

# Product datasheet

Specifications



circuit breaker basic frame,  
ComPacT NSX160F, 36 kA at 415  
VAC 50/60 Hz, 160 A, without trip  
unit, 3 poles

C16F3

## Main

|   |  |
|---|--|
| <b>Range</b>  | ComPacT new generation   |
| <b>Product name</b>   | ComPacT NSX new generation   |
| <b>Device short name</b>                                    | NSX160F  |
| <b>Product or component type</b>                            | Basic frame  |
| <b>Device application</b>                                   | Distribution   |
| <b>Poles description</b>                                    | 3P   |
| <b>[In] rated current</b>                                   | 160 A at 40 °C   |
| <b>[Ue] rated operational voltage</b>                       | 690 V AC 50/60 Hz conforming to IEC 60947-2  |
| <b>Network type</b>   | AC   |
| <b>Network frequency</b>                                    | 50/60 Hz   |
| <b>Suitability for isolation</b>                            | Yes conforming to EN/IEC 60947-2   |
| <b>Utilisation category</b>                                 | Category A   |
| <b>[Icu] rated ultimate short-circuit breaking capacity</b> | 10 kA at 600 V AC 50/60 Hz conforming to UL 508<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508<br>22 kA Icu at 525 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>36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA Icu at 220/240 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>30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| <b>Performance level</b>                                    | F 36 kA 415 V AC   |
| <b>Control type</b>   | Toggle   |
| <b>Mounting mode</b>  | Fixed  |

## Complementary

|  |   |
|--|---|
| <b>[Ui] rated insulation voltage</b>                       | 800 V AC 50/60 Hz conforming to IEC 60947-2   |
| <b>[Uimp] rated impulse withstand voltage</b>              | 8 kV conforming to IEC 60947-2  |
| <b>[Ics] rated service short-circuit breaking capacity</b> | 35 kA at 440 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>85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| <b>Mechanical durability</b>                               | 40000 cycles conforming to IEC 60947-2  |
| <b>Electrical durability</b>                               | 40000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2   |

15000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2  
20000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2  
7500 cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2

|                            |                    |
|----------------------------|--------------------|
| <b>Mounting support</b>    | Backplate          |
| <b>Upside connection</b>   | Front              |
| <b>Downside connection</b> | Front              |
| <b>Connection pitch</b>    | 35 mm              |
| <b>Protection type</b>     | Without protection |
| <b>Width (W)</b>           | 105 mm             |
| <b>Height (H)</b>          | 161 mm             |
| <b>Depth (D)</b>           | 86 mm              |

## Environment

|  |                              |
|--|------------------------------|
| <b>Standards</b>                             | EN/IEC 60947-2<br>UL 508     |
| <b>Product certifications</b>                | UL<br>CSA                    |
| <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                  |

## Packing Units

|                                     |           |
|-------------------------------------|-----------|
| <b>Unit Type of Package 1</b>       | PCE       |
| <b>Number of Units in Package 1</b> | 1         |
| <b>Package 1 Weight</b>             | 1.478 kg  |
| <b>Package 1 Height</b>             | 14 cm     |
| <b>Package 1 width</b>              | 11.2 cm   |
| <b>Package 1 Length</b>             | 19.2 cm   |
| <b>Unit Type of Package 2</b>       | S03       |
| <b>Number of Units in Package 2</b> | 7         |
| <b>Package 2 Weight</b>             | 10.764 kg |
| <b>Package 2 Height</b>             | 30 cm     |
| <b>Package 2 width</b>              | 30 cm     |
| <b>Package 2 Length</b>             | 40 cm     |
| <b>Unit Type of Package 3</b>       | P12       |
| <b>Number of Units in Package 3</b> | 56        |
| <b>Package 3 Weight</b>             | 99.5 kg   |
| <b>Package 3 Height</b>             | 42.5 cm   |
| <b>Package 3 width</b>              | 80 cm     |
| <b>Package 3 Length</b>             | 120 cm    |

## Offer Sustainability

|                         |                                   |
|-------------------------|-----------------------------------|
| <b>REACH Regulation</b> | <a href="#">REACH Declaration</a> |
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|                                   |   |
|-----------------------------------|---|
| <b>EU RoHS Directive</b>          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| <b>Mercury free</b>               | Yes   |
| <b>RoHS exemption information</b> | <a href="#">Yes</a>   |
| <b>China RoHS Regulation</b>      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |

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### **Contractual warranty**

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| <b>Warranty</b> | 18 months |
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