

# Product data sheet

Specifications



## circuit breaker Vigicompact NS100N - STR22SE - 40 A - 3 poles 3d - 30..10000 mA

29972

❗ Discontinued

### Main

|  |  |
|--|--|
| Range Of Product                       | Compact NS100...630  |
| Product Or Component Type              | Circuit breaker  |
| Device Short Name                      | Vigicompact NS100N   |
| Circuit Breaker Name                   | Vigicompact NS100N   |
| Device Application                     | Distribution   |
| Poles Description                      | 3P   |
| Protected Poles Description            | 3t   |
| Neutral Position                       | Left   |
| Network Type                           | DC<br>AC   |
| 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         | 250 V DC conforming to IEC 60947-2<br>277 V AC 50/60 Hz conforming to IEC 60947-2  |
| Breaking Capacity Code                 | N  |
| Breaking Capacity                      | 85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>8 kA Icu at 660/690 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>25 kA at 480 V AC 50/60 Hz conforming to UL 508<br>35 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>8 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508<br>22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] Rated Service Breaking Capacity  | 8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>85 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>10 kA at 600 V AC 50/60 Hz conforming to UL 508<br>22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 480 V AC 50/60 Hz conforming to UL 508<br>35 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>8 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508                         |

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

|                                  |  |
|----------------------------------|--|
| Suitability For Isolation        | Yes conforming to IEC 60947-2  |
| Utilisation Category             | Category A   |
| 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>Overload protection (long time)<br>Short time short-circuit protection |
| Earth-Leakage Add-On Module Name | MH   |
| Earth-Leakage Protection         | With   |
| 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  |
| 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   |
| Earth-Leakage Protection Class                             | Class A  |
| Residual Earth-Leakage Sensitivity Adjustment Type         | Adjustable   |
| [I $\Delta$ n] Residual Earth-Leakage Sensitive Adjustment | 0.3 A<br>3 A<br>1 A<br>0.03 A<br>10 A  |
| Residual Earth-Leakage Time Delay Adjustment Type          | Adjustable   |

|              |        |
|--------------|--------|
| Display Type | LED    |
| Height       | 236 mm |
| Width        | 105 mm |
| Depth        | 86 mm  |

## Environment

|                                       |                               |
|---------------------------------------|-------------------------------|
| Standards                             | IEC 60947-2                   |
| Product Certifications                | KEMA<br>ASTA<br>LCIE<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 |
|----------|-----------|