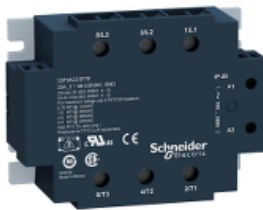


# SSP3A225P7T

Solid state panel mount relay, 25 A, zero voltage switching, thermal pad, input 180...280 V AC, 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         | Zero voltage switching |

## Complementary

|                                     |   |
|-------------------------------------|---|
| Control type                        | Without test button   |
| [Uc] control circuit voltage        | 180...280 V AC  |
| Minimum switching voltage           | 180 V AC turn-on  |
| Maximum switching voltage           | 10 V AC turn-off  |
| Response time                       | 20 ms turn-on)<br>30 ms turn-off)                                       |
| Input current                       | 7...20 mA   |
| Output voltage                      | 48...530 V AC   |
| Load current                        | 0.1...25 A  |
| Transient overvoltage               | 1200 V  |
| Surge current                       | 275 A 20 ms<br>300 A 16.6 ms<br>85 A 1 s                                |
| Maximum I <sup>2</sup> t for fusing | 380 A <sup>2</sup> .s 10 ms 50 Hz<br>370 A <sup>2</sup> .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/ $\mu$ 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<br>1 hp 104 °F (40 °C) 240 V AC<br>3 hp 104 °F (40 °C) 480 V AC<br>4.4 hp 104 °F (40 °C) 530 V AC                       |
| Motor power kW          | 0.56 kW 104 °F (40 °C) 120 V AC<br>0.74 kW 104 °F (40 °C) 240 V AC<br>2.22 kW 104 °F (40 °C) 480 V AC<br>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<br>4 kV AC input or output to case   |
| Tightening torque       | 0.9...1.1 N.m input<br>1.7...2.2 N.m output   |
| Connections - terminals | Screw terminals 1 x 0.2...1 x 2.5 mm <sup>2</sup> , AWG 24...AWG 14) input<br>Screw terminals 1 x 1.5...1 x 10 mm <sup>2</sup> , 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                | UL<br>RoHS<br>CSA                     |
| Marking                               | CE                                    |
| Standards                             | IEC 62314<br>IEC 60950-1<br>IEC 61000 |

## Packing Units

|                  |                        |
|------------------|------------------------|
| Package 1 Weight | 0.92 lb(US) (0.416 kg) |
| Package 1 Height | 0.400 dm               |
| Package 1 width  | 0.850 dm               |
| Package 1 Length | 1.200 dm               |

## Offer Sustainability

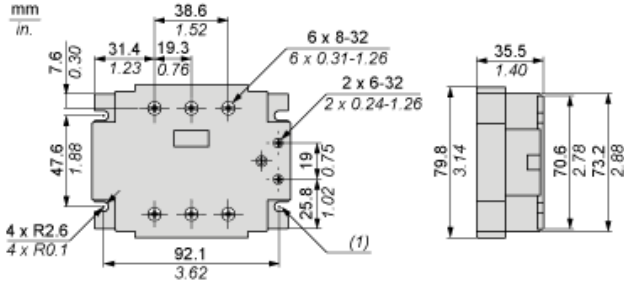
|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>  |

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|                          |   |
|--------------------------|---|
| Environmental Disclosure | <a href="#">Product Environmental Profile</a> |
| Circularity Profile      | <a href="#">End of Life Information</a>       |

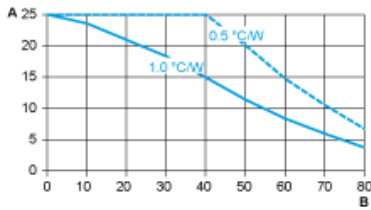
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Dimensions



(1) 4 Mounting slots

Derating Curves



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