

SSM1A312P7R

solid state relay - rail mounting - input 200-265 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

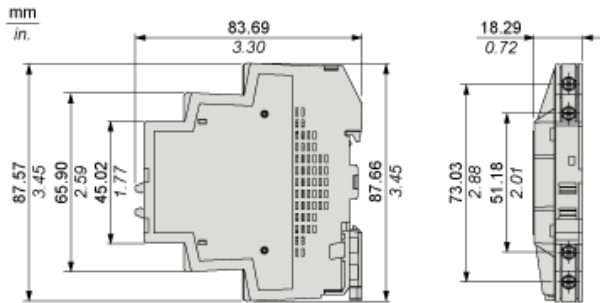
Mounting support	Symmetrical DIN rail
[In] rated current	12 A
Output voltage	48...600 V AC
Control circuit voltage	200...265 V AC
Contacts type and composition	1 NO
Tightening torque	0.5...0.8 N.m for output 0.5...0.8 N.m for input
Connections - terminals	Screw terminals 1 x 0.3...1 x 2.5 mm ² for output - AWG 22...AWG 14 Screw terminals 1 x 0.3...1 x 1.5 mm ² for input - AWG 22...AWG 16
Capacitance unbalance	<= 10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED green for input status
Switching voltage	<= 90 V AC turn-off >= 200 V AC turn-on
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	1200 V
Surge current	<= 750 A for 20 ms <= 715 A for 16.6 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	2330 A ² .s for 8.33 ms at 60 Hz half cycle 2560 A ² .s for 10 ms at 50 Hz half cycle
Leakage current	<= 0.2 mA off-state
DV/Dt	500 V/μs off-state at maximum voltage
Response time	20 ms 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

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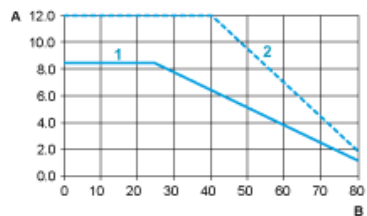
Environment

Flame retardance	V0 conforming to UL 94
Dielectric strength	4 kV AC for input or output to case 4 kV AC for input/output
Pollution degree	2
Standards	IEC 61000 IEC 60950-1 IEC 62314
Product certifications	CSA RoHS 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

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