Product data sheet

Specifications

solid state relay - panel mounting - input 90-140 V AC, output 48-530 V AC, 25A

SSP3A225F7R

⊘ Discontinued on: Oct 20, 2020

⊘ **Discontinued**

Main

Range Of Product	Harmony Relay
Product Or Component Type	Solid state relay
Device Short Name	SSP
Mounting Support	Panel
Number Of Phases	3 phases
Contacts Type And Conifguration	3 NO
Solid State Output Type	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…25 A
Transient Overvoltage	1200 V
Surge Current	275 A for 20 ms 300 A for 16.6 ms 85 A for 1 s
Maximum I²T For Fusing	380 A².s for 10 ms at 50 Hz 370 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	0.75 hp 40 °C 120 V AC 1 hp 40 °C 240 V AC 3 hp 40 °C 480 V AC 4.4 hp 40 °C 530 V AC
Motor Power Kw	0.56 kW at 40 °C 120 V AC 0.74 kW at 40 °C 240 V AC 2.22 kW at 40 °C 480 V AC 3.24 kW at 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) for input Screw terminals: 1 x 1.5...1 x 10 mm², (AWG 16...AWG 8) for output
Thermal Resistance	0.24 °C/W
Led Indicator	LED, green for input
Ip Degree Of Protection	IP20
Net Weight	0.24 kg
Width	101.3 mm
Height	79.7 mm
Depth	35.4 mm
Device Presentation	Complete product

Environment

Flame Retardance	V0 conforming to UL 94
Ambient Air Temperature For Operation	-40…80 °C
Ambient Air Temperature For Storage	-40…125 °C
Pollution Degree	2
Overvoltage Category	III
Product Certifications	UL CSA
Marking	CE
Standards	IEC 61000 IEC 62314 IEC 60950-1

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

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Sustainability

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Guide to assess a product's sustainability ＞

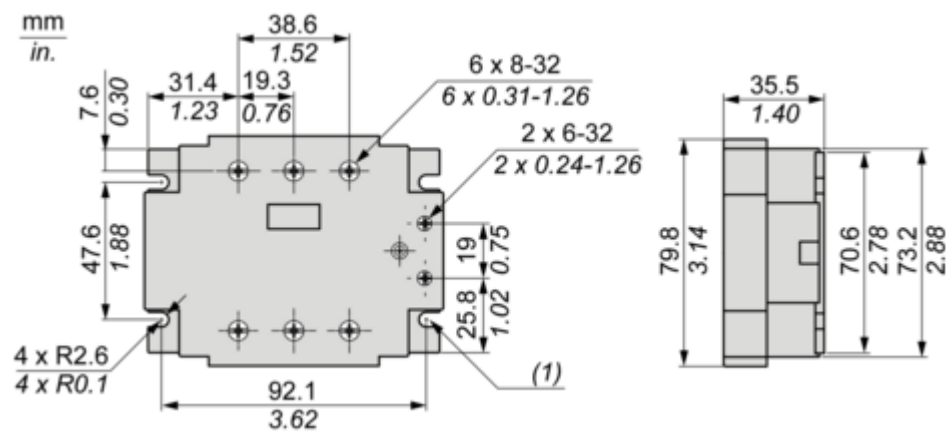Transparency   RoHS/REACh

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
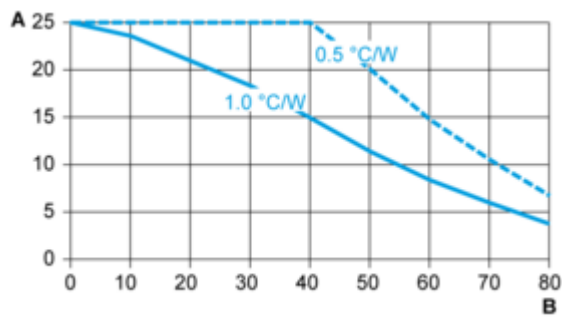

Dimensions Drawings

Dimensions

(1) 4 Mounting slots

Performance Curves

Derating Curves

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