

SSP3A250BDT

solid state relay - panel-input 4-32VDC, output
48-530VAC, 50A-Thermal Interface



Main

Commercial Status	Commercialised
Range of product	Zelio Relay
Product or component type	Solid state relay
Provided equipment	Thermal interface
Device short name	SSP
Network number of phases	3 phases

Complementary

Mounting support	Panel
[In] rated current	50 A
Output voltage	48...530 V AC
Control circuit voltage	4...32 V DC
Contacts type and composition	3 NO
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 for output - AWG 16...AWG 8 Screw terminals 1 x 0.2...1 x 2.5 mm ² for input - AWG 24...AWG 14
Capacitance unbalance	<= 8 pF for input/output
Insulation resistance	>= 1000 MOhm at 500 V DC
Local signalling	LED green for input status
Switching voltage	>= 4 V DC turn-on <= 1 V DC turn-off
Input current limits	24...35 mA
Solid state output type	Zero voltage switching
Load current	0.1...50 A
Absolute maximum voltage	1200 V
Surge current	<= 150 A for 1 s <= 750 A for 16.6 ms <= 715 A for 20 ms
Voltage drop	<= 1.35 V on-state
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
Motor power hp	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
Thermal resistance	0.12 °C/W

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
DV/Dt	500 V/μs off-state at maximum voltage
Response time	8.33 ms turn-off 8.33 ms turn-on
Cos phi	>= 0.5 with maximum load
Overvoltage category	III
Width	101.3 mm
Height	79.7 mm
Depth	35.4 mm
Product weight	0.36 kg



Environment

Flame retardance	V0 conforming to UL 94
Dielectric strength	4 kV AC for input or output to case 4 kV AC for input/output
Pollution degree	2
Standards	IEC 61000 IEC 60950-1 IEC 62314
Product certifications	CSA RoHS UL REACH
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-40...80 °C
Ambient air temperature for storage	-40...125 °C

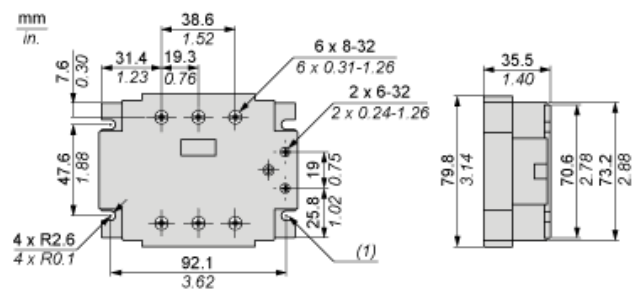
Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	00785901971092
Nbr. of units in pkg.	1
Package weight(Lbs)	0.90
Returnability	Y
Country of origin	MX

Offer Sustainability

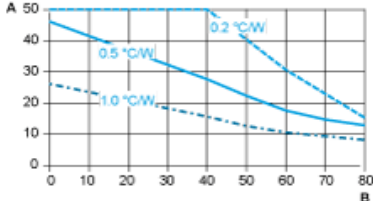
Sustainable offer status	Green Premium product
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available  Download Product Environmental
Product end of life instructions	Available  Download End Of Life Manual

Dimensions



(1) 4 Mounting slots

Derating Curves



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