

Product data sheet

Specifications



Circuit breaker ComPacT NSXm N (50kA at 415VAC), 4 Poles 3d, 160A rating TMD trip unit, EverLink connectors

C12N6TM160L

Main

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| Range | ComPacT new generation |
| Product name | ComPacT NSXm new generation |
| Range of product | ComPacT NSXm new generation |
| Device short name | NSXm 160N |
| Product or component type | Circuit breaker |
| Device application | Distribution Protection |
| Poles description | 4P |
| Protected poles description | 3D |
| 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 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 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 |
| Performance level | N 50 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 |
| [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 50 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 |

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|--|---|
| Mechanical durability | 20000 cycles |
| Electrical durability | 20000 cycles at 440 V In/2 10000 cycles at 440 V In 10000 cycles at 690 V In/2 5000 cycles at 690 V In |
| Power losses | 12.21 W |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Connection terminals | 1 Everlink lug wire size 2.5...70 mm ² , flexible copper 1 Everlink lug wire size 2.5...95 mm ² , rigid or stranded copper |
| Connection pitch | 35 mm with spreaders 27 mm without spreaders |
| 9 mm pitches | 12 module |
| 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 |
| [Im] magnetic protection pick-up range | 1250 A |
| Short-time protection pick-up adjustment type Isd | Fixed |
| Short-time protection delay adjustment type tsd | Fixed |
| Number of slots for electrical auxiliaries | 1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX |
| Local signalling | Flag (green) for presence of auxiliary contacts |
| Width (W) | 108 mm |
| Height (H) | 137 mm |
| Depth (D) | 80 mm |
| Net weight | 1.42 kg |
| Quantity per set | Set of 1 |
| Colour | Grey (RAL 7016) |

Environment

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|--|---|
| Standards | EN/IEC 60947 |
| Pollution degree | 3 conforming to IEC 60664-1 |
| IP degree of protection | IP40 |
| 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 |
| Operating altitude | 2000 m without derating 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 Weight | 1.6 kg |
| Package 1 Height | 12 cm |
| Package 1 width | 13 cm |
| Package 1 Length | 22 cm |
| Unit Type of Package 2 | P12 |
| Number of Units in Package 2 | 144 |
| Package 2 Weight | 254.49 kg |
| Package 2 Height | 150 cm |
| Package 2 width | 80 cm |
| Package 2 Length | 120 cm |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 6 |
| Package 3 Weight | 10.19 kg |
| Package 3 Height | 30 cm |
| Package 3 width | 30 cm |
| Package 3 Length | 40 cm |

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 |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |