



### Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Provided accessory	Thermal pad
Device short name	SSP1
Mounting support	Panel
Phase	1 phase
Contacts type and configuration	1 NO
Line Rated Current	25 A
Solid state output type	Zero voltage switching 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 0.5 cycle turn-off
Input current	10 mA at 12 V DC
Output voltage	24...300 V AC
Load current	0.15...25 A
Transient overvoltage	600 V
Surge current	$\leq 250$ A for 16.6 ms
Maximum I <sup>2</sup> t for fusing	259 A <sup>2</sup> .s for 8.33 ms at 60 Hz half cycle 258 A <sup>2</sup> .s for 10 ms at 50 Hz half cycle
Co-ordination type	Type 1 - 25 A miniature circuit breaker (MCB) - curve B Type 2 - 20 A miniature circuit breaker (MCB) - curve B
Leakage current	$\leq 1$ mA off-state
Voltage drop	1.15 V on-state

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

DV/Dt	500 V/ $\mu$ s off-state at maximum voltage
Power factor	0.5 with maximum load
Motor controller rating	0.5 hp 120 V AC 1 hp 240 V AC
Insulation resistance	1000 MOhm at 500 V DC
Maximum capacitance	10 pF input/output
Dielectric strength	4 kV AC input/output 4 kV AC input or output to case
[Uimp] rated impulse withstand voltage	6 kV output to case 6 kV input to output
Tightening torque	1.5...1.7 N.m input 2...2.2 N.m output 17.7...19.47 lb.in output 13.27...15.04 lb.in input 0.5...0.6 N.m auxillary terminal 4.4...5.3 lb.in auxillary terminal
Connections - terminals	Forked type tag connectors : 9.2 x 4 mm input Ring lugs : 9.2 x 4 mm input Forked type tag connectors : 11.7 x 4.5 mm output Ring lugs : 11.7 x 4.5 mm output Screw terminals : 0.2...3.3 mm <sup>2</sup> , (AWG 24...AWG 12) with cable end input Screw terminals : 0.5...5.26 mm <sup>2</sup> , (AWG 20...AWG 10) with cable end output Screw terminals : 0.2...3.3 mm <sup>2</sup> , (AWG 24...AWG 12) without cable end input Screw terminals : 0.5...8.26 mm <sup>2</sup> , (AWG 20...AWG 8) without cable end output
Auxiliary/Alarm connection terminal	Screw-type connector, 0.5...1.5 mm <sup>2</sup> (AWG 20...AWG 16) with slotted Philips screwdriver
Thermal resistance	0.8 °C/W junction to case
LED indicator	LED, steady, amber ON status load LED, steady, red open-circuit control input LED, flashing, red load cut-off/short-circuit LED, steady, green ON status control input/test button actuated LED, flashing, amber control input to energise load
Maximum alarm output current	30 mA at 32 V DC
Minimum load current	150 mA
IP degree of protection	IP20
Safety reliability data	MTTFd = 1875.9 years B10d = 1731395
Product weight	3.43 oz (97.1 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 CSA RoHS UL REACH EAC
Marking	CE CSA UL EAC
Standards	EN/IEC 60950-1 UL 508 EN/IEC 62314 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

REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>