



## Main

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                  | Compact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product name                           | Compact NSX                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product or component type              | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Device short name                      | Compact NSX160M                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Device application                     | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Poles description                      | 2P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Protected poles description            | 2t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Network type                           | DC<br>AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [In] rated current                     | 160 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [Ui] rated insulation voltage          | 750 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [Ue] rated operational voltage         | 690 V AC 50/60 Hz conforming to IEC 60947-2<br>500 V DC conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                         |
| Breaking capacity code                 | M 25 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Breaking capacity                      | 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA Icu at 250 V DC 1P conforming to IEC 60947-2<br>85 kA Icu at 125 V DC 1P conforming to IEC 60947-2<br>85 kA Icu at 500 V DC 2P conforming to IEC 60947-2<br>18 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 380/415 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 |
| [Ics] rated service breaking capacity  | 8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA at 250 V DC conforming to IEC 60947-2<br>85 kA at 125 V DC conforming to IEC 60947-2<br>85 kA at 500 V DC conforming to IEC 60947-2<br>18 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 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                                          |

|                                |                               |
|--------------------------------|-------------------------------|
| Suitability for isolation      | Yes conforming to IEC 60947-2 |
| Utilisation category           | Category A                    |
| Trip unit name                 | TM-D                          |
| Trip unit technology           | Thermal-magnetic              |
| Trip unit protection functions | LI                            |
| Pollution degree               | 3 conforming to IEC 60947     |

## Complementary

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Control type                             | Toggle                                                                                                                       |
| Mounting mode                            | Fixed                                                                                                                        |
| Mounting support                         | Backplate                                                                                                                    |
| Upside connection                        | Front                                                                                                                        |
| Downside connection                      | Front                                                                                                                        |
| Auxiliary contact composition            | Without                                                                                                                      |
| Mechanical durability                    | 40000 cycles                                                                                                                 |
| Electrical durability                    | 10000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>20000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| Connection pitch                         | 35 mm                                                                                                                        |
| Local signalling                         | Positive contact indication                                                                                                  |
| 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 Ir     | Fixed                                                                                                                        |
| Long time pick-up adjustment range       | 0.8...1 x In                                                                                                                 |
| Long time delay adjustment type          | Fixed                                                                                                                        |
| Instantaneous pick-up adjustment type li | Fixed                                                                                                                        |
| Instantaneous pick-up adjustment range   | 1250 A                                                                                                                       |
| Height                                   | 161 mm                                                                                                                       |
| Width                                    | 105 mm                                                                                                                       |
| Depth                                    | 86 mm                                                                                                                        |
| Compatibility code                       | NSX160                                                                                                                       |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | EN/IEC 60947                 |
| Product certifications                | Marine<br>EAC<br>CCC         |
| IP degree of protection               | IP40 conforming to IEC 60529 |
| IK degree of protection               | IK07 conforming to EN 50102  |
| Ambient air temperature for operation | -25...70 °C                  |
| Ambient air temperature for storage   | -50...85 °C                  |

## 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                                                                                                                   |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                         |

Contractual warranty

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