# Product data sheet
## Characteristics

# LV429846
## Circuit breaker, ComPact NSX100N, 50kA/415VAC, TMD trip unit 25A, 3 poles 3d

Important message: This product has been switched to new ComPacT range and is no longer commercialized.



## Commercial status
End of Commercialisation : DEC 25, 2023

⚠ End of Commercialisation

## Main

| | |
|---|---|
| Range | ComPact |
| Product name | ComPact NSX |
| Range of product | ComPact NSX100...250 |
| Device short name | NSX100N |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3t |
| [In] rated current | 25 A at 40 °C |
| [Ue] rated operational voltage | 690 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 |
| Breaking capacity | 85 KA at 240 V AC 50/60 Hz conforming to UL 508<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>20 KA at 600 V AC 50/60 Hz conforming to UL 508<br>50 KA at 480 V AC 50/60 Hz conforming to UL 508<br>36 KA Icu at 500 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>90 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Breaking capacity code | N 50 kA 415 V AC |
| Trip unit name | TM-D |
| Trip unit technology | Thermal-magnetic |
| Trip unit protection functions | LI |
| Control type | Toggle |
| Mounting mode | Fixed |

## Complementary

| | |
|---|---|
| [Ui] rated insulation voltage | 800 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 8 KV |
| [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>36 KA at 500 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 |
| Mechanical durability | 50000 Cycles |
| Electrical durability | 10000 Cycles at 690 V In<br>20000 Cycles at 690 V In/2<br>30000 Cycles at 440 V In<br>50000 Cycles at 440 V In/2 |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Connection pitch | 35 Mm |
| Protection type | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic) |
| Trip unit rating | 25 A at 40 °C |
| Long time pick-up adjustment type Ir | Adjustable |
| Long time pick-up adjustment range | 0.7...1 x In |
| Long time delay adjustment type | Fixed |
| [tr] long-time delay adjustment range | 120…400 S at 1.5 x In<br>15 S at 6 x Ir |
| Short-time pick-up adjustment type Isd | Fixed |
| [Isd] short-time pick-up adjustment range | 300 A |
| Short-time delay adjustment type | Fixed |
| Earth-leakage protection | Without |
| Number of slots | 5 slot(s) |
| Width | 105 Mm |
| Height | 161 Mm |
| Depth | 86 Mm |
| Net weight | 2.05 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 | 11.000 Cm |
| Package 1 Width | 14.000 Cm |
| Package 1 Length | 19.000 Cm |
| Package 1 Weight | 1.839 Kg |
| Unit Type of Package 2 | S03 |

| | |
|---|---|
| Number of Units in Package 2 | 4 |
| Package 2 Height | 30.000 Cm |
| Package 2 Width | 30.000 Cm |
| Package 2 Length | 40.000 Cm |
| Package 2 Weight | 7.776 Kg |
| Unit Type of Package 3 | P12 |
| Number of Units in Package 3 | 32 |
| Package 3 Height | 45.000 Cm |
| Package 3 Width | 80.000 Cm |
| Package 3 Length | 120.000 Cm |
| Package 3 Weight | 74.208 Kg |

## Offer Sustainability

| | |
|---|---|
| Total lifecycle Carbon footprint | 171 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 9.5950946341 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 10 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.3999959561 |
| Carbon footprint of the distribution phase [A4] | 0.4 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.193328239 |
| Carbon footprint of the installation phase [A5] | 0.2 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 160.7574628571 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 161 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.297316961 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.3 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 171 |
| SCIP Number | 3874e08b-fcb8-4aa9-87c4-d36abebf2833 |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: DINP, which is known to the S |
| End of life manual availability | End Of Life Information |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

| | |
|---|---|
| Warranty (in months) | 18 |

**Product Life Status :** End of commercialisation

## LV429846 may be replaced by any of the following products:



C10N3TM025

Circuit breaker, ComPacT NSX100N, 50kA/415VAC, 3 poles, TMD trip unit 25A

Qty 1

Substitution date: |