

# Product datasheet

Specifications



trip unit MicroLogic 5.2 E for  
ComPacT NSX 100/160/250 circuit  
breakers. electronic. rating 40A. 4  
poles 4d

C1045E040

**Price: 4,498.70 ZAR**

## Main

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | ComPacT                                                                                                                                  |
| Range of product               | ComPacT NSX100...250                                                                                                                     |
| Product or component type      | Trip unit                                                                                                                                |
| Trip unit name                 | MicroLogic 5.2 E                                                                                                                         |
| Trip unit technology           | Electronic                                                                                                                               |
| Range compatibility            | ComPacT NSX100<br>ComPacT NSX160<br>ComPacT NSX250                                                                                       |
| Device application             | Distribution                                                                                                                             |
| Poles description              | 4P                                                                                                                                       |
| Protected poles description    | 3D + N/2<br>4D<br>3D + OSN<br>3D                                                                                                         |
| Neutral position               | Left                                                                                                                                     |
| Trip unit protection functions | LSI                                                                                                                                      |
| Protection type                | L : for overload protection (long time)<br>S : for short time short-circuit protection<br>I : for instantaneous short-circuit protection |
| Trip unit rating               | 40 A at 40 °C                                                                                                                            |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz                                                                                                                        |
| Network type                   | AC                                                                                                                                       |
| Network frequency              | 50/60 Hz                                                                                                                                 |
| Circuit breaker mounting mode  | Fixed                                                                                                                                    |

## Complementary

|                                                           |                                                                                 |
|-----------------------------------------------------------|---------------------------------------------------------------------------------|
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings                                                           |
| [Ir] long-time protection pick-up adjustment range        | 18...40 A                                                                       |
| Long-time protection delay adjustment type tr             | Adjustable                                                                      |
| [tr] long-time protection delay adjustment range          | 15...400 s at 1.5 x Ir<br>0.35...11 s at 7.2 x Ir<br>0.5...16 s at 6 x Ir       |
| Neutral protection settings                               | 0.5 x Ir (3D + N/2)<br>1 x Ir (4D)<br>1.6 x Ir (3D + OSN)<br>No protection (3D) |

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

Disclaimer: 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

|                                                        |                                                                                                                                                                                                                                |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thermal memory                                         | 20 minutes before and after tripping                                                                                                                                                                                           |
| Short-time protection pick-up adjustment type Isd      | Adjustable 9 settings                                                                                                                                                                                                          |
| [Isd] Short-time protection pick-up adjustment range   | 1.5...10 x Ir                                                                                                                                                                                                                  |
| Short-time protection delay adjustment type tsd        | Adjustable                                                                                                                                                                                                                     |
| [tsd] Short-time protection delay adjustment range     | 0...0.4 s I²t=off<br>0.1...0.4 s I²t=on                                                                                                                                                                                        |
| Instantaneous protection pick-up adjustment type Ii    | Adjustable                                                                                                                                                                                                                     |
| [Ii] instantaneous protection pick-up adjustment range | 1.5...15 x In                                                                                                                                                                                                                  |
| Earth-leakage protection                               | Without                                                                                                                                                                                                                        |
| Zone selective interlocking ZSI                        | With                                                                                                                                                                                                                           |
| Local signalling                                       | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload                                                                                                              |
| Display type                                           | LCD display                                                                                                                                                                                                                    |
| Type of measurement                                    | Energy meter                                                                                                                                                                                                                   |
| Communication of data                                  | Energy metering<br>Protection and alarm settings<br>Time-stamped histories and event tables<br>Instantaneous and demand values<br>Maintenance indicators<br>Demand current and power<br>Power quality<br>Maximeters/minimeters |
| Electrical data recording                              | Maintenance indicators                                                                                                                                                                                                         |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | EN/IEC 60947-2               |
| Electrical shock protection class     | Class II                     |
| Pollution degree                      | 3 conforming to IEC 60947-1  |
| IP degree of protection               | IP40 conforming to IEC 60529 |
| Ambient air temperature for operation | -25...70 °C                  |
| Ambient air temperature for storage   | -40...85 °C                  |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 9.800 cm  |
| Package 1 Width              | 11.000 cm |
| Package 1 Length             | 15.000 cm |
| Package 1 Weight             | 668.000 g |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 11        |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |

|                  |          |
|------------------|----------|
| Package 2 Weight | 7.748 kg |
|------------------|----------|

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 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                       | 19 kg CO2 eq.                                 |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |
| Carbon footprint of the manufacturing phase [A1 to A3] | 6 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]        | 0.1 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0.1 kg CO2 eq.                                |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 12 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 1 kg CO2 eq.                                  |

## Use Better



### Materials and Substances

|                                        |                                           |
|----------------------------------------|-------------------------------------------|
| Packaging made with recycled cardboard | Yes                                       |
| Packaging without single use plastic   | No                                        |
| <a href="#">EU RoHS Directive</a>      | Compliant with Exemptions                 |
| SCIP Number                            | 9cd110c5-7f48-4bb3-91b8-ba77f361496d      |
| REACH Regulation                       | <a href="#">REACH Declaration</a>         |
| Halogen-free status                    | Product contains halogen above thresholds |
| PVC free                               | Yes                                       |
| Silicone-free                          | No                                        |

## Use Longer



### Lifetime extension

|              |     |
|--------------|-----|
| Repair       | No  |
| Updatability | Yes |

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 58                                                                                                                                                                                                              |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| 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

## ComPacT NSX

### Moulded Case Circuit Breaker



#### Protection begins with prevention

Designed to prevent an electrical fire through integrated earth leakage protection with preventive maintenance thanks to its Everlink power connections.



#### Maximize power availability

By providing corrective, preventive, and predictive maintenance for asset management thanks to our advanced MicroLogic trip units.



#### Connectivity

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



Offer Marketing Illustration

Product benefits / Features



### ComPacT NSX

#### Technical Benefits

- Nominal current: 16 to 630 A and 9 breaking capacities for the 2 sizes of circuit breakers
- 1, 2, 3, and 4 pole versions available
- Large range of electronic and thermal-magnetic protections
- Plug and ready wiring system and communicating accessories
- Integrated earth leakage protection via MicroLogic Vigi (earth leakage circuit breaker - ELCB)
- Advanced trip unit with integrated power metering: I, U, P, E, THD, f, CosPhi