Product data sheet

Specifications

single phase relay, Harmony Solid State Modular Relays, 6A, DIN rail mount, random swtching, input 4 to 32V DC, output 24 to 280V AC

SSM1A16BDR

Product availability: Stock - Normally stocked in distribution facility

Price*: 29.70 USD

Main

Range Of Product	Harmony Solid State Relays
Product Or Component Type	Solid state relay up to 10 A
Device Short Name	SSM
Number Of Channels	1
Number Of Phases	1 phase
Output Switching Mode	Random voltage switching

Complementary

Mounting Support	Symmetrical DIN rail
Line Rated Current	6 A
Output Voltage	24...280 V AC
[Uc] Control Circuit Voltage	4...32 V DC
Tightening Torque	0.5...0.8 N.m for input 0.5...0.8 N.m for output
Connections - Terminals	Screw terminals 1 x 0.3...1 x 1.5 mm², AWG 22...AWG 16) input Screw terminals 1 x 0.3...1 x 2.5 mm², AWG 22...AWG 14) output
Maximum Capacitance	10 pF for input/output
Insulation Resistance	1000 MOhm at 500 V DC
Local Signalling	for input status LED (green)
Minimum Switching Voltage	4 V DC turn-on
Maximum Switching Voltage	1 V DC turn-off
Input Current	8…11 mA
Solid State Output Type	SCR output Random voltage switching
Load Current	0.15…6 A
Transient Overvoltage	600 V
Surge Current	285 A 16.6 ms 300 A 20 ms
Maximum Voltage Drop	<1.3 V on-state
Maximum Horse Power Rating	0.16 hp 104 °F (40 °C) 240 V AC

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

Maximum I²T For Fusing	410 A².s for 10 ms at 50 Hz 375 A².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) 0.1 ms (turn-on)
Power Factor	0.5 (with maximum load)
Overvoltage Category	III
Width	0.43 in (11 mm)
Height	3.56 in (90.3 mm)
Depth	3.30 in (83.7 mm)
Net Weight	0.11 lb(US) (0.05 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 62314 IEC 60950-1 IEC 61000
Product Certifications	UL CSA
Marking	CE
Ip Degree Of Protection	IP20
Ambient Air Temperature For Operation	-22…176 °F (-30…80 °C)
Ambient Air Temperature For Storage	-22…212 °F (-30…100 °C)

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
Gtin	3606480579417
Returnability	Yes
Country Of Origin	MX

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	0.79 in (2.000 cm)
Package 1 Width	3.54 in (9.000 cm)
Package 1 Length	3.54 in (9.000 cm)
Package 1 Weight	2.29 oz (65.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	96

Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	14.81 lb(US) (6.717 kg)

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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

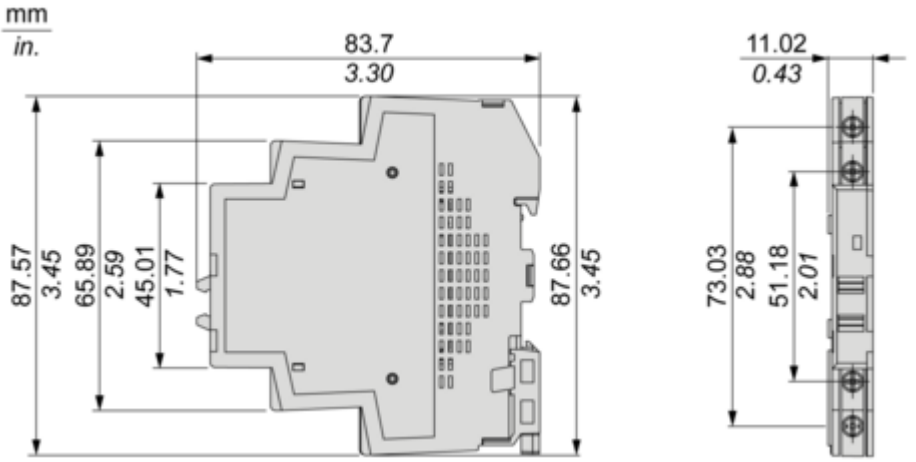
Reach Free Of Svhc	
Mercury Free	
Rohs Exemption Information	Yes

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
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

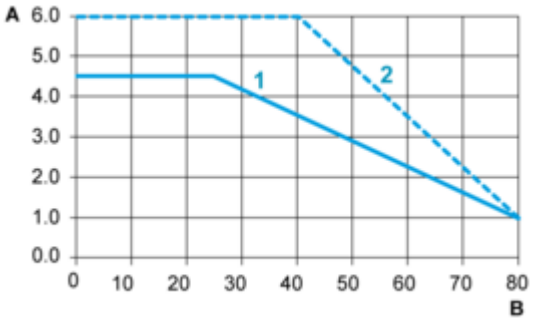
Dimensions Drawings

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