Product data sheet Characteristics

SSM1A120M7

solid state relay - DIN rail mount - input 90-280Vac, output 24-280Vac, 20A



Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Device short name	SSM1
Number of phases	1 phase

Complementary

Mounting support	Symmetrical DIN rail
[In] rated current	20 A
Output voltage	24280 V AC
Control circuit voltage	90280 V AC
Contacts type and configuration	1 NO
Tightening torque	1.361.7 N.m for output 0.60.7 N.m for input
Connections - terminals	Screw terminals: 1 x 0.21 x 5.3 mm², (AWG 24AWG 10) for output Screw terminals: 1 x 0.21 x 5.3 mm², (AWG 24AWG 10) for input
Maximum capacitance	<= 8 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED green for input status
Switching voltage	10 V AC turn-off 90 V AC turn-on
Input current	210 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.1520 A
Transient overvoltage	600 V
Surge current	<= 250 A for 16.6 ms
Voltage drop	1.6 V on-state
Maximum I ² t for fusing	260 A ² .s for 8.3 ms
Leakage current	<= 10 mA off-state
DV/Dt	500 V/µs off-state at maximum voltage
Response time	40 ms turn-off 10 ms turn-on
Overvoltage category	III
Product weight	0.28 kg

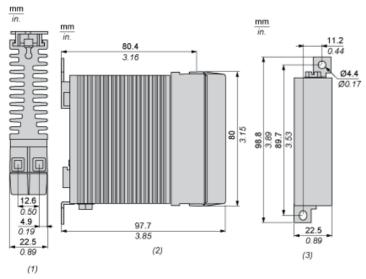
Environment

Dielectric strength	4 kV AC for input or output to case	
Dielectric strength		
	4 kV AC for input/output	
Pollution degree	2	
Standards	UL 508	
	IEC 60950-1	
	CSA C22.2 No 14	
	COA C22.2 NO 14	
Product certifications	CSA	
	UL	
	EAC	
Marking	CE	
	CSA	
	UL	
	EAC	
IP degree of protection	IP20	
Ambient air temperature for operation	-4080 °C	
Ambient air temperature for storage	-40125 °C	



SSM1A120M7

Dimensions

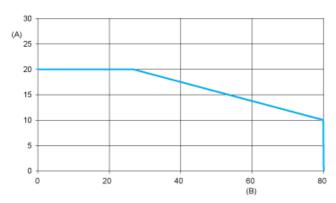


- (1) Top view
- (2) Side view
- (3) Front view

Product data sheet Performance Curves

SSM1A120M7

Derating Curves



A: Load Current (Amperes)
B: Ambient Temperature (°C)