

Product datasheet

Specifications



Harmony. Solid state relay. 25 A.
panel mount. zero voltage
switching. thermal pad. input 3...32
V DC. output 24...300 V AC

SSP1A125BDT

Price: 1,309.77 ZAR

Main

Range Of Product	Harmony Solid State Relays
Provided Accessory	Thermal pad
Product Or Component Type	Solid state relay up to 30 A
Device Short Name	SSP1
Mounting Support	Panel
Number Of Phases	1 phase
[In] Rated Current	25 A
Solid State Output Type	SCR output Zero voltage switching
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	0.15...25 A
Transient Overvoltage	600 V
Surge Current	250 A for 16.6 ms
Maximum I²T 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) - curve B Type 2 - 20 A miniature circuit breaker (MCB) - curve 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
Dielectric Strength	4 kV AC for input/output 4 kV AC for input or output to case

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Uimp] Rated Impulse Withstand Voltage	6 kV output to case 6 kV input to output
Tightening Torque	1.5...1.7 N.m for input 2...2.2 N.m for output
Connections - Terminals	Screw terminals: 0.2...3.3 mm², (AWG 24...AWG 12) with cable end for input Screw terminals: 0.5...5.26 mm², (AWG 20...AWG 10) with cable end for output Screw terminals: 0.2...3.3 mm², (AWG 24...AWG 12) without cable end for input Screw terminals: 0.5...8.26 mm², (AWG 20...AWG 8) without cable end for output Forked type tag connectors: 9.2 x 4 mm for input Ring lugs: 9.2 x 4 mm for input Forked type tag connectors: 11.7 x 4.5 mm for output Ring lugs: 11.7 x 4.5 mm for output
Thermal Resistance	0.8 °C/W junction to case
Thermal Pad Impedance	0.48 °C-in²/W at 25 psi
Led Indicator	LED, green for input
Ip Degree Of Protection	IP20
Safety Reliability Data	B10d = 1731395 MTTFd = 1875.9 years
Net Weight	89.2 g
Device Presentation	Complete product

Environment

Ambient Air Temperature For Operation	-40...80 °C
Ambient Air Temperature For Storage	-40...125 °C
Pollution Degree	2
Overvoltage Category	III
Product Certifications	EAC CE UL CSA
Marking	UL CE CSA EAC
Standards	UL 508 IEC 60950-1 IEC 62314 CSA C22.2 No 14-13

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.800 cm
Package 1 Width	4.800 cm
Package 1 Length	6.500 cm
Package 1 Weight	97.000 g
Unit Type Of Package 2	S01
Number Of Units In Package 2	30
Package 2 Height	15.000 cm
Package 2 Width	15.000 cm

Package 2 Length	40.000 cm
Package 2 Weight	3.300 kg

Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class 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 >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓

Mercury Free

✓

Rohs Exemption Information

Yes

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](#)

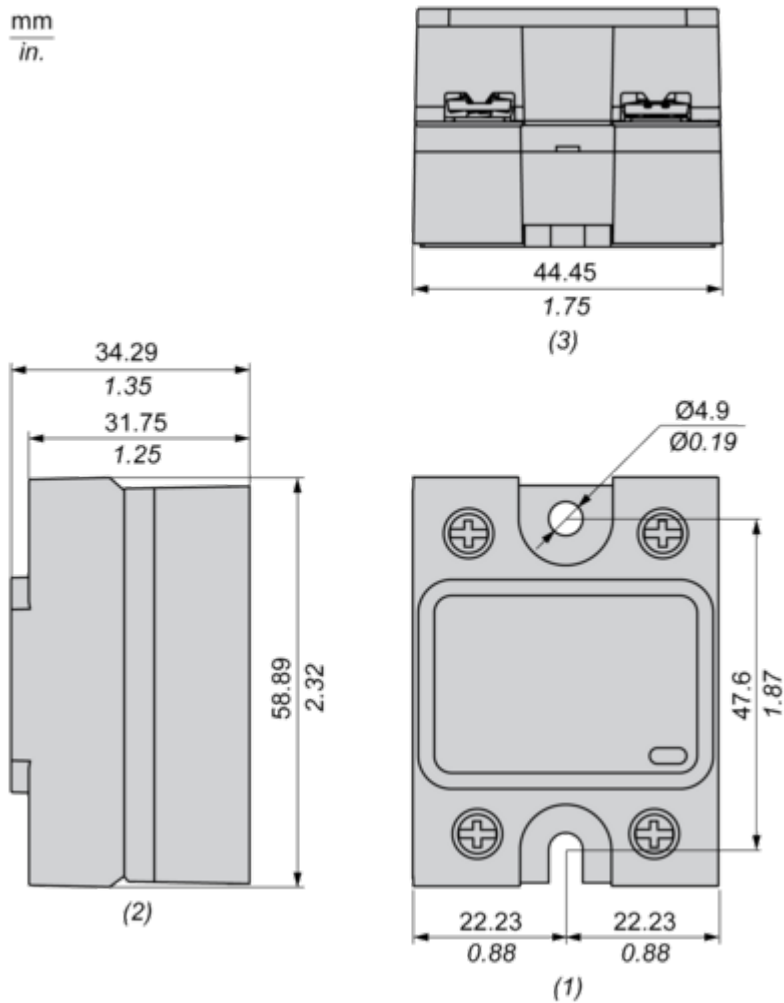
Environmental Disclosure

[Product Environmental Profile](#)

Circularity Profile

[End of Life Information](#)

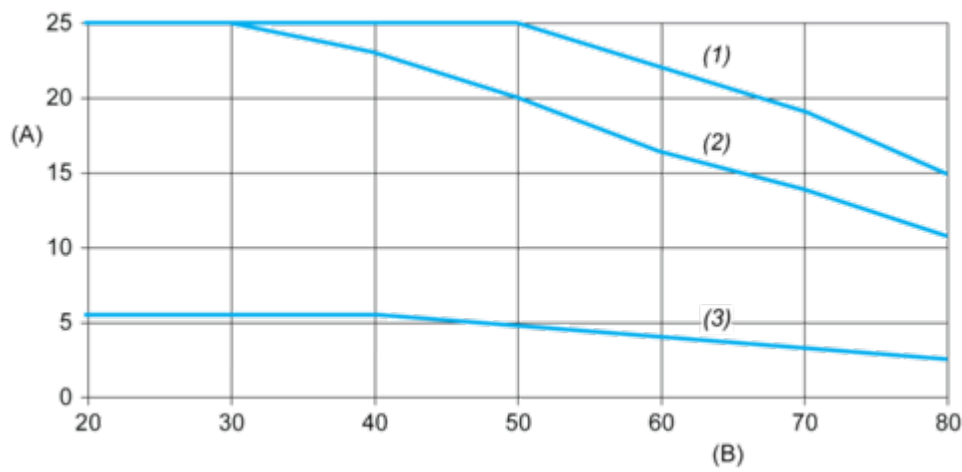
Dimensions

$$\frac{\text{mm}}{\text{in.}}$$


- (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