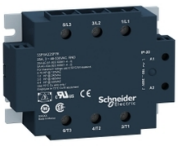
Product data sheet

Specifications

Green Premium™



Solid state relay, Harmony, 50A, panel mount, random switching, input 90â€¦140V AC, output 48â€¦530V AC

SSP3A250F7R

Discontinued

Discontinued on: Jun 30, 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

Control Type	Without test button
Minimum Switching Voltage	90 V AC turn-on
Maximum Switching Voltage	10 V AC turn-off
Response Time	20 ms (turn-on) 30 ms (turn-off)
Input Current	7…16 mA
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)
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

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 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	3.99 in (101.3 mm)
Height	3.14 in (79.7 mm)
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	UL CSA
Marking	CE
Standards	IEC 60950-1 IEC 61000 IEC 62314

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
Gtin	3606480579936
Returnability	No
Country Of Origin	MX

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.57 in (4.0 cm)
Package 1 Width	3.35 in (8.5 cm)

Package 1 Length	4.72 in (12.0 cm)
Package 1 Weight	9.81 oz (278.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	27
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	25.38 lb(US) (11.512 kg)

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free

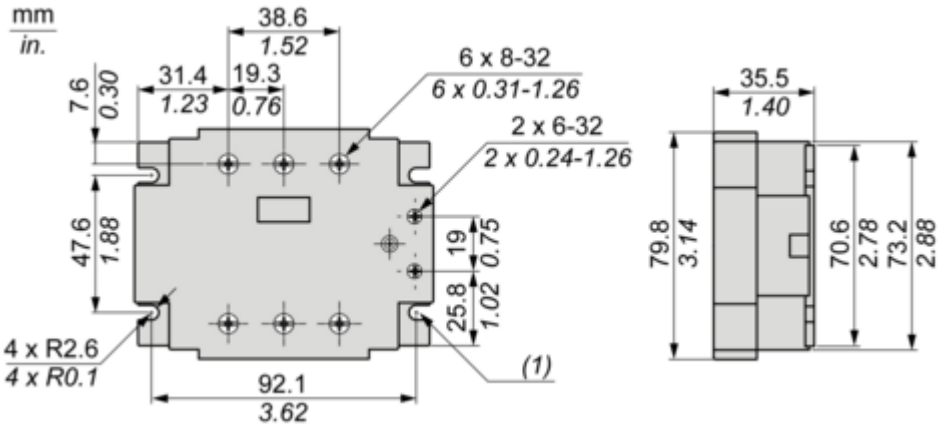
Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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

Dimensions Drawings

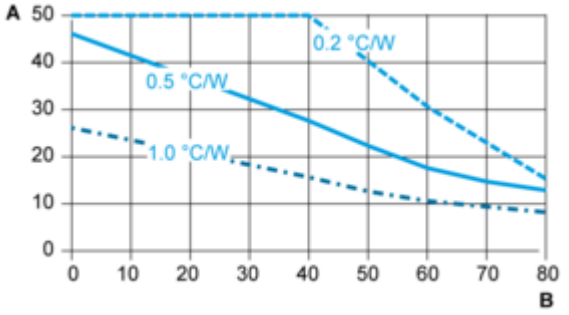
Dimensions



(1) 4 Mounting slots

Performance Curves

Derating Curves



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