

## Product data sheet

### Characteristics

# SSM2A36BD

Harmony Solid State Relays, Solid state modular relay, 6 A, zero voltage switching, input 4...32 V DC, output 48...600 V AC



#### Main

|                           |                   |
|---------------------------|-------------------|
| Range of product          | Harmony Relay     |
| Product or component type | Solid state relay |
| Device short name         | SSM               |
| Number of channels        | 2                 |
| Number of phases          | 2 phases          |

#### Complementary

|                                     |   |
|-------------------------------------|---|
| Mounting support                    | Symmetrical DIN rail  |
| [In] rated current                  | 6 A   |
| Output voltage                      | 48...600 V AC   |
| [Uc] control circuit voltage        | 4...32 V DC   |
| Contacts type and configuration     | 2 NO  |
| Tightening torque                   | 0.5...0.8 N.m for input<br>0.5...0.8 N.m for output   |
| Connections - terminals             | Screw terminals: 1 x 0.3...1 x 1.5 mm <sup>2</sup> , (AWG 22...AWG 16) for input<br>Screw terminals: 1 x 0.3...1 x 2.5 mm <sup>2</sup> , (AWG 22...AWG 14) for output |
| Maximum capacitance                 | 10 pF for input/output  |
| Insulation resistance               | 1000 MOhm at 500 V DC   |
| Local signalling                    | LED (green) for input status  |
| Minimum switching voltage           | 4 V DC turn-on  |
| Maximum switching voltage           | 1 V DC turn-off   |
| Input current                       | 14...16.87 mA   |
| Solid state output type             | Zero voltage switching<br>SCR output  |
| Load current                        | 0.15...6 A  |
| Transient overvoltage               | 1200 V  |
| Surge current                       | 715 A for 16.6 ms<br>750 A for 20 ms  |
| Maximum voltage drop                | <1.3 V on-state   |
| Motor power hp                      | 0.16 hp 40 °C 240 V AC  |
| Maximum I <sup>2</sup> t for fusing | 2560 A <sup>2</sup> .S for 10 ms at 50 Hz<br>2330 A <sup>2</sup> .s for 8.33 ms at 60 Hz  |
| Maximum leakage current             | 0.25 mA off-state   |
| DV/dt                               | 500 V/μs off-state at maximum voltage   |
| Response time                       | 0.5 cycle (turn-on)<br>0.5 cycle (turn-off)   |
| Power factor                        | 0.5 (with maximum load)   |
| Overvoltage category                | III   |

|            |         |
|------------|---------|
| Width      | 18 mm   |
| Height     | 90.3 mm |
| Depth      | 84.4 mm |
| Net weight | 0.09 kg |

## Environment

|                                       |   |
|---------------------------------------|---|
| Flame retardance                      | V0 conforming to UL 94  |
| Dielectric strength                   | 2.5 kV AC for input/output<br>2.5 kV AC for input or output to case |
| Pollution degree                      | 2   |
| Standards                             | IEC 62314<br>IEC 60950-1<br>IEC 61000                               |
| Product certifications                | CSA[RETURN]UL   |
| Marking                               | CE  |
| IP degree of protection               | IP20  |
| Ambient air temperature for operation | -30...80 °C   |
| Ambient air temperature for storage   | -30...100 °C  |

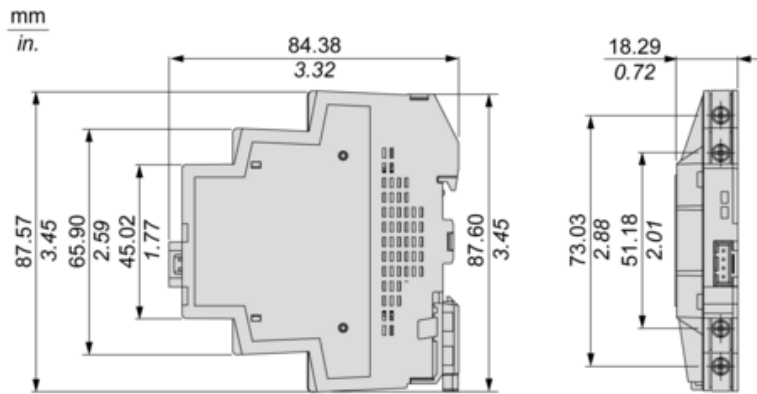
## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Height             | 8.8 cm |
| Package 1 Width              | 2 cm   |
| Package 1 Length             | 9.3 cm |
| Package 1 Weight             | 102 g  |

## 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) |
| Mercury free               | Yes  |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                     |
| RoHS exemption information | <a href="#">Yes</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>              |
| Circularity Profile        | <a href="#">End Of Life Information</a>                    |

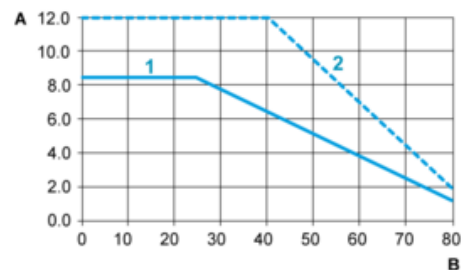
## Dimensions



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Derating Curves

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A : Load Current (Amperes)

B : Ambient Temperature (°C)

1 : Multiple units, no minimum spacing between components

2 : Installed single unit, distance to adjacent components more than 18 mm