Product data sheet Characteristics

SSM1A112P7

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





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

o o p . o o		
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: $1 \times 0.31 \times 1.5$ mm², (AWG 22AWG 16) for input Screw terminals: $1 \times 0.31 \times 2.5$ 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	
Height	90.3 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 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.

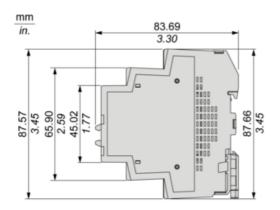
Depth	83.7 mm
Net weight	0.09 kg
Environment	
Flame retardance	V0 conforming to UL 94
Dielectric strength	4 KV AC for input/output 4 kV AC for input or output to case
Pollution degree	2
Standards	IEC 60950-1 IEC 61000 IEC 62314
Product certifications	CSA[RETURN]UL
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-3080 °C
Ambient air temperature for storage	-30100 °C
Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width Package 1 Length Package 1 Weight	PCE 1 2.5 cm 9.0 cm 9.5 cm 92.0 g
	72
<u> </u>	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.996 kg
Unit Type of Package 2 Number of Units in Package 2 Package 2 Height Package 2 Width Package 2 Length Package 2 Weight	15.0 cm 30.0 cm 40.0 cm
Offer Sustainability	
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	வ ி.

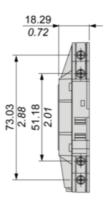
Green Premium product	
☑ REACh Declaration	
Pro-active compliance (Product out of EU RoHS legal scope)	
Yes	
China RoHS Declaration	
€Yes	
Product Environmental Profile	
☐ End Of Life Information	
WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to 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

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Dimensions

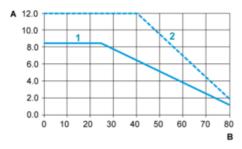




Product data sheet Performance Curves

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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