

Product data sheet

Characteristics

C40F31M320

Circuit breaker, ComPacT NSX400F,
36kA/415VAC, 3 poles, MicroLogic 1.3M trip
unit 320A



Main

| | |
|--|---|
| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX400F |
| Product or component type | Circuit breaker |
| Device application | Motor protection |
| Poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 320 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 | 40 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 30 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 20 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 20 kA at 600 V AC 50/60 Hz conforming to UL 508 |
| Performance level | F 36 kA 415 V AC |
| Trip unit name | MicroLogic 1.3 M |
| Trip unit technology | Electronic |
| Trip unit protection functions | SI |
| 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 | 40 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 30 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 10 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 | 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 |

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| Power dissipation per pole | 12.29 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 | S : for short time short-circuit protection I : for instantaneous short-circuit protection |
| Trip unit rating | 320 A at 65 °C |
| Short-time protection pick-up adjustment type lsd | Adjustable 9 settings |
| [lsd] Short-time protection pick-up adjustment range | 1600 A 1920 A 2440 A 2560 A 2880 A 3200 A 3520 A 3840 A 4160 A |
| Short-time protection delay adjustment type tsd | Fixed |
| Instantaneous protection pick-up adjustment type li | Fixed |
| [li] 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 |
| 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[RETURN]EAC[RETURN]Marine |
| Oversupply 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 | 15.0 cm |
| Package 1 Width | 15.5 cm |
| Package 1 Length | 29.0 cm |
| Package 1 Weight | 5.624 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 |

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| Package 2 Length | 60.0 cm |
| Package 2 Weight | 12.089 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 |
| Halogen content performance | Halogen free plastic parts product |