

Product datasheet

Specifications



Circuit breaker ComPacT NSX160H, 70kA at 415VAC, MicroLogic 4.2 Vigi trip unit 160A, 4 poles 4d

C16H44V160

Main

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|--|---|
| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX160H |
| Product or component type | Earth leakage circuit breaker |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 4D 3D + N/2 3D |
| Neutral position | Left |
| [In] rated current | 160 A at 40 °C |
| [Ue] rated operational voltage | 440 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 | MicroLogic 4.2 |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSolR |
| Control type | Toggle |
| Circuit breaker mounting mode | Fixed |

Complementary

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|--|-------------------|
| [Ui] rated insulation voltage | 500 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |

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| [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 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability | 40000 cycles |
| 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 |
| Power dissipation per pole | 12.29 W N 12.29 W L1 and L3 9.98 W L2 |
| Mounting support | Backplate |
| Mounting position | Horizontal and vertical Flat on the back |
| Upside connection | Front |
| Downside connection | Front |
| Connection pitch | 35 mm |
| Protection type | L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection R : for earth-leakage protection |
| Trip unit rating | 160 A at 40 °C |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings |
| [Ir] long-time protection pick-up adjustment range | 63...160 A |
| Long-time protection delay adjustment type tr | Fixed |
| [Tr] long-time protection delay adjustment range | 400 s at 1.5 x Ir 16 s at 6 x Ir 11 s at 7.2 x Ir |
| Neutral protection settings | 0.5 x Ir (3D + N/2) 1 x Ir (4D) No protection (3D) |
| Thermal memory | 20 minutes before and after tripping |
| Short-time protection pick-up adjustment type Isd | Adjustable |
| [Isd] Short-time protection pick-up adjustment range | 1.5...10 x Ir |
| Short-time protection delay adjustment type tsd | Fixed |
| Instantaneous protection pick-up adjustment type Ii | Fixed |
| [Ii] instantaneous protection pick-up adjustment range | 2400 A |
| Earth-leakage protection | Integrated |
| Earth-leakage protection class | Class A |
| Earth-leakage protection sensinty adjustment type IΔn | Adjustable |
| [IΔn] earth-leakage protection sensitivity adjustment range | 30 mA 100 mA 300 mA 500 mA 1 A 3 A 5 A |
| Earth-leakage protection specific mode | OFF using the IΔn rotary switch |

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|---|---|
| Earth-leakage protection time delay adjustment type Δt | Adjustable |
| [Δt] Earth-leakage protection time delay adjustment range | 0 ms 60 ms 150 ms 500 ms 1 s |
| Zone selective interlocking ZSI | Without |
| Number of slots for electrical auxiliaries | 5 slot(s) |
| Local signalling | Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload |
| 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 |
| 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 | 12.0 cm |
| Package 1 Width | 16.0 cm |
| Package 1 Length | 14.0 cm |
| Package 1 Weight | 3.1 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 4 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 12.4 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 |

Recommended replacement(s)