

# Product datasheet

Specifications



## NS100H STR22SE 40 4P4T

29802

! Discontinued

### Main

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                       | Compact NS100...630                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product or component type              | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Device short name                      | Compact NS100H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Circuit breaker name                   | Compact NS100H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Device application                     | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Poles description                      | 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protected poles description            | 4t<br>3t<br>3t + N/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Neutral position                       | Left                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Network type                           | AC<br>DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [In] rated current                     | 100 A at 40 °C<br>100 A at 65 °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                 | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Breaking capacity                      | 100 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>35 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>65 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>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 500 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA at 600 V AC 50/60 Hz conforming to UL 508<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508<br>65 kA at 480 V AC 50/60 Hz conforming to UL 508<br>100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity  | 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>5 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>17.5 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                             |
| Suitability for isolation              | Yes conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Utilisation category                   | Category 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

|                      |                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Trip unit name       | STR22SE                                                                                                                                           |
| Trip unit technology | Electronic                                                                                                                                        |
| Trip unit rating     | 36 A at 70 °C<br>38 A at 60 °C<br>40 A at 20 °C                                                                                                   |
| Protection type      | Instantaneous short-circuit protection<br>Short time short-circuit protection<br>Protection of the fourth pole<br>Overload protection (long time) |
| 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                     | 50000 cycles                                                                                                                 |
| Electrical durability                     | 30000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>50000 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                | 1 x Ir<br>0.5 x Ir<br>No protection                                                                                          |
| Long time pick-up adjustment type Ir      | Adjustable 48 settings                                                                                                       |
| Long time pick-up adjustment range        | 0.4...1 x In                                                                                                                 |
| Long time delay adjustment type           | Fixed                                                                                                                        |
| [tr] long-time delay adjustment range     | 90...180 s 1.5 x Ir<br>3.2...5 s 7.2 x Ir<br>5...7.5 s 6 x Ir                                                                |
| Short-time pick-up adjustment type Isd    | Adjustable 8 settings                                                                                                        |
| [Isd] short-time pick-up adjustment range | 2...10 x Ir                                                                                                                  |
| Short-time delay adjustment type          | Fixed                                                                                                                        |
| [tsd] short-time delay adjustment range   | 0.04...0.06 s                                                                                                                |
| Instantaneous pick-up adjustment type Ii  | Fixed                                                                                                                        |
| Instantaneous pick-up adjustment range    | >= 11 x In                                                                                                                   |
| Display type                              | LED                                                                                                                          |
| Height                                    | 161 mm                                                                                                                       |
| Width                                     | 140 mm                                                                                                                       |
| Depth                                     | 86 mm                                                                                                                        |

## Environment

|           |             |
|-----------|-------------|
| Standards | IEC 60947-2 |
|-----------|-------------|

|                                       |                               |
|---------------------------------------|-------------------------------|
| Product certifications                | ASTA<br>ASEFA<br>LCIE<br>KEMA |
| 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                   |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |

## 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 |

### Use Again

| Repack and remanufacture |                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEEE Label               |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |