

# Product datasheet

Specifications



trip unit MicroLogic 4.2 for ComPact NSX 100/160/250 circuit breakers, electronic, rating 40A, 3 poles 3d

LV433800

⚠ Discontinued on: 2 May 2023

⚠ Discontinued

## Main

|                                |                                                                                                                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | ComPact                                                                                                                                                                                        |
| Range of product               | ComPact NSX100...250                                                                                                                                                                           |
| Product or component type      | Trip unit                                                                                                                                                                                      |
| Trip unit name                 | MicroLogic 4.2                                                                                                                                                                                 |
| Trip unit technology           | Electronic                                                                                                                                                                                     |
| Range compatibility            | ComPact NSX100<br>ComPact NSX160<br>ComPact NSX250                                                                                                                                             |
| Device application             | Distribution                                                                                                                                                                                   |
| Number of poles                | 3P                                                                                                                                                                                             |
| Protected poles description    | 3t                                                                                                                                                                                             |
| Neutral position               | Left                                                                                                                                                                                           |
| Trip unit protection functions | LSolR                                                                                                                                                                                          |
| 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<br>R : for earth-leakage protection |
| Trip unit rated current        | 40 A at 40 °C                                                                                                                                                                                  |
| [Ue] rated operational voltage | 440 V AC 50/60 Hz                                                                                                                                                                              |
| Network type                   | AC                                                                                                                                                                                             |
| Network frequency              | 50/60 Hz                                                                                                                                                                                       |

## 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             | Fixed                                                   |
| [tr] long-time protection delay adjustment range          | 11 s at 7.2 x Ir<br>16 s at 6 x Ir<br>400 s at 1.5 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                                                   |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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

|                                                             |                                                                                                                                                                    |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [tsd] Short-time protection delay adjustment range          | 0.02 s                                                                                                                                                             |
| Instantaneous protection pick-up adjustment type li         | Fixed                                                                                                                                                              |
| [li] instantaneous protection pick-up adjustment range      | 600 A                                                                                                                                                              |
| Earth-leakage protection                                    | Integrated                                                                                                                                                         |
| Earth-leakage protection class                              | Class A                                                                                                                                                            |
| Earth-leakage protection sensitivity adjustment type IΔn    | Adjustable                                                                                                                                                         |
| [IΔn] earth-leakage protection sensitivity adjustment range | 1 A<br>100 mA<br>300 mA<br>30 mA<br>5 A<br>500 mA<br>3 A                                                                                                           |
| Earth-leakage protection specific mode                      | OFF using the IΔn rotary switch                                                                                                                                    |
| Earth-leakage protection time delay adjustment type Δt      | Adjustable                                                                                                                                                         |
| [Δt] Earth-leakage protection time delay adjustment range   | 0 ms<br>500 ms<br>60 ms<br>1 s<br>150 ms                                                                                                                           |
| Zone selective interlocking ZSI                             | Without                                                                                                                                                            |
| Local signalling                                            | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload<br>Color indicator (yellow) for residual current |

## Environment

|                                       |                                                 |
|---------------------------------------|-------------------------------------------------|
| Standards                             | EN 60947-2<br>NEMA AB1<br>IEC 60947-2<br>UL 508 |
| Product certifications                | CB<br>EAC<br>CCC                                |
| 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             | 10.0 cm |
| Package 1 Width              | 11.0 cm |
| Package 1 Length             | 15.0 cm |
| Package 1 Weight             | 618.0 g |
| Unit Type of Package 2       | S03     |
| Number of Units in Package 2 | 10      |
| Package 2 Height             | 30.0 cm |

|                  |         |
|------------------|---------|
| Package 2 Width  | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 6.6 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                                                                          | 6 kg CO2 eq.                                  |
| Carbon footprint of the manufacturing phase [A1 to A3]                                                    | 4 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]                                                           | 0.1 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]                                                           | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]                                                        | 1 kg CO2 eq.                                  |
| Carbon footprint of the end-of-life phase [C1 to C4]                                                      | 0.1 kg CO2 eq.                                |
| Environmental Disclosure                                                                                  | <a href="#">Product Environmental Profile</a> |

Use Better

|  Materials and Substances |                                        |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------|
| EU RoHS Directive                                                                                           | <a href="#">Compliant By Exemption</a> |

Use Longer

|  Lifetime extension |    |
|--------------------------------------------------------------------------------------------------------|----|
| Repair                                                                                                 | No |

Use Again

|  Repack and remanufacture |                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| End of life manual availability                                                                              | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| WEEE Label                                                                                                   |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |