



## Main

|                               |                        |
|-------------------------------|------------------------|
| Range of product              | Zelio Relay            |
| Product or component type     | Solid state relay      |
| Device short name             | SSP                    |
| Mounting support              | Panel                  |
| Network number of phases      | 3 phases               |
| Contacts type and composition | 3 NO                   |
| Solid state output type       | Zero voltage switching |

## Complementary

|                           |                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------|
| Control type              | Without test button                                                                                         |
| Control circuit voltage   | 90...140 V AC                                                                                               |
| Switching voltage         | $\geq 90$ V AC turn-on<br>$\leq 10$ V AC turn-off                                                           |
| Response time             | 30 ms turn-off<br>20 ms turn-on                                                                             |
| Input current limits      | 7...16 mA                                                                                                   |
| Output voltage            | 48...530 V AC                                                                                               |
| Load current              | 0.1...25 A                                                                                                  |
| Absolute maximum voltage  | 1200 V                                                                                                      |
| Surge current             | $\leq 275$ A for 20 ms<br>$\leq 300$ A for 16.6 ms<br>$\leq 85$ A for 1 s                                   |
| Maximum $I^2t$ for fusing | 380 A <sup>2</sup> .s for 10 ms at 50 Hz half cycle<br>370 A <sup>2</sup> .s for 8.3 ms at 60 Hz half cycle |
| Leakage current           | $\leq 3$ mA off-state                                                                                       |
| Voltage drop              | $\leq 1.35$ V on-state                                                                                      |
| DV/Dt                     | 500 V/ $\mu$ s off-state at maximum voltage                                                                 |
| Cos phi                   | $\geq 0.5$ with maximum load                                                                                |
| Motor power hp            | 0.75 hp at 40 °C 120 V AC                                                                                   |

|                         |                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | 1 hp at 40 °C 240 V AC<br>3 hp at 40 °C 480 V AC<br>4.4 hp at 40 °C 530 V AC                                                                                          |
| Motor power kW          | 0.56 kW at 40 °C 120 V AC<br>0.74 kW at 40 °C 240 V AC<br>2.22 kW at 40 °C 480 V AC<br>3.24 kW at 40 °C 530 V AC                                                      |
| Insulation resistance   | >= 1000 MOhm at 500 V DC                                                                                                                                              |
| Capacitance unbalance   | <= 8 pF for input/output                                                                                                                                              |
| Dielectric strength     | 4 kV AC for input/output<br>4 kV AC for input or output to case                                                                                                       |
| Tightening torque       | 0.9...1.1 N.m for input<br>1.7...2.2 N.m for output                                                                                                                   |
| Connections - terminals | Screw terminals : 1 x 0.2...1 x 2.5 mm <sup>2</sup> , (AWG 24...AWG 14) for input<br>Screw terminals : 1 x 1.5...1 x 10 mm <sup>2</sup> , (AWG 16...AWG 8) for output |
| Thermal resistance      | 0.24 °C/W                                                                                                                                                             |
| Local signalling        | LED, green for input                                                                                                                                                  |
| IP degree of protection | IP20                                                                                                                                                                  |
| Product weight          | 0.36 kg                                                                                                                                                               |
| Width                   | 101.3 mm                                                                                                                                                              |
| Height                  | 79.7 mm                                                                                                                                                               |
| Depth                   | 35.4 mm                                                                                                                                                               |

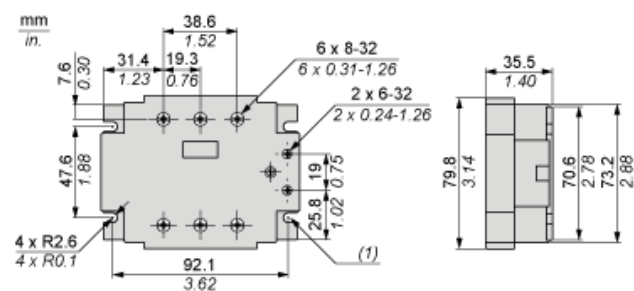
## Environment

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Flame retardance                      | V0 conforming to UL 94                |
| Ambient air temperature for operation | -40...80 °C                           |
| Ambient air temperature for storage   | -40...125 °C                          |
| Pollution degree                      | 2                                     |
| Overvoltage category                  | III                                   |
| Product certifications                | REACH<br>RoHS<br>CSA<br>UL            |
| Marking                               | CE                                    |
| Standards                             | IEC 60950-1<br>IEC 61000<br>IEC 62314 |

## Offer Sustainability

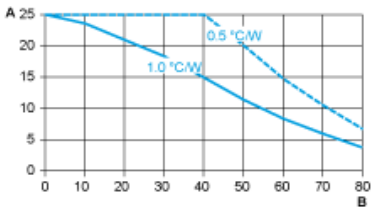
|                                  |                                                                                                                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                                                                                                                     |
| RoHS (date code: YYWW)           | Compliant - since 1328 - 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</a>                                                                                    |
| Product end of life instructions | Available<br> <a href="#">End of life manual</a>                                                                                       |

## Dimensions



(1) 4 Mounting slots

Derating Curves



A : Load Current (Amperes)  
B : Ambient Temperature (°C)