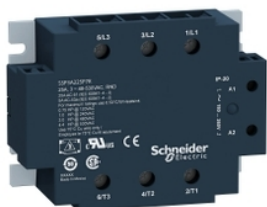


SSP3A225BDR

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



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
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
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	24...35 mA
Load current	0.1...25 A
Transient overvoltage	1200 V
Surge current	275 A for 20 ms 300 A for 16.6 ms 85 A for 1 s
Maximum I ² t for fusing	380 A ² .S for 10 ms at 50 Hz 370 A ² .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
Power factor	0.5 (with maximum load)
Motor controller rating	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
Maximum capacitance	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 mm ² , (AWG 24...AWG 14) for input Screw terminals: 1 x 1.5...1 x 10 mm ² , (AWG 16...AWG 8) for output
Thermal resistance	0.24 °C/W
LED indicator	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

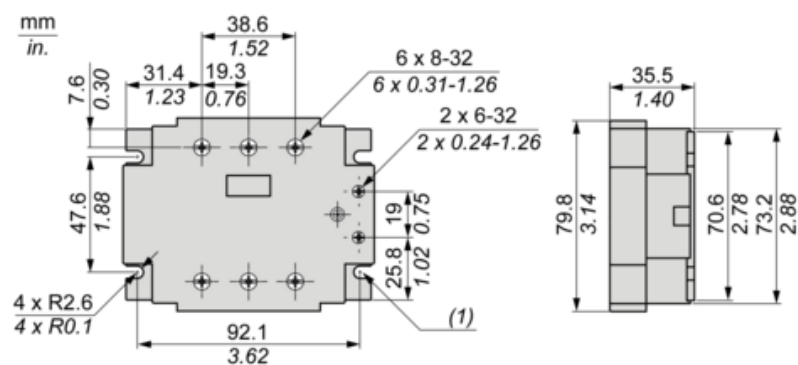
Packing Units

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

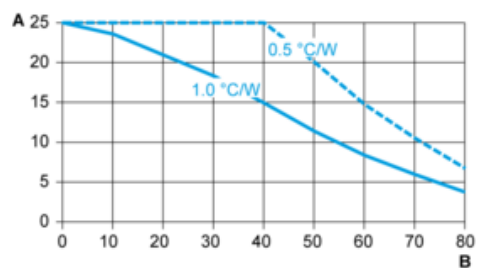
Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information

Dimensions



(1) 4 Mounting slots

Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)