

C10M2TM100

Circuit breaker, ComPacT NSX100M AC/DC, 25kA/415VAC, 2 poles, TMD trip unit 100A



Main

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|--|---|
| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX100M |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 2P |
| Protected poles description | 2D |
| [In] rated current | 100 A at 40 °C |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz 500 V DC |
| Network type | AC DC |
| 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 | 85 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 25 KA Icu at 380/415 V AC 50/60 Hz 1P conforming to IEC 60947-2 25 KA Icu at 440 V AC 50/60 Hz 1P conforming to IEC 60947-2 18 KA Icu at 500/525 V AC 50/60 Hz 2P conforming to IEC 60947-2 8 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 KA Icu at 250 V DC 50/60 Hz 1 pole conforming to IEC 60947-2 85 KA Icu at 500 V DC 50/60 Hz 2 poles in series conforming to IEC 60947-2 |
| Performance level | M 25 kA 415 V AC |
| Trip unit name | TM-D |
| Trip unit technology | Thermal-magnetic |
| Trip unit protection functions | LI |
| Control type | Toggle |
| Circuit breaker mounting mode | Fixed |

Complementary

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| [Ui] rated insulation voltage | 750 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 85 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 25 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 25 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 18 KA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 8 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 KA at 250 V DC 50/60 Hz conforming to IEC 60947-2 85 KA at 500 V DC 50/60 Hz conforming to IEC 60947-2 36 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability | 20000 cycles |
| Electrical durability | 20000 Cycles at 277 V In/2 10000 cycles at 277 V In |

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| Power dissipation per pole | 8.8 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 (thermal) I : for short-circuit protection (magnetic) |
| Trip unit rating | 100 A at 40 °C |
| Long-time pick-up adjustment type I _r (thermal protection) | Fixed |
| [I _r] long-time protection pick-up adjustment range | 1 x I _n |
| Long-time protection delay adjustment type t _r | Fixed |
| Instantaneous protection pick-up adjustment type I _i | Fixed |
| [I _i] instantaneous protection pick-up adjustment range | 800 A |
| Earth-leakage protection | Without |
| Width (W) | 70 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net weight | 1.2 kg |

Environment

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| Standards | EN/IEC 60947 |
| Product certifications | CCC[RETURN]EAC[RETURN]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 | 8.0 cm |
| Package 1 Width | 13.5 cm |
| Package 1 Length | 17.5 cm |
| Package 1 Weight | 1.245 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 15.0 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 |
| PVC free | Yes |