

SSP1A150BD

solid state relay - panel mounting - input 3-32V DC, output 24-300 V AC, 50A



Main

Range of product	Zelio Relay
Product or component type	Solid state relay
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

Control circuit voltage	3...32 V DC
Switching voltage	<= 1 V DC turn-off >= 3 V DC turn-on
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
Local signalling	LED, green input
IP degree of protection	IP20
Safety reliability data	B10d = 1731395 MTTFd = 1875.9 years
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 EAC UL CE REACH CSA
Marking	CE UL CSA EAC
Standards	EN/IEC 62314 CSA C22.2 No 14-13 UL 508 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