# SSP1A4125M7T

Harmony, Solid state relay, 125 A, panel mount, zero voltage switching, thermal pad, input 90...280 V AC, output 48...660 V AC





#### Main

Range of Product	Harmony Solid State Relays
Product or Component Type	Solid state relay up to 125 A
Provided accessory	Thermal pad
Device short name	SSP1
Number of phases	1 phase
Line Rated Current	125 A
Solid state output type	SCR output Zero voltage switching
Output switching mode	Zero voltage switching

#### Complementary

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[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	0.15125 A
Transient overvoltage	1200 V
Surge current	1750 A 16.6 ms
Maximum I²t for fusing	12709 A².S for 8.33 ms at 60 Hz 13950 A².s for 10 ms at 50 Hz
Co-ordination type	Type 1 - 80 A miniature circuit breaker (MCB) B Type 2 - 63 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	2 Hp 120 V AC 5 Hp 240 V AC 10 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	0.22 °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	3.15 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	CSA EAC UL CE
Marking	UL CE EAC CSA
Standards	EN/IEC 62314 UL 508 CSA C22.2 No 14-13 EN/IEC 60950-1

### Ordering and shipping details

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Category	22375-INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3606485442181
Nbr. of units in pkg.	1
Package weight(Lbs)	3.59 oz (101.9 g)
Returnability	No
Country of origin	MX

## **Packing Units**

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Unit Type of Package 1	PCE
Package 1 Height	1.50 in (3.8 cm)
Package 1 width	1.89 in (4.8 cm)
Package 1 Length	2.56 in (6.5 cm)
Unit Type of Package 2	S01
Number of Units in Package 2	30
Package 2 Weight	7.42 lb(US) (3.366 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)

# Offer Sustainability

Green Premium product
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
☑ REACh Declaration
Pro-active compliance (Product out of EU RoHS legal scope) EVEN RoHS
Yes

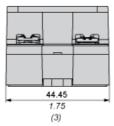
RoHS exemption information	€Yes	
China RoHS Regulation	China RoHS Declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	☑ End Of Life Information	

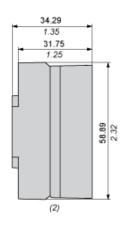
# Product data sheet **Dimensions Drawings**

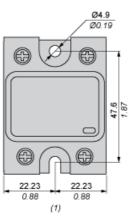
# SSP1A4125M7T

### **Dimensions**





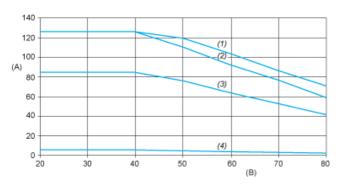




- (1) Front view
- (2) (3) Side view
- Bottom view

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## **Derating Curves**



- A: Load Current (Arms)
- B: Ambient Temperature (°C)
- (1) For Heatsink SSRHP02
- (2) For Heatsink SSRHP05
- (3) For Heatsink SSRHP07(4) No Heatsink