

# Product datasheet

Specifications



## solid state relay - panel mounting - input 90-140 V AC, output 48-530 V AC, 50A

Local distributor code:  
403015676

SSP3A250F7R

⚠ Discontinued on: 15 Jun 2023

⚠ Discontinued

EAN Code: 3606480579936

## 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 phases
[In] 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	90...140 V AC
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
Output voltage	48...530 V AC
Load current	0.1...50 A
Transient overvoltage	1200 V
Surge current	715 A for 20 ms 750 A for 16.6 ms 150 A for 1 s
Maximum I <sup>2</sup> t for fusing	2520 A <sup>2</sup> .s for 10 ms at 50 Hz 2320 A <sup>2</sup> .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 40 °C 120 V AC 3 hp 40 °C 240 V AC 7.5 hp 40 °C 480 V AC 8.8 hp 40 °C 530 V AC

<b>Motor power kW</b>	1.11 kW at 40 °C 120 V AC 2.22 kW at 40 °C 240 V AC 5.55 kW at 40 °C 480 V AC 6.47 kW at 40 °C 530 V AC
<b>Insulation resistance</b>	>= 1000 MOhm at 500 V DC
<b>Maximum capacitance</b>	8 pF for input/output
<b>Dielectric strength</b>	4 kV AC for input/output 4 kV AC for input or output to case
<b>Tightening torque</b>	0.9...1.1 N.m for input 1.7...2.2 N.m for output
<b>Connections - terminals</b>	Screw terminals: 1 x 0.2...1 x 2.5 mm <sup>2</sup> , (AWG 24...AWG 14) for input Screw terminals: 1 x 1.5...1 x 10 mm <sup>2</sup> , (AWG 16...AWG 8) for output
<b>Thermal resistance</b>	0.12 °C/W
<b>LED indicator</b>	LED, green for input
<b>IP degree of protection</b>	IP20
<b>Net weight</b>	0.24 kg
<b>Width</b>	101.3 mm
<b>Height</b>	79.7 mm
<b>Depth</b>	35.4 mm
<b>Device presentation</b>	Complete product

## Environment

<b>Flame retardance</b>	V0 conforming to UL 94
<b>Ambient air temperature for operation</b>	-40...80 °C
<b>Ambient air temperature for storage</b>	-40...125 °C
<b>Pollution degree</b>	2
<b>Overvoltage category</b>	III
<b>Product certifications</b>	UL CSA
<b>Marking</b>	CE
<b>Standards</b>	IEC 60950-1 IEC 61000 IEC 62314

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.0 cm
<b>Package 1 Width</b>	8.5 cm
<b>Package 1 Length</b>	12.0 cm
<b>Package 1 Weight</b>	278.0 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	27
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	30.0 cm

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Package 2 Length	40.0 cm
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Package 2 Weight	11.512 kg
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## Contractual warranty

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Warranty	18 months
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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

## Use Again

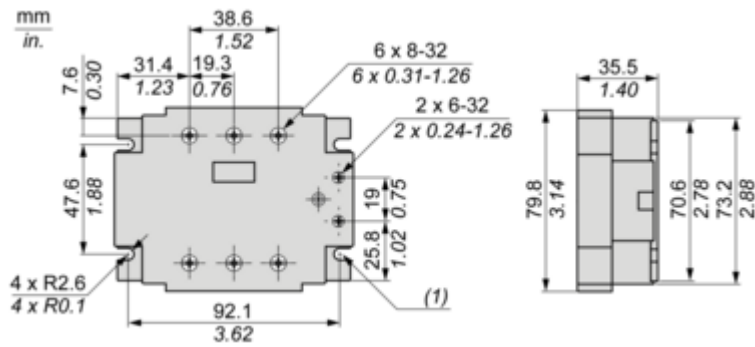
### Repack and remanufacture

[End of life manual availability](#)

[End of Life Information](#)

Dimensions Drawings

Dimensions

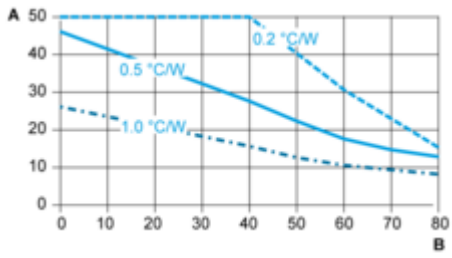


(1) 4 Mounting slots

Performance Curves

Derating Curves

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A : Load Current (Amperes)

B : Ambient Temperature (°C)



Image of product / Alternate images

Alternative

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Image of product in real life situation

