

# SSM3A325P7

Harmony, Solid state modular relay, 25 A, DIN rail mount, zero voltage switching, input 180...280 V AC, output 48...600 V AC



## Main

|                           |                              |
|---------------------------|------------------------------|
| Range of Product          | Harmony Solid State Relays   |
| Product or Component Type | Solid state relay up to 30 A |
| Device short name         | SSM3                         |
| Number of Channels        | 3                            |
| Number of phases          | 3 phase                      |
| Output switching mode     | Zero voltage switching       |

## Complementary

|                                     |                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting Support                    | Symmetrical DIN rail                                                                                                                      |
| Line Rated Current                  | 25 A                                                                                                                                      |
| Output voltage                      | 48...600 V AC                                                                                                                             |
| [Uc] control circuit voltage        | 180...280 V AC                                                                                                                            |
| Tightening torque                   | 0.6...0.7 N.m for input<br>1.36...1.7 N.m for output                                                                                      |
| Connections - terminals             | Screw terminals 0.2...1.3 mm <sup>2</sup> , AWG 24...AWG 16) input<br>Screw terminals 1.3...5.3 mm <sup>2</sup> , AWG 16...AWG 10) output |
| Maximum capacitance                 | 8 pF for input/output                                                                                                                     |
| Insulation resistance               | 1000 MOhm                                                                                                                                 |
| Local signalling                    | For input status LED (green)                                                                                                              |
| Switching voltage                   | 10 V turn-off<br>180 V turn-on                                                                                                            |
| Input current                       | 19...24 mA                                                                                                                                |
| Solid state output type             | Zero voltage switching                                                                                                                    |
| Load current                        | 0.1...25 A                                                                                                                                |
| Transient overvoltage               | 1100 V                                                                                                                                    |
| Surge current                       | 286 A 20 ms 50 Hz<br>300 A 16.6 ms 60 Hz                                                                                                  |
| Maximum voltage drop                | <1.35 V on-state                                                                                                                          |
| Maximum Horse Power Rating          | 1 Hp 104 °F (40 °C) 240 V AC<br>2 Hp 104 °F (40 °C) 380 V AC<br>3 hp 104 °F (40 °C) 480 V AC                                              |
| Maximum I <sup>2</sup> t for fusing | 410 A <sup>2</sup> .S for 10 ms at 50 Hz<br>374 A <sup>2</sup> .s for 8.3 ms at 60 Hz                                                     |
| Maximum leakage current             | 0.25 mA off-state                                                                                                                         |
| DV/dt                               | 500 V/μs off-state at maximum voltage                                                                                                     |
| Response time                       | 30 ms (turn-off)<br>20 ms (turn-on)                                                                                                       |
| Power factor                        | 0.5 (with maximum load)                                                                                                                   |
| Overvoltage category                | III                                                                                                                                       |
| Net Weight                          | 1.63 lb(US) (0.74 kg)                                                                                                                     |

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## Environment

|                                       |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| Dielectric strength                   | 4 KV AC for input/output<br>4 kV AC for input or output to case |
| Pollution degree                      | 2                                                               |
| Standards                             | UL 508<br>IEC 60950-1<br>CSA C22.2 No 14                        |
| Product Certifications                | CSA<br>UL<br>EAC                                                |
| Marking                               | CSA<br>CE<br>EAC<br>UL                                          |
| IP degree of protection               | IP20                                                            |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C)                                       |
| Ambient Air Temperature for Storage   | -40...212 °F (-40...100 °C)                                     |

## Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule     | CP2                               |
| GTIN                  | 3606485441702                     |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 28.64 oz (812 g)                  |
| Returnability         | Yes                               |
| Country of origin     | MX                                |

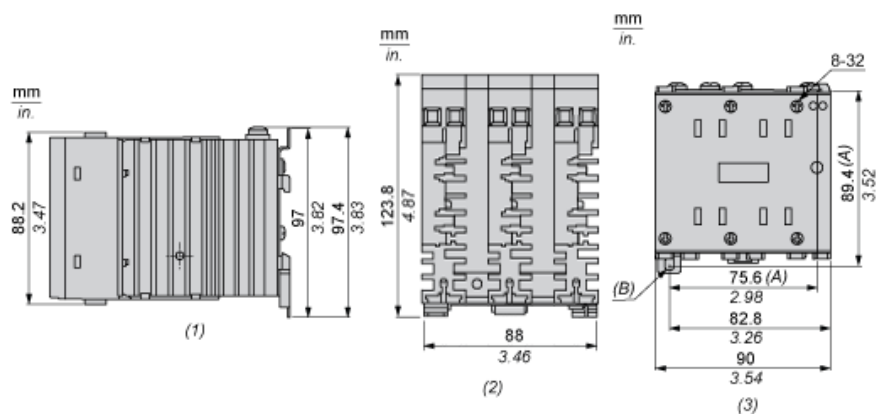
## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 5.51 in (14 cm)        |
| Package 1 width              | 4.33 in (11 cm)        |
| Package 1 Length             | 4.33 in (11 cm)        |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 5                      |
| Package 2 Weight             | 9.85 lb(US) (4.467 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

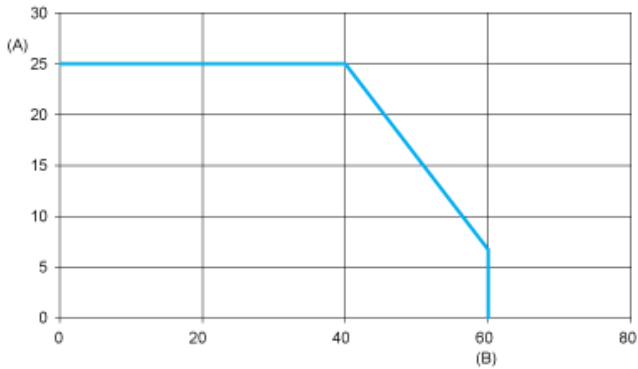
|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) Side view
- (2) Top view
- (3) Front view
- (A) Mounting hole
- (B) Mounting hole / slot

Derating Curves



A : Output Current (Arms)  
B : Ambient Temperature (°C)

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