

# SSM1A445BD

solid state relay - DIN rail mount - input  
4-32Vdc, output 48-660Vac, 45A



## Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Device short name	SSM1
Number of phases	1 phase

## Complementary

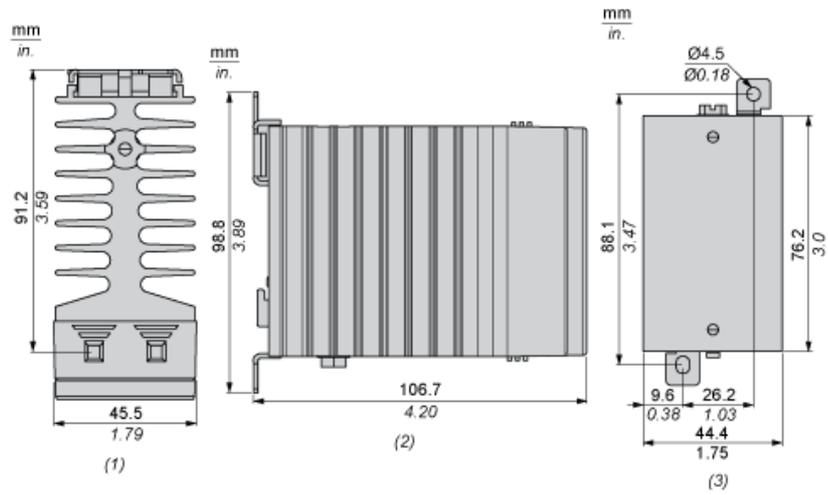
Mounting support	Symmetrical DIN rail
[In] rated current	45 A
Output voltage	48...660 V AC
Control circuit voltage	4...32 V DC
Contacts type and configuration	1 NO
Tightening torque	1.36...1.7 N.m for output 0.6...0.7 N.m for input
Connections - terminals	Screw terminals : 1 x 0.2...1 x 8.4 mm <sup>2</sup> , (AWG 24...AWG 8) for output Screw terminals : 1 x 0.2...1 x 3.3 mm <sup>2</sup> , (AWG 24...AWG 12) for input
Maximum capacitance	<= 8 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED green for input status
Switching voltage	1 V DC turn-off 4 V DC turn-on
Input current	14...17 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.15...45 A
Transient overvoltage	1200 V
Surge current	<= 625 A for 16.6 ms
Voltage drop	1.7 V on-state
Maximum I <sup>2</sup> t for fusing	1620 A <sup>2</sup> .s for 8.3 ms
Leakage current	<= 1 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
Overvoltage category	III
Product weight	0.476 kg

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.

## Environment

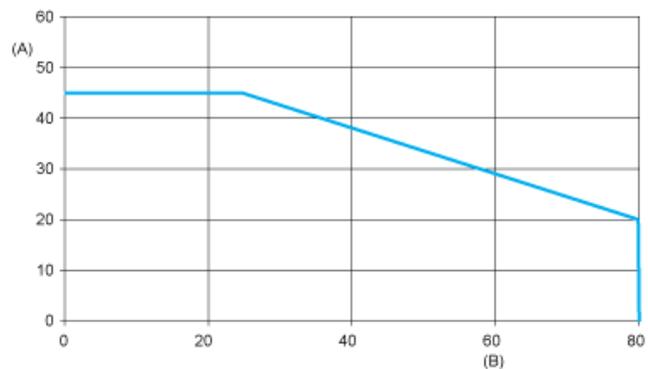
Dielectric strength	4 kV AC for input or output to case 4 kV AC for input/output
Pollution degree	2
Standards	UL 508 IEC 60950-1 CSA C22.2 No 14
Product certifications	CSA UL EAC
Marking	CE CSA UL EAC
IP degree of protection	IP20
Ambient air temperature for operation	-40...80 °C
Ambient air temperature for storage	-40...125 °C

Dimensions



- (1) Top view
- (2) Side view
- (3) Front view

Derating Curves



A : Load Current (Amperes)  
B : Ambient Temperature (°C)