

SSM1A112BDR

single phase relay, Harmony Solid State Slim Relays, 12A, DIN rail mount, random switching, input 4 to 32V DC, output 24 to 280V AC



Main

| | |
|---------------------------|------------------------------|
| Range of Product | Harmony Solid State Relays |
| Product or Component Type | Solid state relay up to 20 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 | 12 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 mm ² , AWG 22...AWG 16) input Screw terminals 1 x 0.3...1 x 2.5 mm ² , 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 | 9...11 mA |
| Solid state output type | SCR output Random voltage switching |
| Load current | 0.15...12 A |
| Transient overvoltage | 600 V |
| Surge current | 715 A 16.6 ms 750 A 20 ms |
| Maximum voltage drop | <1.3 V on-state |
| Maximum Horse Power Rating | 0.33 hp 104 °F (40 °C) 240 V AC |
| Maximum I ² t for fusing | 2560 A ² .S for 10 ms at 50 Hz 2330 A ² .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) |
| Power factor | 0.5 (with maximum load) |
| Overvoltage category | III |
| Width | 0.71 in (18 mm) |
| Height | 3.56 in (90.3 mm) |
| Depth | 3.30 in (83.7 mm) |
| Net Weight | 0.20 lb(US) (0.09 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

| | |
|---------------------------------------|---|
| 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 60950-1 IEC 61000 IEC 62314 |
| Product Certifications | UL[RETURN]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 | 22375-INTERFACE MODULE(ABA,R,S) |
| Discount Schedule | CP2 |
| GTIN | 3606480579561 |
| Returnability | No |
| Country of origin | MX |

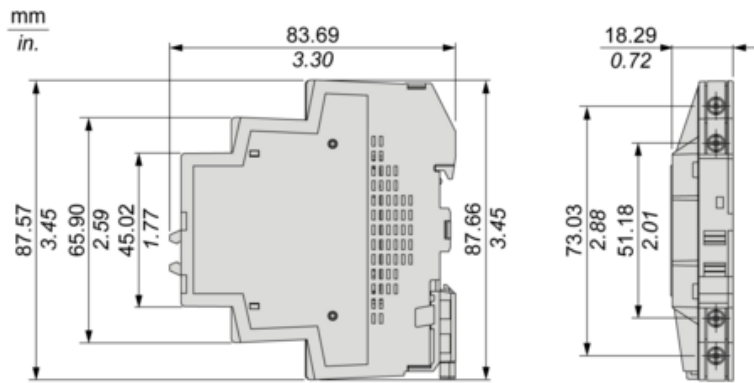
Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 0.98 in (2.5 cm) |
| Package 1 Width | 3.54 in (9 cm) |
| Package 1 Length | 3.74 in (9.5 cm) |
| Package 1 Weight | 3.14 oz (89 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 72 |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 Width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |
| Package 2 Weight | 16.37 lb(US) (7.426 kg) |

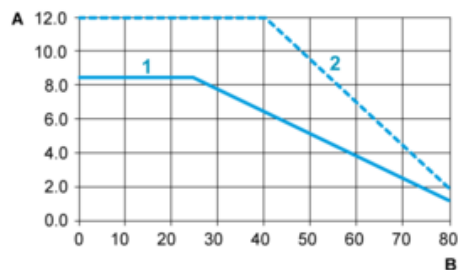
Offer Sustainability

| | |
|----------------------------|---|
| 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) |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

Dimensions



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 18 mm