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

| · · · · · · · · · · · · · · · · · · · | | |
|---------------------------------------|--|--|
| 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

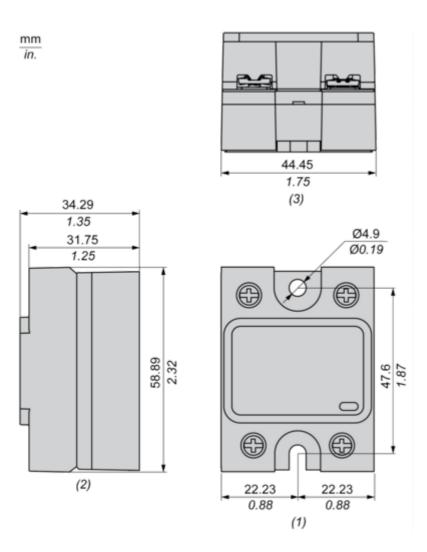
Certifications & Standards

| 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



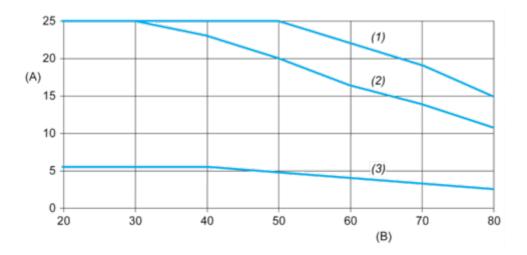
(1) Front view

(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