

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
Network number of phases	3 phases

Complementary

Mounting support	Symmetrical DIN rail
Output voltage	48...600 V AC
[Uc] control circuit voltage	90...140 V AC
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	90 V turn-on 10 V turn-off
Input current limits	15...19 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	30 ms turn-off 20 ms turn-on
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

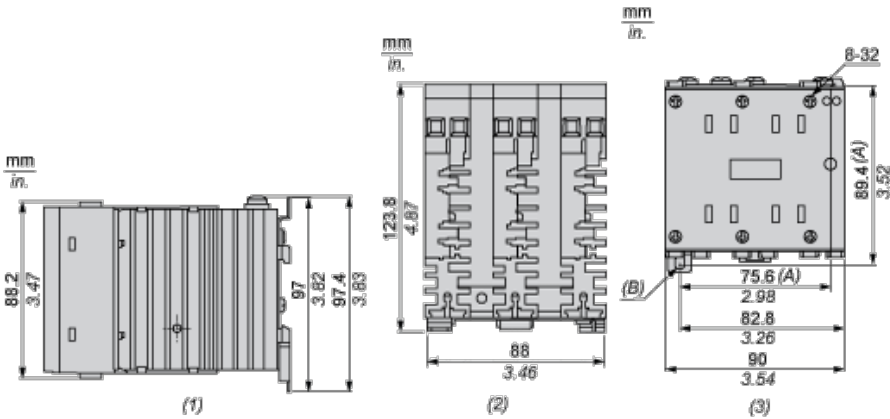
The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products 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.

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

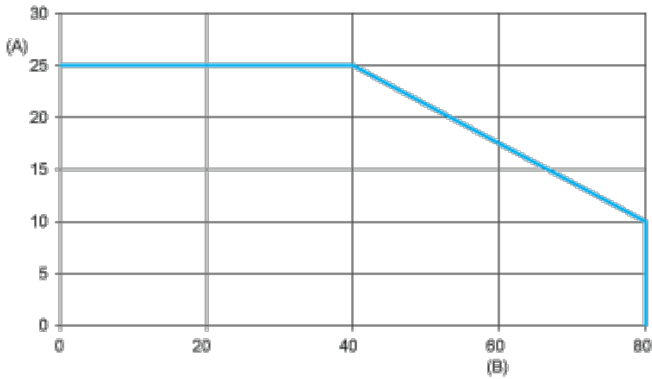
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1522 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

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)