## Product data sheet Characteristics

### SSM1A112F7

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





### Main

TVI CALL	
Range of product	Harmony Solid State Relays
Product or component type	Solid state relay up to 20 A
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
[In] 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 mm $^2$ , (AWG 22AWG 16) for input Screw terminals: 1 x 0.31 x 2.5 mm $^2$ , (AWG 22AWG 14) for output
Maximum capacitance	10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED (green) for input status
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 for 16.6 ms
-	750 A for 20 ms
Maximum voltage drop	<1.3 V on-state
Motor power hp	0.33 hp 40 °C 240 V AC
Maximum I <sup>2</sup> t for fusing	2560 A <sup>2</sup> .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	18 mm
Height	90.3 mm
Depth	83.7 mm
Net weight	0.09 kg

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

### 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[RETURN]CSA
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-3080 °C
Ambient air temperature for storage	-30100 °C

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.5 cm
Package 1 Width	9.0 cm
Package 1 Length	9.5 cm
Package 1 Weight	98.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	72
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.722 kg

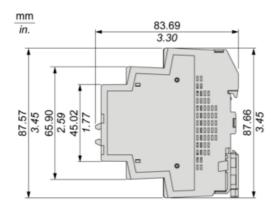
### Offer Sustainability

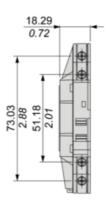
Sustainable offer status	Green Premium product
REACh Regulation	<sup>™</sup> REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	<sup>☑</sup> China RoHS Declaration
RoHS exemption information	₽¥Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

# Product data sheet Dimensions Drawings

## SSM1A112F7

### **Dimensions**

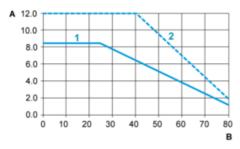




## Product data sheet Performance Curves

### SSM1A112F7

### **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 18 mm