

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
Network number of phases	3 phases

Complementary

Mounting support	Symmetrical DIN rail
Output voltage	48...600 V AC
[Uc] control circuit voltage	4...32 V DC
Contacts type and composition	3 NO
Tightening torque	Input : 0.6...0.7 N.m Output : 1.36...1.7 N.m
Connections - terminals	Screw terminals : 0.2...1.3 mm ² , (AWG 24...AWG 16) for input Screw terminals : 1.3...5.3 mm ² , (AWG 16...AWG 10) for output
Capacitance unbalance	<= 8 pF for input/output
Insulation resistance	1000 MOhm
Local signalling	LED green for input status
Switching voltage	4 V DC turn-on 1 V DC turn-off
Input current limits	22...28 mA
Solid state output type	Zero voltage switching
Load current	0.1...25 A
Absolute maximum voltage	1100 V
Surge current	<= 286 A for 20 ms at 50 Hz <= 300 A for 16.6 ms at 60 Hz
Voltage drop	1.35 V on-state
Motor power hp	1 hp at 40 °C 240 V AC 3 hp at 40 °C 480 V AC 2 hp at 40 °C 380 V AC
Maximum I ² t for fusing	410 A ² .s for 10 ms at 50 Hz half cycle 374 A ² .s for 8.3 ms at 60 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-on 0.5 cycle turn-off
Cos phi	0.5 with maximum load
Overvoltage category	III
Product weight	0.74 kg

Environment

dielectric strength	4 kV AC for input/output 4 kV AC for input or output to case
pollution degree	2

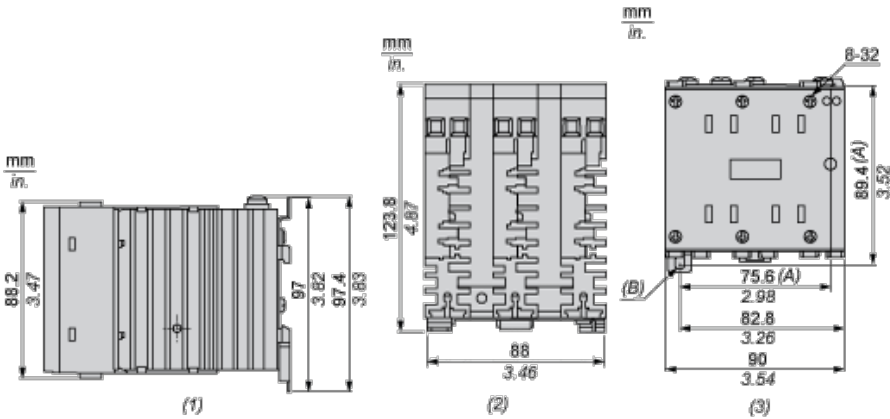
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standards	UL 508 IEC 60950-1 CSA C22.2 No 14
product certifications	CSA UL EAC
marking	CE CSA UL EAC
IP degree of protection	IP20
ambient air temperature for operation	-20...80 °C
ambient air temperature for storage	-40...100 °C

Offer Sustainability

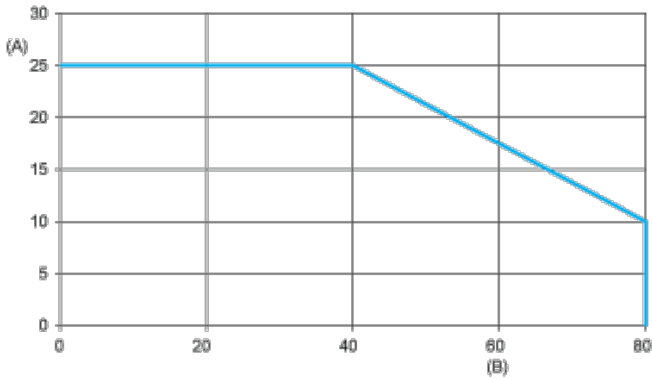
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1522 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Dimensions



- (1) 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)