



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	50 A
Solid state output type	SCR output Zero voltage switching

Complementary

Control circuit voltage	90...280 V AC
Switching voltage	≥ 90 V AC turn-on ≤ 10 V AC turn-off
Response time	30 ms turn-off 25 ms turn-on
Input current limits	5...10 mA
Output voltage	48...660 V
Load current	0.15...50 A
Absolute maximum voltage	1200 V
Surge current	≤ 625 A for 16.6 ms
Maximum I ² t for fusing	1770 A ² .s for 10 ms at 50 Hz half cycle 1629 A ² .s for 8.33 ms at 60 Hz half cycle
Protection device type	Type 1 - 40 A miniature circuit breaker (MCB) - curve B Type 2 - 32 A miniature circuit breaker (MCB) - curve B
Leakage current	≤ 1 mA off-state
Voltage drop	1.15 V on-state
DV/Dt	500 V/ μ s off-state at maximum voltage
Cos phi	0.5 with maximum load

Motor power hp	0.75 hp 120 V AC 2 hp 240 V AC 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 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
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 ² , (AWG 24...AWG 12) with cable end input Screw terminals : 0.5...5.26 mm ² , (AWG 20...AWG 10) with cable end output Screw terminals : 0.2...3.3 mm ² , (AWG 24...AWG 12) without cable end input Screw terminals : 0.5...8.26 mm ² , (AWG 20...AWG 8) without cable end output
Thermal resistance	0.45 °C/W junction to case
Thermal impedance	0.48 °C-in ² /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	UL RoHS EAC CE REACH CSA
Marking	EAC CE CSA UL
Standards	UL 508 EN/IEC 62314 CSA C22.2 No 14-13 EN/IEC 60950-1

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1522 - Schneider Electric declaration of conformity 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 Environmental Profile
Product end of life instructions	Available End of life manual