

SSP1A175BDT

Solid state panel mount relay, 75 A, zero voltage switching, thermal pad, input 3...32 V DC, output 24...300 V AC

Product availability : Non-Stock - Not normally stocked in distribution facility



Main

| | |
|---------------------------------|--------------------------------------|
| Range of product | Harmony Relay |
| Product or component type | Solid state relay |
| Provided accessory | Thermal pad |
| Device short name | SSP1 |
| Mounting support | Panel |
| Number of phases | 1 phase |
| Contacts type and configuration | 1 NO |
| Line Rated Current | 75 A |
| Solid state output type | SCR output Zero voltage switching |

Complementary

| | |
|-------------------------------------|--|
| [Uc] control circuit voltage | 3...32 V DC |
| Minimum switching voltage | 3 V DC turn-on |
| Maximum switching voltage | 1 V DC turn-off |
| Response time | 0.5 cycle turn-on) 0.5 cycle turn-off) |
| Input current | 10 mA 12 V DC |
| Output voltage | 24...300 V AC |
| Load current | 0.15...75 A |
| Transient overvoltage | 600 V |
| Surge current | 1000 A 16.6 ms |
| Maximum I ² t for fusing | 4150 A ² .s 8.33 ms 60 Hz 4555 A ² .s 10 ms 50 Hz |
| Co-ordination type | Type 1 - 50 A miniature circuit breaker (MCB) B |

* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Type 2 - 40 A miniature circuit breaker (MCB) B

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|--|---|
| Maximum leakage current | 1 mA off-state |
| Maximum voltage drop | <1.15 V on-state |
| DV/Dt | 500 V/μs off-state at maximum voltage |
| Power factor | 0.5 with maximum load) |
| Motor controller rating | 1.5 hp 120 V AC 3 hp 240 V AC |
| Insulation resistance | 1000 MOhm 500 V DC |
| Maximum capacitance | 10 pF input/output |
| Dielectric strength | 4 kV AC input/output 4 kV AC input or output to case |
| [Uimp] rated impulse withstand voltage | 6 kV output to case 6 kV input to output |
| Tightening torque | 1.5...1.7 N.m input 2...2.2 N.m output |
| Connections - terminals | Screw terminals 0.2...3.3 mm ² , AWG 24...AWG 12) with cable end input Screw terminals 0.5...5.26 mm ² , AWG 20...AWG 10) with cable end output Screw terminals 0.2...3.3 mm ² , AWG 24...AWG 12) without cable end input Screw terminals 0.5...8.26 mm ² , AWG 20...AWG 8) without cable end output Forked type tag connectors 9.2 x 4 mm input Ring lugs 9.2 x 4 mm input Forked type tag connectors 11.7 x 4.5 mm output Ring lugs 11.7 x 4.5 mm output |
| Thermal resistance | 0.3 °C/W junction to case |
| Thermal pad impedance | 0.48 °C-in ² /W at 25 psi |
| LED indicator | LED, green input |
| IP degree of protection | IP20 |
| Safety reliability data | MTTFd = 1875.9 years B10d = 1731395 |
| Net Weight | 3.15 oz (89.2 g) |
| Device presentation | Complete product |

Environment

| | |
|---------------------------------------|--|
| Ambient air temperature for operation | -40...176 °F (-40...80 °C) |
| Ambient air temperature for storage | -40...257 °F (-40...125 °C) |
| Pollution degree | 2 |
| Overvoltage category | III |
| Product certifications | CSA EAC REACH CE UL RoHS |
| Marking | CE CSA UL EAC |
| Standards | CSA C22.2 No 14-13 EN/IEC 62314 EN/IEC 60950-1 UL 508 |

Ordering and shipping details

| | |
|-----------------------|-----------------------------------|
| Category | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule | CP2 |
| GTIN | 00785901397106 |
| Nbr. of units in pkg. | 30 |
| Package weight(Lbs) | 30 lb(US) (13.61 kg) |
| Returnability | No |

| | |
|-------------------|----|
| Country of origin | MX |
|-------------------|----|

Packing Units

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|------------------|----------|
| Package 1 Height | 0.380 dm |
| Package 1 width | 0.480 dm |
| Package 1 Length | 0.650 dm |

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 |

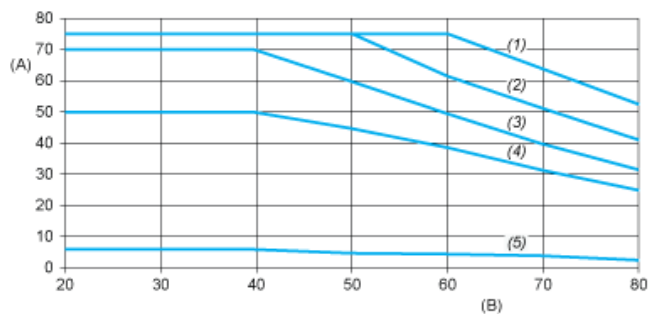
Dimensions

mm
in.



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

Derating Curves



- A : Load Current (Arms)
- B : Ambient Temperature (°C)
- (1) For Heatsink SSRHP02
- (2) For Heatsink SSRHP05
- (3) For Heatsink SSRHP07
- (4) For Heatsink SSRHD10
- (5) No Heatsink