

Product datasheet

Specifications



Circuit breaker ComPacT NSX400N, 50kA at 415VAC, MicroLogic 2.3 trip unit 400A, 3 poles 3d

C40N32D400

Main

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|--|---|
| Range | ComPacT new generation |
| Product Name | ComPacT NSX new generation |
| Device Short Name | NSX400N |
| Product Or Component Type | Circuit breaker |
| Device Application | Distribution |
| Poles Description | 3P |
| Protected Poles Description | 3D |
| [In] Rated Current | 400 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 |
| [Icu] Rated Ultimate Short-Circuit Breaking Capacity | 85 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 42 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 22 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 50 kA at 480 V AC 50/60 Hz conforming to UL 508 |
| Performance Level | N 50 kA 415 V AC |
| Trip Unit Name | MicroLogic 2.3 |
| Trip Unit Technology | Electronic |
| Trip Unit Protection Functions | LSol |
| Control Type | Toggle |
| Circuit Breaker Mounting Mode | Fixed |

Complementary

| | |
|---|--|
| [Uij] Rated Insulation Voltage | 800 V AC 50/60 Hz |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV |
| [Ics] Rated Service Short-Circuit Breaking Capacity | 85 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 42 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 11 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 |

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| Mechanical Durability | 15000 cycles |
| Electrical Durability | 12000 cycles at 440 V In/2 6000 cycles at 440 V In 6000 cycles at 690 V In/2 3000 cycles at 690 V In |
| Power Dissipation Per Pole | 19.2 W |
| Mounting Support | Backplate |
| Mounting Position | Horizontal and vertical Flat on the back |
| Upside Connection | Front |
| Downside Connection | Front |
| Connection Pitch | 45 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 | 400 A at 40 °C |
| Long-Time Pick-Up Adjustment Type Ir (Thermal Protection) | Adjustable 9 settings |
| [Ir] Long-Time Protection Pick-Up Adjustment Range | 160...400 A |
| Long-Time Protection Delay Adjustment Type Tr | Fixed |
| [Tr] Long-Time Protection 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 Protection Pick-Up Adjustment Type Isd | Adjustable 9 settings |
| [Isd] Short-Time Protection Pick-Up Adjustment Range | 1.5...10 x Ir |
| Short-Time Protection Delay Adjustment Type Tsd | Fixed |
| Instantaneous Protection Pick-Up Adjustment Type Ii | Fixed |
| [Ii] Instantaneous Protection Pick-Up Adjustment Range | 4800 A |
| Earth-Leakage Protection | Without |
| Zone Selective Interlocking Zsi | Without |
| Number Of Slots For Electrical Auxiliaries | 6 slot(s) |
| Local Signalling | Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload |
| Width (W) | 140 mm |
| Height (H) | 255 mm |
| Depth (D) | 110 mm |
| Net Weight | 6.05 kg |

Environment

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|-------------------------------|----------------------|
| Standards | EN/IEC 60947 |
| Product Certifications | CCC EAC Marine |
| Overvoltage Category | Class II |

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|--|--|
| 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 | 15.0 cm |
| Package 1 Width | 16.0 cm |
| Package 1 Length | 29.2 cm |
| Package 1 Weight | 5.618 kg |
| Unit Type Of Package 2 | S04 |
| Number Of Units In Package 2 | 2 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 40.0 cm |
| Package 2 Length | 60.0 cm |
| Package 2 Weight | 12.21 kg |

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Mercury Free

Rohs Exemption Information Yes

Pvc Free

Halogen Free Plastic Parts Product

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Compliant

[EU RoHS Declaration](#)

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](#)