Product data sheet

Specifications





single phase relay, Harmony Solid State Modular Relayss, 12A, DIN rail mount, zero voltage switching, input 90 to 140V AC, output 24 to 280V AC

SSM1A112F7

① To be discontinued

! To be discontinued on: Aug 15, 2024

Product availability: Stock - Normally stocked in distribution facility

Price*: 38.50 USD

Main

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

Complementary

Mounting Support	Symmetrical DIN rail
Line Rated Current	12 A
Output voltage	24280 V AC
Tightening torque	0.50.8 N.m for input 0.50.8 N.m for output
Connections - terminals	Screw terminals 1 x 0.31 x 1.5 mm², AWG 22AWG 16) input Screw terminals 1 x 0.31 x 2.5 mm², AWG 22AWG 14) output
maximum capacitance	10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	for input status LED (green)
Minimum switching voltage	90 V AC turn-on
Maximum switching voltage	10 V AC turn-off
solid state output type	SCR output Zero voltage switching
load current	0.1512 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.

Maximum I ² t for fusing	2560 A².s for 10 ms at 50 Hz 2330 A².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 mm)	
Height	3.6 in (90.3 mm)	
test button	Without test button	
Depth	3.3 in (83.7 mm)	
Net Weight	0.20 lb(US) (0.09 kg)	

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 61000 IEC 60950-1 IEC 62314
Product Certifications	UL CSA
marking	CE
IP degree of protection	IP20
Ambient Air Temperature for Operation	-22176 °F (-3080 °C)
Ambient Air Temperature for Storage	-22212 °F (-30100 °C)

Ordering and shipping details

Category	US10CP222375	
Discount Schedule	0CP2	
GTIN	3606480579493	
Returnability	Yes	
Country of origin	US	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	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 1 Weight	3.5 oz (98.0 g)
Unit Type of Package 2	S02

Number of Units in Package 2	72
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	17.024 lb(US) (7.722 kg)

Sustainability Green Premium*

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

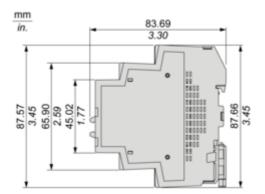
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product 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

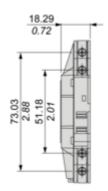
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Dimensions Drawings

Dimensions



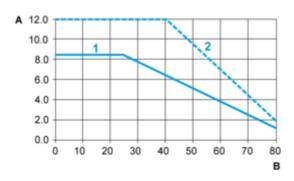


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Performance Curves

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