Product data sheet Characteristics

SSM1A120BD

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



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

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 I²t for fusing	260 A ² .s for 8.3 ms
Maximum leakage current	10 mA off-state
DV/dt	500 V/µs off-state at maximum voltage
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

22375-INTERFACE MODULE(ABA,R,S)	
CP2	
3606485441573	
1	
10.30 oz (292.0 g)	
No	
MX	
	CP2 3606485441573 1 10.30 oz (292.0 g) No

Packing Units

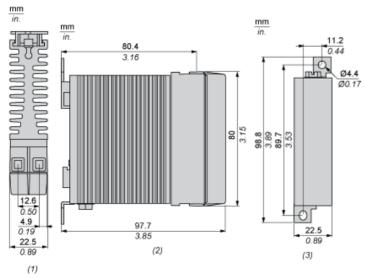
Unit Type of Package 1	PCE
Package 1 Height	1.26 in (3.2 cm)
Package 1 width	4.33 in (11 cm)
Package 1 Length	4.33 in (11 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Weight	16.31 lb(US) (7.398 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

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Sustainable offer status	Green Premium product
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
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	€Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☑ End Of Life Information

SSM1A120BD

Dimensions

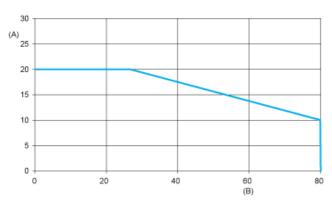


- (1) Top view
- (2) Side view
- (3) Front view

Product data sheet Performance Curves

SSM1A120BD

Derating Curves



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