



## Main

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|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                  | Compact                                                                                                                                                                                                                                                                                                                                                                             |
| Product name                           | Compact NSX                                                                                                                                                                                                                                                                                                                                                                         |
| Product or component type              | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                     |
| Device short name                      | Compact NSX250R                                                                                                                                                                                                                                                                                                                                                                     |
| Device application                     | Distribution                                                                                                                                                                                                                                                                                                                                                                        |
| Poles description                      | 3P                                                                                                                                                                                                                                                                                                                                                                                  |
| Protected poles description            | 3t                                                                                                                                                                                                                                                                                                                                                                                  |
| Network type                           | AC                                                                                                                                                                                                                                                                                                                                                                                  |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                            |
| [In] rated current                     | 250 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                      |
| [Ui] rated insulation voltage          | 800 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                   |
| [Uimp] rated impulse withstand voltage | 8 kV                                                                                                                                                                                                                                                                                                                                                                                |
| [Ue] rated operational voltage         | 690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                   |
| Breaking capacity code                 | R 200 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                   |
| Breaking capacity                      | 200 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>200 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>200 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>80 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>45 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity  | 200 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>200 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>200 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>80 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>45 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2                         |
| Suitability for isolation              | Yes conforming to EN 60947-2<br>Yes conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                       |
| Utilisation category                   | Category A                                                                                                                                                                                                                                                                                                                                                                          |
| Trip unit name                         | Micrologic 2.2                                                                                                                                                                                                                                                                                                                                                                      |
| Trip unit technology                   | Electronic                                                                                                                                                                                                                                                                                                                                                                          |

|                                |                             |
|--------------------------------|-----------------------------|
| Trip unit protection functions | LSol                        |
| Pollution degree               | 3 conforming to IEC 60664-1 |

## Complementary

|                                                        |                                                                                                                                                                                                             |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control type                                           | Toggle                                                                                                                                                                                                      |
| Mounting mode                                          | Fixed                                                                                                                                                                                                       |
| Mounting support                                       | Backplate                                                                                                                                                                                                   |
| Upside connection                                      | Front                                                                                                                                                                                                       |
| Downside connection                                    | Front                                                                                                                                                                                                       |
| Auxiliary contact composition                          | Without                                                                                                                                                                                                     |
| Mechanical durability                                  | 20000 cycles                                                                                                                                                                                                |
| Electrical durability                                  | 10000 cycles 440 V In conforming to IEC 60947-2<br>10000 cycles 690 V In/2 conforming to IEC 60947-2<br>20000 cycles 440 V In/2 conforming to IEC 60947-2<br>5000 cycles 690 V In conforming to IEC 60947-2 |
| Connection pitch                                       | 35 mm                                                                                                                                                                                                       |
| Local signalling                                       | LED ready<br>LED 105 % Ir<br>LED 90 % Ir                                                                                                                                                                    |
| 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                                       | 250 A at 40 °C                                                                                                                                                                                              |
| Long time pick-up adjustment type Ir                   | Adjustable 9 settings                                                                                                                                                                                       |
| Long time pick-up adjustment range                     | 0.9...1 x Io                                                                                                                                                                                                |
| Long time delay adjustment type                        | Fixed                                                                                                                                                                                                       |
| [Tr] long-time delay adjustment range                  | 11 s at 7.2 x Ir<br>16 s at 6 x Ir<br>400 s at 1.5 x Ir                                                                                                                                                     |
| Thermal memory                                         | 20 minutes before and after tripping                                                                                                                                                                        |
| Short-time pick-up adjustment type I <sub>sd</sub>     | Adjustable 9 settings                                                                                                                                                                                       |
| [I <sub>sd</sub> ] short-time pick-up adjustment range | 1.5...10 x Ir                                                                                                                                                                                               |
| Short-time delay adjustment type                       | Fixed                                                                                                                                                                                                       |
| Instantaneous pick-up adjustment type I <sub>i</sub>   | Fixed                                                                                                                                                                                                       |
| Instantaneous pick-up adjustment range                 | 3000 A                                                                                                                                                                                                      |
| Height                                                 | 161 mm                                                                                                                                                                                                      |
| Width                                                  | 105 mm                                                                                                                                                                                                      |
| Depth                                                  | 86 mm                                                                                                                                                                                                       |
| Product weight                                         | 2.4 kg                                                                                                                                                                                                      |
| Compatibility code                                     | NSX250                                                                                                                                                                                                      |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Overvoltage category                  | Class II                     |
| Electrical shock protection class     | Class II                     |
| Standards                             | EN/IEC 60947                 |
| Product certifications                | EAC<br>Marine<br>CCC         |
| IP degree of protection               | IP40 conforming to IEC 60529 |
| IK degree of protection               | IK07 conforming to IEC 62262 |
| Ambient air temperature for operation | -35...70 °C                  |
| Ambient air temperature for storage   | -55...85 °C                  |

### Offer Sustainability

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                 |
| 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>                                                                         |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                               |

### Contractual warranty

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