# Product data sheet
## Characteristics

# C63S4TM500D
## Circuit breaker, ComPacT NSX630S DC, 100kA/750VDC, 4 poles, TM-DC trip unit 500A

### Main

| | |
|---|---|
| Range | ComPacT new generation |
| Product name | ComPacT NSX DC new generation |
| Device short name | NSX630S DC |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 4D |
| Neutral position | Left |
| [In] rated current | 500 A at 40 °C |
| [Ue] rated operational voltage | 750 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 | 100 KA Icu at 24...125 V DC 1 pole conforming to IEC 60947-2<br>100 KA Icu at 250 V DC 1 pole conforming to IEC 60947-2<br>100 KA Icu at 500 V DC 2 poles in series conforming to IEC 60947-2<br>100 kA Icu at 750 V DC 3 poles in series conforming to IEC 60947-2 |
| Performance level | S 100 kA 500 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

| | |
|---|---|
| [Ui] rated insulation voltage | 750 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 | 100 KA at 24...125 V DC conforming to IEC 60947-2<br>100 KA at 250 V DC conforming to IEC 60947-2<br>100 KA at 500 V DC conforming to IEC 60947-2<br>100 kA at 750 V DC conforming to IEC 60947-2 |
| Mechanical durability | 5000 cycles |
| Electrical durability | 2000 Cycles at 750 V In/2<br>1000 cycles at 750 V In |
| Mounting support | Backplate |
| Mounting position | Horizontal and vertical<br>Flat on the back |
| Upside connection | Front |
| Downside connection | Front |
| Connection pitch | 45 mm |

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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.
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|---|---|
| Protection type | L : for overload protection (thermal)<br>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 | 2.5...5 x In |
| Earth-leakage protection | Without |
| Number of slots for electrical auxiliaries | 6 slot(s) |
| Width (W) | 185 mm |
| Height (H) | 255 mm |
| Depth (D) | 110 mm |
| Net weight | 8.4 kg |

## Environment

| | |
|---|---|
| Standards | EN/IEC 60947 |
| Product certifications | CCC<br>EAC<br>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<br>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 | 14.7 cm |
| Package 1 Width | 20.0 cm |
| Package 1 Length | 29.1 cm |
| Package 1 Weight | 7.299 kg |

## Offer Sustainability

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