Product data sheet





(!) Discontinued

Harmony, Solid state modular relay, 45 A, DIN rail mount, ze voltage swithing, input 3…32 V DC, output 24…280 V AC

SSM1A145BD



(!) Discontinued on: Mar 30, 2023

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range Of Product	Harmony Solid State Relays
Product Or Component Type	Solid state relay up to 50 A
Device Short Name	SSM1
Number Of Phases	1 phase
Output Switching Mode	Zero voltage switching

Complementary

Mounting Support	Symmetrical DIN rail	
Line Rated Current	45 A	
Output Voltage	24280 V AC	
[Uc] Control Circuit Voltage	332 V DC	
Tightening Torque	0.60.7 N.m for input 1.361.7 N.m for output	
Connections - Terminals	Screw terminals 1 x 0.21 x 3.3 mm², AWG 24AWG 12) input Screw terminals 1 x 0.21 x 8.4 mm², AWG 24AWG 8) output	
Maximum Capacitance	8 pF for input/output	
Insulation Resistance	1000 MOhm at 500 V DC	
Local Signalling	for input status LED (green)	
Switching Voltage	1 V DC turn-off 3 V DC turn-on	
Input Current	1417 mA	
Solid State Output Type	SCR output Zero voltage switching	
Load Current	0.1545 A	
Transient Overvoltage	600 V	
Surge Current	625 A 16.6 ms	
Maximum Voltage Drop	<1.6 V on-state	
Maximum I ² T For Fusing	1620 A².s for 8.3 ms	
Maximum Leakage Current	10 mA off-state	
Dv/Dt	500 V/μs off-state at maximum voltage	

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

Response Time	0.5 cycle (turn-on) 0.5 cycle (turn-off)
Overvoltage Category	III
Net Weight	1.05 lb(US) (0.476 kg)

Environment

Dielectric Strength	4 kV AC for input/output 4 kV AC for input or output to case
Pollution Degree	2
Standards	IEC 60950-1 CSA C22.2 No 14 UL 508
Product Certifications	CSA UL EAC
Marking	CSA EAC UL CE
Ip Degree Of Protection	IP20
Ambient Air Temperature For Operation	-40176 °F (-4080 °C)
Ambient Air Temperature For Storage	-40257 °F (-40125 °C)

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
Gtin	3606485441634
Returnability	No
Country Of Origin	MX

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	2.36 in (6.0 cm)	
Package 1 Width	4.53 in (11.5 cm)	
Package 1 Length	4.65 in (11.8 cm)	
Package 1 Weight	18.45 oz (523.0 g)	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	12	
Package 2 Height	5.91 in (15.0 cm)	
Package 2 Width	11.81 in (30.0 cm)	
Package 2 Length	15.75 in (40.0 cm)	
Package 2 Weight	14.73 lb(US) (6.68 kg)	



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Transparency RoHS/REACh

Well-being performance



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Rohs Exemption Information

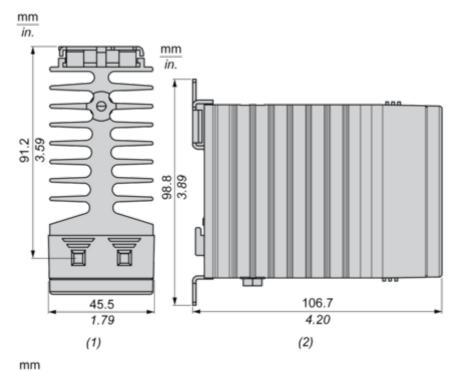
Yes

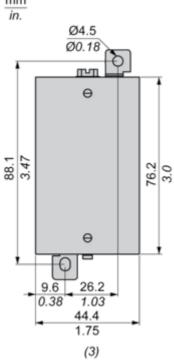
Certifications & Standards

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





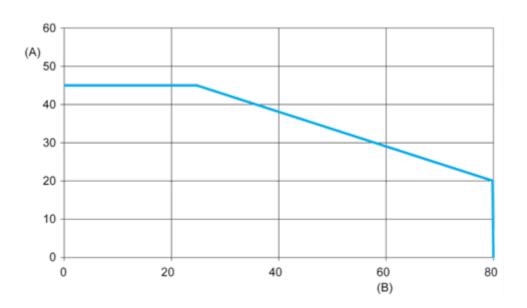
- (1) Top view(2) Side view
- (3) Front view

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Performance Curves

Derating Curves



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