SSM1A112P7R

solid state relay - DIN rail mount - input 200-265 V AC, output 24-280 V AC ,12A

Green Premium™ Product

Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Device short name	SSM
Number of channels	1
Network number of phases	1 phase

Complementary

Mounting support	Symmetrical DIN rail
[In] rated current	12 A
Output voltage	24...280 V AC
Control circuit voltage	200...265 V AC
Contacts type and composition	1 NO
Tightening torque	0.5...0.8 N.m for input 0.5...0.8 N.m for output
Connections - terminals	Screw terminals : 1 x 0.3...1 x 1.5 mm², (AWG 22...AWG 16) for input Screw terminals : 1 x 0.3...1 x 2.5 mm², (AWG 22...AWG 14) for output
Capacitance unbalance	<= 10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED green for input status
Switching voltage	>= 200 V AC turn-on <= 90 V AC turn-off
Input current limits	2.5...3.5 mA
Solid state output type	SCR output Random voltage switching
Load current	0.00015...12 A
Absolute maximum voltage	600 V
Surge current	<= 715 A for 16.6 ms <= 750 A for 20 ms
Voltage drop	<= 1.3 V on-state
Motor power hp	0.33 hp at 40 °C 240 V AC
Maximum I²t for fusing	2560 A².s for 10 ms at 50 Hz half cycle 2330 A².s for 8.33 ms at 60 Hz half cycle
Leakage current	<= 0.1 mA off-state
DV/dt	500 V/µs off-state at maximum voltage
Response time	30 ms turn-off 20 ms turn-on
Cos phi	>= 0.5 with maximum load
Overvoltage category	III
Width	18 mm
Height	90.3 mm
Depth	83.7 mm
Product weight	0.09 kg

Environment

Schneider Electric

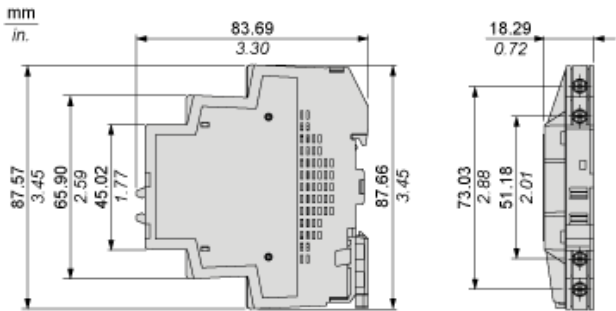| flame retardance	Conforming to UL 94
dielectric strength	4 kV AC for input/output 4 kV AC for input or output to case
pollution degree	2
standards	IEC 61000 IEC 60950-1 IEC 62314
product certifications	CSA UL REACH
marking	CE
IP degree of protection	IP20
ambient air temperature for operation	-30...80 °C
ambient air temperature for storage	-30...100 °C

Offer Sustainability

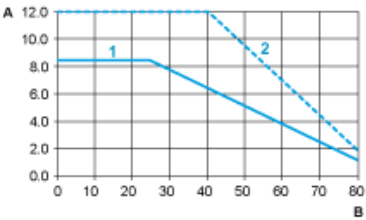| Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1328 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months

Dimensions

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