Product datasheet





solid state relay - panel mounting input 90-280VAC, output 48-660VAC,125A

Local distributor code: 403015087

SSP1A4125M7

! Discontinued on: 15 Jun 2023



EAN Code: 3606485441993

Main

Range of product	Harmony Solid State Relays	
Product or component type	Panel mount relay	
Device short name	SSP1	
Mounting support	Panel	
Number of phases	1 phase	
[In] rated current	125 A	
solid state output type	Zero voltage switching SCR output	
Output switching mode	Zero voltage switching	

Complementary

Complementary	
test button	Without test button
[Uc] control circuit voltage	90280 V AC
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	510 mA
Output voltage	48660 V AC
load current	0.15125 A
Transient overvoltage	1200 V
Surge current	1750 A for 16.6 ms
Maximum I²t for fusing	12709 A².s for 8.33 ms at 60 Hz 13950 A².s for 10 ms at 50 Hz
Co-ordination type	Type 1 - 80 A miniature circuit breaker (MCB) - curve B Type 2 - 63 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	2 hp 120 V AC 5 hp 240 V AC 10 hp 480 V AC

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Insulation resistance	1000 MOhm at 500 V DC	
Maximum capacitance 8 pF for input/output		
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	1.51.7 N.m for input 22.2 N.m for output	
Connections - terminals	Screw terminals: 0.23.3 mm², (AWG 24AWG 12) with cable end for input Screw terminals: 0.55.26 mm², (AWG 20AWG 10) with cable end for output Screw terminals: 0.53.3 mm², (AWG 24AWG 12) without cable end for input Screw terminals: 0.58.26 mm², (AWG 20AWG 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	0.22 °C/W junction to case	
LED indicator	LED, green for input	
IP degree of protection	IP20	
Safety reliability data	MTTFd = 1875.9 years B10d = 1731395	
Net weight	89.2 g	
device presentation	Complete product	

Environment

Ambient air temperature for operation	-4080 °C
ambient air temperature for storage	-40125 °C
Pollution degree	2
Overvoltage category	III
Product certifications	EAC CE CSA UL
Marking	UL CE EAC CSA
Standards	IEC 60950-1 IEC 62314 UL 508 CSA C22.2 No 14-13

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.8 cm
Package 1 Width	4.8 cm
Package 1 Length	6.7 cm
Package 1 Weight	103.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	30

Package 2 Height	15.0 cm	
Package 2 Width	15.0 cm	
Package 2 Length	40.0 cm	
Package 2 Weight	3.382 kg	

Contractual warranty

Warranty 18 months

Sustainability Green 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.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

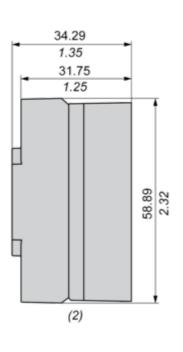
Certifications & Standards

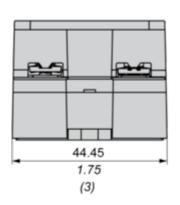
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

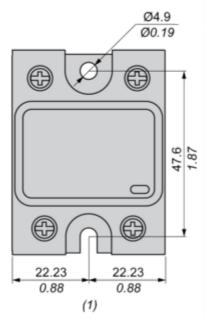
Dimensions Drawings

Dimensions

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



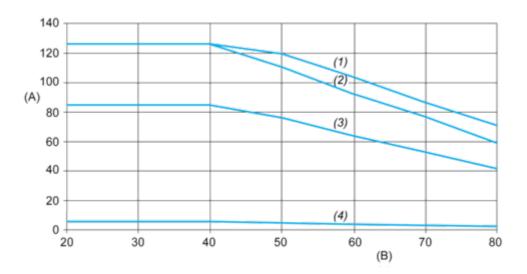




- (1) Front view
- (2) Side view
- (3) Bottom view

Performance Curves

Derating Curves



- A: Load Current (Arms)
- B : Ambient Temperature (°C)
- (1) For Heatsink SSRHP02
- (2) For Heatsink SSRHP05
- (3) For Heatsink SSRHP07
- (4) No Heatsink