

C10N3MA025

Circuit breaker, ComPacT NSX100N,
50kA/415VAC, 3 poles, MA trip unit 25A



Main

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| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX100N |
| Product or component type | Circuit breaker |
| Device application | Motor protection |
| Poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 25 A at 65 °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 | 90 KA Icu at 220/240 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 36 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 |
| Performance level | N 50 kA 415 V AC |
| Trip unit name | MA |
| Trip unit technology | Magnetic |
| Trip unit protection functions | I |
| 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 | 90 KA at 220/240 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 36 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 | 50000 cycles |
| Electrical durability | 50000 Cycles at 440 V In/2 30000 Cycles at 440 V In 20000 Cycles at 690 V In/2 10000 cycles at 690 V In |
| Power dissipation per pole | 1.04 W |
| Mounting support | Backplate |

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| Mounting position | Horizontal and vertical Flat on the back |
| Upside connection | Front |
| Downside connection | Front |
| Connection pitch | 35 mm |
| Protection type | I : for short-circuit protection (magnetic) |
| Trip unit rating | 25 A at 65 °C |
| Short-time protection pick-up adjustment type Isd | Adjustable 9 settings |
| [Isd] Short-time protection pick-up adjustment range | 6...14 x In |
| Instantaneous protection pick-up adjustment type Ii | Adjustable 9 settings |
| [Ii] instantaneous protection pick-up adjustment range | 6...14 x In |
| Earth-leakage protection | Without |
| Number of slots for electrical auxiliaries | 5 slot(s) |
| Width (W) | 105 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net weight | 2.05 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 | 12.0 cm |
| Package 1 Width | 14.0 cm |
| Package 1 Length | 19.0 cm |
| Package 1 Weight | 1.791 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 11.76 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 |

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| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| PVC free | Yes |