Product data sheet Characteristics

SSM1A112F7R

Harmony, Solid state modular relay, 12 A, DIN rail mount, random swtching, input 90...140 V AC, output 24...280 V AC



Main

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Range of Product	Harmony Solid State Relays
Product or Component Type	Solid state relay up to 20 A
Device short name	SSM
Number of Channels	1
Number of phases	1 phase
Output switching mode	Random voltage switching

Complementary

Complementary	
Mounting Support	Symmetrical DIN rail
Line Rated Current	12 A
Output voltage	24280 V AC
[Uc] control circuit voltage	90140 V AC
Tightening torque	0.50.8 N.m for input 0.50.8 N.m for output
Connections - terminals	Screw terminals 1 x 0.31 x 1.5 mm², AWG 22AWG 16) input Screw terminals 1 x 0.31 x 2.5 mm², AWG 22AWG 14) output
Maximum capacitance	10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	For input status LED (green)
Minimum switching voltage	90 V AC turn-on
Maximum switching voltage	10 V AC turn-off
Input current	35 mA
Solid state output type	Random voltage switching SCR output
Load current	0.1512 A
Transient overvoltage	600 V
Surge current	715 A 16.6 ms 750 A 20 ms
Maximum voltage drop	<1.3 V on-state
Maximum Horse Power Rating	0.33 hp 104 °F (40 °C) 240 V AC
Maximum I ² t for fusing	2560 A ² .S for 10 ms at 50 Hz 2330 A ² .s for 8.33 ms at 60 Hz
Maximum leakage current	0.1 mA off-state
DV/dt	500 V/µs off-state at maximum voltage
Response time	30 ms (turn-off) 20 ms (turn-on)
Power factor	0.5 (with maximum load)
Overvoltage category	III
Width	0.71 in (18 mm)
Height	3.56 in (90.3 mm)
Depth	3.30 in (83.7 mm)
Net Weight	0.20 lb(US) (0.09 kg)



Environment

Flame retardance	V0 conforming to UL 94	
Dielectric strength	4 KV AC for input/output 4 kV AC for input or output to case	
Pollution degree	2	
Standards	IEC 62314 IEC 60950-1 IEC 61000	
Product Certifications	CSA UL	
Marking	CE	
IP degree of protection	IP20	
Ambient Air Temperature for Operation	-22176 °F (-3080 °C)	
Ambient Air Temperature for Storage	-22212 °F (-30100 °C)	

Ordering and shipping details

22375-INTERFACE MODULE(ABA,R,S)	
CP2	
3606480579578	
1	
3.46 oz (98.0 g)	
No	
MX	
	CP2 3606480579578 1 3.46 oz (98.0 g) No

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	0.98 in (2.5 cm)
Package 1 width	3.54 in (9 cm)
Package 1 Length	3.74 in (9.5 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	72
Package 2 Weight	16.37 lb(US) (7.426 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

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)
Mercury free	Yes
RoHS exemption information	₽ Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

Product data sheet Dimensions Drawings

SSM1A112F7R

Dimensions



Product data sheet Performance Curves

SSM1A112F7R

Derating Curves



A: Load Current (Amperes)

- В: Ambient Temperature (°C)
- 1: Multiple units, no minimum spacing between components
- 2: Installed single unit, distance to adjacent components more than 18 mm