Product datasheet

Specifications



switch-disconnector Compact INS500 - 500 A - 3 poles

31112

Main

Range	ComPact
Product or component type	Switch disconnector
Product name	ComPacT INS
Poles description	3P
Network type	AC DC
Network frequency	50/60 Hz
[Ie] rated operational current	AC-22A: 500 A AC 50/60 Hz 220/240 V AC-22A: 500 A AC 50/60 Hz 380/415 V AC-22A: 500 A AC 50/60 Hz 440/480 V AC-22A: 500 A AC 50/60 Hz 480 V NEMA AC-22A: 500 A AC 50/60 Hz 500/525 V AC-22A: 500 A AC 50/60 Hz 660/690 V AC-23A: 500 A AC 50/60 Hz 220/240 V AC-23A: 500 A AC 50/60 Hz 380/415 V AC-23A: 500 A AC 50/60 Hz 440/480 V AC-23A: 500 A AC 50/60 Hz 480 V NEMA AC-23A: 500 A AC 50/60 Hz 500/525 V AC-23A: 500 A AC 50/60 Hz 660/690 V DC-22A: 500 A DC 125 V 2 poles in series DC-23A: 500 A DC 125 V 2 poles in series
[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV 8 kV conforming to IEC 60947-3
[Ith] conventional free air thermal current	500 A at 60 °C
[Icm] rated short-circuit making capacity	330 kA with upstream protection circuit breaker 690 V AC at 50/60 Hz 50 kA switch-disconnector alone 690 V AC at 50/60 Hz
[Ue] rated operational voltage	125 V DC 690 V AC 50/60 Hz
Suitability for isolation	Yes
Contact position indicator	Yes
Visible break	No
Pollution degree	3

Complementary

Control type	Direct front rotary handle
Handle colour	Black
Mounting mode	Fixed
Mounting support	Rail Plate

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: 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

Upside connection	Front
Downside connection	Front
Maximum power	AC-23: 132 kW at 220/240 V AC 50/60 Hz AC-23: 150 kW at 230 V AC 50/60 Hz (NEMA) AC-23: 250 kW at 380/415 V AC 50/60 Hz AC-23: 250 kW at 440 V AC 50/60 Hz AC-23: 250 kW at 480 V AC 50/60 Hz (NEMA) AC-23: 355 kW at 500/525 V AC 50/60 Hz AC-23: 500 kW at 660/690 V AC 50/60 Hz
Rated duty	Uninterrupted
[Icw] rated short-time withstand current	11.5 kA during 3 s conforming to IEC 60947-3 20 kA during 1 s conforming to IEC 60947-3 4 kA during 30 s conforming to IEC 60947-3 4.9 kA during 20 s conforming to IEC 60947-3
Mechanical durability	10000 cycles
Electrical durability	AC-22A: 1500 cycles 440 V AC 50/60 Hz AC-22A: 1500 cycles 500 V AC 50/60 Hz AC-22A: 1500 cycles 690 V AC 50/60 Hz AC-23A: 1500 cycles 440 V AC 50/60 Hz AC-23A: 1500 cycles 500 V AC 50/60 Hz AC-23A: 1500 cycles 690 V AC 50/60 Hz DC-23A: 1000 cycles 125 V DC 2 poles in series
Connection pitch	45 mm
Height	205 mm
Width	185 mm
Depth	120 mm
Net weight	4.6 kg

Environment

Standards	IEC 60947-3 IEC 60947-1
Product certifications	KEMA-KEUR CCC
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to EN 50102
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	19.000 cm
Package 1 Width	19.000 cm
Package 1 Length	22.500 cm
Package 1 Weight	5.013 kg
Unit Type of Package 2	S04
Number of Units in Package 2	4
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm

Package 2 Length	60.000 cm
Package 2 Weight	20.753 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	**557 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**31 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.7 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.2 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**516 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**8 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No, we have minimized the use of plastic in the packaging in compliance with regulations and considering quality and safety standards**
SCIP Number	**Bbc62998-8aa6-42dc-8088-17a5c936153d**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold

Use Again

Repack and remanufacture

Recyclability potential, in %	**89**
End of life manual availability	End of Life Information
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**