

# Product data sheet

## Characteristics

# C25W4TM160

circuit breaker ComPacT NSX250HB2, 100 kA  
at 690 VAC, TMD trip unit 160 A, 4 poles 4d



### Main

|  |   |
|--|---|
| Range  | ComPacT new generation  |
| Product name   | ComPacT NSX new generation  |
| Device short name                                    | NSX250HB2   |
| Product or component type                            | Circuit breaker   |
| Device application                                   | Distribution  |
| Poles description                                    | 4P  |
| Protected poles description                          | 4D  |
| Neutral position                                     | Left  |
| [In] rated current                                   | 160 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 | 100 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>100 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | HB2 100 kA 690 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 | 100 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>100 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                               | 20000 cycles  |
| Electrical durability                               | 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   |
| Power dissipation per pole                          | 11.78 W   |
| Mounting support                                    | Backplate   |
| Mounting position                                   | Horizontal and vertical<br>Flat on the back   |
| Upside connection                                   | Front   |
| Downside connection                                 | Front   |
| Connection pitch                                    | 35 mm   |

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|  |  |
|--|--|
| Protection type  | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic) |
| Trip unit rating   | 160 A at 40 °C   |
| Long-time pick-up adjustment type $I_r$ (thermal protection) | Adjustable   |
| [ $I_r$ ] long-time protection pick-up adjustment range      | 0.7...1 x $I_n$  |
| Long-time protection delay adjustment type $t_r$             | Fixed  |
| [ $t_r$ ] long-time protection delay adjustment range        | 120...400 S at 1.5 x $I_n$<br>15 s at 6 x $I_r$                                      |
| Neutral protection settings                                  | 1 x $I_r$ (4D)   |
| Instantaneous protection pick-up adjustment type $I_i$       | Fixed  |
| [ $I_i$ ] instantaneous protection pick-up adjustment range  | 1250 A   |
| Earth-leakage protection                                     | Without  |
| Number of slots for electrical auxiliaries                   | 5 slot(s)  |
| Width (W)  | 140 mm   |
| Height (H)   | 161 mm   |
| Depth (D)  | 86 mm  |
| Net weight   | 2.8 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 60947   |
| Product certifications                | EAC<br>Marine<br>CCC   |
| 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             | 14.0 cm |
| Package 1 Width              | 15.0 cm |
| Package 1 Length             | 20.0 cm |
| Package 1 Weight             | 2.7 kg  |
| Unit Type of Package 2       | BB1     |
| Number of Units in Package 2 | 1       |
| Package 2 Height             | 14.0 cm |
| Package 2 Width              | 15.0 cm |
| Package 2 Length             | 20.0 cm |
| Package 2 Weight             | 2.77 kg |
| Unit Type of Package 3       | S03     |
| Number of Units in Package 3 | 3       |
| Package 3 Height             | 30.0 cm |
| Package 3 Width              | 30.0 cm |
| Package 3 Length             | 40.0 cm |
| Package 3 Weight             | 8.1 kg  |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| RoHS exemption information |  Yes   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile        |  <a href="#">End Of Life Information</a>       |
| PVC free                   | Yes   |

## Contractual warranty

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