

SSP1A490BD

Harmony, Solid state relay, 90 A, DIN rail mount, zero voltage switching, input 4...32 V DC, output 48...660 V AC



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

Price*: 79.83 USD



Main

| | |
|---------------------------|--------------------------------------|
| Range of Product | Harmony Solid State Relays |
| Product or Component Type | Solid state relay up to 125 A |
| Device short name | SSP1 |
| Mounting Support | Panel |
| Phase | 1 phase |
| Line Rated Current | 90 A |
| Solid state output type | Zero voltage switching SCR output |
| Output switching mode | Zero voltage switching |

Complementary

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|-------------------------------------|--|
| [Uc] control circuit voltage | 4...32 V DC |
| Minimum switching voltage | 4 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 limits | 7...12 mA |
| Output voltage | 48...660 V AC |
| Load current | 0.15...90 A |
| Absolute maximum voltage | 1200 V |
| Surge current | 1200 A 16.6 ms |
| Maximum I ² t for fusing | 5976 A ² .S for 8.33 ms at 60 Hz 6560 A ² .S for 10 ms at 50 Hz |
| Protection device type | Type 1 - 63 A miniature circuit breaker (MCB) B Type 2 - 50 A miniature circuit breaker (MCB) B |
| 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 |
| Cos phi | 0.5 (with maximum load) |

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| Maximum Horse Power Rating | 1.5 Hp 120 V AC 3 Hp 240 V AC 7.5 Hp 480 V AC |
| Insulation resistance | 1000 MOhm at 500 V DC |
| Capacitance unbalance | 8 PF for input/output |
| Dielectric strength | 4 KV AC for input/output 4 KV AC for 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 for input 2...2.2 N.m for 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 | 0.27 °C/W junction to case |
| Local signalling | 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

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|---------------------------------------|--|
| 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 | UL CSA EAC CE |
| Marking | CSA EAC UL CE |
| Standards | CSA C22.2 No 14-13 UL 508 EN/IEC 62314 EN/IEC 60950-1 |

Ordering and shipping details

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|-----------------------|-----------------------------------|
| Category | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule | CP2 |
| GTIN | 03606485441900 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 3.53 Oz (100 g) |
| Returnability | No |
| Country of origin | MX |

Packing Units

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|------------------------|------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 1.50 In (3.8 cm) |
| Package 1 width | 1.89 In (4.8 cm) |
| Package 1 Length | 2.64 In (6.7 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 |

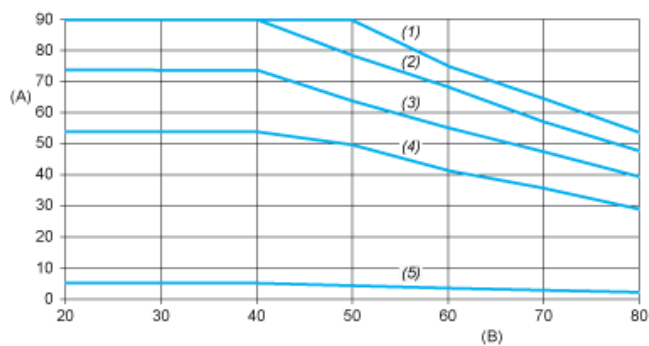
Dimensions

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

Product Life Status : **Commercialised**