



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	50 A
Solid state output type	Zero voltage switching SCR output

Complementary

[Uc] control circuit voltage	3...32 V DC
Minimum switching voltage	3 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 limits	10 mA at 12 V DC
Output voltage	24...300 V AC
Load current	0.15...50 A
Absolute maximum voltage	600 V
Surge current	<= 625 A for 16.6 ms
Maximum I ² t for fusing	1621 A ² .s for 8.33 ms at 60 Hz half cycle 1770 A ² .s for 10 ms at 50 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/μs 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
Insulation resistance	1000 MOhm at 500 V DC
Capacitance unbalance	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
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	3.15 oz (89.2 g)

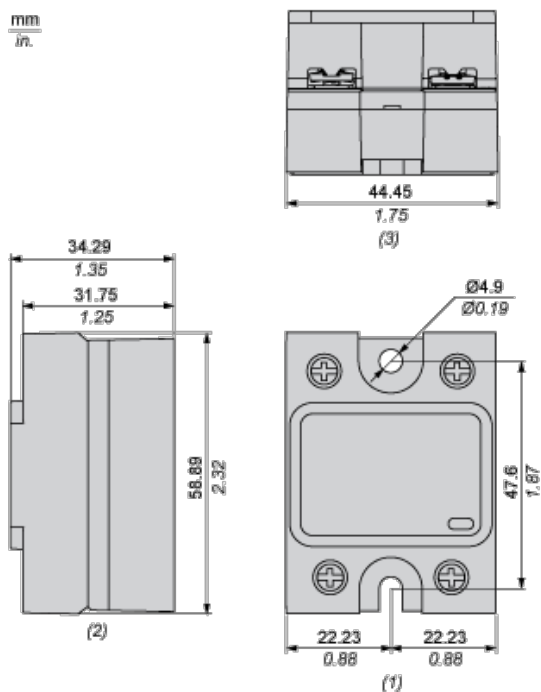
Environment

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 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

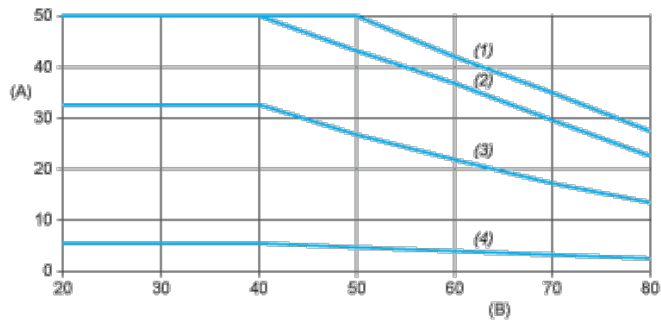
Green Premium product	Green Premium product
Compliant - since 1522 - Schneider Electric declaration of conformity	Compliant - since 1522 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available

Dimensions



- (1) Front view
- (2) Side view
- (3) Bottom view

Derating Curves



A : Load Current (Arms)

B : Ambient Temperature (°C)

(1) For Heatsink SSRHP07

(2) For Heatsink SSRHD10

(3) For Heatsink SSRHP17

(4) No Heatsink