

Product data sheet

Characteristics

C63F32M500

Circuit breaker, ComPacT NSX630F,
36kA/415VAC, 3 poles, MicroLogic 2.3M trip
unit 500A



Main

| | |
|--|---|
| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX630F |
| Product or component type | Circuit breaker |
| Device application | Motor protection |
| Poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 500 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 2.3 M |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSol |
| Control type | Toggle |
| Circuit breaker mounting mode | Fixed |

Complementary

| | |
|---|--|
| [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 | 8000 Cycles at 440 V In/2 4000 Cycles at 440 V In 6000 Cycles at 690 V In/2 2000 cycles at 690 V In |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|---|--|
| Power dissipation per pole | 25 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 | 500 A at 65 °C |
| Motor tripping class | 20 10 5 |
| Complementary motor protection | Phase unbalance |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings |
| [Ir] long-time protection pick-up adjustment range | 250...500 A |
| Long-time protection delay adjustment type tr | Fixed |
| [tr] long-time protection delay adjustment range | 120 S at 1.5 x Ir for trip class 5 6.5 S at 6 x Ir for trip class 5 5 S at 7.2 x Ir for trip class 5 240 S at 1.5 x Ir for trip class 10 13.5 S at 6 x Ir for trip class 10 10 S at 7.2 x Ir for trip class 10 480 S at 1.5 x Ir for trip class 20 26 S at 6 x Ir for trip class 20 20 s at 7.2 x Ir for trip class 20 |
| 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 | 5...13 x Ir |
| Short-time protection delay adjustment type tsd | Fixed |
| Instantaneous protection pick-up adjustment type li | Fixed |
| [li] instantaneous protection pick-up adjustment range | 6500 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 95 % Ith (red) for temperature over set point |
| Width (W) | 140 mm |
| Height (H) | 255 mm |
| Depth (D) | 110 mm |
| Net weight | 6.2 kg |

Environment

| | |
|---------------------------------------|--|
| 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

| | |
|------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 23.2 cm |
| Package 1 Width | 16.6 cm |
| Package 1 Length | 31.5 cm |
| Package 1 Weight | 5.759 kg |

Offer Sustainability

| | |
|-----------------------------|---|
| 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 |