

# Product data sheet

Specifications



trip unit MicroLogic 6.2 E-M for  
ComPact NSX 100/160/250 circuit  
breakers, electronic, rating 80 A, 3  
poles 3d

LV429180

! Discontinued

! Discontinued on: Oct 26, 2023

Important message: This product has been switched to new  
ComPacT range and is no longer commercialized.

## Main

|                                |                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | ComPact                                                                                                                                                                     |
| Range Of Product               | ComPact NSX100...250                                                                                                                                                        |
| Product Or Component Type      | Trip unit                                                                                                                                                                   |
| Trip Unit Name                 | MicroLogic 6.2 E-M                                                                                                                                                          |
| Trip Unit Technology           | Electronic                                                                                                                                                                  |
| Range Compatibility            | ComPact NSX100<br>ComPact NSX160<br>ComPact NSX250                                                                                                                          |
| Device Application             | Motor                                                                                                                                                                       |
| Number Of Poles                | 3P                                                                                                                                                                          |
| Protected Poles Description    | 3t                                                                                                                                                                          |
| Trip Unit Protection Functions | LSIG                                                                                                                                                                        |
| Protection Type                | L : for overload protection (long time)<br>S : for short time short-circuit protection<br>I : for instantaneous short-circuit protection<br>G : for ground fault protection |
| Trip Unit Rated Current        | 80 A at 65 °C                                                                                                                                                               |
| [Ue] Rated Operational Voltage | 690 V AC 50/60 Hz                                                                                                                                                           |
| Network Type                   | AC                                                                                                                                                                          |
| Network Frequency              | 50/60 Hz                                                                                                                                                                    |

## Complementary

|                                                              |                                                                             |
|--------------------------------------------------------------|-----------------------------------------------------------------------------|
| Motor Tripping Class                                         | 30<br>20<br>10<br>5                                                         |
| Complementary Motor Protection                               | Stalled rotor<br>Protracted starting time<br>Underload<br>Current unbalance |
| Long-Time Pick-Up Adjustment<br>Type Ir (Thermal Protection) | Adjustable 9 settings                                                       |
| [Ir] Long-Time Protection Pick-Up<br>Adjustment Range        | 35...80 A                                                                   |
| Long-Time Protection Delay<br>Adjustment Type Tr             | Adjustable                                                                  |

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

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Tr] Long-Time Protection Delay Adjustment Range         | 120 s at 1.5 x Ir for trip class 5<br>6.5 s at 6 x Ir for trip class 5<br>5 s at 7.2 x Ir for trip class 5<br>240 s at 1.5 x Ir for trip class 10<br>13.5 s at 6 x Ir for trip class 10<br>10 s at 7.2 x Ir for trip class 10<br>480 s at 1.5 x Ir for trip class 20<br>26 s at 6 x Ir for trip class 20<br>20 s at 7.2 x Ir for trip class 20<br>720 s at 1.5 x Ir for trip class 30<br>38 s at 6 x Ir for trip class 30<br>30 s at 7.2 x Ir for trip class 30 |
| 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     | 5...13 x Ir                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Short-Time Protection Delay Adjustment Type Tsd          | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Tsd] Short-Time Protection Delay Adjustment Range       | 0.01 s                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Instantaneous Protection Pick-Up Adjustment Type Ii      | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ii] Instantaneous Protection Pick-Up Adjustment Range   | 1200 A                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Ground-Fault Protection Pick-Up Adjustment Type Ig       | Adjustable                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Ig] Ground-Fault Protection Pick-Up Adjustment Range    | 0.2...1 x In for In > 50 A<br>0.3...1 x In for In = 50 A<br>0.6...1 x In for In = 25 A<br>Ig enable on/off                                                                                                                                                                                                                                                                                                                                                      |
| Ground-Fault Protection Time Delay Adjustment Type Tg    | Adjustable                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Tg] Ground-Fault Protection Time Delay Adjustment Range | 0...0.4 s                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Earth-Leakage Protection                                 | Without                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Zone Selective Interlocking Zsi                          | With                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Local Signalling                                         | Flashing LED (green) for ready to operate<br>LED 95 % lth (red) for temperature over set point                                                                                                                                                                                                                                                                                                                                                                  |
| Display Type                                             | LCD display                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Type Of Measurement                                      | Energy meter                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Electrical Data Recording                                | Maintenance indicators                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Environment

|                                       |                          |
|---------------------------------------|--------------------------|
| Standards                             | EN/IEC 60947-2<br>UL 508 |
| Product Certifications                | CCC<br>Marine<br>EAC     |
| 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             | 9.5 cm  |
| Package 1 Width              | 10.7 cm |

|                              |          |
|------------------------------|----------|
| Package 1 Length             | 15.0 cm  |
| Package 1 Weight             | 549.0 g  |
| Unit Type Of Package 2       | S03      |
| Number Of Units In Package 2 | 11       |
| Package 2 Height             | 30.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 6.526 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Sustainability



**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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## Well-being performance

|                                                                                                              |                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|  Mercury Free               |                                                                                                                             |
|  Rohs Exemption Information | <a href="#">Yes</a>                                                                                                         |
| Reach Regulation                                                                                             | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive                                                                                            | Compliant with Exemptions                                                                                                   |
| China Rohs Regulation                                                                                        | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Weee                                                                                                         | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| California Proposition 65                                                                                    | WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>                  |