

Product data sheet

Characteristics

SSP1A490M7T

Solid state panel mount relay, 90 A, zero voltage switching, thermal pad, input 90...280 V AC, output 48...660 V AC

Product availability : Stock - Normally stocked in distribution facility

Price* : 84.29 USD



Main

Range of product	Harmony Relay
Product or component type	Solid state relay
Provided accessory	Thermal pad
Device short name	SSP1
Number of phases	1 phase
Contacts type and configuration	1 NO
Line Rated Current	90 A
Solid state output type	Zero voltage switching SCR output

Complementary

[Uc] control circuit voltage	90...280 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	5...10 mA
Output voltage	48...660 V
Load current	0.15...90 A
Transient overvoltage	1200 V
Surge current	1200 A 16.6 ms
Maximum I ² t for fusing	5976 A ² .s 8.33 ms 60 Hz 6560 A ² .s 10 ms 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.

Sep 30, 2020

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Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Motor controller rating	1.5 hp 120 V AC 3 hp 240 V AC 7.5 hp 480 V AC
Insulation resistance	1000 MOhm 500 V DC
Maximum capacitance	8 pF input/output
Dielectric strength	4 kV AC input/output 4 kV AC input or output to case
[Uimp] rated impulse withstand voltage	6 kV output to case 6 kV input to output
Tightening torque	1.5...1.7 N.m input 2...2.2 N.m output
Connections - terminals	Screw terminals 0.2...3.3 mm ² , AWG 24...AWG 12) with cable end input Screw terminals 0.5...5.26 mm ² , AWG 20...AWG 10) with cable end output Screw terminals 0.2...3.3 mm ² , AWG 24...AWG 12) without cable end input Screw terminals 0.5...8.26 mm ² , AWG 20...AWG 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-in ² /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	3.15 oz (89.2 g)
Device presentation	Complete product

Environment

Ambient air temperature for operation	-40...176 °F (-40...80 °C)
Ambient air temperature for storage	-40...257 °F (-40...125 °C)
Pollution degree	2
Overvoltage category	III
Product certifications	RoHS EAC CSA REACH UL CE
Marking	UL CSA EAC CE
Standards	EN/IEC 62314 UL 508 CSA C22.2 No 14-13 EN/IEC 60950-1

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	00785901506423
Nbr. of units in pkg.	1
Package weight(Lbs)	0.22 lb(US) (0.10 kg)
Returnability	Yes
Country of origin	MX

Packing Units

Package 1 Height	0.380 dm
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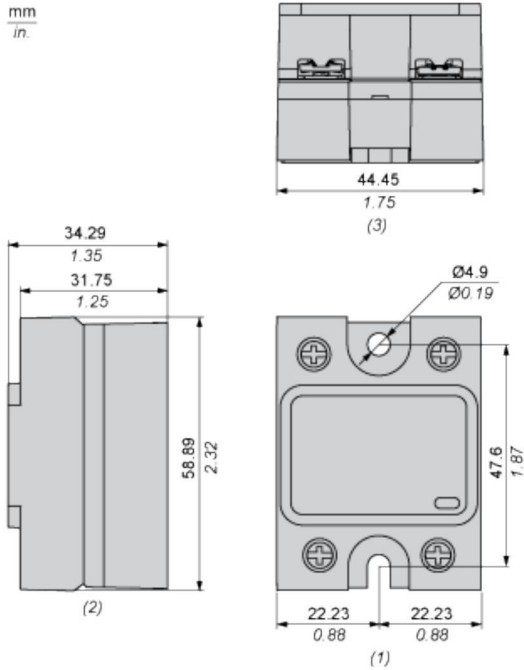
Package 1 width	0.480 dm
Package 1 Length	0.650 dm

Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

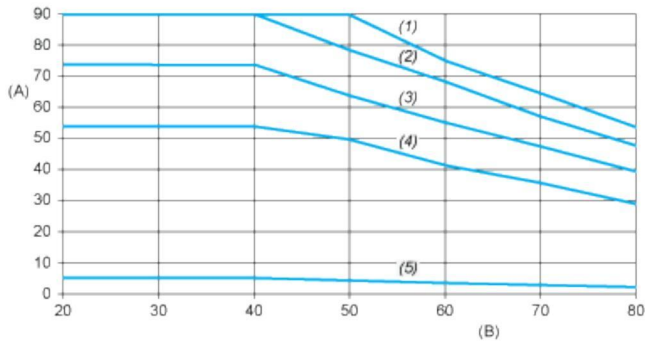
Dimensions

mm
in.



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

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