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
Network number of phases	1 phase

Complementary

Mounting support	Symmetrical DIN rail	
[In] rated current	20 A	
Output voltage	24280 V AC	
[Uc] control circuit voltage	90280 V AC	
Contacts type and composition	1 NO	
Tightening torque	Input : 0.60.7 N.m Output : 1.361.7 N.m	
Connections - terminals	Screw terminals: 1 x 0.21 x 5.3 mm², (AWG 24AWG 10) for input Screw terminals: 1 x 0.21 x 5.3 mm², (AWG 24AWG 10) for output	
Capacitance unbalance	<= 8 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-on 10 V AC turn-off	
Input current limits	210 mA	
Solid state output type	Zero voltage switching SCR output	
Load current	0.1520 A	
Absolute maximum voltage	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	10 ms turn-on 40 ms turn-off	
Overvoltage category	III	
Product weight	0.28 kg	

Environment

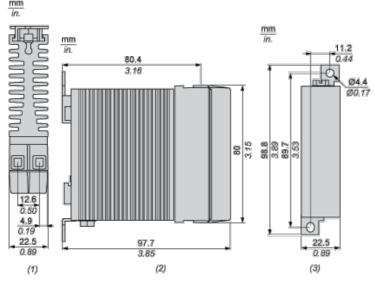
dielectric strength	4 kV AC for input/output 4 kV AC for input or output to case	
pollution degree	2	
standards	UL 508 IEC 60950-1 CSA C22.2 No 14	
product certifications	CSA	

	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

Offer Sustainability

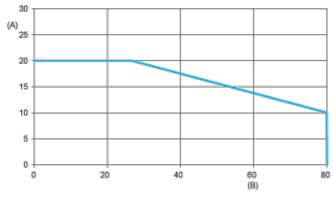
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1522 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Dimensions



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

Derating Curves



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