

Product Datasheet

Characteristic

C10N32D100

Circuit breaker, ComPacT NSX100N, 50kA/415VAC, 3 poles, MicroLogic 2.2 trip unit 100A



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 | Distribution |
| poles description | 3P |
| Protected poles description | 3D |
| [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 |
| 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 |
| Breaking capacity code | N 50 kA 415 V AC |
| Trip unit name | MicroLogic 2.2 |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSol |
| Control type | Toggle |
| 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 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 |

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|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 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 | 4.7 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 (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection |
| Trip unit rating | 100 A at 40 °C |
| Long time pick-up adjustment type Ir | Adjustable 9 settings |
| Long time pick-up adjustment range | 40...100 A |
| Long time delay adjustment type | Fixed |
| [tr] long-time delay adjustment range | 400 s at 1.5 x Ir 16 s at 6 x Ir 11 s at 7.2 x Ir |
| thermal memory | 20 minutes before and after tripping |
| Short-time pick-up adjustment type Isd | Adjustable 9 settings |
| [Isd] short-time pick-up adjustment range | 1.5...10 x Ir |
| Short-time delay adjustment type | Fixed |
| Instantaneous pick-up adjustment type Ii | Fixed |
| instantaneous pick-up adjustment range | 1500 A |
| Earth-leakage protection | Without |
| Zone selective interlocking ZSI | Without |
| Number of slots | 5 slot(s) |
| Local signalling | Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload |
| Width | 105 mm |
| Height | 161 mm |
| Depth | 86 mm |
| net weight | 2.05 kg |

Environment

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|---------------------------------------|--------------------------------------------------------------|
| Standards | EN/IEC 60947 |
| Product certifications | CCC EAC 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 |

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| Package 1 Height | 14.0 cm |
| Package 1 Width | 11.0 cm |
| Package 1 Length | 19.2 cm |
| Package 1 Weight | 1.833 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 7 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 13.206 kg |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| REACH Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant with Exemptions |
| Mercury free | Yes |
| China RoHS Regulation | Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |
| Environmental Disclosure | ENVPEP2301020EN |
| Circularity Profile | ENVEOLI2301020EN |