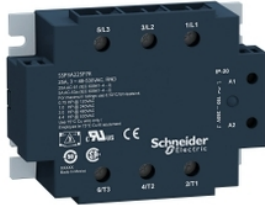


SSP3A250BDR

Harmony, Solid state relay, 50 A, panel mount, random switching, input 4...32 V DC, output 48...530 V AC



Main

| | |
|---------------------------|------------------------------|
| Range of Product | Harmony Solid State Relays |
| Product or Component Type | Solid state relay up to 50 A |
| Device short name | SSP |
| Mounting Support | Panel |
| Number of phases | 3 phase |
| Line Rated Current | 50 A |
| Solid state output type | Random voltage switching |
| Output switching mode | Random voltage switching |

Complementary

| | |
|-------------------------------------|---|
| Control Type | Without test button |
| [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 | 8.33 ms (turn-off) 0.1 ms (turn-on) |
| Input current | 24...35 mA |
| Output voltage | 48...530 V AC |
| Load current | 0.1...50 A |
| Transient overvoltage | 1200 V |
| Surge current | 715 A 20 ms 750 A 16.6 ms 150 A 1 s |
| Maximum I ² t for fusing | 2520 A ² .S for 10 ms at 50 Hz 2320 A ² .s for 8.3 ms at 60 Hz |
| Maximum leakage current | 3 mA off-state |
| Maximum voltage drop | <1.35 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 104 °F (40 °C) 120 V AC 3 Hp 104 °F (40 °C) 240 V AC 7.5 Hp 104 °F (40 °C) 480 V AC 8.8 hp 104 °F (40 °C) 530 V AC |
| Motor power kW | 1.11 KW 104 °F (40 °C) 120 V AC 2.22 KW 104 °F (40 °C) 240 V AC 5.55 KW 104 °F (40 °C) 480 V AC 6.47 kW 104 °F (40 °C) 530 V AC |
| Insulation resistance | >= 1000 MOhm at 500 V DC |
| Maximum capacitance | 8 pF for input/output |
| Dielectric strength | 4 KV AC for input/output 4 kV AC for input or output to case |
| Tightening torque | 0.9...1.1 N.m for input 1.7...2.2 N.m for output |
| Connections - terminals | Screw terminals 1 x 0.2...1 x 2.5 mm ² , AWG 24...AWG 14) input Screw terminals 1 x 1.5...1 x 10 mm ² , AWG 16...AWG 8) output |
| Thermal resistance | 0.12 °C/W |
| LED indicator | LED, green input |

| | |
|-------------------------|-----------------------|
| IP degree of protection | IP20 |
| Net Weight | 0.53 lb(US) (0.24 kg) |
| Width | 3.99 in (101.3 mm) |
| Height | 3.14 in (79.7 mm) |
| Depth | 1.39 in (35.4 mm) |
| Device presentation | Complete product |

Environment

| | |
|---------------------------------------|---------------------------------------|
| Flame retardance | V0 conforming to UL 94 |
| 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 UL |
| Marking | CE |
| Standards | IEC 60950-1 IEC 62314 IEC 61000 |

Ordering and shipping details

| | |
|-----------------------|---------------------------------|
| Category | 22375-INTERFACE MODULE(ABA,R,S) |
| Discount Schedule | CP2 |
| GTIN | 3606480579943 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 9.70 oz (275.0 g) |
| Returnability | No |
| Country of origin | MX |

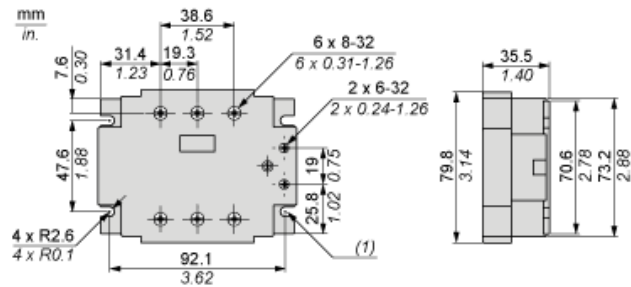
Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 1.69 in (4.3 cm) |
| Package 1 width | 3.46 in (8.8 cm) |
| Package 1 Length | 4.84 in (12.3 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 27 |
| Package 2 Weight | 17.21 lb(US) (7.808 kg) |
| Package 2 Height | 5.91 in (15.0 cm) |
| Package 2 width | 11.81 in (30.0 cm) |
| Package 2 Length | 15.75 in (40.0 cm) |

Offer Sustainability

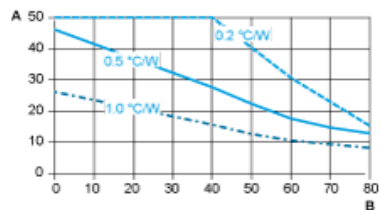
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive 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



(1) 4 Mounting slots

Derating Curves



A : Load Current (Amperes)
B : Ambient Temperature (°C)