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 ² 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 ² , AWG 24AWG 12) with cable end input	
	Screw terminals 0.55.26 mm ² , AWG 20AWG 10) with cable end output	
	Screw terminals 0.23.3 mm ² , AWG 24AWG 12) without cable end input	
	Screw terminals 0.58.26 mm ² , 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 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.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

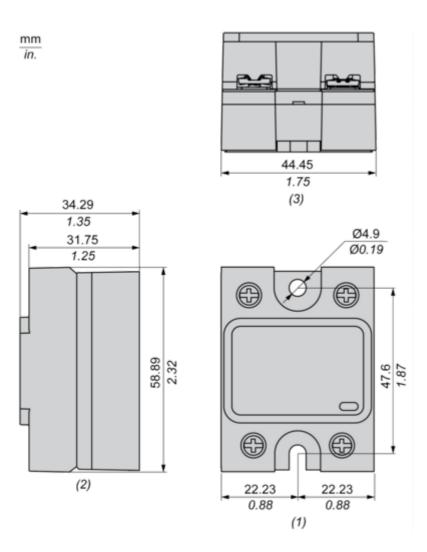
Certifications & Standards

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



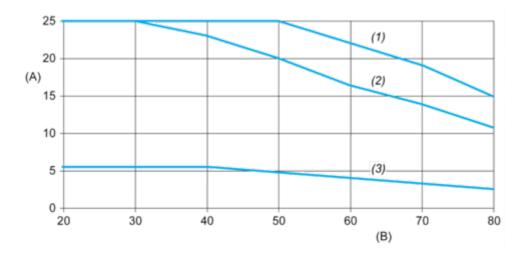
(1) Front view

(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