

## LV430861

circuit breaker Compact NSX160N - TMD - 125 A - 4 poles 4d



### Main

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|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product or component type              | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Device short name                      | Compact NSX160N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Circuit breaker application            | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Poles description                      | 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protected poles description            | 4t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Neutral position                       | Left                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Network type                           | AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [In] rated current                     | 160 A ( 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                 | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Breaking capacity                      | 10 kA at 600 V AC 50/60 Hz conforming to UL 508<br>20 kA at 600 V AC 50/60 Hz conforming to NEMA AB1<br>50 kA at 480 V AC 50/60 Hz conforming to NEMA AB1<br>50 kA at 480 V AC 50/60 Hz conforming to UL 508<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508<br>90 kA at 240 V AC 50/60 Hz conforming to NEMA AB1<br>Icu 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 36 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity  | Ics 10 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 35 kA 525 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 36 kA 500 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 50 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 50 kA 440 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 90 kA 220/240 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                         | TM-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Trip unit technology                   | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Trip unit protection functions         | LI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Trip unit rating                       | 125 A ( 40 °C )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Protection type                        | Overload protection (thermal)<br>Short-circuit protection (magnetic)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Complementary

|                                           |                                                                                                                                                                                                             |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control type                              | Toggle                                                                                                                                                                                                      |
| Mounting mode                             | Fixed                                                                                                                                                                                                       |
| Mounting support                          | Backplate                                                                                                                                                                                                   |
| Upside connection                         | Front                                                                                                                                                                                                       |
| Downside connection                       | Front                                                                                                                                                                                                       |
| Mechanical durability                     | 40000 cycles                                                                                                                                                                                                |
| Electrical durability                     | 10000 cycles 440 V In/2 conforming to IEC 60947-2<br>15000 cycles 690 V In/2 conforming to IEC 60947-2<br>20000 cycles 440 V In conforming to IEC 60947-2<br>7500 cycles 690 V In conforming to IEC 60947-2 |
| Connection pitch                          | 35 mm                                                                                                                                                                                                       |
| Local signalling                          | Positive contact indication                                                                                                                                                                                 |
| Neutral protection setting                | 1 x Ir 4t                                                                                                                                                                                                   |
| Long time pick-up adjustment type Ir      | Adjustable                                                                                                                                                                                                  |
| Long time pick-up adjustment range        | 0.7...1 x In                                                                                                                                                                                                |
| Long time delay adjustment type           | Fixed                                                                                                                                                                                                       |
| [tr] long-time delay adjustment           | 15 s 6 x Ir<br>120...400 s 1.5 x In                                                                                                                                                                         |
| Short-time pick-up adjustment type Isd    | Fixed                                                                                                                                                                                                       |
| [Isd] short-time pick-up adjustment range | 1250 A                                                                                                                                                                                                      |
| Short-time delay adjustment type          | Fixed                                                                                                                                                                                                       |
| Height                                    | 161 mm                                                                                                                                                                                                      |
| Width                                     | 140 mm                                                                                                                                                                                                      |
| Depth                                     | 86 mm                                                                                                                                                                                                       |
| Product weight                            | 2.6 kg                                                                                                                                                                                                      |

## Environment

|                                       |                                                 |
|---------------------------------------|-------------------------------------------------|
| Electrical shock protection class     | Class II                                        |
| Standards                             | EN 60947-2<br>IEC 60947-2<br>NEMA AB1<br>UL 508 |
| Product certifications                | CSA<br>UL                                       |
| 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                                                 |
| RoHS                             | Compliant - since 0819 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available                                                             |
| Product end of life instructions | Available                                                             |