



Main

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

Complementary

Mounting support	Symmetrical DIN rail
Line Rated Current	12 A
Output voltage	24...280 V AC
[Uc] control circuit voltage	200...265 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) input Screw terminals : 1 x 0.3...1 x 2.5 mm ² , (AWG 22...AWG 14) output
Capacitance unbalance	<= 10 pF input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED green input status
Minimum switching voltage	200 V AC turn-on
Maximum switching voltage	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 16.6 ms <= 750 A 20 ms
Voltage drop	<= 1.3 V on-state
Motor power hp	0.33 hp at 104 °F (40 °C) 240 V AC
Maximum I ² t for fusing	2560 A ² .s 10 ms at 50 Hz half cycle 2330 A ² .s 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	0.71 in (18 mm)
Height	90.3 mm
Depth	83.7 mm
Product weight	0.2 lb(US) (0.09 kg)

Environment

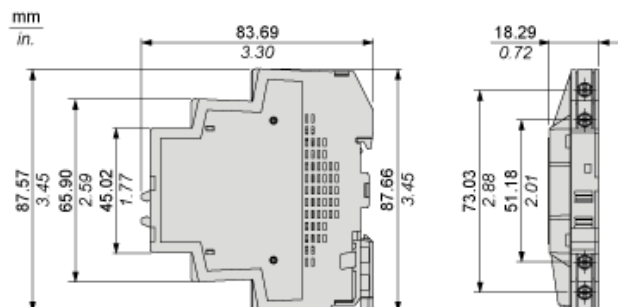
The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the Schneider Electric group. It is not intended to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any 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.

flame retardance	V0 conforming to UL 94
dielectric strength	4 kV AC input/output 4 kV AC 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	-22...176 °F (-30...80 °C)
ambient air temperature for storage	-22...212 °F (-30...100 °C)

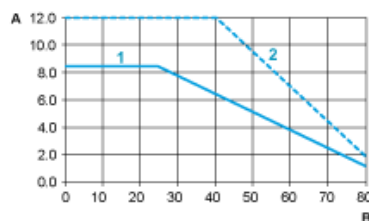
Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1328 - Schneider Electric declaration of conformity	Compliant - since 1328 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	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.	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	For more information go to www.p65warnings.ca.gov

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Schneider Electric:](#)

[SSM1A112P7R](#)