# Product data sheet
## Characteristics

# LV429847
## circuit breaker Compact NSX100N - TMD - 16 A - 3 poles 3d

### Main

| | |
|---|---|
| Device short name | Compact NSX100N |
| Circuit breaker application | Distribution |
| Poles description | 3P |
| Protected poles description | 3t |
| Network type | AC |
| Network frequency | 50/60 Hz |
| [In] rated current | 100 A ( 40 °C ) |
| [Ui] rated insulation voltage | 800 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz |
| Circuit breaker rating code | N |
| Breaking capacity | Icu 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 36 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>90 kA at 240 V AC 50/60 Hz conforming to NEMA AB1<br>50 kA at 480 V AC 50/60 Hz conforming to NEMA AB1<br>20 kA at 600 V AC 50/60 Hz conforming to NEMA AB1<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508<br>50 kA at 480 V AC 50/60 Hz conforming to UL 508<br>20 kA at 600 V AC 50/60 Hz conforming to UL 508 |
| [Ics] rated service breaking capacity | Ics 10 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 35 kA 525 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 36 kA 500 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 50 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 50 kA 440 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 90 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Suitability for isolation | Yes conforming to IEC 60947-2<br>Yes conforming to EN 60947-2 |
| Utilisation category | Category A |
| Trip unit name | TM-D |
| Trip unit technology | Thermal-magnetic |
| Trip unit rating | 16 A ( 40 °C ) |
| Protection type | Overload protection (thermal)<br>Short-circuit protection (magnetic) |
| Pollution degree | 3 conforming to IEC 60947-1 |

## Complementary

| | |
|---|---|
| Control type | Toggle |
| Mounting mode | Fixed |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Mechanical durability | 50000 cycles |
| Electrical durability | 50000 cycles 440 V In/2 conforming to IEC 60947-2<br>30000 cycles 440 V In conforming to IEC 60947-2<br>20000 cycles 690 V In/2 conforming to IEC 60947-2<br>10000 cycles 690 V In conforming to IEC 60947-2 |
| Connection pitch | 35 mm |
| Local signalling | Positive contact indication |
| Long time pick-up adjstment 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 | 15 s 6 x Ir<br>120...400 s 1.5 x In |
| Short-time pick-up adjustment type Isd | Fixed |
| [Isd] short-time pick-up adjustment range | 190 A |
| Short-time delay adjustment type | Fixed |
| Height | 161 mm |
| Width | 105 mm |
| Depth | 86 mm |

## Environment

| | |
|---|---|
| Electrical shock protection class | Class II |
| Standards | EN 60947-2<br>IEC 60947-2<br>NEMA AB1<br>UL 508 |
| Product certifications | CSA<br>UL |
| IP degree of protection | IP40 conforming to IEC 60529 |
| IK degree of protection | IK07 conforming to EN 50102 |
| Ambient air temperature for operation | -35...70 °C |
| Ambient air temperature for storage | -55...85 °C |
| RoHS EUR conformity date | 0819 |
| RoHS EUR status | Compliant |