

# Product datasheet

Specifications



## Circuit breaker, ComPacT NSXm 160F, 36kA/415VAC, 3 poles, TMD trip unit 100A, lugs/busbars

C11F3TM100B

### Main

|  |  |
|--|--|
| Range  | ComPacT new generation   |
| Product name   | ComPacT NSXm new generation  |
| Range of product                                     | ComPacT NSXm new generation  |
| Device short name                                    | NSXm 160F  |
| Product or component type                            | Circuit breaker  |
| Device application                                   | Distribution   |
| Poles description                                    | 3P   |
| Protected poles description                          | 3D   |
| [In] rated current                                   | 100 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 IEC 60947-2  |
| Utilisation category                                 | Category A   |
| [Icu] rated ultimate short-circuit breaking capacity | 85 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>35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>15 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | F 36 kA 415 V AC   |
| Trip unit name                                       | TM-D   |
| Trip unit technology                                 | Thermal-magnetic   |
| Trip unit protection functions                       | LI   |
| 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 | 85 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 |

10 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

|  |   |
|--|---|
| <b>Mechanical durability</b>                                     | 20000 cycles  |
| <b>Electrical durability</b>                                     | 20000 cycles at 440 V In/2<br>10000 cycles at 440 V In<br>10000 cycles at 690 V In/2<br>5000 cycles at 690 V In |
| <b>Power dissipation per pole</b>                                | 8.77 W  |
| <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 terminals</b>                                      | compression lug/busbar  |
| <b>Connection pitch</b>  | 35 mm with spreaders<br>27 mm without spreaders   |
| <b>9 mm pitches</b>  | 9 module  |
| <b>Trip unit rating</b>  | 100 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>       | Fixed   |
| <b>[li] instantaneous protection pick-up adjustment range</b>    | 1250 A  |
| <b>Earth-leakage protection</b>                                  | Without   |
| <b>Number of slots for electrical auxiliaries</b>                | 1 slot(s) for auxiliary switch OF<br>1 slot(s) for alarm switch SD<br>1 slot(s) for voltage release MN or MX    |
| <b>Local signalling</b>  | Flag (green) for presence of auxiliary contacts   |
| <b>Width (W)</b>   | 81 mm   |
| <b>Height (H)</b>  | 137 mm  |
| <b>Depth (D)</b>   | 80 mm   |
| <b>Net weight</b>  | 1.06 kg   |
| <b>Colour</b>  | Grey (RAL 7016)   |

## Environment

|  |   |
|--|---|
| <b>Standards</b>                             | EN/IEC 60947                                    |
| <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>                    | 2000 m without derating<br>5000 m with derating |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 8.1 cm    |
| Package 1 Width              | 13.7 cm   |
| Package 1 Length             | 8 cm      |
| Package 1 Weight             | 1.149 kg  |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 9         |
| Package 2 Height             | 30 cm     |
| Package 2 Width              | 30 cm     |
| Package 2 Length             | 40 cm     |
| Package 2 Weight             | 12.29 kg  |
| Unit Type of Package 3       | P12       |
| Number of Units in Package 3 | 216       |
| Package 3 Height             | 150 cm    |
| Package 3 Width              | 80 cm     |
| Package 3 Length             | 120 cm    |
| Package 3 Weight             | 304.89 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>   |
| Halogen content performance | Halogen free plastic parts product  |

## Recommended replacement(s)