

# C25N34V100

Circuit breaker, ComPacT NSX250N,  
50kA/415VAC, 3 poles, MicroLogic Vigi 4.2 trip  
unit 100A



## Main

|  |  |
|--|--|
| Range  | ComPacT new generation   |
| Product name   | ComPacT NSX new generation   |
| Device short name                                    | NSX250N  |
| Product or component type                            | Earth leakage circuit breaker  |
| Device application                                   | Distribution   |
| Poles description                                    | 3P   |
| Protected poles description                          | 3D   |
| [In] rated current                                   | 100 A at 40 °C   |
| [Ue] rated operational voltage                       | 440 V AC 50/60 Hz  |
| Network type   | AC   |
| Network frequency                                    | 50/60 Hz   |
| Suitability for isolation                            | Yes conforming to EN/IEC 60947-2   |
| Utilisation category                                 | Category A   |
| [Icu] rated ultimate short-circuit breaking capacity | 90 KA Icu at 220/240 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>50 KA Icu at 440 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>35 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | N 50 kA 415 V AC   |
| Trip unit name                                       | MicroLogic 4.2   |
| Trip unit technology                                 | Electronic   |
| Trip unit protection functions                       | LSolR  |
| Control type   | Toggle   |
| Circuit breaker mounting mode                        | Fixed  |

## Complementary

|   |  |
|---|--|
| [Ui] rated insulation voltage                       | 500 V AC 50/60 Hz  |
| [Uimp] rated impulse withstand voltage              | 8 kV   |
| [Ics] rated service short-circuit breaking capacity | 90 KA at 220/240 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>36 KA at 500 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>10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                               | 20000 cycles   |
| Electrical durability                               | 20000 Cycles at 440 V In/2<br>10000 Cycles at 440 V In<br>10000 Cycles at 690 V In/2<br>5000 cycles at 690 V In  |

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|   |  |
|---|--|
| Power dissipation per pole  | 4 W N<br>4 W L1 and L3<br>3.3 W L2   |
| Mounting support  | Backplate  |
| Mounting position   | Horizontal and vertical<br>Flat on the back  |
| Upside connection   | Front  |
| Downside connection   | Front  |
| Connection pitch  | 35 mm  |
| Protection type   | L : for overload protection (long time)<br>So : for short time short-circuit protection with fixed delay<br>I : for instantaneous short-circuit protection<br>R : for earth-leakage protection |
| Trip unit rating  | 100 A at 40 °C   |
| Long-time pick-up adjustment type I <sub>r</sub> (thermal protection) | Adjustable 9 settings  |
| [I <sub>r</sub> ] long-time protection pick-up adjustment range       | 40...100 A   |
| Long-time protection delay adjustment type t <sub>r</sub>             | Fixed  |
| [t <sub>r</sub> ] long-time protection delay adjustment range         | 400 S at 1.5 x I <sub>r</sub><br>16 S at 6 x I <sub>r</sub><br>11 s at 7.2 x I <sub>r</sub>  |
| Thermal memory  | 20 minutes before and after tripping   |
| Short-time protection pick-up adjustment type I <sub>sd</sub>         | Adjustable   |
| [I <sub>sd</sub> ] Short-time protection pick-up adjustment range     | 1.5...10 x I <sub>r</sub>  |
| Short-time protection delay adjustment type t <sub>sd</sub>           | Fixed  |
| Instantaneous protection pick-up adjustment type I <sub>i</sub>       | Fixed  |
| [I <sub>i</sub> ] instantaneous protection pick-up adjustment range   | 1500 A   |
| Earth-leakage protection  | Integrated   |
| Earth-leakage protection class  | Class A  |
| Earth-leakage protection sensitivity adjustment type IΔn              | Adjustable   |
| [IΔn] earth-leakage protection sensitivity adjustment range           | 30 MA<br>100 MA<br>300 MA<br>500 MA<br>1 A<br>3 A<br>5 A   |
| Earth-leakage protection specific mode                                | OFF using the IΔn rotary switch  |
| Earth-leakage protection time delay adjustment type Δt                | Adjustable   |
| [Δt] Earth-leakage protection time delay adjustment range             | 0 Ms<br>60 Ms<br>150 Ms<br>500 Ms<br>1 s   |
| Zone selective interlocking ZSI                                       | Without  |
| Number of slots for electrical auxiliaries                            | 5 slot(s)  |
| Local signalling  | Flashing LED (green) for ready to operate<br>LED 105 % I <sub>r</sub> (red) for overload<br>LED 90 % I <sub>r</sub> (orange) for overload  |
| Width (W)   | 105 mm   |
| Height (H)  | 161 mm   |
| Depth (D)   | 86 mm  |
| Net weight  | 2.4 kg   |

## Environment

|                                   |                              |
|-----------------------------------|------------------------------|
| Standards                         | EN/IEC 60947                 |
| Product certifications            | CCC[RETURN]EAC[RETURN]Marine |
| Overvoltage category              | Class II                     |
| Electrical shock protection class | Class II                     |
| Pollution degree                  | 3 conforming to IEC 60664-1  |

|                                       |  |
|---------------------------------------|--|
| IP degree of protection               | IP40 conforming to IEC 60529                                 |
| IK degree of protection               | IK07 conforming to IEC 62262                                 |
| Ambient air temperature for operation | -25...70 °C  |
| Ambient air temperature for storage   | -50...85 °C  |
| Relative humidity                     | 0...95 %   |
| Operating altitude                    | 0...2000 m without derating<br>2000 m...5000 m with derating |

### Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 13.0 cm   |
| Package 1 Width              | 17.0 cm   |
| Package 1 Length             | 11.0 cm   |
| Package 1 Weight             | 2.086 kg  |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 6         |
| Package 2 Height             | 30.0 cm   |
| Package 2 Width              | 30.0 cm   |
| Package 2 Length             | 40.0 cm   |
| Package 2 Weight             | 13.282 kg |

### Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product                         |
| REACH Regulation           | <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant with Exemptions                     |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information | <a href="#">Yes</a>                           |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a> |
| Circularity Profile        | <a href="#">End Of Life Information</a>       |