

Product data sheet

Characteristics

C25H32D100

Circuit breaker, ComPacT NSX250H,
70kA/415VAC, 3 poles, MicroLogic 2.2 trip unit
100A



Main

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| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX250H |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 100 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 15 kA at 600 V AC 50/60 Hz conforming to UL 508 |
| Performance level | H 70 kA 415 V AC |
| Trip unit name | MicroLogic 2.2 |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSol |
| 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 | 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 | 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 |

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| Power dissipation per pole | 2.7 W |
| 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 |
| Trip unit rating | 100 A at 40 °C |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings |
| [Ir] long-time protection pick-up adjustment range | 40...100 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 |
| Thermal memory | 20 minutes before and after tripping |
| Short-time protection pick-up adjustment type lsd | Adjustable 9 settings |
| [lsd] 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 li | Fixed |
| [li] instantaneous protection pick-up adjustment range | 1500 A |
| Earth-leakage protection | Without |
| 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) | 105 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net weight | 2.4 kg |

Environment

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|---------------------------------------|--|
| Standards | EN/IEC 60947 |
| Product certifications | Marine[RETURN]CCC[RETURN]IEAC |
| 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 cm |
| Package 1 Width | 14 cm |
| Package 1 Length | 20 cm |
| Package 1 Weight | 2.048 kg |
| Unit Type of Package 2 | S03 |

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|------------------------------|----------|
| Number of Units in Package 2 | 4 |
| Package 2 Height | 30 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 8.192 kg |
| Unit Type of Package 3 | P12 |
| Number of Units in Package 3 | 72 |
| Package 3 Height | 150 cm |
| Package 3 Width | 80 cm |
| Package 3 Length | 120 cm |
| Package 3 Weight | 147.7 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Compliant with Exemptions |
| Mercury free | Yes |
| China RoHS Regulation |  China RoHS Declaration |
| RoHS exemption information |  Yes |
| Environmental Disclosure |  Product Environmental Profile |
| Circularity Profile |  End Of Life Information |