

# Product datasheet

Specifications



I-Line circuit breaker, 3 Poles, 160A rating, 36kA, MicroLogic 2.2 trip unit adapted ComPacT NSX new generation

IL1603P36ML2

## Main

|                                                      |                                                         |
|------------------------------------------------------|---------------------------------------------------------|
| Range                                                | I-Line                                                  |
| Range of product                                     | ComPacT NSX100...250 new generation                     |
| Device short name                                    | NSX160F                                                 |
| Product or component type                            | Circuit breaker                                         |
| Device application                                   | Distribution                                            |
| Number of poles                                      | 3P                                                      |
| [In] rated current                                   | 160 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 | 36 kA Icu at 415 V AC 50/60 Hz conforming to EN 60947-2 |
| Performance level                                    | F                                                       |
| Trip unit name                                       | Micrologic 2.2                                          |
| Trip unit technology                                 | Electronic                                              |
| Trip unit protection functions                       | LSol                                                    |
| 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 | 36 kA at 415 V AC 50/60 Hz conforming to EN/IEC 60947-2                                                                                                    |
| Mechanical durability                               | 40000 cycles                                                                                                                                               |
| Electrical durability                               | 40000 cycles at 440 V In/2<br>20000 cycles at 440 V In<br>15000 cycles at 690 V In/2<br>7500 cycles at 690 V In                                            |
| 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 |

|                                                           |                                                                                                                   |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable                                                                                                        |
| [Ir] long-time protection pick-up adjustment range        | 63...160 A                                                                                                        |
| Long-time protection delay adjustment type tr             | Fixed                                                                                                             |
| [Tr] long-time protection delay adjustment range          | 400 s at 1.5 x Ir<br>16 s at 6 x Ir<br>11 s at 7.2 x Ir                                                           |
| Thermal memory                                            | 20 minutes before and after tripping                                                                              |
| Short-time protection pick-up adjustment type Isd         | Adjustable                                                                                                        |
| [Isd] Short-time protection pick-up adjustment range      | 1.5...10 x Ir                                                                                                     |
| Short-time protection delay adjustment type tsd           | Fixed                                                                                                             |
| Instantaneous protection pick-up adjustment type li       | Fixed                                                                                                             |
| [li] instantaneous protection pick-up adjustment range    | 2400 A                                                                                                            |
| Local signalling                                          | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload |
| Width (W)                                                 | 105 mm                                                                                                            |
| Height (H)                                                | 161 mm                                                                                                            |
| Depth (D)                                                 | 86 mm                                                                                                             |
| Net weight                                                | 2.2 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 |
|----------|-----------|