

Product data sheet

Characteristics

SSP3A250BDRT

Solid state panel mount relay, 50 A, random switching, thermal pad, input 4...32 V DC, output 48...530 V AC

Product availability : Stock - Normally stocked in distribution facility

Price* : 181.20 USD



Main

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

Complementary

Control type	Without test button
[Uc] control circuit voltage	4...32 V DC
Minimum switching voltage	4 V DC turn-on
Maximum switching voltage	1 V DC turn-off
Response time	8.33 ms turn-off) 0.1 ms turn-on)
Input current	24...35 mA
Output voltage	48...530 V AC
Load current	0.1...50 A
Transient overvoltage	1200 V
Surge current	715 A 20 ms 750 A 16.6 ms 150 A 1 s
Maximum I ² t for fusing	2520 A ² .s 10 ms 50 Hz 2320 A ² .s 8.3 ms 60 Hz
Maximum leakage current	3 mA off-state
Maximum voltage drop	<1.35 V on-state
DV/Dt	500 V/μs off-state at maximum voltage
Power factor	0.5 with maximum load)

* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Motor controller rating	1.5 hp 104 °F (40 °C) 120 V AC 3 hp 104 °F (40 °C) 240 V AC 7.5 hp 104 °F (40 °C) 480 V AC 8.8 hp 104 °F (40 °C) 530 V AC
Motor power kW	1.11 kW 104 °F (40 °C) 120 V AC 2.22 kW 104 °F (40 °C) 240 V AC 5.55 kW 104 °F (40 °C) 480 V AC 6.47 kW 104 °F (40 °C) 530 V AC
Insulation resistance	>= 1000 MOhm 500 V DC
Maximum capacitance	8 pF input/output
Dielectric strength	4 kV AC input/output 4 kV AC input or output to case
Tightening torque	0.9...1.1 N.m input 1.7...2.2 N.m output
Connections - terminals	Screw terminals 1 x 0.2...1 x 2.5 mm ² , AWG 24...AWG 14) input Screw terminals 1 x 1.5...1 x 10 mm ² , AWG 16...AWG 8) output
Thermal resistance	0.12 °C/W
LED indicator	LED, green input
IP degree of protection	IP20
Net Weight	0.53 lb(US) (0.24 kg)
Maximum Width	3.99 in (101.3 mm)
Maximum Height	3.14 in (79.7 mm)
Maximum Depth	1.39 in (35.4 mm)
Device presentation	Complete product

Environment

Flame retardance	V0 UL 94
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 UL CSA REACH
Marking	CE
Standards	IEC 62314 IEC 60950-1 IEC 61000

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	00785901844105
Nbr. of units in pkg.	1
Package weight(Lbs)	0.9 lb(US) (0.41 kg)
Returnability	No
Country of origin	MX

Packing Units

Package 1 Height	0.400 dm
Package 1 width	0.850 dm
Package 1 Length	1.200 dm

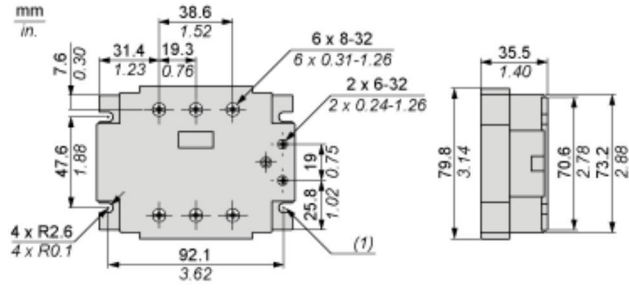
Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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[EU RoHS Declaration](#)

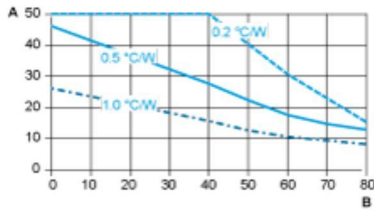
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Dimensions



(1) 4 Mounting slots

Derating Curves



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