

Product data sheet

Specifications



single phase relay, Harmony Solid State Modular Relays, 12A, DIN rail mount, zero voltage switching, input 200 to 265V AC, output 24 to 280V AC

SSM1A112P7

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony Solid State Relays
Device short name	SSM
Product or Component Type	Modular DIN rail relay
Number of channels	1
Number of phases	1 phase
Output switching mode	Zero voltage switching

Complementary

Product configuration type	Relay configuration
Mounting Support	Symmetrical DIN rail
Line Rated Current	12 A
Output voltage	24...280 V AC
[Uc] control circuit voltage	200...265 V AC
Tightening torque	0.5...0.8 N.m for input 0.5...0.8 N.m for output
Connections - terminals	Screw terminals 1 x 0.3...1 x 1.5 mm², 22 AWG...16 AWG) input Screw terminals 1 x 0.3...1 x 2.5 mm², 22 AWG...14 AWG) output
maximum capacitance	10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED (green) for input status
pick-up voltage	200 V AC turn-on
drop-out voltage	90 V AC turn-off
input current	2.5...3.5 mA
Solid state output type	SCR output Zero voltage switching
Load current	0.15...12 A
transient overvoltage	600 V
Surge current	715 A 16.6 ms 750 A 20 ms
Maximum voltage drop	<1.3 V on-state
Maximum Horse Power Rating	0.33 hp 104 °F (40 °C) 240 V AC

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

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

Maximum I ² t for fusing	2560 A ² .s for 10 ms at 50 Hz 2330 A ² .s for 8.33 ms at 60 Hz
Maximum leakage current	0.1 mA off-state
DV/dt	500 V/μs off-state at maximum voltage
Response time	0.5 cycle (turn-on) 30 ms (turn-off)
power factor	0.5 (with maximum load)
Overvoltage category	III
Width	0.7 in (18.5 mm)
Height	3.4 in (87.5 mm)
test button	Without test button
Depth	3.3 in (83.5 mm)
Net Weight	0.165 lb(US) (0.075 kg)
Device presentation	Complete product
[UI] Rated Insulation Voltage	280 V

Environment

Flame retardance	V0 conforming to UL 94
Dielectric strength	4 kV AC for input/output 4 kV AC for input or output to case
Pollution degree	2
Standards	IEC 60950-1 IEC 61000 IEC 62314
Product Certifications	CSA UL
Marking	CE
IP degree of protection	IP20
Ambient Air Temperature for Operation	-22...176 °F (-30...80 °C)
Ambient Air Temperature for Storage	-22...212 °F (-30...100 °C)

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3606480579509
Returnability	Yes
Country of origin	MX

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.0 in (2.5 cm)
Package 1 Width	3.5 in (9.0 cm)
Package 1 Length	3.7 in (9.5 cm)

Package weight(Lbs)	3.2 oz (92.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	72
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	15.424 lb(US) (6.996 kg)

Contractual warranty

Warranty (in months)	18
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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	
Total lifecycle Carbon footprint	4 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.5 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	3 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.

Use Better

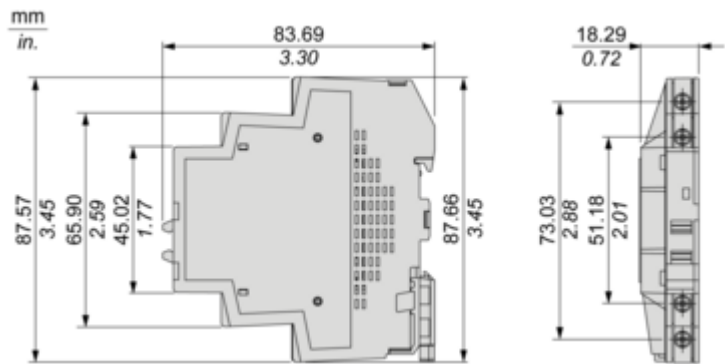
 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	134201bc-d293-4667-9cca-10a7f11729e0
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 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

Use Again

 Repack and remanufacture	
Recyclability potential, in %	94
Take-back	No

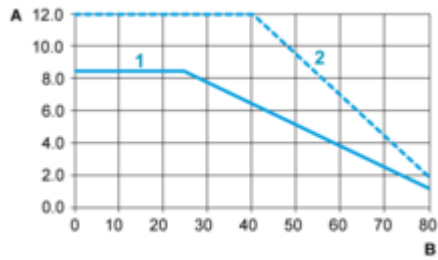
Dimensions Drawings

Dimensions



Performance Curves

Derating Curves



- A** : Load Current (Amperes)
B : Ambient Temperature (°C)
1 : Multiple units, no minimum spacing between components
2 : Installed single unit, distance to adjacent components more than 18 mm

Image of product / Alternate images

Alternative

