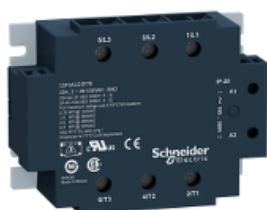


# SSP3A225P7

solid state relay - panel mounting - input 180-280 V AC, output 48-530 V AC, 25A



Price\* : 114.37 GBP



## Main

|                                 |                        |
|---------------------------------|------------------------|
| Range of product                | Harmony Relay          |
| Product or component type       | Solid state relay      |
| 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 for 20 ms<br>300 A for 16.6 ms<br>85 A for 1 s                                  |
| Maximum I <sup>2</sup> t for fusing | 380 A <sup>2</sup> .s for 10 ms at 50 Hz<br>370 A <sup>2</sup> .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                          |
| 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                                                                                                                                      |
| Product 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                | RoHS<br>UL<br>CSA<br>REACH            |
| Marking                               | CE                                    |
| Standards                             | IEC 61000<br>IEC 60950-1<br>IEC 62314 |

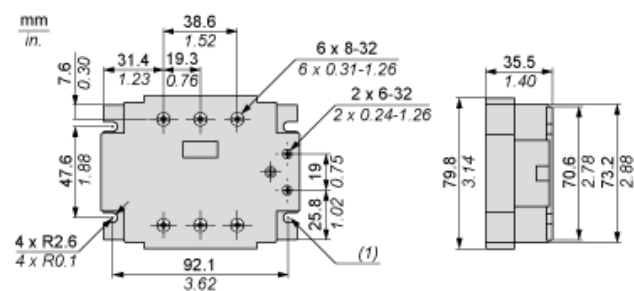
## Offer Sustainability

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                             |
| 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>                                                            |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                     |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                           |

## Contractual warranty

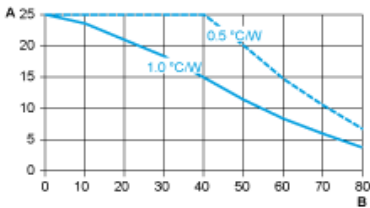
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



(1) 4 Mounting slots

Derating Curves



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