

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

SSM1A112P7

Main

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

Complementary

oompromentary		
Product configuration type	Relay configuration	
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	age 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 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	18 mm	
Height	90.3 mm	
test button	Without test button	
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



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental Disclosure

Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	134201bc-d293-4667-9cca-10a7f11729e0

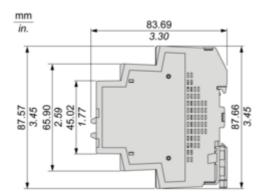
Use Again

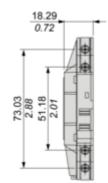
v	○ Repack and remanufacture	
	End of life manual availability	End of Life Information
	Take-back	No

SSM1A112P7

Dimensions Drawings

Dimensions

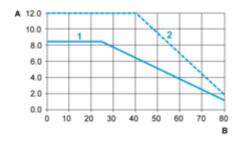




SSM1A112P7

Performance Curves

Derating Curves

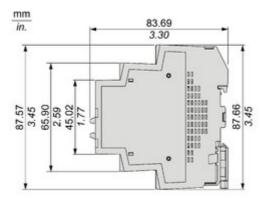


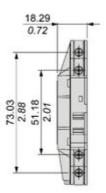
- A: Load Current (Amperes)
- B: Ambient Temperature (°C)
- 1 : Multiple units, no minimum spacing between components
- 2: Installed single unit, distance to adjacent components more than 18 mm

SSM1A112P7

Technical Illustration

Dimensions





SSM1A112P7

Image of product / Alternate images

Alternative







Image of product in real life situation

