# SSM1A145BD

solid state relay - DIN rail mount - input 3-32Vdc, output 24-280Vac, 45A





#### Main

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

### Complementary

Mounting support	Symmetrical DIN rail	
[In] rated current	45 A	
Output voltage	24280 V AC	
[Uc] control circuit voltage	332 V DC	
Contacts type and composition	1 NO	
Tightening torque	Input : 0.60.7 N.m Output : 1.361.7 N.m	
Connections - terminals	Screw terminals : 1 x 0.21 x 3.3 mm², (AWG 24AWG 12) for input Screw terminals : 1 x 0.21 x 8.4 mm², (AWG 24AWG 8) for output	
Capacitance unbalance	<= 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 3 V DC turn-on	
Input current limits	1417 mA	
Solid state output type	Zero voltage switching SCR output	
Load current	0.1545 A	
Absolute maximum voltage	600 V	
Surge current	<= 625 A for 16.6 ms	
Voltage drop	1.6 V on-state	
Maximum I <sup>2</sup> t for fusing	1620 A <sup>2</sup> .s for 8.3 ms	
Leakage current	<= 10 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	
Overvoltage category	III	
Product weight	0.476 kg	

#### **Environment**

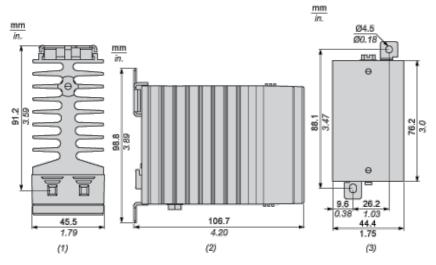
A kV ∆C for input/output	
2	
Σ	
UL 508	
IEC 60950-1	
CSA C22.2 No 14	
CSA	
	IEC 60950-1 CSA C22.2 No 14

	UL EAC
marking	CE CSA UL EAC
IP degree of protection	IP20
ambient air temperature for operation	-4080 °C
ambient air temperature for storage	-40125 °C

## Offer Sustainability

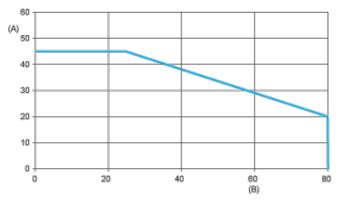
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1522 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

### **Dimensions**



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

# **Derating Curves**



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