



## Main

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Range of product                | Harmony Relay                        |
| Product or component type       | Solid state relay                    |
| Device short name               | SSP1                                 |
| Mounting support                | Panel                                |
| Number of phases                | 1 phase                              |
| Contacts type and configuration | 1 NO                                 |
| Line Rated Current              | 50 A                                 |
| Solid state output type         | Zero voltage switching<br>SCR output |

## Complementary

|  |   |
|--|---|
| [Uc] control circuit voltage           | 4...32 V DC   |
| Minimum switching voltage              | 4 V DC turn-on  |
| Maximum switching voltage              | 1 V DC turn-off   |
| Response time                          | 0.5 cycle turn-on)<br>0.5 cycle turn-off)   |
| Input current                          | 7...12 mA   |
| Output voltage                         | 48...660 V AC   |
| Load current                           | 0.15...50 A   |
| Transient overvoltage                  | 1200 V  |
| Surge current                          | 625 A 16.6 ms   |
| Maximum I <sup>2</sup> t for fusing    | 1770 A <sup>2</sup> .S 10 ms 50 Hz<br>1629 A <sup>2</sup> .s 8.33 ms 60 Hz  |
| Co-ordination type                     | Type 1 - 40 A miniature circuit breaker (MCB) B<br>Type 2 - 32 A miniature circuit breaker (MCB) B  |
| Maximum leakage current                | 1 mA off-state  |
| Maximum voltage drop                   | <1.15 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 120 V AC<br>2 Hp 240 V AC<br>5 hp 480 V AC  |
| Insulation resistance                  | 1000 MOhm 500 V DC  |
| Maximum capacitance                    | 8 pF input/output   |
| Dielectric strength                    | 4 KV AC input/output<br>4 kV AC input or output to case   |
| [Uimp] rated impulse withstand voltage | 6 KV output to case<br>6 kV input to output   |
| Tightening torque                      | 1.5...1.7 N.m input<br>2...2.2 N.m output   |
| Connections - terminals                | Screw terminals 0.2...3.3 mm <sup>2</sup> , AWG 24...AWG 12) with cable end input<br>Screw terminals 0.5...5.26 mm <sup>2</sup> , AWG 20...AWG 10) with cable end output<br>Screw terminals 0.2...3.3 mm <sup>2</sup> , AWG 24...AWG 12) without cable end input<br>Screw terminals 0.5...8.26 mm <sup>2</sup> , AWG 20...AWG 8) without cable end output<br>Forked type tag connectors 9.2 x 4 mm input<br>Ring lugs 9.2 x 4 mm input<br>Forked type tag connectors 11.7 x 4.5 mm output<br>Ring lugs 11.7 x 4.5 mm output |
| Thermal resistance                     | 0.45 °C/W junction to case  |

|                         |  |
|-------------------------|--|
| LED indicator           | LED, green input                       |
| IP degree of protection | IP20                                   |
| Safety reliability data | B10d = 1731395<br>MTTFd = 1875.9 years |
| Net Weight              | 3.15 oz (89.2 g)                       |
| Device presentation     | Complete product                       |

## Environment

|                                       |  |
|---------------------------------------|--|
| 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<br>RoHS<br>EAC<br>CE                                 |
| Marking                               | UL<br>CSA<br>EAC<br>CE   |
| Standards                             | CSA C22.2 No 14-13<br>EN/IEC 60950-1<br>EN/IEC 62314<br>UL 508 |

## Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule     | CP2                               |
| GTIN                  | 00785901506942                    |
| Nbr. of units in pkg. | 30                                |
| Package weight(Lbs)   | 0.2 lb(US) (0.09 kg)              |
| Returnability         | No                                |
| Country of origin     | MX                                |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Height | 0.380 dm |
| Package 1 width  | 0.480 dm |
| Package 1 Length | 0.670 dm |

## Offer Sustainability

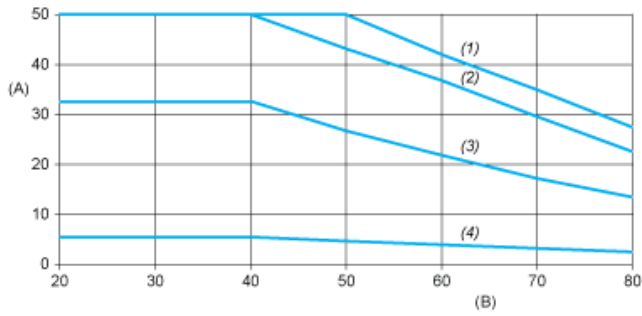
|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer 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) Front view
- (2) Side view
- (3) Bottom view

Derating Curves



- A : Load Current (Arms)
- B : Ambient Temperature (°C)
- (1) For Heatsink SSRHP07
- (2) For Heatsink SSRHD10
- (3) For Heatsink SSRHP17
- (4) No Heatsink