



Main

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| Range | Compact |
| Product name | Compact NSX |
| Product or component type | Circuit breaker |
| Device short name | Compact NSX100N |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 3t |
| Neutral position | Left |
| Network type | AC |
| Network frequency | 50/60 Hz |
| [In] rated current | 80 A at 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 | N 50 kA 415 V AC |
| Breaking capacity | 85 kA at 240 V AC 50/60 Hz conforming to UL 508 10 kA Icu at 660/690 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 20 kA at 600 V AC 50/60 Hz conforming to UL 508 50 kA at 480 V AC 50/60 Hz conforming to UL 508 36 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 90 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity | 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 90 kA at 220/240 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 |

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

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|--------------------------------|-----------------------------|
| Utilisation category | Category A |
| Trip unit name | TM-D |
| Trip unit technology | Thermal-magnetic |
| Trip unit protection functions | LI |
| Pollution degree | 3 conforming to IEC 60664-1 |

Complementary

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| Control type | Toggle |
| Mounting mode | Fixed |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Auxiliary contact composition | Without |
| 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 | Positive contact indication |
| Neutral protection setting | No protection (3t) |
| Protection type | L : for overload protection (thermal) I : for short-circuit protection (magnetic) |
| Trip unit rating | 80 A at 40 °C |
| Long time pick-up adjustment type Ir | Adjustable |
| Long time pick-up adjustment range | 0.7...1 x In |
| Long time delay adjustment type | Fixed |
| [Tr] long-time delay adjustment range | 120...400 s at 1.5 x In 15 s at 6 x Ir |
| Short-time pick-up adjustment type Isd | Fixed |
| [Isd] short-time pick-up adjustment range | 640 A |
| Short-time delay adjustment type | Fixed |
| Height | 161 mm |
| Width | 140 mm |
| Depth | 86 mm |
| Product weight | 2.4 kg |
| Compatibility code | NSX100 |

Environment

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|---------------------------------------|------------------------------|
| Overvoltage category | Class II |
| Electrical shock protection class | Class II |
| Standards | EN/IEC 60947 UL 508 |
| Product certifications | CCC Marine EAC |
| 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 |
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| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

Contractual warranty

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| Warranty | 18 months |
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