# Product data sheet

Specifications





three phase relay, Harmony Solid State Relays, 50A, panel mount, random switching, thermal pad, input 18 to 36V AC, output 48 to 530V AC

SSP3A250B7RT

Discontinued
Discontinued on: May 22, 2023

Product availability: Stock - Normally stocked in distribution facility

### Main

Range Of Product	Harmony Solid State Relays	
Provided Accessory	Thermal interface	
Product Or Component Type	Solid state relay up to 50 A	
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

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Control Type	Without test button	
Minimum Switching Voltage	18 V AC turn-on	
Maximum Switching Voltage	2 V AC turn-off	
Response Time	30 ms (turn-off) 0.1 ms (turn-on)	
Input Current	1520 mA	
Load Current	0.150 A	
Transient Overvoltage	1200 V	
Surge Current	715 A 20 ms 750 A 16.6 ms 150 A 1 s	
Maximum I <sup>2</sup> T For Fusing	2520 A².s for 10 ms at 50 Hz 2320 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	
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.

Life Is On Schneider

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	
	8.8 hp 104 °F (40 °C) 530 V AC	
Motor Power Kw	1.11 kW 104 °F (40 °C) 120 V AC	
	2.22 kW 104 °F (40 °C) 240 V AC	
	5.55 kW 104 °F (40 °C) 480 V AC	
	6.47 kW 104 °F (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	0.91.1 N.m for input	
	1.72.2 N.m for output	
Connections - Terminals	Screw terminals 1 x 0.21 x 2.5 mm <sup>2</sup> , AWG 24AWG 14) input	
	Screw terminals 1 x 1.51 x 10 mm <sup>2</sup> , AWG 16AWG 8) output	
Thermal Resistance	0.12 °C/W	
Led Indicator	LED, green input	
Ip Degree Of Protection	IP20	
Net Weight	0.53 lb(US) (0.24 kg)	
Width	3.99 in (101.3 mm)	
Height	3.14 in (79.7 mm)	
Depth	1.39 in (35.4 mm)	
Device Presentation	Complete product	

## Environment

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	UL CSA	
Marking	CE	
Standards	IEC 62314 IEC 60950-1 IEC 61000	

## Ordering and shipping details

Category	US10CP222375	
Discount Schedule	0CP2	
Gtin	3606480580116	
Returnability	No	
Country Of Origin	US	

## **Packing Units**

Unit Type Of Package 1

Number Of Units In Package 1	1	
Package 1 Height	1.57 in (4 cm)	
Package 1 Width	3.35 in (8.5 cm)	
Package 1 Length	4.72 in (12 cm)	
Package 1 Weight	9.66 oz (274 g)	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	27	
Package 2 Height	5.91 in (15 cm)	
Package 2 Width	11.81 in (30 cm)	
Package 2 Length	15.75 in (40 cm)	
Package 2 Weight	17.18 lb(US) (7.793 kg)	

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> products.

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

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



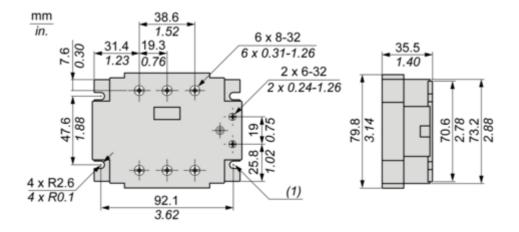
Rohs Exemption Information

## **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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**

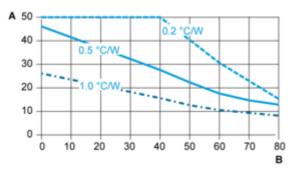
#### Dimensions



(1) 4 Mounting slots

Performance Curves

#### **Derating Curves**



A : Load Current (Amperes)

B : Ambient Temperature (°C)