



## Main

|                                        |                                                                                                                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                  | Compact                                                                                                                                                                              |
| Product name                           | Compact NSX                                                                                                                                                                          |
| Product or component type              | Circuit breaker                                                                                                                                                                      |
| Device short name                      | Compact NSX100HB1                                                                                                                                                                    |
| Device application                     | Distribution                                                                                                                                                                         |
| Poles description                      | 3P                                                                                                                                                                                   |
| Protected poles description            | 3t                                                                                                                                                                                   |
| Network type                           | AC                                                                                                                                                                                   |
| Network frequency                      | 50/60 Hz                                                                                                                                                                             |
| [In] rated current                     | 100 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                 | HB1 75 kA 690 V AC                                                                                                                                                                   |
| Breaking capacity                      | 85 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>80 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity  | 85 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>80 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>75 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 5.2 E                                                                                                                                                                     |
| Trip unit technology                   | Electronic                                                                                                                                                                           |
| Trip unit protection functions         | LSI                                                                                                                                                                                  |
| 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                     | 50000 cycles                                                                                                                                                                                                                   |
| Electrical durability                     | 10000 cycles 690 V In conforming to IEC 60947-2<br>20000 cycles 690 V In/2 conforming to IEC 60947-2<br>30000 cycles 440 V In conforming to IEC 60947-2<br>50000 cycles 440 V In/2 conforming to IEC 60947-2                   |
| Connection pitch                          | 35 mm                                                                                                                                                                                                                          |
| Local signalling                          | LED 105 % Ir<br>LED ready<br>LED 90 % Ir                                                                                                                                                                                       |
| Protection type                           | L : for overload protection (long time)<br>S : for short time short-circuit protection<br>I : for instantaneous short-circuit protection                                                                                       |
| Trip unit rating                          | 100 A at 40 °C                                                                                                                                                                                                                 |
| Long time pick-up adjustment type Ir      | Adjustable 9 settings                                                                                                                                                                                                          |
| Long time pick-up adjustment range        | 40...100 A                                                                                                                                                                                                                     |
| Long time delay adjustment type           | Adjustable                                                                                                                                                                                                                     |
| [Tr] long-time delay adjustment range     | 15...400 s at 1.5 x Ir<br>0.35...11 s at 7.2 x Ir<br>0.5...16 s at 6 x Ir                                                                                                                                                      |
| Thermal memory                            | 20 minutes before and after tripping                                                                                                                                                                                           |
| Short-time pick-up adjustment type Isd    | Adjustable 9 settings                                                                                                                                                                                                          |
| [Isd] short-time pick-up adjustment range | 1.5...10 x Ir                                                                                                                                                                                                                  |
| Short-time delay adjustment type          | Adjustable                                                                                                                                                                                                                     |
| [Tsd] short-time delay adjustment range   | 0...0.4 s                                                                                                                                                                                                                      |
| Instantaneous pick-up adjustment type li  | Adjustable                                                                                                                                                                                                                     |
| Instantaneous pick-up adjustment range    | 1.5...15 x In                                                                                                                                                                                                                  |
| Zone selective interlocking ZSI           | With                                                                                                                                                                                                                           |
| Communication of data                     | Maintenance indicators<br>Maximeters/minimeters<br>Protection and alarm settings<br>Time-stamped histories and event tables<br>Energy metering<br>Demand current and power<br>Instantaneous and demand values<br>Power quality |
| Display type                              | LCD display                                                                                                                                                                                                                    |
| Type of measurement                       | Energy meter                                                                                                                                                                                                                   |
| Electrical data recording                 | Maintenance indicators                                                                                                                                                                                                         |
| Height                                    | 161 mm                                                                                                                                                                                                                         |
| Width                                     | 105 mm                                                                                                                                                                                                                         |
| Depth                                     | 86 mm                                                                                                                                                                                                                          |
| Product weight                            | 2.05 kg                                                                                                                                                                                                                        |
| Compatibility code                        | NSX100                                                                                                                                                                                                                         |

## Environment

|                      |          |
|----------------------|----------|
| Overvoltage category | Class II |
|----------------------|----------|

|                                       |                              |
|---------------------------------------|------------------------------|
| Electrical shock protection class     | Class II                     |
| Standards                             | EN/IEC 60947                 |
| Product certifications                | EAC<br>CCC<br>Marine         |
| 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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