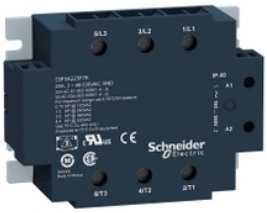
Product data sheet
Characteristics

SSP3A225F7T
Solid state relay, Harmony, 25A, panel mount, zero voltage switching, thermal pad, input 90…140V AC, output 48…530V AC



Main

Range of Product	Harmony Solid State Relays
Product or Component Type	Solid state relay up to 30 A
Provided accessory	Thermal interface
Device short name	SSP
Mounting Support	Panel
Number of phases	3 phase
Line Rated Current	25 A
Solid state output type	Zero voltage switching
Output switching mode	Zero voltage switching

Complementary

Control Type	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…25 A
Transient overvoltage	1200 V
Surge current	275 A 20 ms 300 A 16.6 ms 85 A 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 104 °F (40 °C) 120 V AC 1 Hp 104 °F (40 °C) 240 V AC 3 Hp 104 °F (40 °C) 480 V AC 4.4 hp 104 °F (40 °C) 530 V AC
Motor power kW	0.56 KW 104 °F (40 °C) 120 V AC 0.74 KW 104 °F (40 °C) 240 V AC 2.22 KW 104 °F (40 °C) 480 V AC 3.24 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	0.24 °C/W
LED indicator	LED, green input

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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 62314 IEC 60950-1 IEC 61000

Ordering and shipping details

Category	22375-INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3606480579974
Returnability	No

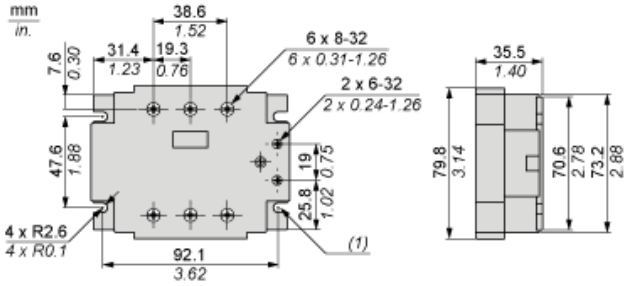
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.57 in (4.000 cm)
Package 1 Width	3.35 in (8.500 cm)
Package 1 Length	4.72 in (12.000 cm)
Package 1 Weight	9.84 oz (279.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	27
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	25.43 lb(US) (11.533 kg)

Offer Sustainability

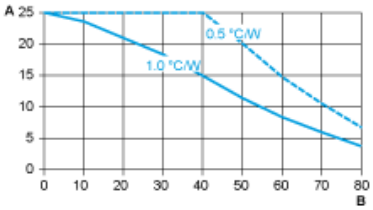
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

Dimensions



(1) 4 Mounting slots

Derating Curves



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