Product datasheet

Specifications





Solid state modular relay, 12 A, random swtching, input 4...32 V DC, output 24...280 V AC

Local distributor code: 403013898

SSM1A112BDR

EAN Code: 3606480579561

Main

Range Of Product	Harmony Solid State Relays	
Product Or Component Type	Solid state relay up to 20 A	
Device Short Name	SSM	
Number Of Channels	1	
Number Of Phases	1 phase	
Output Switching Mode	Random voltage switching	

Complementary

Complementary	
Mounting Support	Symmetrical DIN rail
[In] Rated Current	12 A
Output Voltage	24280 V AC
[Uc] Control Circuit Voltage	432 V DC
Tightening Torque	0.50.8 N.m for input 0.50.8 N.m for output
Connections - Terminals	Screw terminals: 1 x 0.31 x 1.5 mm², (AWG 22AWG 16) for input Screw terminals: 1 x 0.31 x 2.5 mm², (AWG 22AWG 14) for output
Maximum Capacitance	10 pF for input/output
Insulation Resistance	1000 MOhm at 500 V DC
Local Signalling	LED (green) for input status
Minimum Switching Voltage	4 V DC turn-on
Maximum Switching Voltage	1 V DC turn-off
Input Current	911 mA
Solid State Output Type	SCR output Random voltage switching
Load Current	0.1512 A
Transient Overvoltage	600 V
Surge Current	715 A for 16.6 ms 750 A for 20 ms
Maximum Voltage Drop	<1.3 V on-state
Motor Power Hp	0.33 hp 40 °C 240 V AC
Maximum I ² T For Fusing	2560 A ² .s for 10 ms at 50 Hz 2330 A ² .s for 8.33 ms at 60 Hz
Maximum Leakage Current	0.1 mA off-state
Dv/Dt	500 V/μs off-state at maximum voltage

Response Time	0.5 cycle (turn-off)
Power Factor	0.5 (with maximum load)
Overvoltage Category	III
Width	18 mm
Height	90.3 mm
Depth	83.7 mm
Net Weight	0.09 kg

Environment

Flame Retardance	V0 conforming to UL 94
Dielectric Strength	4 kV AC for input/output 4 kV AC for input or output to case
Pollution Degree	2
Standards	IEC 60950-1 IEC 61000 IEC 62314
Product Certifications	UL CSA
Marking	CE
Ip Degree Of Protection	IP20
Ambient Air Temperature For Operation	-3080 °C
Ambient Air Temperature For Storage	-30100 °C

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.5 cm
Package 1 Width	9 cm
Package 1 Length	9.5 cm
Package 1 Weight	89 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	72
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.426 kg

Contractual warranty

Warranty 18 months



Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Learn more >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

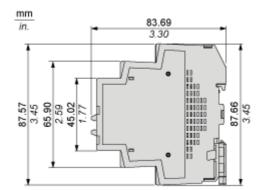
Certifications & Standards

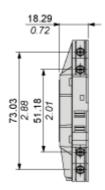
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Product datasheet SSM1A112BDR

Dimensions Drawings

Dimensions

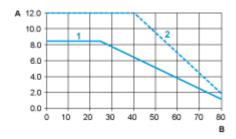




Product datasheet SSM1A112BDR

Performance Curves

Derating Curves



- A: Load Current (Amperes)
- B: Ambient Temperature (°C)
- 1: Multiple units, no minimum spacing between components
- 2: Installed single unit, distance to adjacent components more than 18 mm