

# Product data sheet

Specifications



single phase relay, Harmony Solid State Relays, 10A, panel mount, zero voltage switching, thermal pad, input 90 to 280V AC, output 24 to 300V AC

SSP1A110M7T

**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
Mounting Support	Panel
Number of phases	1 phase
Line Rated Current	10 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	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	24...300 V AC
Load current	0.15...10 A
Transient overvoltage	600 V
Surge current	120 A 16.6 ms
Maximum I <sup>2</sup> t for fusing	60 A <sup>2</sup> .s for 8.33 ms at 60 Hz 66 A <sup>2</sup> .s for 10 ms at 50 Hz
Co-ordination type	Type 1 - 13 A miniature circuit breaker (MCB) B Type 2 - 10 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.

<b>Motor controller rating</b>	0.5 hp 120 V AC 1 hp 240 V AC
<b>Insulation resistance</b>	1000 MOhm at 500 V DC
<b>Maximum capacitance</b>	8 pF for input/output
<b>Dielectric strength</b>	4 kV AC for input/output 4 kV AC for input or output to case
<b>[Uimp] rated impulse withstand voltage</b>	6 kV output to case 6 kV input to output
<b>Tightening torque</b>	1.5...1.7 N.m for input 2...2.2 N.m for output
<b>Connections - terminals</b>	Screw terminals 0.2...3.3 mm <sup>2</sup> , AWG 24...AWG 12) with cable end input Screw terminals 0.5...5.26 mm <sup>2</sup> , AWG 20...AWG 10) with cable end output Screw terminals 0.2...3.3 mm <sup>2</sup> , AWG 24...AWG 12) without cable end input Screw terminals 0.5...8.26 mm <sup>2</sup> , 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
<b>Thermal resistance</b>	1.03 °C/W junction to case
<b>thermal pad impedance</b>	0.48 °C-in <sup>2</sup> /W at 25 psi
<b>LED indicator</b>	LED, green input
<b>IP degree of protection</b>	IP20
<b>Safety reliability data</b>	MTTFd = 1875.9 years B10d = 1731395
<b>Net Weight</b>	3.1 oz (89.2 g)
<b>Device presentation</b>	Complete product

## Environment

<b>Ambient Air Temperature for Operation</b>	-40...176 °F (-40...80 °C)
<b>Ambient Air Temperature for Storage</b>	-40...257 °F (-40...125 °C)
<b>pollution degree</b>	2
<b>Overvoltage category</b>	III
<b>Product Certifications</b>	EAC CSA UL CE
<b>Marking</b>	EAC UL CE CSA
<b>Standards</b>	UL 508 IEC 62314 IEC 60950-1 CSA C22.2 No 14-13

## Ordering and shipping details

<b>Category</b>	US10CP222375
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3606485442112
<b>Returnability</b>	Yes
<b>Country of origin</b>	US

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	1.50 in (3.8 cm)
<b>Package 1 Width</b>	1.89 in (4.8 cm)
<b>Package 1 Length</b>	2.56 in (6.5 cm)
<b>Package 1 Weight</b>	3.5 oz (100.0 g)
<b>Unit Type of Package 2</b>	S01
<b>Number of Units in Package 2</b>	30
<b>Package 2 Height</b>	5.91 in (15.0 cm)
<b>Package 2 Width</b>	5.91 in (15.0 cm)
<b>Package 2 Length</b>	15.75 in (40.0 cm)
<b>Package 2 Weight</b>	7.203 lb(US) (3.267 kg)

## Environmental Data

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) 1261

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

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](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

Circularity Profile [End of Life Information](#)

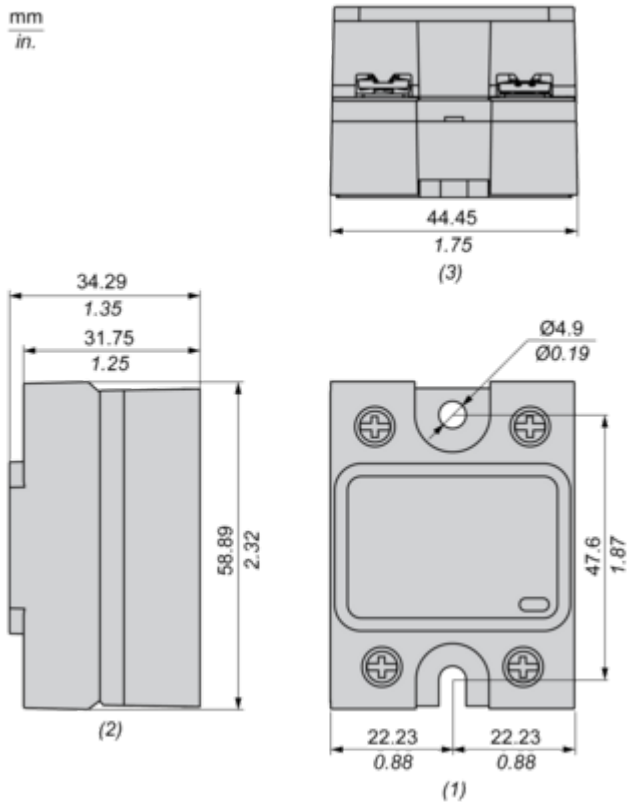
Take-back No

Dimensions Drawings

Dimensions

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mm  
in.

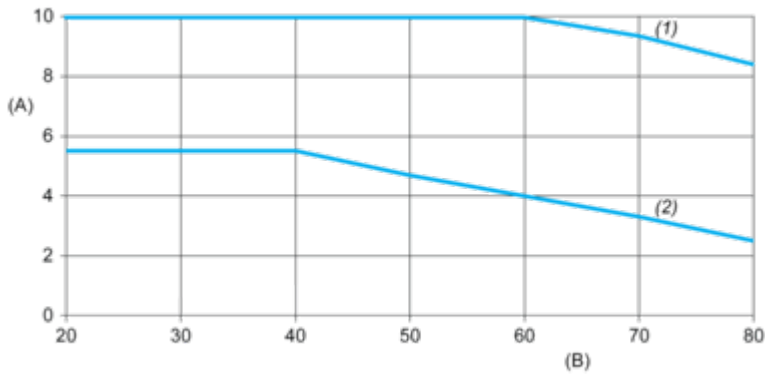


- (1) Front view
- (2) Side view
- (3) Bottom view

Performance Curves

Derating Curves

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- A : Load Current (Arms)
- B : Ambient Temperature (°C)
- (1) For Heatsink SSRHP25
- (2) No Heatsink

Technical Illustration

Dimensions

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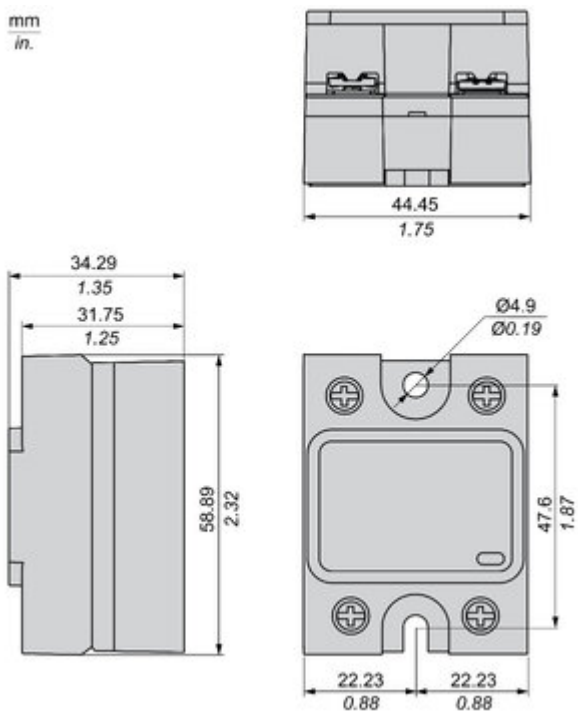
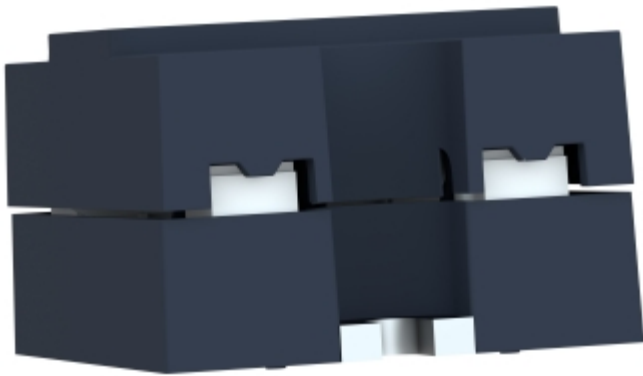


Image of product / Alternate images

Alternative

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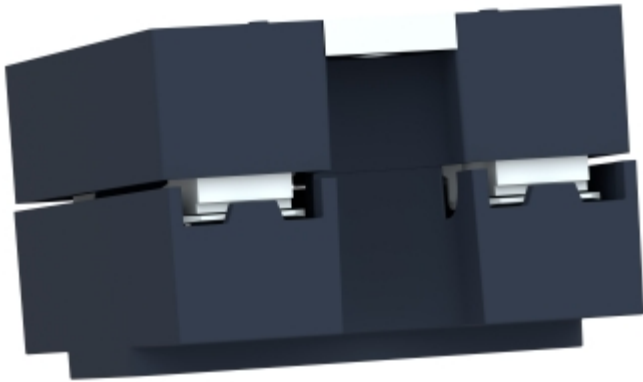


Image of product in real life situation

