

C63F4TM500D1

circuit breaker ComPacT NSX500 DC PV, 500 A, 1000 V, TM-D trip unit, 4 poles



Main

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| Range | ComPacT new generation |
| Product name | ComPacT NSX DC PV |
| Device short name | NSX500 DC PV |
| Product or component type | Circuit breaker |
| Device application | Photovoltaic |
| Poles description | 4P |
| [In] rated current | 500 A at 40 °C |
| [Ue] rated operational voltage | 1000 V DC |
| Network type | DC |
| Suitability for isolation | Yes conforming to EN/IEC 60947-2 |
| Utilisation category | Category A |
| [Icu] rated ultimate short-circuit breaking capacity | 10 kA Icu at 1000 V DC 4 poles in series conforming to IEC 60947-2 |
| Performance level | F 10 kA 1000 V DC |
| Trip unit name | TM-DC |
| Trip unit technology | Thermal-magnetic |
| Trip unit protection functions | LI |
| Control type | Toggle |
| Circuit breaker mounting mode | Fixed |

Complementary

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| [Ui] rated insulation voltage | 1000 V DC conforming to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 10 kA at 1000 V DC conforming to IEC 60947-2 |
| Mechanical durability | 5000 cycles |
| Electrical durability | 1000 cycles at 1000 V In |
| Mounting support | Backplate |
| Mounting position | Horizontal and vertical Flat on the back |
| Upside connection | Front |
| Downside connection | Front Rear |
| Connection pitch | 45 mm |
| Protection type | L : for overload protection (thermal) I : for short-circuit protection (magnetic) |
| Trip unit rating | 500 A at 40 °C |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable |
| [Ir] long-time protection pick-up adjustment range | 0.7...1 x In |
| Long-time protection delay adjustment type tr | Fixed |
| Instantaneous protection pick-up adjustment type Ii | Adjustable |
| [Ii] instantaneous protection pick-up adjustment range | 5...10 x In |
| Earth-leakage protection | Without |

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| Width (W) | 185 mm |
| Height (H) | 255 mm |
| Depth (D) | 110 mm |
| Net weight | 8.1 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 |
| Package 1 Height | 30.0 cm |
| Package 1 Width | 30.0 cm |
| Package 1 Length | 40.0 cm |
| Package 1 Weight | 10.0 kg |
| Unit Type of Package 2 | P12 |
| Number of Units in Package 2 | 36 |
| Package 2 Height | 50.0 cm |
| Package 2 Width | 80.0 cm |
| Package 2 Length | 120.0 cm |
| Package 2 Weight | 372.0 kg |

Offer Sustainability

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|-----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Compliant  EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information |  Yes |
| China RoHS Regulation |  China RoHS Declaration |
| Environmental Disclosure |  Product Environmental Profile |
| Halogen content performance | Halogen free plastic parts product |

Contractual warranty

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| Warranty | 18 months |
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