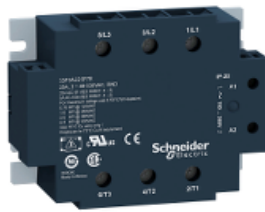


SSP3A225BDRT

Solid state panel mount relay, 25 A, random switching, thermal pad, input 4...32 V DC, output 48...530 V AC



Main

| | |
|---------------------------------|--------------------------|
| Range of product | Harmony Relay |
| Product or component type | Solid state relay |
| Provided accessory | Thermal interface |
| Device short name | SSP |
| Mounting support | Panel |
| Number of phases | 3 phases |
| Contacts type and configuration | 3 NO |
| Solid state output type | 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...25 A |
| Transient overvoltage | 1200 V |
| Surge current | 275 A 20 ms 300 A 16.6 ms 85 A 1 s |
| Maximum I ² t for fusing | 380 A ² .s 10 ms 50 Hz 370 A ² .s 8.3 ms 60 Hz |
| Maximum leakage current | 3 mA off-state |

| | |
|-------------------------|---|
| Maximum voltage drop | <1.35 V on-state |
| DV/Dt | 500 V/ μ s off-state at maximum voltage |
| Power factor | 0.5 with maximum load) |
| Motor controller rating | 0.75 hp 104 °F (40 °C) 120 V AC 1 hp 104 °F (40 °C) 240 V AC 3 hp 104 °F (40 °C) 480 V AC 4.4 hp 104 °F (40 °C) 530 V AC |
| Motor power kW | 0.56 kW 104 °F (40 °C) 120 V AC 0.74 kW 104 °F (40 °C) 240 V AC 2.22 kW 104 °F (40 °C) 480 V AC 3.24 kW 104 °F (40 °C) 530 V AC |
| Insulation resistance | >= 1000 MOhm 500 V DC |
| Maximum capacitance | 8 pF input/output |
| Dielectric strength | 4 kV AC input/output 4 kV AC input or output to case |
| Tightening torque | 0.9...1.1 N.m input 1.7...2.2 N.m 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 | 0.24 °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 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 RoHS |
| Marking | CE |
| Standards | IEC 61000 IEC 62314 IEC 60950-1 |

Packing Units

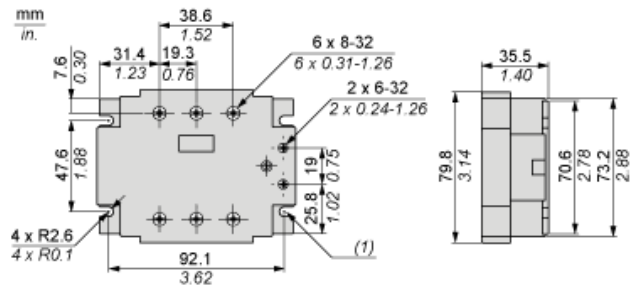
| | |
|------------------|------------------------|
| Package 1 Weight | 0.90 lb(US) (0.410 kg) |
| Package 1 Height | 0.400 dm |
| Package 1 width | 0.800 dm |
| Package 1 Length | 1.200 dm |

Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| 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 |

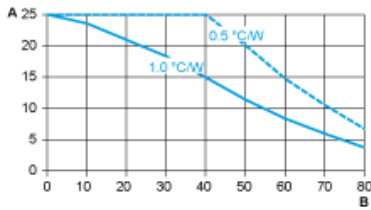
| | |
|--------------------------|---|
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

Dimensions



(1) 4 Mounting slots

Derating Curves



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