Product data sheet

Specification

Main





solid state relay - panel mounting - input 90-280VAC, output 24-300VAC,10A

SSP1A110M7

! Discontinued on: 4/05/2020

! End-of-service on: 21/10/2020

① Discontinued

Range of product	Harmony Relay	
Product or component type	Solid state relay	
Device short name	SSP1	
mounting support	Panel	
Number of phases	1 phase	
Contacts type and conifguration	1 NO	
[In] rated current	10 A	
solid state output type	SCR output 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	0.1510 A	
Transient overvoltage	600 V	
Surge current	120 A for 16.6 ms	
Maximum I²t for fusing	60 A².s for 8.33 ms at 60 Hz 66 A².s for 10 ms at 50 Hz	
Co-ordination type	Type 1 - 13 A miniature circuit breaker (MCB) - curve B Type 2 - 10 A miniature circuit breaker (MCB) - curve 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	0.5 hp 120 V AC 1 hp 240 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	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 for input Screw terminals: 0.55.26 mm², (AWG 20AWG 10) with cable end for output Screw terminals: 0.23.3 mm², (AWG 24AWG 12) without cable end for input Screw terminals: 0.58.26 mm², (AWG 20AWG 8) without cable end for output Forked type tag connectors: 9.2 x 4 mm for input Ring lugs: 9.2 x 4 mm for input Forked type tag connectors: 11.7 x 4.5 mm for output Ring lugs: 11.7 x 4.5 mm for output	
Thermal resistance	1.03 °C/W junction to case	
LED indicator	LED, green for input	
IP degree of protection	IP20	
Safety reliability data	B10d = 1731395	
	MTTFd = 1875.9 years	
Net weight	89.2 g	
Device presentation	Complete product	
Environment		
Ambient air temperature for operation	-4080 °C	
Ambient air temperature for storage	-40125 °C	
Pollution degree	2	
Overvoltage category	III	

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Ambient air temperature for storage	-40125 °C
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Overvoltage category	III
product certifications	UL CE EAC CSA
marking	CSA EAC UL CE
Standards	EN/IEC 60950-1 UL 508 EN/IEC 62314 CSA C22.2 No 14-13

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1



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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

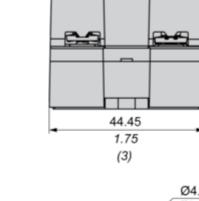
Certifications & Standards

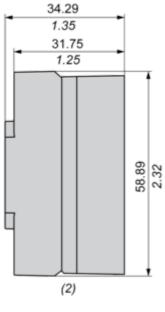
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

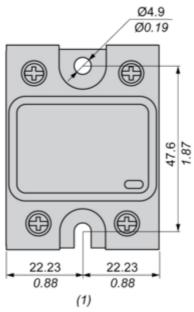
Dimensions Drawings

Dimensions

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



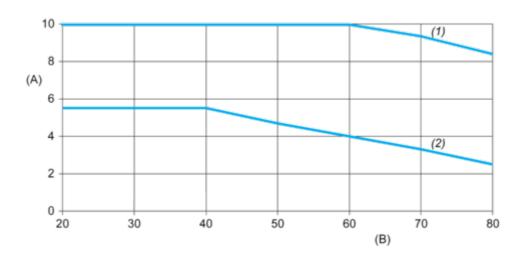




- (1) Front view
- (2) Side view
- (3) Bottom view

Performance Curves

Derating Curves



A : Load Current (Arms)
B : Ambient Temperature (°C)

(1) For Heatsink SSRHP25

(2) No Heatsink