



Main

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| Range | Compact |
| Product name | Compact NSX |
| Product or component type | Circuit breaker |
| Device short name | Compact NSX100B |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3t |
| Network type | AC |
| Network frequency | 50/60 Hz |
| [In] rated current | 100 A (40 °C) |
| [Ui] rated insulation voltage | 800 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz |
| Breaking capacity code | B (25 kA) AC |
| Breaking capacity | 25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 15 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity | Ics 20 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 Ics 25 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Ics 40 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Ics 7.5 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Suitability for isolation | Yes conforming to EN 60947-2 Yes conforming to IEC 60947-2 |
| Utilisation category | Category A |
| Trip unit name | Micrologic 5.2 A |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSI |
| Trip unit rating | 40 A (40 °C) |
| Protection type | Overload protection (long time) L |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Instantaneous short-circuit protection I
Short time short-circuit protection S

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| Pollution degree | 3 conforming to IEC 60664-1 |
| Complementary | |
| Control type | Toggle |
| Mounting mode | Fixed |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Mechanical durability | 50000 cycles |
| Electrical durability | 10000 cycles 690 V In conforming to IEC 60947-2 20000 cycles 690 V In/2 conforming to IEC 60947-2 30000 cycles 440 V In conforming to IEC 60947-2 50000 cycles 440 V In/2 conforming to IEC 60947-2 |
| Connection pitch | 35 mm |
| Local signalling | LED 90 % I _r LED ready LED 105 % I _r |
| Long time pick-up adjustment type I _r | Adjustable |
| Long time pick-up adjustment range | 18...40 A |
| Long time delay adjustment type | Adjustable |
| [T _r] long-time delay adjustment range | 15...400 s 1.5 x I _r 0.35...11 s 7.2 x I _r 0.5...16 s 6 x I _r |
| Thermal memory | 20 minutes before and after tripping |
| Short-time pick-up adjustment type I _{sd} | Adjustable |
| [I _{sd}] short-time pick-up adjustment range | 1.5...10 x I _r |
| Short-time delay adjustment type | Adjustable |
| [T _{sd}] short-time delay adjustment range | 0...0.4 s |
| Instantaneous pick-up adjustment type I _i | Adjustable |
| Instantaneous pick-up adjustment range | 1.5...15 x I _n |
| Zone selective interlocking ZSI | With |
| Communication of data | Instantaneous and demand values Protection and alarm settings Energy metering Power quality Demand current and power Time-stamped histories and event tables Maintenance indicators Maximeters/minimeters |
| Display type | LCD display |
| Type of measurement | Ammeter |
| Electrical data recording | Maintenance indicators |
| Height | 161 mm |
| Width | 105 mm |
| Depth | 86 mm |
| Product weight | 2.05 kg |

Environment

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|-----------------------------------|--------------|
| Overvoltage category | Class II |
| Electrical shock protection class | Class II |
| Standards | EN/IEC 60947 |
| Product certifications | CCC |

Marine
EAC

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|---------------------------------------|------------------------------|
| IP degree of protection | IP40 conforming to IEC 60529 |
| IK degree of protection | IK07 conforming to IEC 62262 |
| Ambient air temperature for operation | -35...70 °C |
| Ambient air temperature for storage | -55...85 °C |

Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0819 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Contractual warranty

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| Warranty period | 18 months |
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