



## Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Provided equipment	Thermal pad
Device short name	SSP1
Mounting support	Panel
Phase	1 phase
Contacts type and composition	1 NO
Line Rated Current	40 A
Solid state output type	DC switching Mosfet output

## Complementary

Control circuit voltage	3.5...32 V DC
Switching voltage	<= 1 V DC turn-off >= 3.5 V DC turn-on
Response time	0.1 ms turn-on 0.1 ms turn-off
Input current limits	10...15 mA
Output voltage	1...150 V DC
Load current	0...40 A
Surge current	<= 106 A for 10 ms
Protection device type	Type 2 - 20 A miniature circuit breaker (MCB) - curve B Type 1 - 40 A miniature circuit breaker (MCB) - curve B
Leakage current	<= 0.3 mA off-state
Voltage drop	2.1 V on-state
Insulation resistance	1000 MOhm at 500 V DC
Capacitance unbalance	50 pF for input/output
Dielectric strength	2.5 kV AC input/output 2.5 kV AC input or output to case

[Uimp] rated impulse withstand voltage	2.5 kV output to case
Tightening torque	1.5...1.7 N.m input 2...2.2 N.m output
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
Thermal resistance	0.22 °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	MTTFd = 1875.9 years B10d = 1731395
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	RoHS CE UL EAC CSA REACH
Marking	UL CSA CE EAC
Standards	EN/IEC 62314 CSA C22.2 No 14-13 EN/IEC 60950-1 UL 508

## Offer Sustainability

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