

# 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	SSM
Number of channels	3
Network number of phases	3 phases

## Complementary

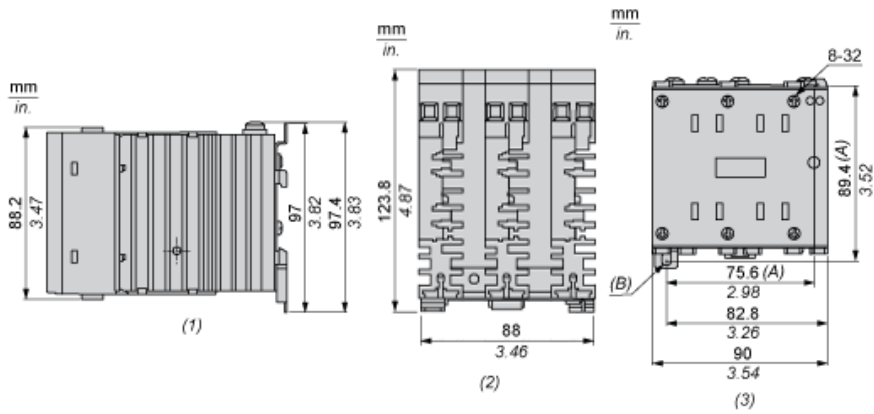
Mounting support	Symmetrical DIN rail
Output voltage	48...600 V AC
Control circuit voltage	90...140 V AC
Contacts type and composition	3 NO
Tightening torque	2...2.2 N.m for output 0.6...0.7 N.m for input
Connections - terminals	Screw terminals 0.2...1.3 mm <sup>2</sup> (AWG 24...AWG 16) for input Screw terminals 1.3...5.3 mm <sup>2</sup> (AWG 16...AWG 10) Screw terminals 1.3...8.4 mm <sup>2</sup> (AWG 16...AWG 8) for output Screw terminals 0.2...1.3 mm <sup>2</sup> (AWG 24...AWG 16)
Capacitance unbalance	<= 8 pF for input/output
Insulation resistance	1000 MOhm
Input current limits	19...24 mA
Solid state output type	Zero voltage switching
Load current	0.1...25 A
Absolute maximum voltage	1100 V
Surge current	286 A for 16.6 ms
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 <sup>2</sup> t for fusing	374 A <sup>2</sup> .s for 8.3 ms at 60 Hz half cycle 410 A <sup>2</sup> .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	8.33 ms turn-off 8.33 ms turn-on
Cos phi	0.5 with maximum load
Oversvoltage category	III
Width	90 mm
Height	91 mm
Depth	123 mm
Product weight	0.6 kg

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## Environment

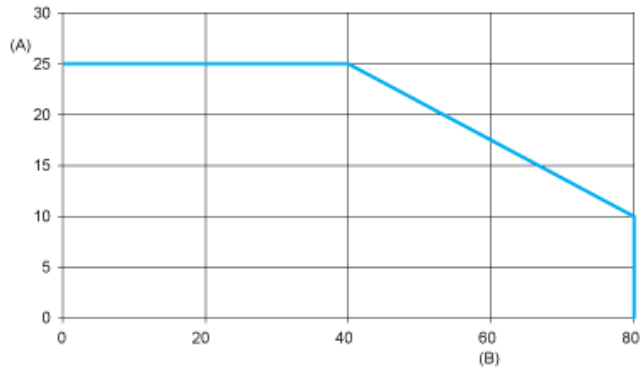
Dielectric strength	4 kV AC for input or output to case 4 kV AC for input/output
Pollution degree	2
Standards	IEC 61000 IEC 60950-1 IEC 62314
Product certifications	CSA UL REACH
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-20...80 °C
Ambient air temperature for storage	-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)