



## Main

|                               |                                      |
|-------------------------------|--------------------------------------|
| Range of product              | Zelio Relay                          |
| Product or component type     | Solid state relay                    |
| Provided equipment            | Thermal pad                          |
| Device short name             | SSP1                                 |
| Phase                         | 1 phase                              |
| Contacts type and composition | 1 NO                                 |
| Line Rated Current            | 75 A                                 |
| Solid state output type       | SCR output<br>Zero voltage switching |

## Complementary

|                                     |  |
|-------------------------------------|--|
| Control circuit voltage             | 90...280 V AC  |
| Switching voltage                   | $\geq 90$ V AC turn-on<br>$\leq 10$ V AC turn-off  |
| Response time                       | 30 ms turn-off<br>25 ms turn-on  |
| Input current limits                | 5...10 mA  |
| Output voltage                      | 48...660 V   |
| Load current                        | 0.15...75 A  |
| Absolute maximum voltage            | 1200 V   |
| Surge current                       | $\leq 1000$ A for 16.6 ms  |
| Maximum I <sup>2</sup> t for fusing | 4150 A <sup>2</sup> .s for 8.33 ms at 60 Hz half cycle<br>4555 A <sup>2</sup> .s for 10 ms at 50 Hz half cycle     |
| Protection device type              | Type 1 - 50 A miniature circuit breaker (MCB) - curve B<br>Type 2 - 40 A miniature circuit breaker (MCB) - curve B |
| Leakage current                     | $\leq 1$ mA off-state  |
| Voltage drop                        | 1.15 V on-state  |
| DV/Dt                               | 500 V/ $\mu$ s off-state at maximum voltage  |
| Cos phi                             | 0.5 with maximum load  |

|  |   |
|--|---|
| Motor power hp                         | 1.5 hp 120 V AC<br>3 hp 240 V AC<br>7.5 hp 480 V AC   |
| Insulation resistance                  | 1000 MOhm at 500 V DC   |
| Capacitance unbalance                  | 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                | 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<br>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 |
| Thermal resistance                     | 0.3 °C/W junction to case   |
| Thermal impedance                      | 0.48 °C-in <sup>2</sup> /W at 25 psi  |
| Local signalling                       | LED, green input  |
| IP degree of protection                | IP20  |
| Safety reliability data                | B10d = 1731395<br>MTTFd = 1875.9 years  |
| Product weight                         | 89.2 g  |

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

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 1522 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available<br><a href="#">Product Environmental Profile</a>  |
| Product end of life instructions | Available<br><a href="#">End of life manual</a>   |