Product data sheet
Characteristics

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

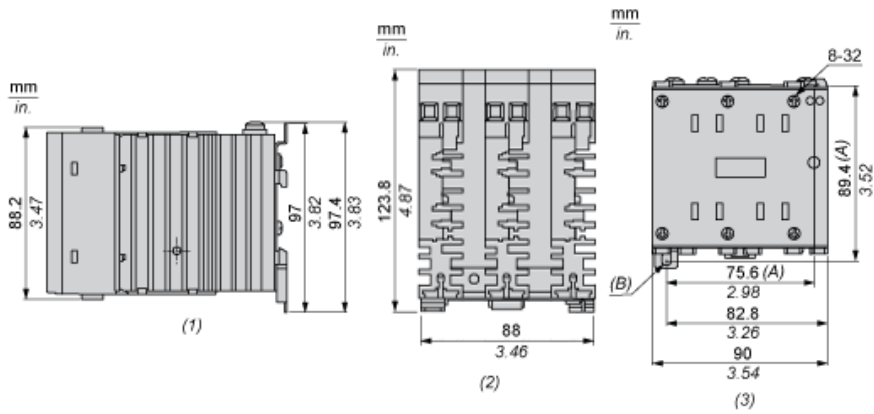## Complementary

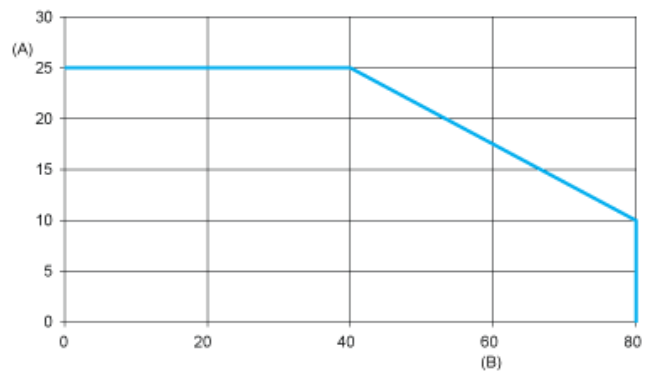|	
Mounting support	Symmetrical DIN rail
Output voltage	48...600 V AC
Control circuit voltage	4...32 V DC
Contacts type and configuration	3 NO
Tightening torque	1.36...1.7 N.m for output 0.6...0.7 N.m for input
Connections - terminals	Screw terminals : 1.3...5.3 mm², (AWG 16...AWG 10) for output Screw terminals : 0.2...1.3 mm², (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 I²t for fusing	374 A².s for 8.3 ms at 60 Hz half cycle 410 A².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

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

Product data sheet
Performance Curves

SSM3A325BD

Derating Curves

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