# Product data sheet

Specifications





single phase relay, Harmony Solid State Relays, 25A, panel mount, zero voltage switching, input 3 to 32V DC, output 24 to 300V AC

SSP1A125BD

Product availability: Stock - Normally stocked in distribution facility

### Price\*: 18.74 USD

### Main

Range Of Product	Harmony Solid State Relays	
Product Or Component Type	Solid state relay up to 30 A	
Device Short Name	SSP1	
Mounting Support	Panel	
Number Of Phases	1 phase	
Line Rated Current	25 A	
Solid State Output Type	Zero voltage switching SCR output	
Output Switching Mode	Zero voltage switching	

## Complementary

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Minimum Switching Voltage	3 V DC turn-on	
Maximum Switching Voltage	1 V DC turn-off	
Response Time	0.5 cycle (turn-on) 0.5 cycle (turn-off)	
Input Current	10 mA at 12 V DC	
Load Current	0.1525 A	
Transient Overvoltage	600 V	
Surge Current	250 A 16.6 ms	
Maximum I <sup>2</sup> T For Fusing	259 A².s for 8.33 ms at 60 Hz 285 A².s for 10 ms at 50 Hz	
Co-Ordination Type	Type 1 - 25 A miniature circuit breaker (MCB) B Type 2 - 20 A miniature circuit breaker (MCB) B	
Maximum Leakage Current	1 mA off-state	
Maximum Voltage Drop	<1.15 V on-state	
Dv/Dt	500 V/µs off-state at maximum voltage	
Power Factor	0.5 (with maximum load)	
Motor Controller Rating	0.5 hp 120 V AC 1 hp 240 V AC	
Insulation Resistance	1000 MOhm at 500 V DC	
Maximum Capacitance	10 pF for input/output	

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

Dielectric Strength	4 kV AC for input/output	
Ū	4 kV AC for input or output to case	
[Uimp] Rated Impulse Withstand	6 kV output to case	
Voltage	6 kV input to output	
Tightening Torque	1.51.7 N.m for input	
	22.2 N.m for output	
Connections - Terminals	Screw terminals 0.23.3 mm <sup>2</sup> , AWG 24AWG 12) with cable end input	
	Screw terminals 0.55.26 mm <sup>2</sup> , AWG 20AWG 10) with cable end output	
	Screw terminals 0.23.3 mm <sup>2</sup> , AWG 24AWG 12) without cable end input	
	Screw terminals 0.58.26 mm <sup>2</sup> , AWG 20AWG 8) without cable end output	
	Forked type tag connectors 9.2 x 4 mm input	
	Ring lugs 9.2 x 4 mm input	
	Forked type tag connectors 11.7 x 4.5 mm output	
	Ring lugs 11.7 x 4.5 mm output	
Thermal Resistance	0.8 °C/W junction to case	
Led Indicator	LED, green input	
Ip Degree Of Protection	IP20	
Safety Reliability Data	MTTFd = 1875.9 years	
	B10d = 1731395	
Net Weight	3.15 oz (89.2 g)	
Device Presentation Complete product		

# Environment

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	CSA UL CE EAC	
Marking	CSA CE EAC UL	
Standards	UL 508 CSA C22.2 No 14-13 IEC 62314 IEC 60950-1	

# Ordering and shipping details

Category	US10CP222375	
Discount Schedule	0CP2	
Gtin	3606485441856	
Returnability	Yes	
Country Of Origin	MX	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.50 in (3.800 cm)

Package 1 Width	1.89 in (4.800 cm)	
Package 1 Length	2.56 in (6.500 cm)	
Package 1 Weight	3.39 oz (96.000 g)	
Unit Type Of Package 2	S01	
Number Of Units In Package 2	30	
Package 2 Height	5.91 in (15.000 cm)	
Package 2 Width	5.91 in (15.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	7.21 lb(US) (3.270 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

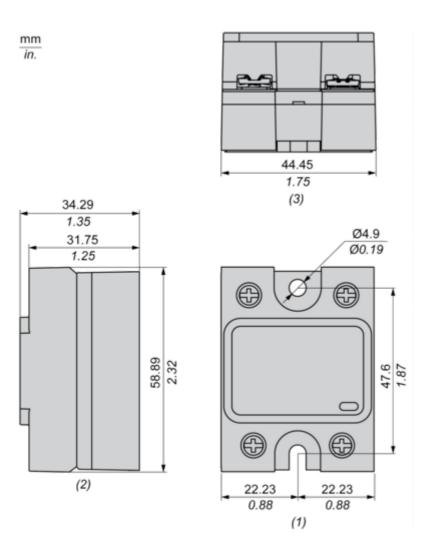
## **Certifications & Standards**

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

## Product data sheet

#### **Dimensions Drawings**

#### Dimensions



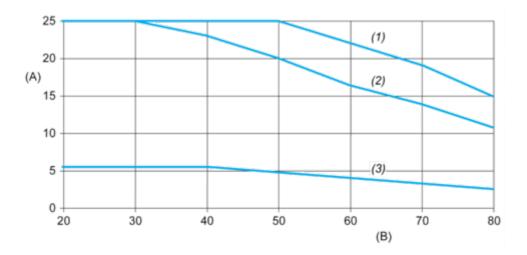
(1) Front view

(2) Side view

(3) Bottom view

#### **Performance Curves**

#### **Derating Curves**



A : Load Current (Arms)

B : Ambient Temperature (°C)

(1) For Heatsink SSRHP17 (2) For Heatsink SSRHP25

(3) No Heatsink