

# SSP3A250F7T

solid state relay -panel-input 90-140VAC,  
output 48-530VAC,50A-Thermal Interface



## Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Provided equipment	Thermal interface
Device short name	SSP
Mounting support	Panel
Number of phases	3 phases
Contacts type and configuration	3 NO
Solid state output type	Zero voltage switching

## Complementary

Control type	Without test button
Control circuit voltage	90...140 V AC
Switching voltage	$\geq 90$ V AC turn-on $\leq 10$ V AC turn-off
Response time	30 ms turn-off 20 ms turn-on
Input current	7...16 mA
Output voltage	48...530 V AC
Load current	0.1...50 A
Transient overvoltage	1200 V
Surge current	$\leq 150$ A for 1 s $\leq 750$ A for 16.6 ms $\leq 715$ A for 20 ms
Maximum I <sup>2</sup> t for fusing	2320 A <sup>2</sup> .s for 8.3 ms at 60 Hz half cycle 2520 A <sup>2</sup> .s for 10 ms at 50 Hz half cycle
Leakage current	$\leq 3$ mA off-state
Voltage drop	$\leq 1.35$ V on-state
DV/Dt	500 V/ $\mu$ s off-state at maximum voltage
Power factor	$\geq 0.5$ with maximum load
Motor controller rating	8.8 hp at 40 °C 530 V AC 7.5 hp at 40 °C 480 V AC 3 hp at 40 °C 240 V AC 1.5 hp at 40 °C 120 V AC
Motor power kW	6.47 kW at 40 °C 530 V AC 5.55 kW at 40 °C 480 V AC 2.22 kW at 40 °C 240 V AC 1.11 kW at 40 °C 120 V AC
Insulation resistance	$\geq 1000$ MOhm at 500 V DC
Maximum capacitance	$\leq 8$ pF for input/output
Dielectric strength	4 kV AC for input or output to case 4 kV AC for input/output
Tightening torque	1.7...2.2 N.m for output 0.9...1.1 N.m for input
Connections - terminals	Screw terminals : 1 x 1.5...1 x 10 mm <sup>2</sup> , (AWG 16...AWG 8) for output Screw terminals : 1 x 0.2...1 x 2.5 mm <sup>2</sup> , (AWG 24...AWG 14) for input
Thermal resistance	0.12 °C/W
LED indicator	LED green for input status

IP degree of protection	IP20
Product weight	0.36 kg
Width	101.3 mm
Height	79.7 mm
Depth	35.4 mm

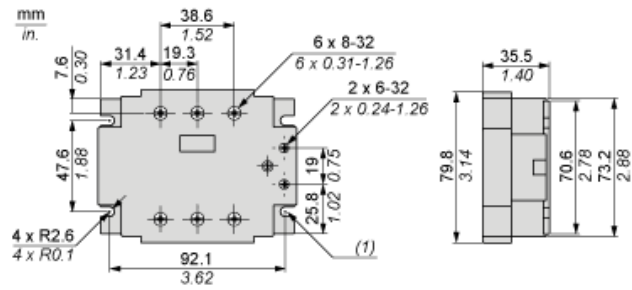
## Environment

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	CSA RoHS UL REACH
Marking	CE
Standards	IEC 61000 IEC 60950-1 IEC 62314

## Offer Sustainability

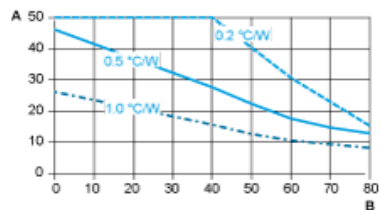
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1328 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available <a href="#">Download Product Environmental</a>
Product end of life instructions	Available <a href="#">Download End Of Life Manual</a>

Dimensions



(1) 4 Mounting slots

Derating Curves



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