

SSP1D412BDT

solid state relay -panel mount-thermal pad-input 3.5-32VDC, output 1-150VDC,12 A



Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Provided equipment	Thermal pad
Device short name	SSP1
Mounting support	Panel
Network number of phases	1 phase
Contacts type and composition	1 NO
[In] rated current	12 A
Solid state output type	Mosfet output DC switching

Complementary

[Uc] control circuit voltage	3.5...32 V DC
Minimum switching voltage	3.5 V DC turn-on
Maximum switching voltage	1 V DC turn-off
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...12 A
Surge current	<= 31 A for 10 ms
Protection device type	Type 1 - 10 A miniature circuit breaker (MCB) - curve B Type 2 - 6 A miniature circuit breaker (MCB) - curve B
Leakage current	<= 0.3 mA off-state
Voltage drop	2.8 V on-state
Insulation resistance	1000 MOhm at 500 V DC
Capacitance unbalance	50 pF for input/output
Dielectric strength	2.5 kV AC for input/output 2.5 kV AC for input or output to case
[Uimp] rated impulse withstand voltage	2.5 kV output to case
Tightening torque	1.5...1.7 N.m for input 2...2.2 N.m for output
Connections - terminals	Forked type tag connectors : 9.2 x 4 mm for input Ring lugs : 9.2 x 4 mm for input Forked type tag connectors : 11.7 x 4.5 mm for output Ring lugs : 11.7 x 4.5 mm for output Screw terminals : 0.2...3.3 mm ² , (AWG 24...AWG 12) with cable end for input Screw terminals : 0.5...5.26 mm ² , (AWG 20...AWG 10) with cable end for output Screw terminals : 0.2...3.3 mm ² , (AWG 24...AWG 12) without cable end for input Screw terminals : 0.5...8.26 mm ² , (AWG 20...AWG 8) without cable end for output
Thermal resistance	0.71 °C/W junction to case
Thermal impedance	0.48 °C-in ² /W at 25 psi
Local signalling	LED, green for input
IP degree of protection	IP20
Safety reliability data	MTTFd = 1875.9 years B10d = 1731395
Product weight	89.2 g

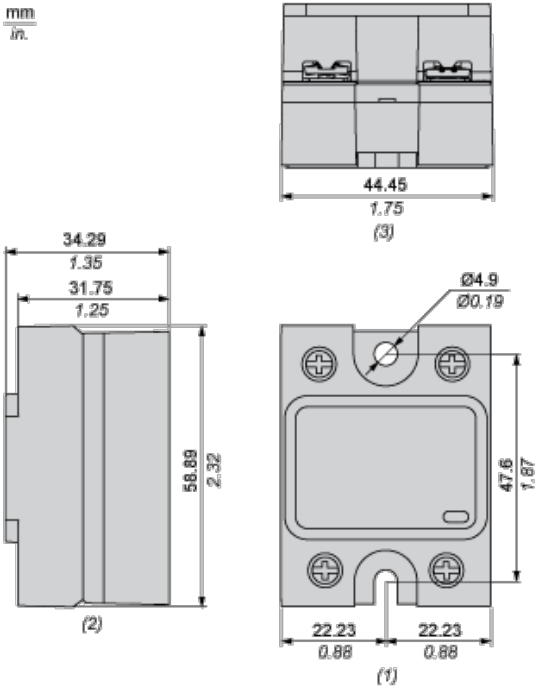
Environment

ambient air temperature for operation	-40...80 °C
ambient air temperature for storage	-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

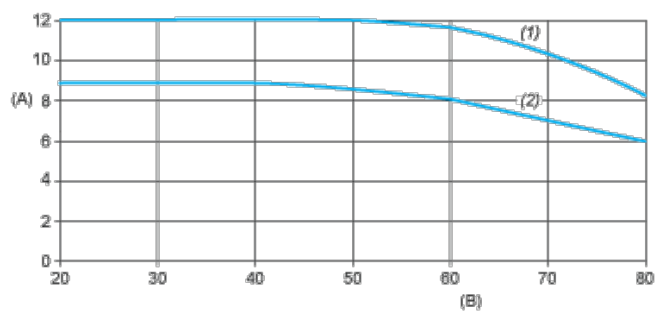
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1522 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Dimensions



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

Derating Curves



A : Load Current (Arms)

B : Ambient Temperature (°C)

(1) For Heatsink SSRHP25

(2) No Heatsink