

SSM1D212BD

Harmony, Solid state modular relay, 12 A, DIN rail mount, DC switching, input 4...32 V DC, output 1...60 V DC, 1NO



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 | DC switching |

Complementary

| | |
|------------------------------|---|
| Mounting Support | Symmetrical DIN rail |
| Line Rated Current | 12 A |
| Output voltage | 1...60 V DC |
| [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 | DC switching Mosfet output |
| Load current | 0.0025...12 A |
| Transient overvoltage | 60 V |
| Surge current | 100 A 10 ms |
| Maximum voltage drop | <0.5 V on-state |
| Resistance | 0.045 Ohm on-state |
| Maximum leakage current | 0.1 mA off-state |
| Response time | 0.6 ms (turn-on) 0.3 ms (turn-off) |
| 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) |

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Environment

| | |
|---------------------------------------|---|
| Flame retardance | V0 conforming to UL 94 |
| Dielectric strength | 4 KV DC for input/output 4 kV DC for input or output to case |
| Pollution degree | 2 |
| Standards | IEC 61000 IEC 60950-1 IEC 62314 |
| Product Certifications | CSA UL |
| 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 | 3606480579462 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 3.46 oz (98 g) |
| Returnability | Yes |
| Country of origin | MX |

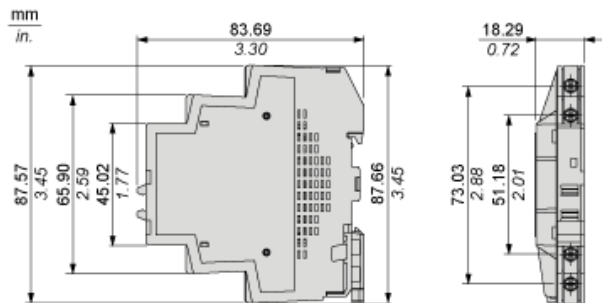
Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 0.79 in (2 cm) |
| Package 1 width | 3.54 in (9 cm) |
| Package 1 Length | 3.74 in (9.5 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 72 |
| Package 2 Weight | 15.87 lb(US) (7.197 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) |

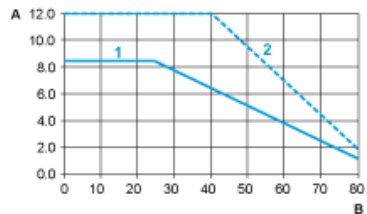
Offer Sustainability

| | |
|----------------------------|---|
| 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



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