Product data sheet Characteristics

LV429854

circuit breaker ComPact NSX100N, 50 kA at 415 VAC, TMD trip unit 40 A, 4 poles 3d





Main

| IVIAIII | |
|--------------------------------|---|
| Range | ComPact |
| Product name | ComPact NSX |
| Range of product | ComPact NSX100250 |
| Device short name | NSX100N |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 3t |
| Neutral position | Left |
| [ln] rated current | 40 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 10 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 20 KA at 600 V AC 50/60 Hz conforming to UL 508 50 KA at 480 V AC 50/60 Hz conforming to UL 508 36 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 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

| [UJ irade insulation voltage 80 V AC 50/60 Hz [Ulimp] 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 35 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 300 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 300 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 420 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 2002/40 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 2002/40 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 2002/40 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 2002/40 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 2002/40 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 2002/40 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 2002/40 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 40 V In 2002/40 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 40 V In 2000 Cycles at 440 V In 2 50000 | Complementary | |
|--|---|--|
| [[cs] rated service breaking capacity 10 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 380/4 15 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 380/4 15 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 380/4 15 V AC 50/60 Hz conforming to IEC 60947-2 90 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 90 KA at 22 | [Ui] rated insulation voltage | 800 V AC 50/60 Hz |
| 35 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Mechanical durability 50000 Cycles at 690 V In 20000 Cycles at 690 V In/2 20000 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) 1: for short-circuit protection (magnetic) Trip unit rating 40 A at 40 °C Long time pick-up adjustment type Ir Adjustable Long time pick-up adjustment range 0.71 x In Long time delay adjustment type Fixed [It] long-time delay adjustment range 120400 S at 1.5 x In 15 S at 6 x Ir Short-time pick-up adjustment type Is Fixed [Isd] short-time pick-up adjustment type Is Fixed [Isd] short-time pick-up adjustment type Is Fixed [Earth-leakage protection Without Neutral protection setting <td< td=""><td>[Uimp] rated impulse withstand voltage</td><td>8 KV</td></td<> | [Uimp] rated impulse withstand voltage | 8 KV |
| Electrical durability 20000 Cycles at 690 V In 20000 Cycles at 440 V In 50000 Cycles at 440 V In 50000 Cycles at 440 V In 50000 Cycles at 440 V In 72 Mounting support Backplate Upside connection Front Connection pitch 7 Front Connection pitch 7 Front To verload protection (thermal) 1: for short-circuit protection (magnetic) Trip unit rating 40 A at 40 °C Long time pick-up adjustment type Ir Adjustable Long time pick-up adjustment range 7 Fixed [tr] long-time delay adjustment type 120400 S at 1.5 x In 15 S at 6 x Ir Short-time pick-up adjustment type Isd Fixed [lsd] short-time pick-up adjustment type Fixed [lsd] short-time pick-up adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width Height 161 Mm Depth | [lcs] rated service breaking capacity | 35 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| 2000 Cycles at 890 V In/2 30000 Cycles at 440 V In/2 30000 Cycles at 440 V In/2 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) I: for short-circuit protection (magnetic) Trip unit rating 40 A at 40 °C Long time pick-up adjustment type Ir Adjustable Long time pick-up adjustment range 0.71 x In Long time delay adjustment type Fixed [tr] long-time delay adjustment type Is 15 x at 6 x Ir Short-time pick-up adjustment type Is 500 A Short-time pick-up adjustment type Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | Mechanical durability | 50000 Cycles |
| Upside connection Front Downside connection Front Connection pitch 35 Mm Protection type L: for overload protection (thermal) 1: for short-circuit protection (magnetic) Trip unit rating 40 A at 40 °C Long time pick-up adjustment type Ir Adjustable Long time pick-up adjustment range 0.71 x In Long time delay adjustment range Fixed [tr] long-time delay adjustment range 120400 S at 1.5 x In 15 S at 6 x Ir Short-time pick-up adjustment range 500 A Short-time pick-up adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | Electrical durability | 20000 Cycles at 690 V In/2 30000 Cycles at 440 V In |
| Downside connection Front Connection pitch 35 Mm Protection type L: for overload protection (thermal) I: for short-circuit protection (magnetic) Trip unit rating 40 A at 40 °C Long time pick-up adjustment type Ir Adjustable Long time pick-up adjustment range 0.71 x In Long time delay adjustment type Fixed [tr] long-time delay adjustment range 120400 S at 1.5 x In 15 S at 6 x Ir Short-time pick-up adjustment type Isd Fixed [lsd] short-time pick-up adjustment range 500 A Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | Mounting support | Backplate |
| Connection pitch 35 Mm Protection type L: for overload protection (thermal) 1: for short-circuit protection (magnetic) Trip unit rating 40 A at 40 °C Long time pick-up adjustment type Ir Adjustable Long time pick-up adjustment range 0.71 x In Long time delay adjustment type Fixed [tr] long-time delay adjustment range 120400 S at 1.5 x In 15 S at 6 x Ir Short-time pick-up adjustment range 500 A Short-time pick-up adjustment range 500 A Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | Upside connection | Front |
| Protection type L: for overload protection (thermal) I: for short-circuit protection (magnetic) Trip unit rating 40 A at 40 °C Long time pick-up adjustment type Ir Adjustable Long time pick-up adjustment range 0.71 x In Long time delay adjustment type Fixed [tr] long-time delay adjustment range 120400 S at 1.5 x In 15 S at 6 x Ir Short-time pick-up adjustment type Isd [isd] short-time pick-up adjustment range 500 A Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 161 Mm Depth 86 Mm | Downside connection | Front |
| I : for short-circuit protection (magnetic) Trip unit rating 40 A at 40 °C Long time pick-up adjustment type Ir Adjustable 0.71 x In Long time pick-up adjustment range 0.71 x In Long time delay adjustment type Fixed [tr] long-time delay adjustment range 120400 S at 1.5 x In 15 S at 6 x Ir Short-time pick-up adjustment type Isd Fixed [lsd] short-time pick-up adjustment range 500 A Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height Depth 86 Mm | Connection pitch | 35 Mm |
| Long time pick-up adjustment type Ir Long time pick-up adjustment range O.71 x In Long time delay adjustment type Fixed [tr] long-time delay adjustment range 120400 S at 1.5 x In 15 S at 6 x Ir Short-time pick-up adjustment type Isd Fixed [Isd] short-time pick-up adjustment range 500 A Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height Depth 86 Mm | Protection type | |
| Long time pick-up adjustment range 0.71 x ln Long time delay adjustment type Fixed [tr] long-time delay adjustment range 120400 S at 1.5 x ln 15 S at 6 x lr Short-time pick-up adjustment type Isd Fixed [lsd] short-time pick-up adjustment range 500 A Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | Trip unit rating | 40 A at 40 °C |
| Long time delay adjustment type [tr] long-time delay adjustment range 120400 S at 1.5 x In 15 S at 6 x Ir Short-time pick-up adjustment type Isd [Isd] short-time pick-up adjustment range 500 A Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height Depth 86 Mm | Long time pick-up adjustment type Ir | Adjustable |
| [tr] long-time delay adjustment range 120400 S at 1.5 x ln 15 S at 6 x lr Short-time pick-up adjustment type Isd Fixed [Isd] short-time pick-up adjustment range 500 A Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | Long time pick-up adjustment range | 0.71 x ln |
| Short-time pick-up adjustment type Isd Fixed [Isd] short-time pick-up adjustment range 500 A Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | Long time delay adjustment type | Fixed |
| [Isd] short-time pick-up adjustment range 500 A Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | [tr] long-time delay adjustment range | |
| Short-time delay adjustment type Fixed Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | Short-time pick-up adjustment type Isd | Fixed |
| Earth-leakage protection Without Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | [Isd] short-time pick-up adjustment range | 500 A |
| Neutral protection setting No protection (3t) Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | Short-time delay adjustment type | Fixed |
| Number of slots 5 slot(s) Width 140 Mm Height 161 Mm Depth 86 Mm | Earth-leakage protection | Without |
| Width 140 Mm Height 161 Mm Depth 86 Mm | Neutral protection setting | No protection (3t) |
| Height161 MmDepth86 Mm | Number of slots | 5 slot(s) |
| Depth 86 Mm | Width | 140 Mm |
| • | Height | 161 Mm |
| Net weight 2.4 Kg | Depth | 86 Mm |
| | Net weight | 2.4 Kg |

Environment

| Standards | EN/IEC 60947 |
|---------------------------------------|--|
| Product certifications | CCC EAC 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 | -2570 °C |
| Ambient air temperature for storage | -5085 °C |
| Relative humidity | 095 % |
| Operating altitude | 02000 m without derating 2000 m5000 m with derating |



Packing Units

| Unit Type of Package 1 | PCE | |
|------------------------------|----------|--|
| Number of Units in Package 1 | 1 | |
| Package 1 Weight | 2.352 Kg | |
| Package 1 Height | 14.5 Cm | |
| Package 1 width | 17.56 Cm | |
| Package 1 Length | 19 Cm | |

Offer Sustainability

| Sustainable offer status | Green Premium product |
|----------------------------|--|
| REACh Regulation | ☑ REACh Declaration |
| EU RoHS Directive | Compliant EEU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | ₫Yes |
| China RoHS Regulation | ☑ China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| California proposition 65 | WARNING: This product can expose you to chemicals including: DIN-P, which is known to the State of California to cause cancer, and DID-P, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

Contractual warranty

| Warranty | 18 months |
|----------|-----------|
|----------|-----------|

Product Life Status : Commercialised