

SSM1A16BD

single phase relay, Harmony Solid State Modular Relays, 6A, DIN rail mount, zero voltage switching, input 4 to 32V DC, output 24 to 280V AC



Main

| | |
|---------------------------|----------------------------|
| Range of Product | Harmony Solid State Relays |
| Product or Component Type | Modular DIN rail relay |
| Device short name | SSM |
| Number of channels | 1 |
| Number of phases | 1 phase |
| Output switching mode | Zero voltage switching |

Complementary

| | |
|-------------------------------------|---|
| Mounting Support | Symmetrical DIN rail |
| Line Rated Current | 6 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 | 8...11 mA |
| Solid state output type | Zero voltage switching SCR output |
| Load current | 0.15...6 A |
| Transient overvoltage | 600 V |
| Surge current | 285 A 16.6 ms 300 A 20 ms |
| Maximum voltage drop | <1.3 V on-state |
| Maximum Horse Power Rating | 0.16 hp 104 °F (40 °C) 240 V AC |
| Maximum I ² t for fusing | 410 A ² .S for 10 ms at 50 Hz 375 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-on) 0.5 cycle (turn-off) |
| Power factor | 0.5 (with maximum load) |
| Overvoltage category | III |
| Width | 0.4 in (11 mm) |
| Height | 3.6 in (90.3 mm) |
| Test button | Without test button |

| | |
|------------|-----------------------|
| Depth | 3.3 in (83.7 mm) |
| Net Weight | 0.11 lb(US) (0.05 kg) |

Environment

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|---------------------------------------|---|
| 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 62314 IEC 61000 IEC 60950-1 |
| Product Certifications | CSA[RETURN]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

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|-------------------|---------------|
| Category | US10CP222375 |
| Discount Schedule | OCP2 |
| GTIN | 3606480579363 |
| Returnability | Yes |
| Country of origin | MX |

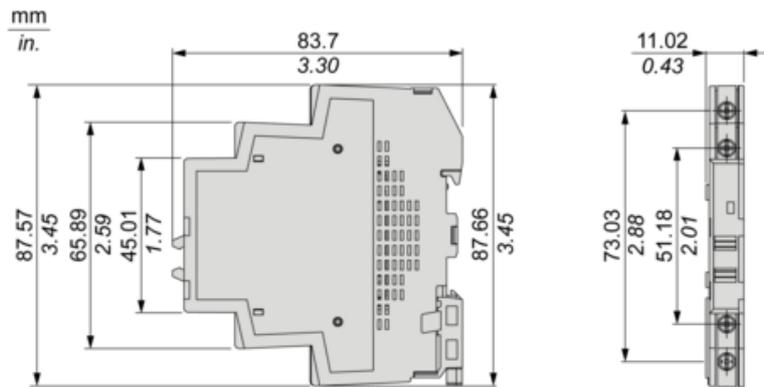
Packing Units

| | |
|------------------------------|--------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 0.8 in (2 cm) |
| Package 1 Width | 3.5 in (9 cm) |
| Package 1 Length | 3.5 in (9 cm) |
| Package 1 Weight | 2.3 oz (66 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 96 |
| Package 2 Height | 5.9 in (15 cm) |
| Package 2 Width | 11.8 in (30 cm) |
| Package 2 Length | 15.7 in (40 cm) |
| Package 2 Weight | 14.480 lb(US) (6.568 kg) |

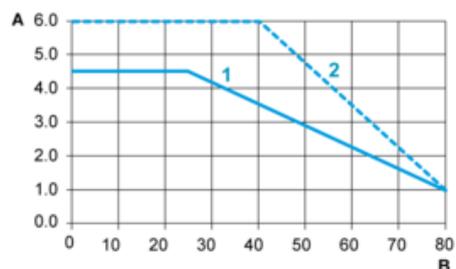
Offer Sustainability

| | |
|----------------------------|---|
| 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 |
| REACH free of SVHC | Yes |
| 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 11 mm