

C25W46E100

Circuit breaker, ComPacT NSX250HB2,
100kA/690VAC, 4 poles, MicroLogic 6.2E trip
unit 100A



Main

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| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX250HB2 |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 4D 3D + OSN 3D + N/2 3D |
| Neutral position | Left |
| [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 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level | HB2 100 kA 690 V AC |
| Trip unit name | MicroLogic 6.2 E |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSIG |
| 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 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 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 |
| Power dissipation per pole | 2.7 W |
| Mounting support | Backplate |
| Mounting position | Horizontal and vertical Flat on the back |
| Upside connection | Front |

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| Downside connection | Front |
| Connection pitch | 35 mm |
| Protection type | L : for overload protection (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection G : for ground fault protection |
| Trip unit rating | 100 A at 40 °C |
| Long-time pick-up adjustment type I _r (thermal protection) | Adjustable 9 settings |
| [I _r] long-time protection pick-up adjustment range | 40...100 A |
| Long-time protection delay adjustment type t _r | Adjustable |
| [t _r] long-time protection delay adjustment range | 15...400 S at 1.5 x I _r 0.5...16 S at 6 x I _r 0.35...11 s at 7.2 x I _r |
| Neutral protection settings | 0.5 x I _r (3D + N/2) 1 x I _r (4D) 1.6 x I _r (3D + OSN) No protection (3D) |
| Thermal memory | 20 minutes before and after tripping |
| Short-time protection pick-up adjustment type I _{sd} | Adjustable |
| [I _{sd}] Short-time protection pick-up adjustment range | 1.5...10 x I _r |
| Short-time protection delay adjustment type t _{sd} | Adjustable 5 settings |
| [t _{sd}] Short-time protection delay adjustment range | 0...0.4 S I ² t=off 0.1...0.4 s I ² t=on |
| Instantaneous protection pick-up adjustment type I _i | Adjustable |
| [I _i] instantaneous protection pick-up adjustment range | 1.5...15 x I _n |
| Ground-fault protection pick-up adjustment type I _g | Adjustable 9 settings |
| [I _g] ground-fault protection pick-up adjustment range | 0.4...1 x I _n for I _n = 40 A 0.2...1 x I _n for I _n > 40 A I _g enable on/off |
| Ground-fault protection time delay adjustment type t _g | Adjustable 5 settings |
| [t _g] ground-fault protection time delay adjustment range | 0...0.4 S I ² t=off 0.1...0.4 s I ² t=on |
| Earth-leakage protection | Without |
| Zone selective interlocking ZSI | With |
| Number of slots for electrical auxiliaries | 5 slot(s) |
| Local signalling | Flashing LED (green) for ready to operate LED 105 % I _r (red) for overload LED 90 % I _r (orange) for overload |
| Display type | LCD display |
| Type of measurement | Energy meter |
| Communication of data | Time-stamped histories and event tables Protection and alarm settings Demand current and power Maintenance indicators Power quality Energy metering Maximeters/Minimeters Instantaneous and demand values |
| Width (W) | 140 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net weight | 2.8 kg |

Environment

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|-----------------------------------|------------------------------|
| Standards | EN/IEC 60947 |
| Product certifications | Marine[RETURN]EAC[RETURN]CCC |
| 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 |

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| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -40...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 | 14.0 cm |
| Package 1 Width | 15.0 cm |
| Package 1 Length | 20.0 cm |
| Package 1 Weight | 2.65 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 3 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 7.95 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 |