

Product datasheet

Specifications



Circuit breaker, ComPact NSX160F, 36kA/415VAC, TMD trip unit 160A, 4 poles 3d

LV430640

Discontinued on: 08 June 2022

To be discontinued

Main

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|--|--|
| Range | ComPact |
| Product name | ComPact NSX |
| Range of product | ComPact NSX100...250 |
| Device short name | NSX160F |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Number of poles | 4P |
| Protected poles description | 3t |
| Neutral position | Left |
| [In] rated current | 160 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 |
| [Icu] rated ultimate short-circuit breaking capacity | 10 kA at 600 V AC 50/60 Hz conforming to UL 508 85 kA at 240 V AC 50/60 Hz conforming to UL 508 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 480 V AC 50/60 Hz conforming to UL 508 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level | F 36 kA 415 V AC |
| Trip unit name | TM-D |
| Trip unit technology | Thermal-magnetic |
| Trip unit protection functions | LI |
| Control type | Toggle |
| Circuit breaker mounting mode | Fixed |

Complementary

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|---|---|
| [Ui] rated insulation voltage | 800 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ics] rated service short-circuit breaking capacity | 35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability | 40000 cycles |
| Electrical durability | 7500 cycles at 690 V In 15000 cycles at 690 V In/2 20000 cycles at 440 V In 40000 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 | 160 A at 40 °C |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable |
| [Ir] long-time protection pick-up adjustment range | 0.7...1 x In |
| Long-time protection delay adjustment type tr | Fixed |
| [Tr] long-time protection delay adjustment range | 120...400 s at 1.5 x In 15 s at 6 x Ir |
| Short-time protection pick-up adjustment type Isd | Fixed |
| [Isd] Short-time protection pick-up adjustment range | 1250 A |
| Short-time protection delay adjustment type tsd | Fixed |
| Earth-leakage protection | Without |
| Neutral protection settings | No protection (3t) |
| Number of slots for electrical auxiliaries | 5 slot(s) |
| Width (W) | 140 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net weight | 2.6 kg |

Environment

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|-----------------------------------|----------------------|
| Standards | EN/IEC 60947 |
| Product certifications | CCC EAC Marine |
| Overvoltage category | Class II |
| Electrical shock protection class | Class II |

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|---------------------------------------|--|
| 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 2000 m...5000 m with derating |

Packing Units

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|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 14.4 cm |
| Package 1 Width | 15.2 cm |
| Package 1 Length | 19.2 cm |
| Package 1 Weight | 2.371 kg |
| Unit Type of Package 2 | S04 |
| Number of Units in Package 2 | 9 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 40.0 cm |
| Package 2 Length | 60.0 cm |
| Package 2 Weight | 22.105 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

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| Warranty | 18 months |
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Recommended replacement(s)