

Product datasheet

Specifications



Switch disconnecter, ComPacT NSX500NA DC PV, 4 poles, fixed, 500A rating, 1000V

C634500D1S

Main

| | |
|--|----------------------------------|
| Range | ComPacT |
| Product name | ComPacT NSX DC PV |
| Device short name | NSX500NA DC PV |
| Product or component type | Switch disconnecter |
| Device application | Photovoltaic |
| Poles description | 4P |
| [I _{th}] conventional free air thermal current | 400 A at 65 °C |
| [I _e] rated operational current | DC-22A: 500 A DC 1000 V |
| [U _e] rated operational voltage | 1000 V DC |
| Network type | DC |
| Suitability for isolation | Yes conforming to EN/IEC 60947-3 |
| Utilisation category | DC-22A |
| Breaking capacity code | NA |
| Contact position indicator | Yes |
| Visible break | No |
| Mounting mode | Fixed |
| [I _{cw}] rated short-time withstand current | 6 kA during 1 s |
| [I _{cm}] rated short-circuit making capacity | 6 kA switch-disconnector alone |
| Control type | Toggle |
| [U _i] rated insulation voltage | 1000 V DC |
| [U _{imp}] rated impulse withstand voltage | 8 kV |

Complementary

| | |
|-----------------------|--------------------------|
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Connection pitch | 45 mm |
| Mechanical durability | 5000 cycles |
| Electrical durability | 1000 cycles 1000 V DC In |
| Width (W) | 185 mm |
| Height (H) | 255 mm |

| | |
|------------|----------------------------------|
| Depth (D) | 110 mm |
| Net weight | 8.1 kg |
| Standards | EN/IEC 60947-1 EN/IEC 60947-3 |

Environment

| | |
|---------------------------------------|------------------------------|
| IP degree of protection | IP40 conforming to IEC 60529 |
| IK degree of protection | IK07 conforming to IEC 62262 |
| Electrical shock protection class | Class II |
| Pollution degree | 3 conforming to IEC 60664-1 |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -50...85 °C |

Packing Units

| | |
|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 15.000 cm |
| Package 1 Width | 20.000 cm |
| Package 1 Length | 29.000 cm |
| Package 1 Weight | 7.080 kg |

Contractual warranty

| | |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

| | |
|--|---|
| Total lifecycle Carbon footprint | 784 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Carbon footprint of the manufacturing phase [A1 to A3] | 47 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.9 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.6 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 722 kg CO2 eq. |
| Carbon footprint of the end-of-life phase [C1 to C4] | 14 kg CO2 eq. |

Use Better



Materials and Substances

| | |
|--|--|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| SCIP Number | E01033b9-a29d-4247-893c-b0642e7209e8 |
| EU RoHS Directive | Compliant By Exemption |
| REACH Regulation | Reference contains Substances of Very High Concern above the threshold |
| Halogen-free status | Product contains halogen above thresholds |
| PVC free | Yes |
| Silicone-free | No |

Use Longer




Lifetime extension

| | |
|--------|----|
| Repair | No |
|--------|----|

Use Again



Repack and remanufacture

| | |
|---------------------------------|---|
| Recyclability potential, in % | 59 |
| End of life manual availability | No need of specific recycling operations |
| Take-back | No |
| WEEE Label |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

