

# Product data sheet

## Characteristics

Available at [www.power-io.com](http://www.power-io.com)

# SSM3A325BD

solid state relay - DIN rail mount - input

4-32Vdc, 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

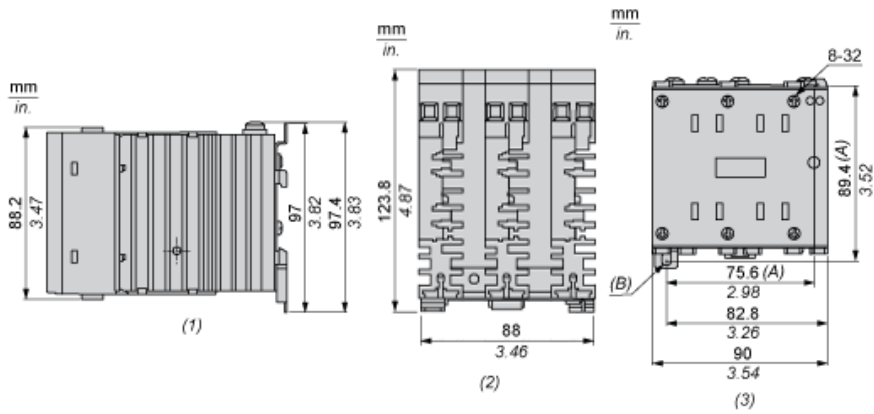
Mounting support	Symmetrical DIN rail
Output voltage	48...600 V AC
Control circuit voltage	4...32 V DC
Contacts type and configuration	3 NO
Tightening torque	1.36...1.7 N.m for output 0.6...0.7 N.m for input
Connections - terminals	Screw terminals : 1.3...5.3 mm <sup>2</sup> , (AWG 16...AWG 10) for output Screw terminals : 0.2...1.3 mm <sup>2</sup> , (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	1 V DC turn-off 4 V DC turn-on
Input current	22...28 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 <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	0.5 cycle turn-off 0.5 cycle turn-on
Power factor	0.5 with maximum load
Overvoltage category	III
Product weight	0.74 kg

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## Environment

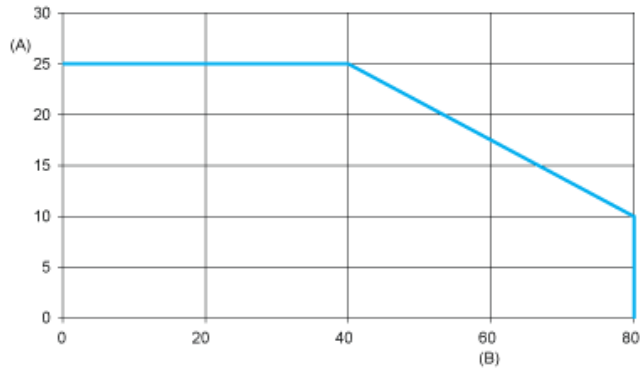
Dielectric strength	4 kV AC for input or output to case 4 kV AC for input/output
Pollution degree	2
Standards	UL 508 IEC 60950-1 CSA C22.2 No 14
Product certifications	CSA UL EAC
Marking	CE CSA UL EAC
IP degree of protection	IP20
Ambient air temperature for operation	-20...80 °C
Ambient air temperature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