

# SSM1A16P7

solid state relay - DIN rail mount - input 200-265 V AC, output 24-280 V AC ,6A



Price\* : 28.64 GBP



## Main

|                           |                   |
|---------------------------|-------------------|
| Range of product          | Harmony Relay     |
| Product or component type | Solid state relay |
| Device short name         | SSM               |
| Number of channels        | 1                 |
| Number of phases          | 1 phase           |

## Complementary

|                                 |                                                                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting support                | Symmetrical DIN rail                                                                                                                                                  |
| [In] rated current              | 6 A                                                                                                                                                                   |
| Output voltage                  | 24...280 V AC                                                                                                                                                         |
| [Uc] control circuit voltage    | 200...265 V AC                                                                                                                                                        |
| Contacts type and configuration | 1 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)input status:                                                                                                                                              |
| Minimum switching voltage       | 200 V AC turn-on                                                                                                                                                      |
| Maximum switching voltage       | 90 V AC turn-off                                                                                                                                                      |
| Input current                   | 2.5...3.5 mA                                                                                                                                                          |
| Solid state output type         | Zero voltage switching<br>SCR output                                                                                                                                  |
| Load current                    | 0.15...6 A                                                                                                                                                            |
| Transient overvoltage           | 600 V                                                                                                                                                                 |
| Surge current                   | 285 A for 16.6 ms<br>300 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 | 410 A <sup>2</sup> .s for 10 ms at 50 Hz<br>375 A <sup>2</sup> .s for 8.33 ms at 60 Hz |
| Maximum leakage current             | 0.1 mA off-state                                                                       |
| DV/Dt                               | 500 V/μs off-state at maximum voltage                                                  |
| Response time                       | 0.5 cycle (turn-on)<br>30 ms (turn-off)                                                |
| Power factor                        | 0.5 (with maximum load)                                                                |
| Overvoltage category                | III                                                                                    |
| Width                               | 11 mm                                                                                  |
| Height                              | 90.3 mm                                                                                |
| Depth                               | 83.7 mm                                                                                |
| Product weight                      | 0.05 kg                                                                                |

## Environment

|                                       |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| Flame retardance                      | V0 conforming to UL 94                                          |
| Dielectric strength                   | 4 kV AC for input/output<br>4 kV AC for input or output to case |
| Pollution degree                      | 2                                                               |
| Standards                             | IEC 61000<br>IEC 62314<br>IEC 60950-1                           |
| Product certifications                | UL<br>CSA<br>REACH                                              |
| Marking                               | CE                                                              |
| IP degree of protection               | IP20                                                            |
| Ambient air temperature for operation | -30...80 °C                                                     |
| Ambient air temperature for storage   | -30...100 °C                                                    |

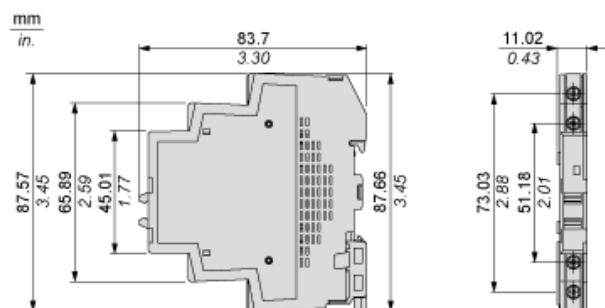
## Offer Sustainability

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| 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>                                                           |

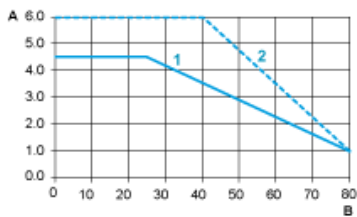
## Contractual warranty

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

## Dimensions



Derating Curves



- 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 11 mm