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	Solid state relay up to 75 A	
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

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
Load Current	0.1575 A
Transient Overvoltage	1200 V
Surge Current	1000 A 16.6 ms
Maximum I ² T For Fusing	4150 A ² .s for 8.33 ms at 60 Hz 4555 A ² .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)
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

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

Maximum Capacitance	0 oF for insultants	
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 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	0.3 °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	3.15 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 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	1.57 in (4.0 cm)
Package 1 Width	1.85 in (4.7 cm)
Package 1 Length	2.56 in (6.5 cm)
Package 1 Weight	3.56 oz (101.0 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	7.45 lb(US) (3.377 kg)

Sustainability Screen 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

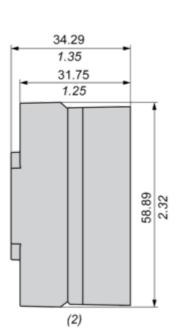
Certifications & Standards

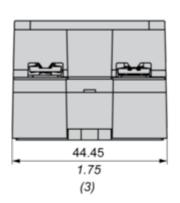
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product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

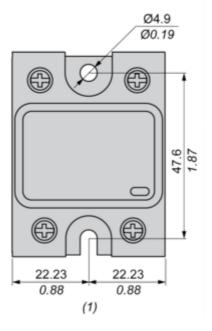
Dimensions Drawings

Dimensions

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



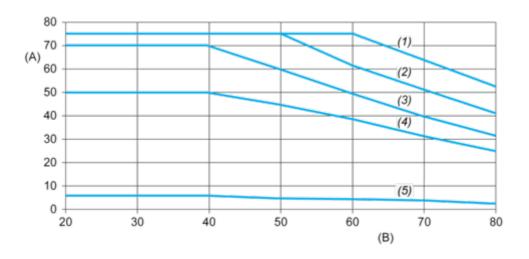




- (1) Front view
- (2) Side view
- (3) Bottom view

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