

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

SSP1A490M7T

Product availability: Stock - Normally stocked in distribution facility

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	90 A	
Solid state output type	Zero voltage switching SCR output	
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	0.1590 A	
Transient overvoltage	1200 V	
Surge current	1200 A 16.6 ms	
Maximum I²t for fusing	5976 A².s for 8.33 ms at 60 Hz 6560 A².s for 10 ms at 50 Hz	
Co-ordination type	Type 1 - 63 A miniature circuit breaker (MCB) B Type 2 - 50 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	
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 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 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	0.27 °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	B10d = 1731395 MTTFd = 1875.9 years	
Net Weight	3.1 oz (89.2 g)	
Device presentation	Complete product	

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 CSA UL CE	
Marking	UL CSA EAC CE	
Standards	IEC 62314 UL 508 CSA C22.2 No 14-13 IEC 60950-1	

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3606485442174
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 (3.800 cm)	
Package 1 Width	1.89 in (4.800 cm)	
Package 1 Length	2.56 in (6.500 cm)	
Package 1 Weight	3.594 oz (101.900 g)	
Unit Type of Package 2	S01	
Number of Units in Package 2	30	
Package 2 Height	5.91 in (15.000 cm)	
Package 2 Width	5.91 in (15.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	7.399 lb(US) (3.356 kg)	



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∇ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	9597
Environmental Disclosure	Product Environmental Profile

Use Better

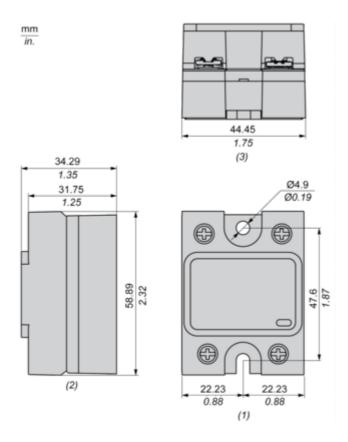
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	134201bc-d293-4667-9cca-10a7f11729e0
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose 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

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

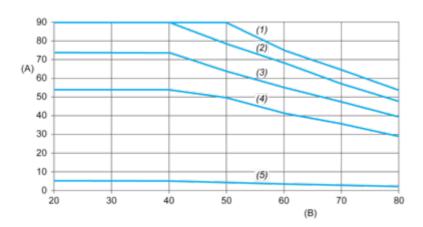
Dimensions



- (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

Technical Illustration

Dimensions

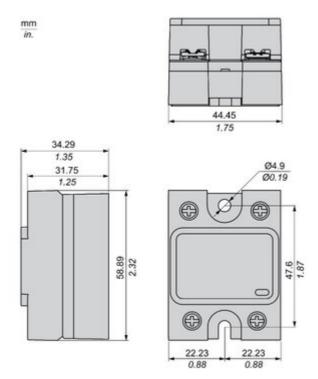
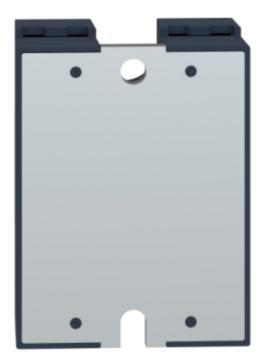


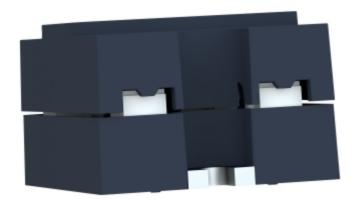
Image of product / Alternate images

Alternative











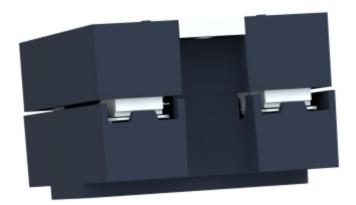


Image of product in real life situation

