

SSM1A445BD

Solid state relay, 45 A, DIN rail mount, input
4...32 V DC, output 48...660 V AC, 1 NO



Main

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

Complementary

Mounting support	Symmetrical DIN rail
Line Rated Current	45 A
Output voltage	48...660 V AC
[Uc] control circuit voltage	4...32 V DC
Contacts type and configuration	1 NO
Tightening torque	0.6...0.7 N.m input 1.36...1.7 N.m output
Connections - terminals	Screw terminals 1 x 0.2...1 x 3.3 mm ² , AWG 24...AWG 12) input Screw terminals 1 x 0.2...1 x 8.4 mm ² , AWG 24...AWG 8) output
Maximum capacitance	8 pF input/output
Insulation resistance	1000 MOhm 500 V DC
Local signalling	Input status LED green)
Switching voltage	4 V DC turn-on 1 V DC turn-off
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 16.6 ms
Maximum voltage drop	<1.7 V on-state
Maximum I ² t for fusing	1620 A ² .s 8.3 ms
Maximum leakage current	1 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
Net Weight	1.05 lb(US) (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 input/output 4 kV AC input or output to case
Pollution degree	2
Standards	IEC 60950-1 CSA C22.2 No 14 UL 508
Product certifications	EAC CSA UL
Marking	CE CSA EAC UL
IP degree of protection	IP20
Ambient air temperature for operation	-40...176 °F (-40...80 °C)
Ambient air temperature for storage	-40...257 °F (-40...125 °C)

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	00785901335719
Nbr. of units in pkg.	1
Package weight(Lbs)	1.15 lb(US) (0.52 kg)
Returnability	Yes
Country of origin	MX

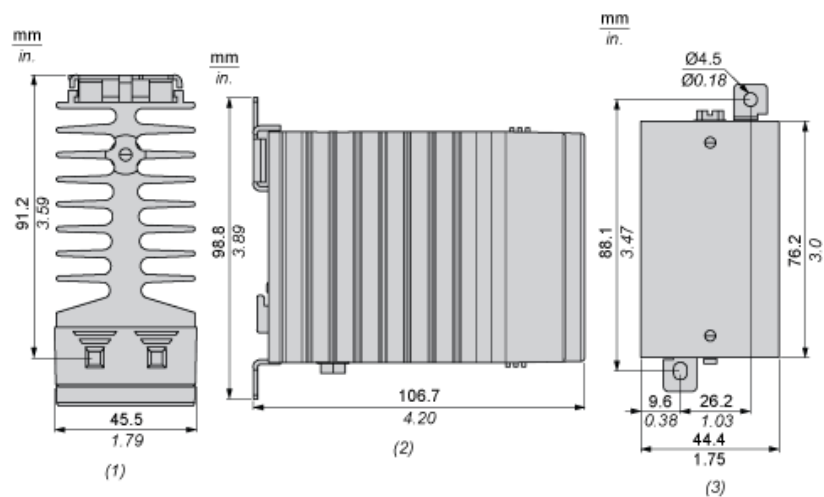
Packing Units

Package 1 Height	0.600 dm
Package 1 width	1.150 dm
Package 1 Length	1.180 dm

Offer Sustainability

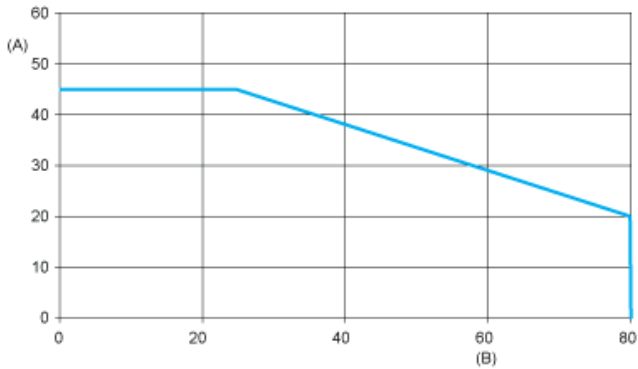
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration

Dimensions



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

Derating Curves



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