# **Product datasheet**

Specification





solid state relay-panel mountthermal pad-input 90-280VAC,output 24-300V AC,10 A

SSP1A110M7T

### Main

Range of product	Harmony Solid State Relays	
Provided accessory	Thermal pad	
Product or component type	Panel mount relay	
Device short name	SSP1	
Mounting support	Panel	
Number of phases	1 phase	
[In] rated current	10 A	
solid state output type	Zero voltage switching SCR output	
Output switching mode	Zero voltage switching	

## Complementary

o impromontary		
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	24300 V AC	
load current	0.1510 A	
Transient overvoltage	600 V	
Surge current	120 A for 16.6 ms	
Maximum I <sup>2</sup> t for fusing	60 A <sup>2</sup> .s for 8.33 ms at 60 Hz 66 A <sup>2</sup> .s for 10 ms at 50 Hz	
Co-ordination type	Type 1 - 13 A miniature circuit breaker (MCB) - curve B Type 2 - 10 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	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: 0.23.3 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	1.03 °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	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 CSA UL CE
Marking	EAC UL CE CSA
Standards	UL 508 IEC 62314 IEC 60950-1 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	6.5 cm
Package 1 Weight	100.0 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	3.267 kg	_

# Sustainability Green Premium\*

**Green Premium**<sup>TM</sup> **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-CO<sub>2</sub> 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

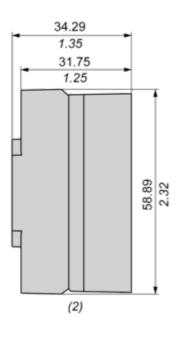
### **Certifications & Standards**

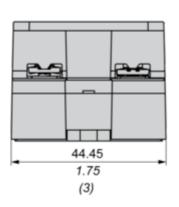
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

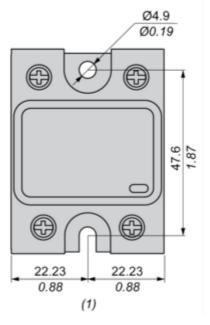
#### **Dimensions Drawings**

#### **Dimensions**

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



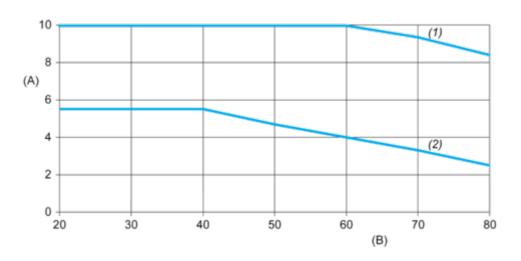




- (1) Front view
- (2) Side view
- (3) Bottom view

#### Performance Curves

### **Derating Curves**



A : Load Current (Arms)
B : Ambient Temperature (°C)
(1) For Heatsink SSRHP25

(2) No Heatsink