# Product data sheet

Specifications





single phase relay, Harmony Solid State Modular Relays, 6A, DIN rail mount, zero voltage switching, input 90 to 140V AC, output 24 to 280V AC

SSM1A16F7

Product availability: Stock - Normally stocked in distribution facility

### Price\*: 30.50 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

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Mounting Support	Symmetrical DIN rail	
Line Rated Current	6 A	
Output voltage	24280 V AC	
[Uc] control circuit voltage	90140 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 mm <sup>2</sup> , AWG 22AWG 16) input Screw terminals 1 x 0.31 x 2.5 mm <sup>2</sup> , 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	
input current	35 mA	
solid state output type	Zero voltage switching SCR output	
load current	0.156 A	
transient overvoltage	600 V	
Surge current	285 A 16.6 ms 300 A 20 ms	
Maximum voltage drop	<1.3 V on-state	
Maximum Horse Power Rating	0.16 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 <sup>2</sup> t for fusing	410 A <sup>2</sup> .s for 10 ms at 50 Hz 375 A <sup>2</sup> .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	0.4 in (11 mm)	
Height	3.6 in (90.3 mm)	
test button	Without test button	
Depth	3.3 in (83.7 mm)	
Net Weight	0.11 lb(US) (0.05 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 62314 IEC 60950-1	
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	3606480579370	
Returnability	Yes	
Country of origin	US	

## **Packing Units**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.4 in (1.0 cm)
Package 1 Width	3.5 in (9.0 cm)
Package 1 Length	3.7 in (9.3 cm)
Package 1 Weight	2.6 oz (74.0 g)
Unit Type of Package 2	S02

Number of Units in Package 2	96
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	16.526 lb(US) (7.496 kg)

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

Reach Free Of Svhc
Mercury Free
Rohs Exemption Information Yes

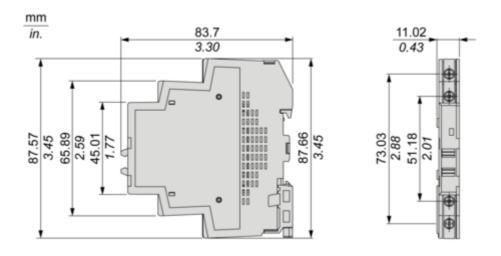
### **Certifications & Standards**

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

## Product data sheet

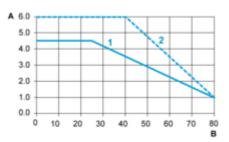
**Dimensions Drawings** 

#### Dimensions



#### Performance Curves

#### **Derating Curves**



A : Load Current (Amperes)

B : Ambient Temperature (°C)

1 : Multiple units, no minimum spacing between components

 ${\bf 2}$  : Installed single unit, distance to adjacent components more than 11 mm