

solid state relay-panel-input 180-280VAC, output 48-530VAC, 25A-Thermal Interface

SSP3A225P7T

Main

Range of product	Harmony Solid State Relays
Provided accessory	Thermal interface
Product or component type	Panel mount relay
Device short name	SSP
mounting support	Panel
Number of phases	3 phases
[In] rated current	25 A
solid state output type	Zero voltage switching
Output switching mode	Zero voltage switching

Complementary

Join promontary	
test button	Without test button
[Uc] control circuit voltage	90280 V AC 50/60 Hz
Minimum switching voltage	90 V AC turn-on
Maximum switching voltage	9 V AC turn-off
Response time	20 ms (turn-on) 30 ms (turn-off)
Input current	720 mA
Output voltage	42660 V AC
load current	0.1525 A
Transient overvoltage	1200 V
Surge current	275 A for 20 ms 300 A for 16.6 ms
Maximum I ² t for fusing	380 A ² .s for 10 ms at 50 Hz 370 A ² .s for 8.3 ms at 60 Hz
Co-ordination type	TVS
Maximum leakage current	3 mA off-state
Maximum voltage drop	<1.4 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 5 hp 40 °C 600 V AC

Make a manuar INM	0.551.W. + 40.00 400.V.40
Motor power kW	0.55 kW at 40 °C 120 V AC 0.75 kW at 40 °C 240 V AC
	2.2 kW at 40 °C 480 V AC
	3.7 kW at 40 °C 600 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
[Uimp] rated impulse withstand	4 kV for input to case
voltage	6 kV for input/output circuit
	6 kV for input/output to case
Tightening torque	1.2 N.m for input
	2.5 N.m for output
Connections - terminals	Screw terminals: 1 x 0.21 x 2.5 mm², (AWG 24AWG 14) for input
	Screw terminals: 1 x 1.51 x 10 mm², (AWG 16AWG 8) for output
Thermal resistance	0.24 °C/W
LED indicator	LED, green for input
IP degree of protection	IP20
Electromagnetic compatibility	Electrostatic discharge 4 kV criteria B contact discharge conforming to IEC
	61000-4-2
	Electrostatic discharge 8 kV criteria B air discharge conforming to IEC 61000-4-2
	Conducted RF disturbances 10 V, 0.1580 MHz criteria A conforming to IEC 61000-4-6
	Radiated radio-frequency electromagnetic field immunity test 10 V/m, 80 MHz1
	GHz criteria A conforming to IEC 61000-4-3
	Surge immunity test 1 kV criteria B output ports line to line conforming to IEC
	61000-4-5
	Surge immunity test 2 kV criteria B output ports line to earth conforming to IEC 61000-4-5
	Surge immunity test 1 kV criteria B input ports line to earth conforming to IEC
	61000-4-5 Electrical fast transient/burst immunity test 2 kV, 5kHz criteria B output ports
	conforming to IEC 61000-4-4
	Immunity to voltage dips 0 %/20 ms criteria B conforming to IEC 61000-4-11
	Immunity to voltage dips 40 %/200 ms criteria C conforming to IEC 61000-4-11
	Immunity to voltage dips 70 %/500 ms criteria C conforming to IEC 61000-4-11
	Immunity to short interruption 0 %/5 s criteria C conforming to IEC 61000-4-11 Electrical fast transient/burst immunity test 1 kV, 5kHz criteria B input ports
	conforming to IEC 61000-4-4
	Radiated radio-frequency electromagnetic field immunity test 3 V/m, 1.46 GHz
	criteria A conforming to IEC 61000-4-3
	Radiated emission 301000 Mhz environment A conforming to IEC 60947-1
	Conducted emission 0.1530 Mhz environment A conforming to IEC 60947-1
Net weight	0.37 kg
Width	104 mm
Height	74.6 mm
Depth	41 mm
device presentation	Complete product
Environment	
Environment	

Flame retardance	V0 conforming to UL 94
Ambient air temperature for operation	-4080 °C
Ambient air temperature for storage	-40125 °C
Pollution degree	2
Overvoltage category	III

Product certifications	CE CSA EAC UL
	UKCA
marking	CE
Standards	IEC/EN 62314
	IEC/EN 60947-4-2
	IEC/EN 60947-4-3
	UL 60947-4-2
	C22.2 No. 14

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.000 cm
Package 1 Width	8.500 cm
Package 1 Length	12.000 cm
Package 1 Weight	273.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	27
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	7.770 kg

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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 >

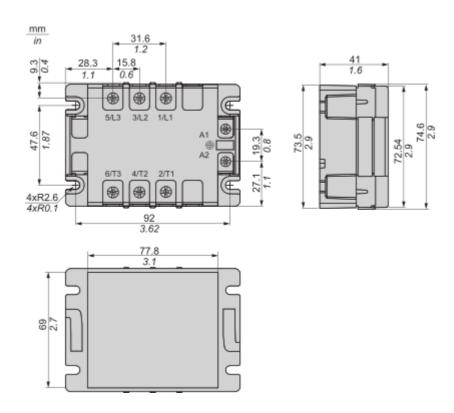
Guide to assess a product's sustainability >

Well-being performance

Lead Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration

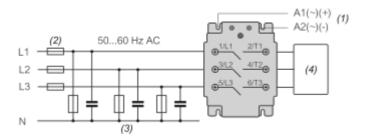
Dimensions Drawings

Dimensions



Connections and Schema

Wiring



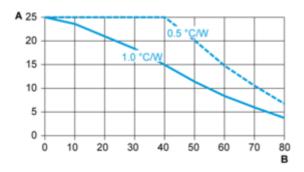
- (1) Setting control voltage in between turn on and turn off voltage may cause malfunction or damage the SSR.
- (2) Recommended fuses.
- (3) Recommended to install filters if Conductive Emission (CE) Class A is required.
- (4) Load.

Product datasheet

SSP3A225P7T

Performance Curves

Derating Curves



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