

SSM1A312B7

solid state relay - DIN rail mount - input 18-36 V AC,
output 48-600 V AC ,12A



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	48...600 V AC
[Uc] control circuit voltage	18...36 V AC
Contacts type and composition	1 NO
Tightening torque	Input : 0.5...0.8 N.m Output : 0.5...0.8 N.m
Connections - terminals	Screw terminals : 1 x 0.3...1 x 1.5 mm ² , (AWG 22...AWG 16) for input Screw terminals : 1 x 0.3...1 x 2.5 mm ² , (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
Minimum switching voltage	18 V AC turn-on
Maximum switching voltage	4 V AC turn-off
Input current limits	3.5...8.5 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.00015...12 A
Absolute maximum voltage	1200 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 I ² t for fusing	2560 A ² .s for 10 ms at 50 Hz half cycle 2330 A ² .s for 8.33 ms at 60 Hz half cycle
Leakage current	<= 0.2 mA off-state
DV/dt	500 V/μs off-state at maximum voltage
Response time	0.5 cycle turn-on 30 ms turn-off
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

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or 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.

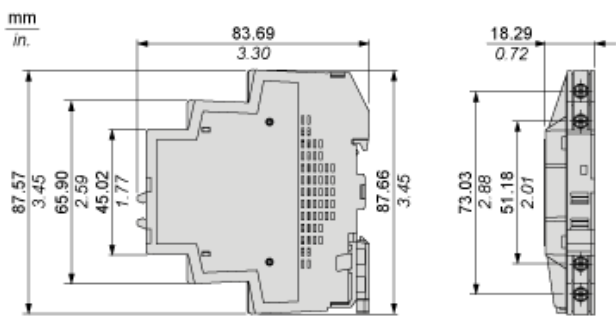
Environment

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	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

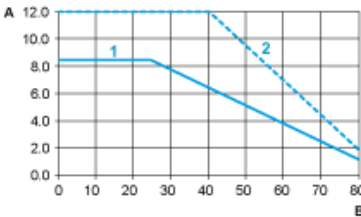
Offer Sustainability

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

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