

Product data sheet

Characteristics

Available at: www.power-io.com

SSM3A325F7

solid state relay - DIN rail mount - input
90-140Vac, output 48-600Vac, 25A



Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Device short name	SSM3
Number of channels	3
Number of phases	3 phases

Complementary

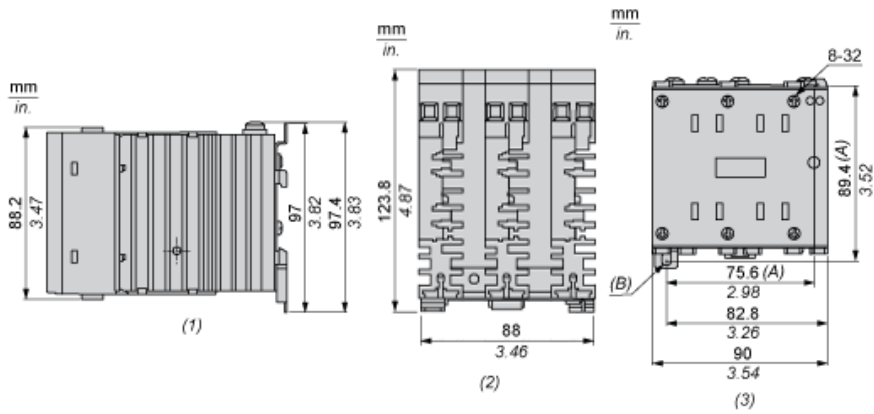
Mounting support	Symmetrical DIN rail
Output voltage	48...600 V AC
Control circuit voltage	90...140 V AC
Contacts type and configuration	3 NO
Tightening torque	1.36...1.7 N.m for output 0.6...0.7 N.m for input
Connections - terminals	Screw terminals : 1.3...5.3 mm ² , (AWG 16...AWG 10) for output Screw terminals : 0.2...1.3 mm ² , (AWG 24...AWG 16) for input
Maximum capacitance	<= 8 pF for input/output
Insulation resistance	1000 MOhm
Local signalling	LED green for input status
Switching voltage	10 V turn-off 90 V turn-on
Input current	15...19 mA
Solid state output type	Zero voltage switching
Load current	0.1...25 A
Transient overvoltage	1100 V
Surge current	<= 300 A for 16.6 ms at 60 Hz <= 286 A for 20 ms at 50 Hz
Voltage drop	1.35 V on-state
Motor power hp	3 hp at 40 °C 480 V AC 2 hp at 40 °C 380 V AC 1 hp at 40 °C 240 V AC
Maximum I ² t for fusing	374 A ² .s for 8.3 ms at 60 Hz half cycle 410 A ² .s for 10 ms at 50 Hz half cycle
Leakage current	<= 0.25 mA off-state
DV/Dt	500 V/μs off-state at maximum voltage
Response time	20 ms turn-on 30 ms turn-off
Power factor	0.5 with maximum load
Overvoltage category	III
Product weight	0.74 kg

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance 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

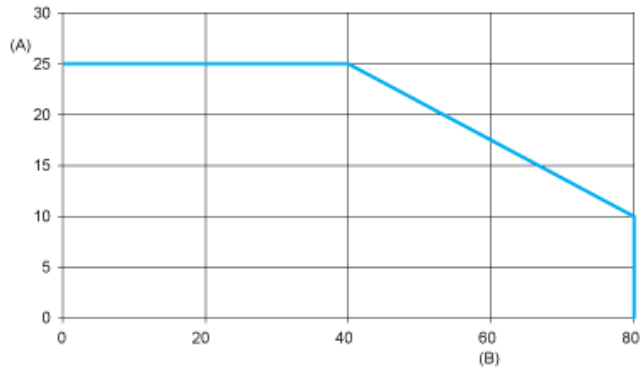
Dielectric strength	4 kV AC for input or output to case 4 kV AC for input/output
Pollution degree	2
Standards	UL 508 IEC 60950-1 CSA C22.2 No 14
Product certifications	CSA UL EAC
Marking	CE CSA UL EAC
IP degree of protection	IP20
Ambient air temperature for operation	-20...80 °C
Ambient air temperature for storage	-40...100 °C

Dimensions



- (1) Side view
- (2) Top view
- (3) Front view
- (A) Mounting hole
- (B) Mounting hole / slot

Derating Curves



A : Output Current (Arms)
B : Ambient Temperature (°C)