

Product data sheet

Characteristics

SSP3A250BDR

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



Product availability: Stock - Normally stocked in distribution facility

Price*: 173.20 USD



Main

Range of Product	Harmony Solid State Relays
Product or Component Type	Solid state relay up to 50 A
Device short name	SSP
Mounting Support	Panel
Phase	3 phase
Line Rated Current	50 A
Solid state output type	Random voltage switching
Output switching mode	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 limits	24...35 mA
Output voltage	48...530 V AC
Load current	0.1...50 A
Absolute maximum voltage	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 for 10 ms at 50 Hz 2320 A ² .S for 8.3 ms at 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
Cos phi	0.5 (with maximum load)

Maximum Horse Power 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 at 500 V DC
Capacitance unbalance	8 PF for input/output
Dielectric strength	4 KV AC for input/output 4 KV AC for input or output to case
Tightening torque	0.9...1.1 N.m for input 1.7...2.2 N.m for 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
Local signalling	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 conforming to 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	CSA UL
Marking	CE
Standards	IEC 60950-1 IEC 62314 IEC 61000

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	03606480579943
Nbr. of units in pkg.	1
Package weight(Lbs)	9.81 Oz (278 g)
Returnability	No
Country of origin	MX

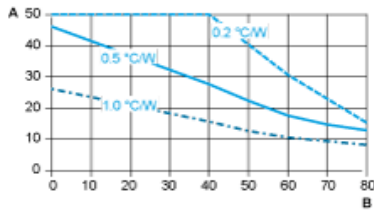
Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.57 In (4 cm)
Package 1 width	3.35 In (8.5 cm)
Package 1 Length	4.72 In (12 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) 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

Derating Curves



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

Product Life Status : **Commercialised**