

SSP3A250BDR

solid state relay - panel mounting - input 4-32 V DC, output 48-530 V AC, 50A



Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Device short name	SSP
Mounting support	Panel
Number of phases	3 phases
Contacts type and configuration	3 NO
Solid state output type	Random voltage switching

Complementary

Control type	Without test button
Control circuit voltage	4...32 V DC
Switching voltage	≥ 4 V DC turn-on ≤ 1 V DC turn-off
Response time	0.1 ms turn-on 8.33 ms turn-off
Input current	24...35 mA
Output voltage	48...530 V AC
Load current	0.1...50 A
Transient overvoltage	1200 V
Surge current	≤ 150 A for 1 s ≤ 750 A for 16.6 ms ≤ 715 A for 20 ms
Maximum I ² t for fusing	2320 A ² .s for 8.3 ms at 60 Hz half cycle 2520 A ² .s for 10 ms at 50 Hz half cycle
Leakage current	≤ 3 mA off-state
Voltage drop	≤ 1.35 V on-state
DV/Dt	500 V/ μ s off-state at maximum voltage
Power factor	≥ 0.5 with maximum load
Motor controller rating	8.8 hp at 40 °C 530 V AC 7.5 hp at 40 °C 480 V AC 3 hp at 40 °C 240 V AC 1.5 hp at 40 °C 120 V AC
Motor power kW	6.47 kW at 40 °C 530 V AC 5.55 kW at 40 °C 480 V AC 2.22 kW at 40 °C 240 V AC 1.11 kW at 40 °C 120 V AC
Insulation resistance	≥ 1000 MOhm at 500 V DC
Maximum capacitance	≤ 8 pF for input/output
Dielectric strength	4 kV AC for input or output to case 4 kV AC for input/output
Tightening torque	1.7...2.2 N.m for output 0.9...1.1 N.m for input
Connections - terminals	Screw terminals : 1 x 1.5...1 x 10 mm ² , (AWG 16...AWG 8) for output Screw terminals : 1 x 0.2...1 x 2.5 mm ² , (AWG 24...AWG 14) for input
Thermal resistance	0.12 °C/W
LED indicator	LED green for input status

IP degree of protection	IP20
Product weight	0.36 kg
Width	101.3 mm
Height	79.7 mm
Depth	35.4 mm

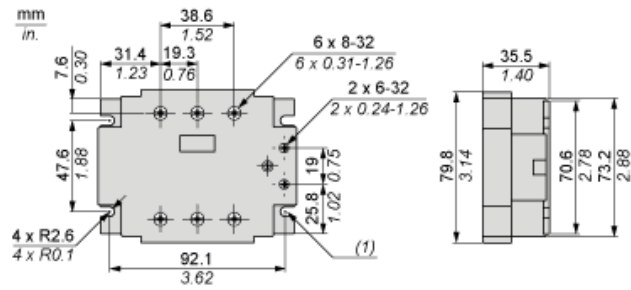
Environment

Flame retardance	V0 conforming to UL 94
Ambient air temperature for operation	-40...80 °C
Ambient air temperature for storage	-40...125 °C
Pollution degree	2
Overvoltage category	III
Product certifications	CSA RoHS UL REACH
Marking	CE
Standards	IEC 61000 IEC 60950-1 IEC 62314

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1328 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual

Dimensions



(1) 4 Mounting slots

Derating Curves



A : Load Current (Amperes)
B : Ambient Temperature (°C)