

Product data sheet

Specifications



Circuit breaker, ComPacT NSX160H, 70kA/415VAC, 3 poles, TMD trip unit 125A

C16H3TM125

Main

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|---|---|
| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX160H |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 125 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 | 100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 500 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 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level | H 70 kA 415 V AC |
| Trip unit name | TM-D |
| Trip unit technology | Thermal-magnetic |
| Trip unit protection functions | LI |
| [Ics] rated service short-circuit breaking capacity | 100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 |

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| Control type | Toggle |
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| Circuit breaker mounting mode | Fixed |
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Complementary

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| [Ui] rated insulation voltage | 800 V AC 50/60 Hz |
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| [Uimp] rated impulse withstand voltage | 8 kV |
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| | 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
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| Mechanical durability | 40000 cycles |
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| Electrical durability | 40000 cycles at 440 V In/2 20000 cycles at 440 V In 15000 cycles at 690 V In/2 7500 cycles at 690 V In |
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| Power dissipation per pole | 10.78 W |
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| Mounting support | Backplate |
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| Mounting position | Horizontal and vertical Flat on the back |
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| Upside connection | Front |
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| Downside connection | Front |
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| Connection pitch | 35 mm |
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| Protection type | L : for overload protection (thermal) I : for short-circuit protection (magnetic) |
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| Trip unit rating | 125 A at 40 °C |
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| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable |
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| [Ir] long-time protection pick-up adjustment range | 0.7...1 x In |
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| Long-time protection delay adjustment type tr | Fixed |
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| [Tr] long-time protection delay adjustment range | 120...400 s at 1.5 x In 15 s at 6 x Ir |
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| Instantaneous protection pickup adjustment type li | Fixed |
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| [Ii] instantaneous protection pick-up adjustment range | 1250 A |
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| Earth-leakage protection | Without |
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| Number of slots for electrical auxiliaries | 5 slot(s) |
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| Width (W) | 105 mm |
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| Height (H) | 161 mm |
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| Depth (D) | 86 mm |
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| Product weight | 2.2 kg |
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Environment

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| 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 | -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 | 14.2 cm |
| Package 1 Width | 11.4 cm |
| Package 1 Length | 19.3 cm |
| Package 1 Weight | 1.834 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 7 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 13.228 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 |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |

Environmental Disclosure

[Product Environmental Profile](#)

Circularity Profile

[End of Life Information](#)

PVC free

Yes

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

