

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

Mounting Support	Symmetrical DIN rail
Line Rated Current	20 A
Output voltage	24...280 V AC
[Uc] control circuit voltage	4...32 V DC
Tightening torque	0.6...0.7 N.m for input 1.36...1.7 N.m for output
Connections - terminals	Screw terminals 1 x 0.2...1 x 5.3 mm ² , AWG 24...AWG 10) input Screw terminals 1 x 0.2...1 x 5.3 mm ² , AWG 24...AWG 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	8...12 mA
Solid state output type	SCR output Zero voltage switching
Load current	0.15...20 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 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)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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	-40...176 °F (-40...80 °C)
Ambient Air Temperature for Storage	-40...257 °F (-40...125 °C)

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3606485441573
Nbr. of units in pkg.	1
Package weight(Lbs)	10.51 oz (298 g)
Returnability	Yes
Country of origin	MX

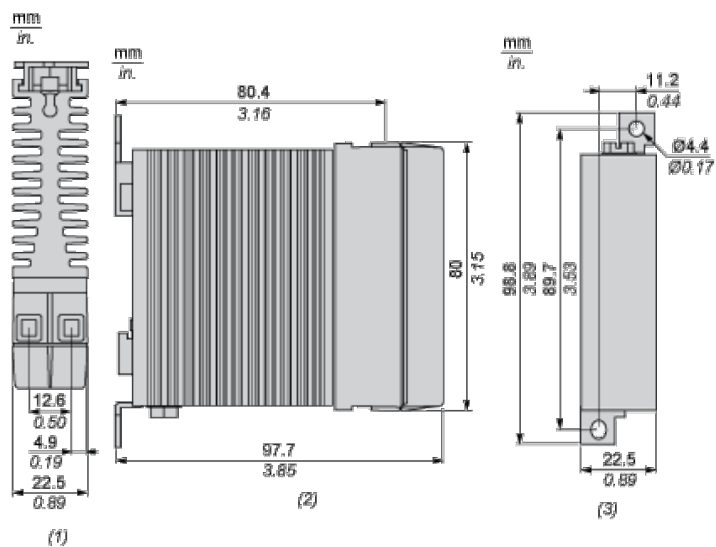
Packing Units

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	16.25 lb(US) (7.372 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

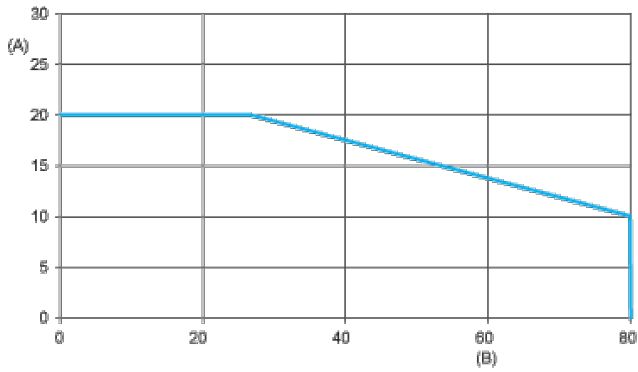
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information

Dimensions



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

Derating Curves



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