

Product data sheet Characteristics

SSM1A112P7

Harmony Solid State Relays, Solid state modular relay, 12A, DIN rail mount, zero voltage switching, input 200...265V AC, output 24...280V AC





Main

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

Complementary	
Mounting support	Symmetrical DIN rail
[In] rated current	12 A
Output voltage	24280 V AC
[Uc] control circuit voltage	200265 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) for input Screw terminals: 1 x 0.31 x 2.5 mm², (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	200 V AC turn-on
Maximum switching voltage	90 V AC turn-off
Input current	2.53.5 mA
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 I²t 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	18 mm

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 intended as a substitute for and is not to be used for determining suitability or infability of these products for specific user applications. It is the doubt of any substitute for and is not to be used for determining suitability or infability of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or substitaires shall be responsible or liable for misuse of the information contained herein.

Height	90.3 mm
Depth	83.7 mm
Net weight	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 60950-1 IEC 61000 IEC 62314	
Product certifications	CSA UL	
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	92.0 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	6.996 kg

Offer Sustainability

2

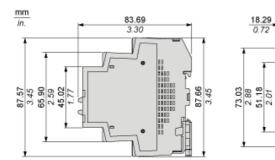
Sustainable offer status	Green Premium product
REACh Regulation	[™] REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₽¥Yes
Environmental Disclosure	Product Environmental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

Life Is On

Product data sheet Dimensions Drawings

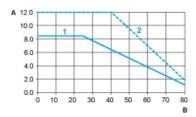
SSM1A112P7

Dimensions



SSM1A112P7 Product data sheet **Performance Curves**

Derating Curves



A: Load Current (Amperes) Ambient Temperature (°C)

1: Multiple units, no minimum spacing between components

Installed single unit, distance to adjacent components more than 18 mm