

# SSP3A225B7R

Harmony, Solid state relay, 25 A, panel mount, random switching, input 18...36 V AC, output 48...530 V AC



## Main

|                           |                              |
|---------------------------|------------------------------|
| Range of Product          | Harmony Solid State Relays   |
| Product or Component Type | Solid state relay up to 30 A |
| Device short name         | SSP                          |
| Mounting Support          | Panel                        |
| Number of phases          | 3 phase                      |
| Line Rated Current        | 25 A                         |
| Solid state output type   | Random voltage switching     |
| Output switching mode     | Random 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                       | 20 ms (turn-on)<br>30 ms (turn-off)   |
| Input current                       | 15...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 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 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 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 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  |

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|                         |                       |
|-------------------------|-----------------------|
| 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 conforming to 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<br>UL                             |
| Marking                               | CE                                    |
| Standards                             | IEC 61000<br>IEC 60950-1<br>IEC 62314 |

## Ordering and shipping details

|                       |                                 |
|-----------------------|---------------------------------|
| Category              | 22375-INTERFACE MODULE(ABA,R,S) |
| Discount Schedule     | CP2                             |
| GTIN                  | 3606480579912                   |
| Nbr. of units in pkg. | 1                               |
| Package weight(Lbs)   | 9.81 oz (278.0 g)               |
| Returnability         | No                              |
| Country of origin     | MX                              |

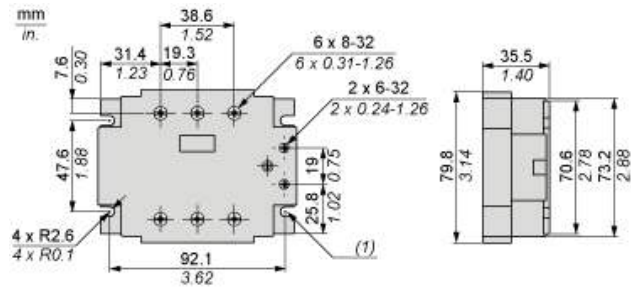
## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Package 1 Height             | 1.57 in (4 cm)           |
| Package 1 width              | 3.31 in (8.4 cm)         |
| Package 1 Length             | 4.65 in (11.8 cm)        |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 27                       |
| Package 2 Weight             | 26.97 lb(US) (12.232 kg) |
| Package 2 Height             | 5.91 in (15 cm)          |
| Package 2 width              | 11.81 in (30 cm)         |
| Package 2 Length             | 15.75 in (40 cm)         |

## Offer Sustainability

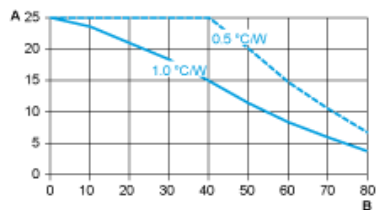
|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <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>   |

Dimensions



(1) 4 Mounting slots

Derating Curves



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