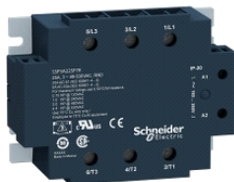


## SSP3A250B7T

solid state relay - panel-input 18-36VAC, output 48-530VAC,50A-Thermal Interface



### Main

|                               |                        |
|-------------------------------|------------------------|
| Range of product              | Zelio Relay            |
| Product or component type     | Solid state relay      |
| Provided equipment            | Thermal interface      |
| Device short name             | SSP                    |
| Mounting support              | Panel                  |
| Network number of phases      | 3 phases               |
| Contacts type and composition | 3 NO                   |
| Solid state output type       | Zero voltage switching |

### Complementary

|                                     |                                                                                                                                                                       |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control type                        | Without test button                                                                                                                                                   |
| [Uc] control circuit voltage        | 18...36 V AC                                                                                                                                                          |
| Minimum switching voltage           | 18 V AC turn-on                                                                                                                                                       |
| Maximum switching voltage           | 2 V AC turn-off                                                                                                                                                       |
| Response time                       | 30 ms turn-off<br>20 ms turn-on                                                                                                                                       |
| Input current limits                | 15...20 mA                                                                                                                                                            |
| Output voltage                      | 48...530 V AC                                                                                                                                                         |
| Load current                        | 0.1...50 A                                                                                                                                                            |
| Absolute maximum voltage            | 1200 V                                                                                                                                                                |
| Surge current                       | <= 715 A for 20 ms<br><= 750 A for 16.6 ms<br><= 150 A for 1 s                                                                                                        |
| Maximum I <sup>2</sup> t for fusing | 2520 A <sup>2</sup> .s for 10 ms at 50 Hz half cycle<br>2320 A <sup>2</sup> .s for 8.3 ms at 60 Hz half cycle                                                         |
| Leakage current                     | <= 3 mA off-state                                                                                                                                                     |
| Voltage drop                        | <= 1.35 V on-state                                                                                                                                                    |
| DV/dt                               | 500 V/μs off-state at maximum voltage                                                                                                                                 |
| Cos phi                             | >= 0.5 with maximum load                                                                                                                                              |
| Motor power hp                      | 1.5 hp at 40 °C 120 V AC<br>3 hp at 40 °C 240 V AC<br>7.5 hp at 40 °C 480 V AC<br>8.8 hp at 40 °C 530 V AC                                                            |
| Motor power kW                      | 1.11 kW at 40 °C 120 V AC<br>2.22 kW at 40 °C 240 V AC<br>5.55 kW at 40 °C 480 V AC<br>6.47 kW at 40 °C 530 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<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 mm <sup>2</sup> , (AWG 24...AWG 14) for input<br>Screw terminals : 1 x 1.5...1 x 10 mm <sup>2</sup> , (AWG 16...AWG 8) for output |
| Thermal resistance                  | 0.12 °C/W                                                                                                                                                             |
| Local signalling                    | LED, green for input                                                                                                                                                  |
| IP degree of protection             | IP20                                                                                                                                                                  |
| Product weight                      | 0.36 kg                                                                                                                                                               |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|        |          |
|--------|----------|
| Width  | 101.3 mm |
| Height | 79.7 mm  |
| Depth  | 35.4 mm  |

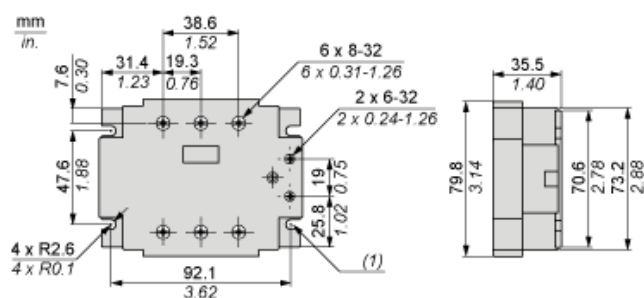
## Environment

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| 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                | CSA<br>RoHS<br>UL<br>REACH            |
| marking                               | CE                                    |
| standards                             | IEC 61000<br>IEC 60950-1<br>IEC 62314 |

## Offer Sustainability

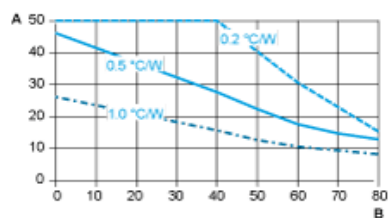
|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                 |
| RoHS (date code: YYWW)           | Compliant - since 1328 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available                                                             |
| Product end of life instructions | Available                                                             |

## Dimensions



(1) 4 Mounting slots

## Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)