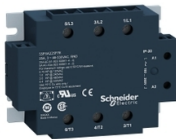


Product data sheet

Specifications



Solid state relay, Harmony, 50A, panel mount, random switching, input 18~36V AC, output 48~530V AC

SSP3A250B7R

! Discontinued

! Discontinued on: Jun 15, 2023

Product availability: Non-Stock - Not normally stocked in distribution facility

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
Number of phases	3 phase
Line Rated Current	50 A
Solid state output type	Random voltage switching
Output switching mode	Random voltage switching

Complementary

test button	Without test button
[Uc] control circuit voltage	18...36 V AC
Minimum switching voltage	18 V AC turn-on
Maximum switching voltage	2 V AC turn-off
Response time	20 ms (turn-on) 30 ms (turn-off)
Input current	15...20 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 I²t for fusing	2520 A².s for 10 ms at 50 Hz 2320 A².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
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.

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 at 500 V DC
Maximum capacitance	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 mm², AWG 24...AWG 14) input Screw terminals 1 x 1.5...1 x 10 mm², 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)
Width	4.0 in (101.3 mm)
Height	3.1 in (79.7 mm)
Depth	1.4 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	UL CSA
Marking	CE
Standards	IEC 60950-1 IEC 62314 IEC 61000

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3606480579950
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Package 1 Height	1.6 in (4.0 cm)
Package 1 Width	3.3 in (8.5 cm)
Package 1 Length	4.7 in (12.0 cm)
Package weight(Lbs)	9.8 oz (278.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	27
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	25.261 lb(US) (11.458 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number

134201bc-d293-4667-9cca-10a7f11729e0

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

Use Longer



Lifetime extension

Repair

No

Use Again



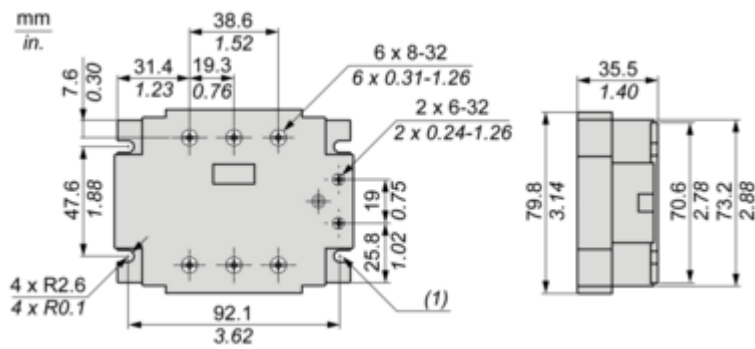
Repack and remanufacture

Circularity Profile

[End of Life Information](#)

Dimensions Drawings

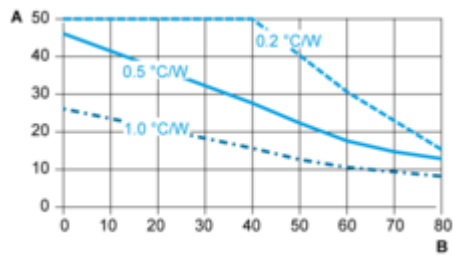
Dimensions



(1) 4 Mounting slots

Performance Curves

Derating Curves



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

Technical Illustration

Dimensions

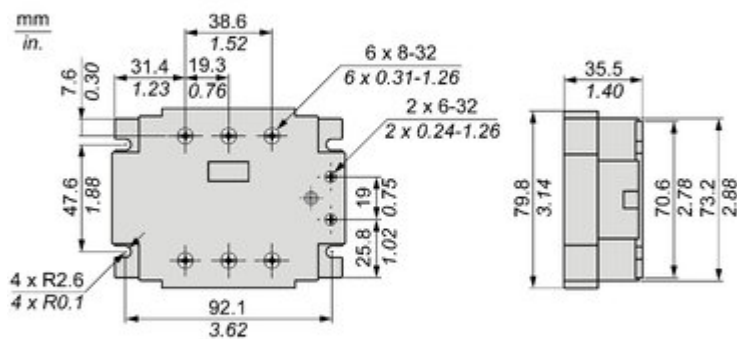


Image of product / Alternate images

Alternative







Image of product in real life situation

