

# Product datasheet

Specifications



circuit breaker ComPacT NSXm N (50 kA at 415 VAC). 3P 3d. 160 A rating TMD trip unit. EverLink connectors

C12N3TM160L

**Price: 6,039.36 ZAR**

## Main

|  |  |
|--|--|
| Range  | ComPacT  |
| Product name   | ComPacT NSXm   |
| Device short name                                    | NSXm 160N  |
| Product or component type                            | Circuit breaker  |
| Device application                                   | Distribution   |
| Poles description                                    | 3P   |
| Protected poles description                          | 3D   |
| [In] rated current                                   | 160 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 | 90 kA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | N 50 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  |

## 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 | 90 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA at 440 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  |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

|   |   |
|---|---|
| Power dissipation per pole                                | 13.7 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...70 mm <sup>2</sup> , flexible copper<br>1 Everlink lug wire size 2.5...95 mm <sup>2</sup> , rigid or stranded copper |
| Connection pitch  | 35 mm with spreaders<br>27 mm without spreaders   |
| 9 mm pitches  | 9 module  |
| Trip unit rating  | 160 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   |
| Instantaneous protection pick-up adjustment type Ii       | Fixed   |
| [Ii] 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)   | 81 mm   |
| Height (H)  | 137 mm  |
| Depth (D)   | 80 mm   |
| Net weight  | 1.06 kg   |
| Colour  | Grey (RAL 7016)   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | EN/IEC 60947-2                                  |
| Overvoltage category                  | III   |
| Electrical shock protection class     | Class II on front face                          |
| 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 |
|------------------------|-----|

|                                     |           |
|-------------------------------------|-----------|
| <b>Number of Units in Package 1</b> | 1         |
| <b>Package 1 Height</b>             | 12.0 cm   |
| <b>Package 1 Width</b>              | 8.8 cm    |
| <b>Package 1 Length</b>             | 21.0 cm   |
| <b>Package 1 Weight</b>             | 1.202 kg  |
| <b>Unit Type of Package 2</b>       | S03       |
| <b>Number of Units in Package 2</b> | 9         |
| <b>Package 2 Height</b>             | 30.0 cm   |
| <b>Package 2 Width</b>              | 30.0 cm   |
| <b>Package 2 Length</b>             | 40.0 cm   |
| <b>Package 2 Weight</b>             | 11.202 kg |

## Contractual warranty

|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 18 |
|-----------------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 208

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number 4b89979a-b2b4-46f7-b291-ed2599c8d205

REACH Regulation [REACH Declaration](#)

Halogen-free status Halogen free plastic parts product

PVC free Yes

Silicone-free No

## Use Longer

### Lifetime extension

Repair No

## Use Again

### Repack and remanufacture

End of life manual availability No need of specific recycling operations

Take-back No

WEEE Label The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Offer Marketing Illustration

Product benefits / Features

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## CompacT NSXm Technical Benefits



- Come in one size and are optimized for small spaces.
- 3 or 4 pole versions
- Rated currents: 16 to 160A
- Thermal-magnetic protections
- Breaking capacities under 240/415 V  
16, 25, 36, 50, 70 kA
- Integrated earth leakage protection via MicroLogic Vigi (earth leakage circuit breaker - ELCB)
- EverLink™ connectors for bare cables

Offer Marketing Illustration

Product benefits / Features

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## Compact NSXm Range Accessories



Wireless  
indication auxiliary



Long terminal  
shield



Standard  
auxiliary contact



Rotary handles



Inter-phase barrier



Toggle padlocking  
device



MN undervoltage  
release



Standard MX shunt  
release

Offer Marketing Illustration

Product benefits / Features

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## CompacT NSXm Technical Features



Offer Marketing Illustration

Product benefits / Features

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## CompacT NSXm Moulded Case Circuit Breaker



### Efficiency

It features integrated earth leakage protection and standardized accessories – which means you save space, time, and effort.



### Reliability

Optimized in size and featuring innovations tailored to your needs. Roto-active™ breaking technology helps to increase operation lifespan.



### Connectivity

Designed to connect to EcoStruxure Power, an IoT-connected architecture for improving every aspect of your power distribution system.



Technical Illustration

Assembly's dimensions

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