Product data sheet

Specification





Harmony, Solid state modular relay, 20 A, DIN rail mount, zero voltage switching, input 4…32 V DC, output 24…280 V AC

SSM1A120BD



(!) Discontinued on: Mar 31, 2023

! Discontinued

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 20 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	20 A	
Output Voltage	24280 V AC	
[Uc] Control Circuit Voltage	432 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 5.3 mm², AWG 24AWG 10) input Screw terminals 1 x 0.21 x 5.3 mm², AWG 24AWG 10) 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	4 V DC turn-on 1 V DC turn-off	
Input Current	812 mA	
Solid State Output Type	SCR output Zero voltage switching	
Load Current	0.1520 A	
Transient Overvoltage	600 V	
Surge Current	250 A 16.6 ms	
Maximum Voltage Drop	<1.6 V on-state	
Maximum I ² T For Fusing	260 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	0.62 lb(US) (0.28 kg)

Environment

Dielectric Strength	4 kV AC for input/output 4 kV AC for input or output to case
Pollution Degree	2
Standards	CSA C22.2 No 14 IEC 60950-1 UL 508
Product Certifications	EAC UL CSA
Marking	CSA UL CE EAC
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	3606485441573
Returnability	No
Country Of Origin	MX

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.26 in (3.2 cm)
Package 1 Width	4.33 in (11.0 cm)
Package 1 Length	4.33 in (11.0 cm)
Package 1 Weight	10.34 oz (293.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	24
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	16.09 lb(US) (7.3 kg)



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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

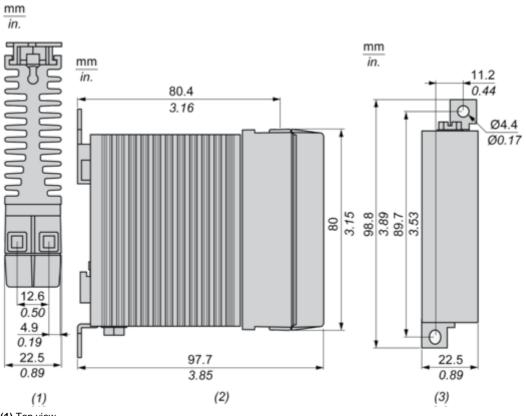
Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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



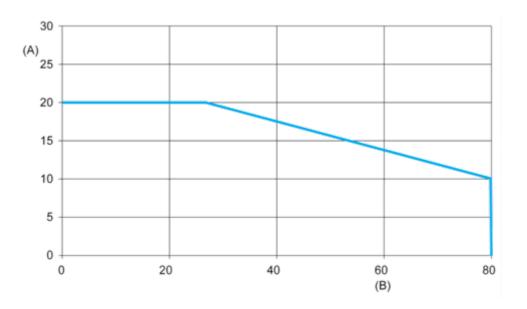
- (1) Top view
- (2) Side view
- (3) Front view

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Performance Curves

Derating Curves



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