
| <b>Instantaneous protection pick-up adjustment type li</b>       | Adjustable   |
| <b>[li] instantaneous protection pick-up adjustment range</b>    | 2.5...5 x In   |
| <b>Earth-leakage protection</b>                                  | Without  |
| <b>Number of slots for electrical auxiliaries</b>                | 6 slot(s)  |
| <b>Width (W)</b>   | 140 mm   |
| <b>Height (H)</b>  | 255 mm   |
| <b>Depth (D)</b>   | 110 mm   |
| <b>Net weight</b>  | 8.0 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>             | 14.7 cm |

|                         |          |
|-------------------------|----------|
| <b>Package 1 Width</b>  | 20.0 cm  |
| <b>Package 1 Length</b> | 29.1 cm  |
| <b>Package 1 Weight</b> | 5.518 kg |

## Offer Sustainability

|                                    |   |
|------------------------------------|---|
| <b>Sustainable offer status</b>    | Green Premium product   |
| <b>REACH Regulation</b>            | <a href="#">REACH Declaration</a>   |
| <b>EU RoHS Directive</b>           | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| <b>Mercury free</b>                | Yes   |
| <b>China RoHS Regulation</b>       | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| <b>RoHS exemption information</b>  | <a href="#">Yes</a>   |
| <b>Environmental Disclosure</b>    | <a href="#">Product Environmental Profile</a>   |
| <b>Halogen content performance</b> | Halogen free plastic parts product  |

## Recommended replacement(s)