Product data sheet
Characteristics

SSP3A225BDR
three phase relay, Harmony Solid State Relays, 25A, panel mount, random switching, input 4 to 32V DC, output 48 to 530V AC



Commercial status
End of Commercialisation : MAY 30, 2025

⚠ End of Commercialisation

Main

Range of product	Harmony Solid State Relays
Product or component type	Solid state relay up to 30 A
Device short name	SSP
Mounting support	Panel
Network number of phases	3 phases
[In] rated current	25 A
Solid state output type	Random voltage switching
Output switching mode	Random voltage switching

Complementary

Control type	Without test button
[Uc] control circuit voltage	4...32 V DC
Minimum switching voltage	4 V DC turn-on
Maximum switching voltage	1 V DC turn-off
Response time	8.33 ms (turn-off) 0.1 ms (turn-on)
Input current limits	24…35 MA
Output voltage	48...530 V AC
Load current	0.1…25 A
Absolute maximum voltage	1200 V
Surge current	275 A for 20 ms 300 A for 16.6 ms 85 A for 1 s
Maximum I²t for fusing	380 A².S for 10 ms at 50 Hz 370 A².S for 8.3 ms at 60 Hz
Maximum leakage current	3 MA off-state
Maximum voltage drop	<1.35 V on-state
DV/dt	500 V/µs off-state at maximum voltage
Cos phi	0.5 (with maximum load)
Motor power hp	0.75 Hp 40 °C 120 V AC 1 Hp 40 °C 240 V AC 3 Hp 40 °C 480 V AC 4.4 Hp 40 °C 530 V AC
Motor power kW	0.56 KW at 40 °C 120 V AC 0.74 KW at 40 °C 240 V AC 2.22 KW at 40 °C 480 V AC 3.24 KW at 40 °C 530 V AC

Insulation resistance	>= 1000 MOhm at 500 V DC
Capacitance unbalance	8 PF for input/output
Dielectric strength	4 KV AC for input/output 4 KV AC for input or output to case
Tightening torque	0.9...1.1 N.m for input 1.7...2.2 N.m for output
Connections - terminals	Screw terminals: 1 x 0.2...1 x 2.5 mm², (24 AWG...14 AWG) for input Screw terminals: 1 x 1.5...1 x 10 mm², (16 AWG...8 AWG) for output
Thermal resistance	0.24 °C/W
Local signalling	LED, green for input
IP degree of protection	IP20
Net weight	0.24 Kg
Width	101.3 Mm
Height	79.7 Mm
Depth	35.4 Mm
Device presentation	Complete product

Environment

Flame retardance	V0 conforming to UL 94
Ambient air temperature for operation	-40…80 °C
Ambient air temperature for storage	-40…125 °C
Pollution degree	2
Overvoltage category	III
Product certifications	CSA[RETURN]UL
Marking	CE
Standards	IEC 61000 IEC 60950-1 IEC 62314

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.0 Cm
Package 1 Width	8.5 Cm
Package 1 Length	12.5 Cm
Package 1 Weight	278.0 G
Unit Type of Package 2	S02
Number of Units in Package 2	27
Package 2 Height	15.0 Cm
Package 2 Width	30.0 Cm
Package 2 Length	40.0 Cm
Package 2 Weight	11.386 Kg

Offer Sustainability

Total lifecycle Carbon footprint	2 602 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.4657495059
Carbon footprint of the manufacturing phase [A1 to A3]	1 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0358680435
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0022871131
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2600.9342430238
Carbon footprint of the use phase [B2, B3, B4, B6]	2 601 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.0598524111
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.

Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	2602
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	134201bc-d293-4667-9cca-10a7f11729e0
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commercialisation

SSP3A225BDR may be replaced by any of the following products:



SSP3A225BDRT

three phase relay, Harmony Solid State Relays, 25A, panel mount, random switching, thermal pad, input 4 to 32V DC

Qty 1

Substitution date: |