

Product data sheet

Specifications



single phase relay, Harmony Solid State Relays, 25A, DIN rail mount, zero voltage switching, input 90 to 280V AC, output 24 to 300V AC

SSP1A125M7

Product availability: Stock - Normally stocked in distribution facility

Price*: 21.84 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	SCR output Zero voltage switching
Output Switching Mode	Zero voltage switching

Complementary

Minimum Switching Voltage	90 V AC turn-on
Maximum Switching Voltage	10 V AC turn-off
Response Time	30 ms (turn-off) 25 ms (turn-on)
Input Current	5...10 mA
Load Current	0.15...25 A
Transient Overvoltage	600 V
Surge Current	250 A 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) 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	8 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.

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

Dielectric Strength	4 kV AC for input/output 4 kV AC for input or output to case
[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 input Screw terminals 0.5...5.26 mm², AWG 20...AWG 10) with cable end output Screw terminals 0.2...3.3 mm², AWG 24...AWG 12) without cable end input Screw terminals 0.5...8.26 mm², AWG 20...AWG 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	B10d = 1731395 MTTFd = 1875.9 years
Net Weight	3.15 oz (89.2 g)
Device Presentation	Complete product

Environment

Ambient Air Temperature For Operation	-40...176 °F (-40...80 °C)
Ambient Air Temperature For Storage	-40...257 °F (-40...125 °C)
Pollution Degree	2
Overvoltage Category	III
Product Certifications	CE CSA UL EAC
Marking	CE EAC CSA UL
Standards	IEC 62314 UL 508 IEC 60950-1 CSA C22.2 No 14-13

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
Gtin	3606485441931
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 (3.8 cm)

Package 1 Width	1.89 in (4.8 cm)
Package 1 Length	2.64 in (6.7 cm)
Package 1 Weight	3.46 oz (98.0 g)
Unit Type Of Package 2	S01
Number Of Units In Package 2	30
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	5.91 in (15.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	7.14 lb(US) (3.24 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](#)

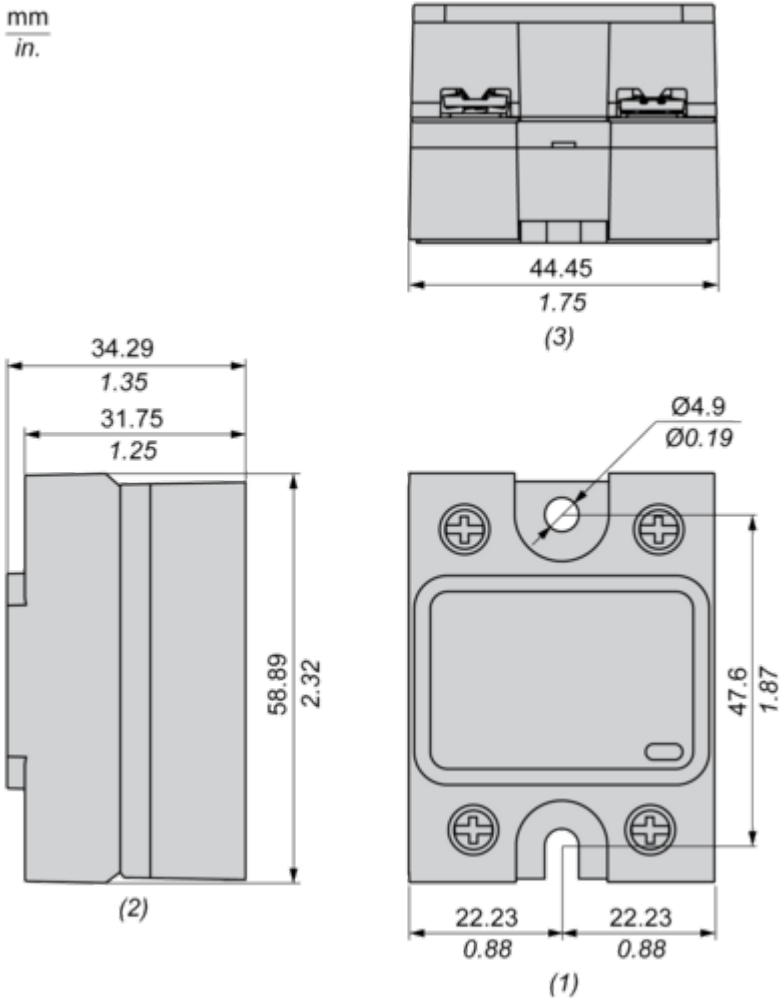
Certifications & Standards

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
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

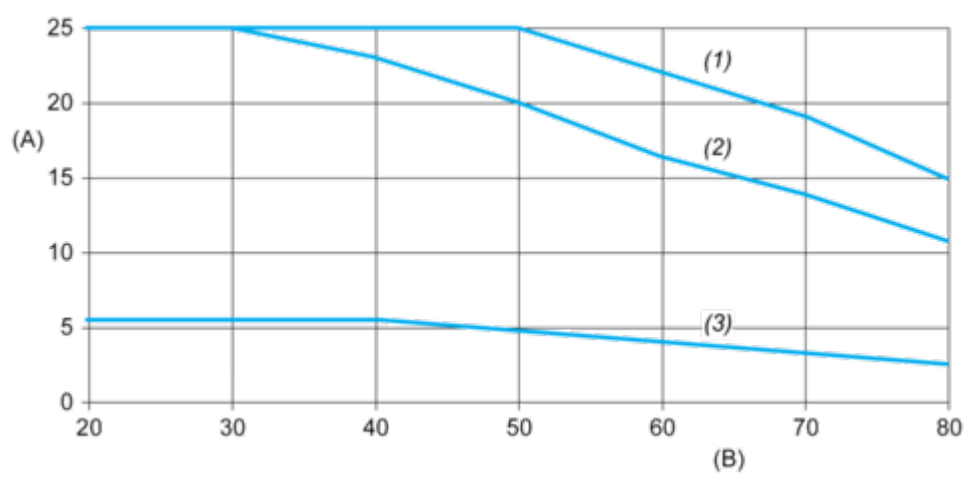
mm
in.



- (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