

three phase relay, Harmony Solid State Relays, 50A, panel mount, random switching, thermal pad, input 90...280V AC, output 42... 660V AC

SSP3A250P7RT

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Harmony Solid State Relays
Provided accessory	Thermal pad
Product or Component Type	Panel mount relay
Device short name	SSP
Mounting Support	Panel
Number of phases	3 phase
Line Rated Current	50 A
Solid state output type	Random voltage switching
Output switching mode	Random voltage switching

Complementary

test button	Without test button
[Uc] control circuit voltage	90280 V AC 50/60 Hz
Minimum switching voltage	90 V AC turn-on
Maximum switching voltage	9 V AC turn-off
Response time	20 ms (turn-on) 30 ms (turn-off)
Input current	720 mA
Output voltage	42660 V AC
Load current	0.450 A
Transient overvoltage	1200 V
Surge current	715 A 20 ms 750 A 16.6 ms
Maximum I ² t for fusing	2520 A ² .s for 10 ms at 50 Hz 2320 A ² .s for 8.3 ms at 60 Hz
Co-ordination type	TVS
Maximum leakage current	3 mA off-state
Maximum voltage drop	<1.6 V on-state
DV/dt	500 V/μs off-state at maximum voltage
Power factor	0.5 (with maximum load)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Motor controller rating	1.5 hp 104 °F (40 °C) 120 V AC 3 hp 104 °F (40 °C) 240 V AC 7.5 hp 104 °F (40 °C) 480 V AC 10 hp 104 °F (40 °C) 600 V AC
Motor power kW	1.1 kW 104 °F (40 °C) 120 V AC 2.2 kW 104 °F (40 °C) 240 V AC 5.5 kW 104 °F (40 °C) 480 V AC 7.5 kW 104 °F (40 °C) 600 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
[Uimp] rated impulse withstand voltage	4 kV for input to case 6 kV for input/output circuit 6 kV for input/output to case
Tightening torque	1.2 N.m for input 2.5 N.m for output
Connections - terminals	Screw terminals 1 x 0.21 x 2.5 mm², AWG 24AWG 14) input Screw terminals 1 x 1.51 x 10 mm², AWG 16AWG 8) output
Thermal resistance	0.15 °C/W
LED indicator	LED, green input
IP degree of protection	IP20
Electromagnetic compatibility	Electrostatic discharge 4 kV criteria B contact discharge conforming to IEC 61000-4-2 Electrostatic discharge 8 kV criteria B air discharge conforming to IEC 61000-4-2 Conducted RF disturbances 10 V, 0.1580 MHz criteria A conforming to IEC 61000-4-6 Radiated radio-frequency electromagnetic field immunity test 10 V/m, 80 MHz1 GHz criteria A conforming to IEC 61000-4-3 Surge immunity test 1 kV criteria B output ports line to line conforming to IEC 61000-4-5 Surge immunity test 2 kV criteria B output ports line to earth conforming to IEC 61000-4-5 Surge immunity test 1 kV criteria B input ports line to earth conforming to IEC 61000-4-5 Electrical fast transient/burst immunity test 2 kV, 5kHz criteria B output ports conforming to IEC 61000-4-4 Immunity to voltage dips 0 %/20 ms criteria B conforming to IEC 61000-4-11 Immunity to voltage dips 40 %/200 ms criteria C conforming to IEC 61000-4-11 Immunity to short interruption 0 %/5 s criteria C conforming to IEC 61000-4-11 Electrical fast transient/burst immunity test 1 kV, 5kHz criteria B input ports conforming to IEC 61000-4-4 Radiated radio-frequency electromagnetic field immunity test 3 V/m, 1.46 GHz criteria A conforming to IEC 61000-4-3 Radiated emission 301000 Mhz environment A conforming to IEC 60947-1 Conducted emission 0.1530 Mhz environment A conforming to IEC 60947-1
Net Weight	0.82 lb(US) (0.37 kg)
Width	4.09 in (104 mm)
Height	2.9 in (74.6 mm)
Depth	1.6 in (41 mm)
Device presentation Environment	Complete product
Flame retardance	V0 conforming to UL 94
Ambient Air Temperature for Operation	-40176 °F (-4080 °C)
Ambient Air Temperature for Storage	-40257 °F (-40125 °C)
Pollution degree	2

Overvoltage category	III	
Product Certifications	CE	
	CSA	
	EAC	
	UL	
	UKCA	
marking	CE	
Standards	IEC/EN 62314	
	IEC/EN 60947-4-2	
	IEC/EN 60947-4-3	
	UL 60947-4-2	
	C22.2 No. 14	

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3606480580086
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.57 in (4.000 cm)
Package 1 Width	3.35 in (8.500 cm)
Package 1 Length	4.72 in (12.000 cm)
Package 1 Weight	9.665 oz (274.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	27
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	17.293 lb(US) (7.844 kg)

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

How we assess product sustainability >

Resource performance

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Take-Back

No

Well-being performance



Lead Free



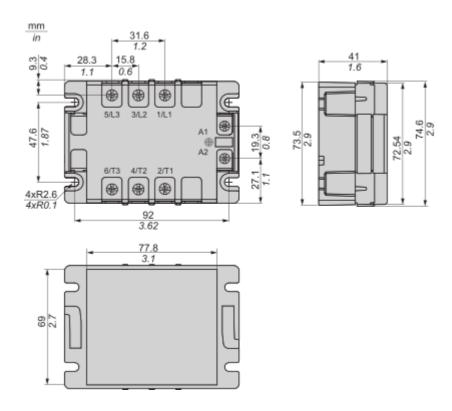
Rohs Exemption Information

Yes

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	

Dimensions Drawings

Dimensions

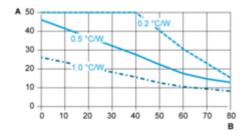


Product data sheet

SSP3A250P7RT

Performance Curves

Derating Curves



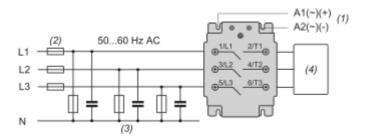
A : Load Current (Amperes)
B : Ambient Temperature (°C)

Product data sheet

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Connections and Schema

Wiring



- (1) Setting control voltage in between turn on and turn off voltage may cause malfunction or damage the SSR.
- (2) Recommended fuses.
- (3) Recommended to install filters if Conductive Emission (CE) Class A is required.
- (4) Load.

Technical Illustration

Dimensions

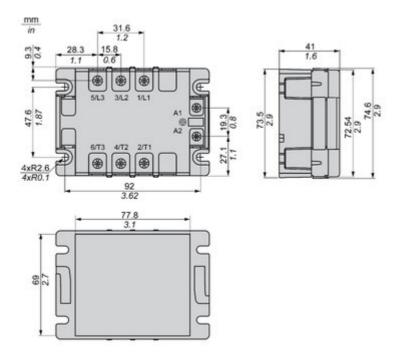


Image of product / Alternate images

Alternative













