

# Product data sheet

Specifications



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

C40F32D400

### Main

|  |   |
|--|---|
| Range  | ComPacT new generation  |
| Product name   | ComPacT NSX new generation  |
| Device short name                                    | NSX400F   |
| 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                       | 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 |

|   |  |
|---|--|
|   | 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   |
| Mechanical durability                                     | 15000 cycles   |
| Electrical durability                                     | 12000 cycles at 440 V In/2<br>6000 cycles at 440 V In<br>6000 cycles at 690 V In/2<br>3000 cycles at 690 V In  |
| Power dissipation per pole                                | 19.2 W   |
| Mounting support  | Backplate  |
| Mounting position   | Horizontal and vertical<br>Flat on the back  |
| Upside connection   | Front  |
| Downside connection                                       | Front  |
| Connection pitch  | 45 mm  |
| Protection type   | L : for overload protection (long time)<br>So : for short time short-circuit protection with fixed delay<br>I : for instantaneous short-circuit protection |
| Trip unit rating  | 400 A at 40 °C   |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings  |
| [Ir] long-time protection pick-up adjustment range        | 160...400 A  |
| Long-time protection delay adjustment type tr             | Fixed  |
| [Tr] long-time protection delay adjustment range          | 400 s at 1.5 x Ir<br>16 s at 6 x Ir<br>11 s at 7.2 x Ir  |
| Thermal memory  | 20 minutes before and after tripping   |
| Short-time protection pick-up adjustment type Isd         | Adjustable 9 settings  |
| [Isd] Short-time protection pick-up adjustment range      | 1.5...10 x Ir  |
| Short-time protection delay adjustment type tsd           | Fixed  |
| Instantaneous protection pick-up adjustment type Ii       | Fixed  |
| [Ii] instantaneous protection pick-up adjustment range    | 4800 A   |
| Earth-leakage protection                                  | Without  |
| Zone selective interlocking ZSI                           | Without  |
| Number of slots for electrical auxiliaries                | 6 slot(s)  |
| Local signalling  | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload  |
| Width (W)   | 140 mm   |
| Height (H)  | 255 mm   |
| Depth (D)   | 110 mm   |
| Net weight  | 6.05 kg  |
| Environment   |  |
| Standards   | EN/IEC 60947   |
| Product certifications                                    | CCC<br>EAC<br>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             | 15.0 cm   |
| Package 1 Width              | 15.5 cm   |
| Package 1 Length             | 29.2 cm   |
| Package 1 Weight             | 5.624 kg  |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 2         |
| Package 2 Height             | 30 cm     |
| Package 2 Width              | 40 cm     |
| Package 2 Length             | 60 cm     |
| Package 2 Weight             | 12.103 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>   |
| PVC free                    | Yes   |
| Halogen content performance | Halogen free plastic parts product  |
| California proposition 65   | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

### Recommended replacement(s)