## **Product data sheet**

Specification





single phase relay, Harmony Solid State Relays, 75A, panel mount, zero voltage switching, thermal pad, input 90 to 280V AC, output 48 to 660V AC

SSP1A475M7T

Product availability: Stock - Normally stocked in distribution facility

Price\*: 62.54 USD

#### Main

Range of Product	Harmony Solid State Relays	
Provided accessory	Thermal pad	
Product or Component Type	Panel mount relay	
Device short name	SSP1	
Number of phases	1 phase	
Line Rated Current	75 A	
solid state output type	SCR output Zero voltage switching	
Output switching mode	Zero voltage switching	

### 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	0.1575 A	
Transient overvoltage	1200 V	
Surge current	1000 A 16.6 ms	
Maximum I²t for fusing	4150 A².s for 8.33 ms at 60 Hz 4555 A².s for 10 ms at 50 Hz	
Co-ordination type	Type 1 - 50 A miniature circuit breaker (MCB) B Type 2 - 40 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)	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Motor controller rating	1.5 hp 120 V AC
_	3 hp 240 V AC
	7.5 hp 480 V AC
	7.6 HP 166 V 7.6
Insulation resistance	1000 MOhm at 500 V DC
Maximum capacitance	0 nF for inn 4/a day 4
шахинин сараспансе	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	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 mm², AWG 24AWG 12) with cable end input
	Screw terminals 0.55.26 mm², AWG 20AWG 10) with cable end output
	Screw terminals 0.23.3 mm², AWG 24AWG 12) without cable end input
	Screw terminals 0.58.26 mm², AWG 20AWG 8) without cable end unput
	, , , , , , , , , , , , , , , , , , , ,
	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	0.3 °C/W junction to case
thermal pad impedance	0.48 °C-in²/W at 25 psi
LED indicator	LED, green input
IP degree of protection	IP20
Safety reliability data	MTTFd = 1875.9 years
	B10d = 1731395
Net Weight	3.1 oz (89.2 g)
Device presentation	Complete product
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## **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	EAC CE UL CSA	
marking	UL EAC CSA CE	
Standards	UL 508 CSA C22.2 No 14-13 IEC 60950-1 IEC 62314	

# Ordering and shipping details

Category	US10CP222375	
Discount Schedule	0CP2	
GTIN	3606485442167	
Returnability	Yes	
Country of origin	MX	

## **Packing Units**

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	1.6 in (4.0 cm)	
Package 1 Width	1.9 in (4.7 cm)	
Package 1 Length	2.6 in (6.5 cm)	
Package 1 Weight	3.6 oz (101.0 g)	
Unit Type of Package 2	S01	
Number of Units in Package 2	30	
Package 2 Height	5.9 in (15.0 cm)	
Package 2 Width	5.9 in (15.0 cm)	
Package 2 Length	15.7 in (40.0 cm)	
Package 2 Weight	7.445 lb(US) (3.377 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

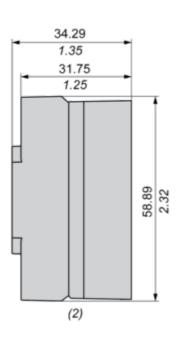
### **Certifications & Standards**

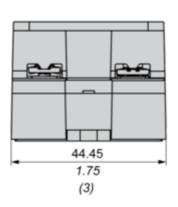
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California Proposition 65	"WARNING: This product 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"

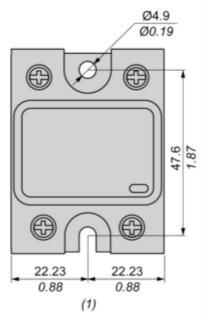
### **Dimensions Drawings**

#### **Dimensions**

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



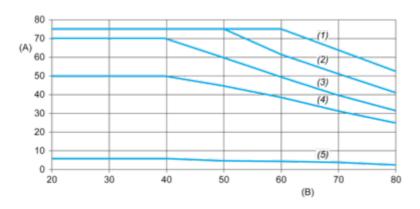




- (1) Front view
- (2) Side view
- (3) Bottom view

#### 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) For Heatsink SSRHD10
- (5) No Heatsink