

# Product data sheet

Specifications



## circuit breaker Compact NS250L - TMD - 160 A - 4 poles 3d + N/2

31742

ⓘ Discontinued

### Main

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range Of Product                       | Compact NS100...630                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product Or Component Type              | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Device Short Name                      | Compact NS250L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Circuit Breaker Name                   | Compact NS250L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Device Application                     | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Poles Description                      | 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Protected Poles Description            | 3t + N/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Neutral Position                       | Left                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Network Type                           | AC<br>DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Network Frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [In] Rated Current                     | 220 A at 65 °C<br>250 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Uij] Rated Insulation Voltage         | 750 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ue] Rated Operational Voltage         | 690 V AC 50/60 Hz conforming to IEC 60947-2<br>750 V DC conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Breaking Capacity Code                 | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Breaking Capacity                      | 130 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>200 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>50 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>130 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>150 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>150 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] Rated Service Breaking Capacity  | 130 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>150 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>150 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                      |
| Suitability For Isolation              | Yes conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Utilisation Category                   | Category A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Trip Unit Name                         | TM-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Trip Unit Technology                   | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Trip Unit Rating                       | 160 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| Protection Type  | Protection of the fourth pole<br>Short-circuit protection (magnetic)<br>Overload protection (thermal) |
| Pollution Degree | 3 conforming to IEC 60947                                                                             |

## Complementary

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Control Type                             | Toggle                                                                                                                       |
| Mounting Mode                            | Fixed                                                                                                                        |
| Mounting Support                         | Backplate                                                                                                                    |
| Upside Connection                        | Front                                                                                                                        |
| Downside Connection                      | Front                                                                                                                        |
| Mechanical Durability                    | 20000 cycles                                                                                                                 |
| Electrical Durability                    | 10000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>20000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| Connection Pitch                         | 35 mm                                                                                                                        |
| Local Signalling                         | Positive contact indication                                                                                                  |
| Neutral Protection Setting               | 0.5 x Ir                                                                                                                     |
| Long Time Pick-Up Adjustment Type Ir     | Adjustable                                                                                                                   |
| Long Time Pick-Up Adjustment Range       | 0.8...1 x In                                                                                                                 |
| Instantaneous Pick-Up Adjustment Type Ii | Fixed                                                                                                                        |
| Instantaneous Pick-Up Adjustment Range   | 1250 A                                                                                                                       |
| Height                                   | 161 mm                                                                                                                       |
| Width                                    | 140 mm                                                                                                                       |
| Depth                                    | 86 mm                                                                                                                        |

## Environment

|                                       |                               |
|---------------------------------------|-------------------------------|
| Standards                             | IEC 60947-2                   |
| Product Certifications                | LCIE<br>KEMA<br>ASTA<br>ASEFA |
| Ip Degree Of Protection               | IP40 conforming to IEC 60529  |
| Ik Degree Of Protection               | IK07 conforming to EN 50102   |
| Ambient Air Temperature For Operation | -25...70 °C                   |
| Ambient Air Temperature For Storage   | -50...85 °C                   |

## Contractual warranty

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