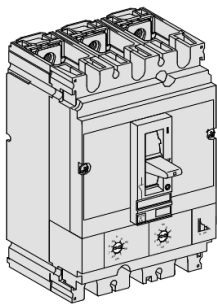


# Product datasheet

Specifications



## circuit breaker Compact NS250 SX - TMD - 80 A - 3 poles 3d

35935

! Discontinued

### Main

|                                        |                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                       | Compact NS100...630                                                                                                                                                                                                                                                                                                                                                              |
| Product or component type              | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                  |
| Device short name                      | Compact NS250SX                                                                                                                                                                                                                                                                                                                                                                  |
| Circuit breaker name                   | Compact NS250SX                                                                                                                                                                                                                                                                                                                                                                  |
| Device application                     | Distribution                                                                                                                                                                                                                                                                                                                                                                     |
| Poles description                      | 3P                                                                                                                                                                                                                                                                                                                                                                               |
| Protected poles description            | 3t                                                                                                                                                                                                                                                                                                                                                                               |
| Network type                           | AC<br>DC                                                                                                                                                                                                                                                                                                                                                                         |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                         |
| [In] rated current                     | 220 A at 65 °C<br>250 A at 40 °C                                                                                                                                                                                                                                                                                                                                                 |
| [Ui] 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                 | SX                                                                                                                                                                                                                                                                                                                                                                               |
| Breaking capacity                      | 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA Icu at 525 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>36 kA Icu at 500 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<br>90 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity  | 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA at 525 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<br>90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>36 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                       | 80 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                    |
| Protection type                        | Overload protection (thermal)<br>Short-circuit protection (magnetic)                                                                                                                                                                                                                                                                                                             |
| Pollution degree                       | 3 conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                        |

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

## 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                                                                                                  |
| Long time pick-up adjustment type Ir     | Adjustable                                                                                                                   |
| Long time pick-up adjustment range       | 0.8...1 x In                                                                                                                 |
| Instantaneous pick-up adjustment type li | Fixed                                                                                                                        |
| Instantaneous pick-up adjustment range   | 1000 A                                                                                                                       |
| Height                                   | 161 mm                                                                                                                       |
| Width                                    | 105 mm                                                                                                                       |
| Depth                                    | 86 mm                                                                                                                        |

## Environment

|                                       |                               |
|---------------------------------------|-------------------------------|
| Standards                             | IEC 60947-2                   |
| Product certifications                | KEMA<br>ASEFA<br>ASTA<br>LCIE |
| 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 (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 >](#)

### Use Longer

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