

# Product datasheet

Specifications



circuit breaker Compact NSX400F,  
36 kA at 415 VAC, Micrologic 2.3  
trip unit 400 A, 3 poles 3d

LV432676

Discontinued on: 03 July 2023

Discontinued

## Main

|  |   |
|--|---|
| Range  | ComPact   |
| Product name   | ComPact NSX   |
| Range of product                                     | ComPact NSX400...630  |
| Device short name                                    | NSX400F   |
| Product or component type                            | Circuit breaker   |
| Device application                                   | Distribution  |
| Number of poles                                      | 3P  |
| Protected poles description                          | 3t  |
| [In] rated current                                   | 400 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>85 kA at 240 V AC 50/60 Hz conforming to UL 508<br>25 kA Icu at 500 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>10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA at 480 V AC 50/60 Hz conforming to UL 508<br>20 kA at 600 V AC 50/60 Hz conforming to UL 508<br>20 kA Icu at 525 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 |
| 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 |
|-------------------------------|-------------------|

|  |  |
|--|--|
| <b>[Uimp] rated impulse withstand voltage</b>                    | 8 kV   |
| <b>[Ics] rated service short-circuit breaking capacity</b>       | 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>10 kA at 660/690 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>25 kA at 500 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 |
| <b>Mechanical durability</b>                                     | 15000 cycles   |
| <b>Electrical durability</b>                                     | 3000 cycles at 690 V In<br>6000 cycles at 690 V In/2<br>6000 cycles at 440 V In<br>12000 cycles at 440 V In/2  |
| <b>Mounting support</b>  | Backplate  |
| <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>  | 400 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>        | 160...400 A  |
| <b>Long-time protection delay adjustment type tr</b>             | Fixed  |
| <b>[Tr] long-time protection delay adjustment range</b>          | 16 s at 6 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>    | 4800 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>  | 6.05 kg  |
| <b>Environment</b>   |  |
| <b>Standards</b>   | EN/IEC 60947   |
| <b>Product certifications</b>                                    | CCC<br>EAC   |

|                                       |  |
|---------------------------------------|--|
|                                       | Marine   |
| Overvoltage category                  | Class II   |
| Electrical shock protection class     | Class II   |
| 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<br>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 cm     |
| Package 1 Width              | 16 cm     |
| Package 1 Length             | 29 cm     |
| Package 1 Weight             | 5.589 kg  |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 3         |
| Package 2 Height             | 30 cm     |
| Package 2 Width              | 40 cm     |
| Package 2 Length             | 60 cm     |
| Package 2 Weight             | 17.434 kg |
| Unit Type of Package 3       | P12       |
| Number of Units in Package 3 | 12        |
| Package 3 Height             | 80 cm     |
| Package 3 Width              | 80 cm     |
| Package 3 Length             | 120 cm    |
| Package 3 Weight             | 80 kg     |

### Offer Sustainability

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

|      |   |
|------|---|
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
|------|---|

Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Recommended replacement(s)

LV432676 is replaced by:

1x



Circuit breaker, ComPacT NSX400F, 36kA/415VAC, 3 poles, MicroLogic 2.3 trip unit  
400A  
C40F32D400