Product data sheet

Specifications

Green Premium™



single phase relay, Harmony Solid State Modular Relays, 6A, DIN rail mount, random switching, input 4 to 32V DC, output 48 to 600V AC

SSM1A36BDR

Main

Range Of Product	Harmony Solid State Relays	
Product Or Component Type	Modular DIN rail relay	
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	6 A	
Output Voltage	48600 V AC	
[Uc] Control Circuit Voltage	432 V DC	
Tightening Torque	0.50.8 N.m input 0.50.8 N.m output	
Connections - Terminals	Screw terminals 1 x 0.31 x 1.5 mm ² , AWG 22AWG 16) input Screw terminals 1 x 0.31 x 2.5 mm ² , AWG 22AWG 14) output	
Maximum Capacitance	10 pF input/output	
Insulation Resistance	1000 MOhm 500 V DC	
Local Signalling	Input status LED green)	
Minimum Switching Voltage	4 V DC turn-on	
Maximum Switching Voltage	1 V DC turn-off	
Input Current	811 mA	
Solid State Output Type	Random voltage switching SCR output	
Load Current	0.156 A	
Transient Overvoltage	1200 V	
Surge Current	285 A 16.6 ms 300 A 20 ms	
Maximum Voltage Drop	<1.3 V on-state	
Motor Power Hp	0.16 hp 104 °F (40 °C) 240 V AC	
Maximum I²T For Fusing	410 A².s 10 ms 50 Hz 375 A².s 8.33 ms 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) 0.1 ms turn-on)	
Power Factor	0.5 with maximum load)	
Overvoltage Category	111	
Width	0.4 in (11 mm)	
Height	3.6 in (90.3 mm)	
Test Button	Without test button	
Depth	3.3 in (83.7 mm)	
Net Weight	0.11 lb(US) (0.05 kg)	

Environment

Flame Retardance	V0 UL 94	
Dielectric Strength	4 kV AC input/output 4 kV AC input or output to case	
Pollution Degree	2	
Standards	IEC 60950-1 IEC 62314 IEC 61000	
Product Certifications	CSA UL	
Marking	CE	
Ip Degree Of Protection	IP20	
Ambient Air Temperature For Operation	-22176 °F (-3080 °C)	
Ambient Air Temperature For Storage	-22212 °F (-30100 °C)	

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	0.8 in (2 cm)	
Package 1 Width	3.5 in (9 cm)	
Package 1 Length	3.7 in (9.5 cm)	
Package 1 Weight	2.4 oz (67 g)	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	96	
Package 2 Height	5.9 in (15 cm)	
Package 2 Width	11.8 in (30 cm)	
Package 2 Length	15.7 in (40 cm)	
Package 2 Weight	15.02 lb(US) (6.813 kg)	

Sustainability Screen

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.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc
Mercury Free
Rohs Exemption Information Yes

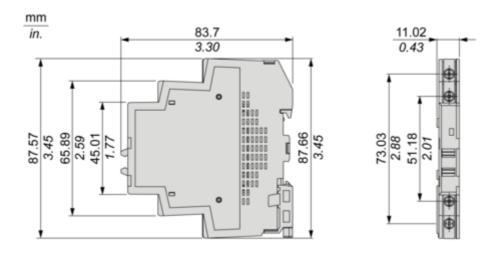
Certifications & Standards

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

Product data sheet

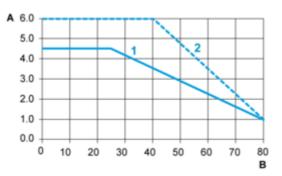
Dimensions Drawings

Dimensions



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 11 mm