

# Product datasheet

Specifications



## I-Line circuit breaker, 3 Poles, 50A rating, 25kA, TMD trip unit adapted ComPacT NSX new generation

IL0503P25

### Main

|                                                      |                                                         |
|------------------------------------------------------|---------------------------------------------------------|
| Range                                                | I-Line                                                  |
| Range of product                                     | ComPacT NSX100...250 new generation                     |
| Device short name                                    | NSX100B                                                 |
| Product or component type                            | Circuit breaker                                         |
| Device application                                   | Distribution                                            |
| Number of poles                                      | 3P                                                      |
| [In] rated current                                   | 50 A at 40 °C                                           |
| [Ue] rated operational voltage                       | 690 V AC 50/60 Hz conforming to EN/IEC 60947-2          |
| Suitability for isolation                            | Yes conforming to EN/IEC 60947-2                        |
| Utilisation category                                 | Category A                                              |
| [Icu] rated ultimate short-circuit breaking capacity | 25 kA Icu at 415 V AC 50/60 Hz conforming to EN 60947-2 |
| Performance level                                    | B                                                       |
| Trip unit name                                       | TM-D                                                    |
| Trip unit technology                                 | Thermal-magnetic                                        |
| Trip unit protection functions                       | LI                                                      |
| Control type                                         | Toggle                                                  |
| Mounting location                                    | I-Line                                                  |

### Complementary

|                                                     |                                                                                                                  |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage                       | 800 V AC 50/60 Hz conforming to EN/IEC 60947-2                                                                   |
| [Uimp] rated impulse withstand voltage              | 8 kV conforming to EN/IEC 60947-2                                                                                |
| [Ics] rated service short-circuit breaking capacity | 25 kA at 415 V AC 50/60 Hz conforming to EN/IEC 60947-2                                                          |
| Mechanical durability                               | 20000 cycles                                                                                                     |
| Electrical durability                               | 50000 cycles at 440 V In/2<br>30000 cycles at 440 V In<br>20000 cycles at 690 V In/2<br>10000 cycles at 690 V In |
| Protection type                                     | L : for overload protection (long time)<br>I : for short-circuit protection (magnetic)                           |

|                                                           |                                           |
|-----------------------------------------------------------|-------------------------------------------|
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable                                |
| [Ir] long-time protection pick-up adjustment range        | 0.7...1 x In                              |
| Long-time protection delay adjustment type tr             | Fixed                                     |
| [Tr] long-time protection delay adjustment range          | 120...400 s at 1.5 x Ir<br>15 s at 6 x Ir |
| Instantaneous protection pick-up adjustment type li       | Fixed                                     |
| [li] instantaneous protection pick-up adjustment range    | 500 A                                     |
| Width (W)                                                 | 105 mm                                    |
| Height (H)                                                | 161 mm                                    |
| Depth (D)                                                 | 86 mm                                     |
| Net weight                                                | 2.05 kg                                   |
| Colour                                                    | Grey                                      |

## Environment

|                                       |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| Standards                             | EN/IEC 60947-1<br>EN/IEC 60947-2                                |
| 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                     | 95 %                                                            |
| Operating altitude                    | 0...2000 m without derating<br>2000 m...5000 m without derating |

## Contractual warranty

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