

# C11H4TM100L

Circuit breaker, ComPacT NSXm 160H, 70kA/415VAC, 4 poles 4D (neutral fully protected), TMD trip unit 100A, EverLink lugs



## Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                                                                                                                                                                                                                                                                  |
| Product name                                         | ComPacT NSXm new generation                                                                                                                                                                                                                                                                                                                                                             |
| Range of product                                     | ComPacT NSXm new generation                                                                                                                                                                                                                                                                                                                                                             |
| Device short name                                    | NSXm 160H                                                                                                                                                                                                                                                                                                                                                                               |
| Product or component type                            | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                         |
| Device application                                   | Distribution                                                                                                                                                                                                                                                                                                                                                                            |
| Poles description                                    | 4P                                                                                                                                                                                                                                                                                                                                                                                      |
| Protected poles description                          | 4D                                                                                                                                                                                                                                                                                                                                                                                      |
| Neutral position                                     | Left                                                                                                                                                                                                                                                                                                                                                                                    |
| [In] rated current                                   | 100 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                          |
| [Ue] rated operational voltage                       | 690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                       |
| Network type                                         | AC                                                                                                                                                                                                                                                                                                                                                                                      |
| Network frequency                                    | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                |
| Suitability for isolation                            | Yes conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                           |
| Utilisation category                                 | Category A                                                                                                                                                                                                                                                                                                                                                                              |
| [Icu] rated ultimate short-circuit breaking capacity | 100 KA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>70 KA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>65 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>30 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>22 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 660...690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | H 70 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                        |
| Trip unit name                                       | TM-D                                                                                                                                                                                                                                                                                                                                                                                    |
| Trip unit technology                                 | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                        |
| Trip unit protection functions                       | LI                                                                                                                                                                                                                                                                                                                                                                                      |
| Control type                                         | Toggle                                                                                                                                                                                                                                                                                                                                                                                  |
| Circuit breaker mounting mode                        | Fixed                                                                                                                                                                                                                                                                                                                                                                                   |

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## Complementary

|                                                           |                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage                             | 800 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                |
| [Uimp] rated impulse withstand voltage                    | 8 kV                                                                                                                                                                                                                                                                                                                                                             |
| [Ics] rated service short-circuit breaking capacity       | 100 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>2.5 kA at 660...690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                                     | 20000 cycles                                                                                                                                                                                                                                                                                                                                                     |
| Electrical durability                                     | 20000 Cycles at 440 V In/2<br>10000 Cycles at 440 V In<br>10000 Cycles at 690 V In/2<br>5000 cycles at 690 V In                                                                                                                                                                                                                                                  |
| Power dissipation per pole                                | 8.77 W                                                                                                                                                                                                                                                                                                                                                           |
| Mounting support                                          | Backplate                                                                                                                                                                                                                                                                                                                                                        |
| Mounting position                                         | Horizontal and vertical<br>Flat on the back                                                                                                                                                                                                                                                                                                                      |
| Upside connection                                         | Front                                                                                                                                                                                                                                                                                                                                                            |
| Downside connection                                       | Front                                                                                                                                                                                                                                                                                                                                                            |
| Connection terminals                                      | 1 Everlink lug wire size 2.5...95 mm <sup>2</sup> , rigid or stranded aluminium/copper<br>1 Everlink lug wire size 2.5...70 mm <sup>2</sup> , flexible copper                                                                                                                                                                                                    |
| Connection pitch                                          | 35 Mm with spreaders<br>27 mm without spreaders                                                                                                                                                                                                                                                                                                                  |
| 9 mm pitches                                              | 12 module                                                                                                                                                                                                                                                                                                                                                        |
| Trip unit rating                                          | 100 A at 40 °C                                                                                                                                                                                                                                                                                                                                                   |
| 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                                                                                                                                                                                                                                                                                                                                                            |
| Neutral protection settings                               | 1 x Ir (4D)                                                                                                                                                                                                                                                                                                                                                      |
| Instantaneous protection pick-up adjustment type li       | Fixed                                                                                                                                                                                                                                                                                                                                                            |
| [li] instantaneous protection pick-up adjustment range    | 1250 A                                                                                                                                                                                                                                                                                                                                                           |
| Earth-leakage protection                                  | Without                                                                                                                                                                                                                                                                                                                                                          |
| Number of slots for electrical auxiliaries                | 1 slot(s) for auxiliary switch OF<br>1 slot(s) for alarm switch SD<br>1 slot(s) for voltage release MN or MX                                                                                                                                                                                                                                                     |
| Local signalling                                          | Flag (green) for presence of auxiliary contacts                                                                                                                                                                                                                                                                                                                  |
| Width (W)                                                 | 108 mm                                                                                                                                                                                                                                                                                                                                                           |
| Height (H)                                                | 137 mm                                                                                                                                                                                                                                                                                                                                                           |
| Depth (D)                                                 | 80 mm                                                                                                                                                                                                                                                                                                                                                            |
| Net weight                                                | 1.42 kg                                                                                                                                                                                                                                                                                                                                                          |
| Colour                                                    | Grey (RAL 7016)                                                                                                                                                                                                                                                                                                                                                  |

## Environment

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

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 12 cm     |
| Package 1 Width              | 13 cm     |
| Package 1 Length             | 22 cm     |
| Package 1 Weight             | 1.6 kg    |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 6         |
| Package 2 Height             | 30 cm     |
| Package 2 Width              | 30 cm     |
| Package 2 Length             | 40 cm     |
| Package 2 Weight             | 10.19 kg  |
| Unit Type of Package 3       | P12       |
| Number of Units in Package 3 | 144       |
| Package 3 Height             | 150 cm    |
| Package 3 Width              | 80 cm     |
| Package 3 Length             | 120 cm    |
| Package 3 Weight             | 254.49 kg |

## Offer Sustainability

|                             |                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status    | Green Premium product                                                                                                             |
| REACH Regulation            |  <a href="#">REACH Declaration</a>               |
| EU RoHS Directive           | Compliant with Exemptions                                                                                                         |
| Mercury free                | Yes                                                                                                                               |
| China RoHS Regulation       |  <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information  |  <a href="#">Yes</a>                           |
| Environmental Disclosure    |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile         | No need of specific recycling operations                                                                                          |
| Halogen content performance | Halogen free plastic parts product                                                                                                |