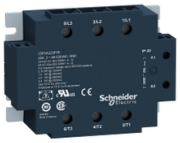
# Product data sheet

Specifications



## Solid state panel mount relay, 25 A, random switching, thermal pad, input 18…36 V AC, output 48…530 V AC

SSP3A225B7RT

Discontinued

Discontinued on: Oct 20, 2020

## Main

| | |
|---|---|
| **Range of product** | Harmony Relay |
| **Provided accessory** | Thermal interface |
| **Product or component type** | Solid state relay |
| **Device short name** | SSP |
| **Mounting support** | Panel |
| **Number of phases** | 3 phases |
| **Contacts type and conifguration** | 3 NO |
| **Solid state output type** | Random voltage switching |

## Complementary

| | |
|---|---|
| **test button** | Without test button |
| **Minimum switching voltage** | 18 V AC turn-on |
| **Maximum switching voltage** | 2 V AC turn-off |
| **Response time** | 20 ms (turn-on)<br>30 ms (turn-off) |
| **Input current** | 15…20 mA |
| **Load current** | 0.1…25 A |
| **Transient overvoltage** | 1200 V |
| **Surge current** | 275 A for 20 ms<br>300 A for 16.6 ms<br>85 A for 1 s |
| **Maximum I²t for fusing** | 380 A².s for 10 ms at 50 Hz<br>370 A².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** | 0.75 hp 40 °C 120 V AC<br>1 hp 40 °C 240 V AC<br>3 hp 40 °C 480 V AC<br>4.4 hp 40 °C 530 V AC |
| **Motor power kW** | 0.56 kW at 40 °C 120 V AC<br>0.74 kW at 40 °C 240 V AC<br>2.22 kW at 40 °C 480 V AC<br>3.24 kW at 40 °C 530 V AC |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications



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| | |
|---|---|
| **Insulation resistance** | >= 1000 MOhm at 500 V DC |
| **Maximum capacitance** | 8 pF for input/output |
| **Dielectric strength** | 4 kV AC for input/output<br>4 kV AC for input or output to case |
| **Tightening torque** | 0.9...1.1 N.m for input<br>1.7...2.2 N.m for output |
| **Connections - terminals** | Screw terminals: 1 x 0.2...1 x 2.5 mm², (AWG 24...AWG 14) for input<br>Screw terminals: 1 x 1.5...1 x 10 mm², (AWG 16...AWG 8) for output |
| **Thermal resistance** | 0.24 °C/W |
| **LED indicator** | LED, green for input |
| **IP degree of protection** | IP20 |
| **Net weight** | 0.24 kg |
| **Width** | 101.3 mm |
| **Height** | 79.7 mm |
| **Depth** | 35.4 mm |
| **Device presentation** | Complete product |

## Environment

| | |
|---|---|
| **Flame retardance** | V0 conforming to UL 94 |
| **Ambient air temperature for operation** | -40…80 °C |
| **Ambient air temperature for storage** | -40…125 °C |
| **pollution degree** | 2 |
| **Overvoltage category** | III |
| **Product certifications** | UL<br>CSA |
| **Marking** | CE |
| **Standards** | IEC 62314<br>IEC 61000<br>IEC 60950-1 |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |



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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| SCIP Number | 134201bc-d293-4667-9cca-10a7f11729e0 |
| 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 |

## Use Again

### Repack and remanufacture

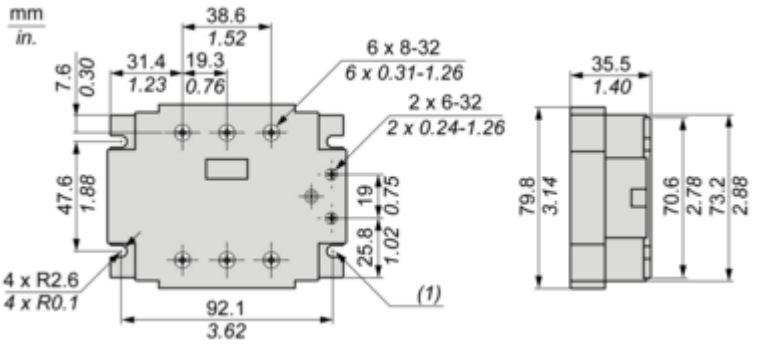
| | |
|---|---|
| Circularity Profile | End of Life Information |



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Dimensions Drawings

## Dimensions



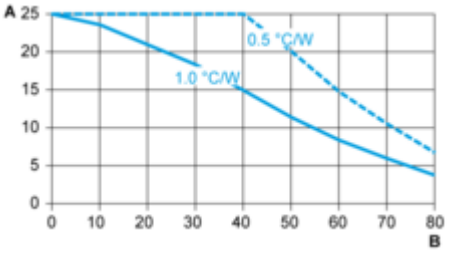

**(1)** 4 Mounting slots



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## Performance Curves

### Derating Curves




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



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