Product data sheet
Characteristics

SSM1A16P7
Solid state modular relay, Harmony, 6A, DIN rail mount, zero voltage switching, input 200…265V AC, output 24...280V AC



Main

Range of Product	Harmony Solid State Relays
Product or Component Type	Solid state relay up to 10 A
Device short name	SSM
Number of Channels	1
Number of phases	1 phase
Output switching mode	Zero voltage switching

Complementary

Mounting Support	Symmetrical DIN rail
Line Rated Current	6 A
Output voltage	24...280 V AC
[Uc] control circuit voltage	200...265 V AC
Tightening torque	0.5...0.8 N.m for input 0.5...0.8 N.m for output
Connections - terminals	Screw terminals 1 x 0.3...1 x 1.5 mm², AWG 22...AWG 16) input Screw terminals 1 x 0.3...1 x 2.5 mm², AWG 22...AWG 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	200 V AC turn-on
Maximum switching voltage	90 V AC turn-off
Input current	2.5…3.5 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.15…6 A
Transient overvoltage	600 V
Surge current	285 A 16.6 ms 300 A 20 ms
Maximum voltage drop	<1.3 V on-state
Maximum Horse Power Rating	0.16 hp 104 °F (40 °C) 240 V AC
Maximum I²t for fusing	410 A².S for 10 ms at 50 Hz 375 A².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	0.5 cycle (turn-on) 30 ms (turn-off)
Power factor	0.5 (with maximum load)
Overvoltage category	III
Width	0.43 in (11 mm)
Height	3.56 in (90.3 mm)
Depth	3.30 in (83.7 mm)
Net Weight	0.11 lb(US) (0.05 kg)

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.

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 61000 IEC 62314 IEC 60950-1
Product Certifications	UL[RETURN]CSA
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-22…176 °F (-30…80 °C)
Ambient Air Temperature for Storage	-22…212 °F (-30…100 °C)

Ordering and shipping details

Category	22375-INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3606480579387
Returnability	No
Country of origin	MX

Packing Units

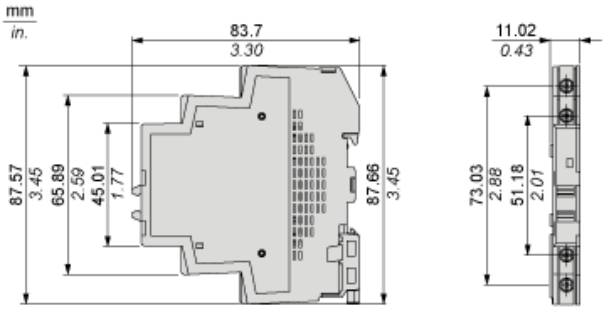
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.39 in (1.0 cm)
Package 1 Width	3.54 in (9.0 cm)
Package 1 Length	3.74 in (9.5 cm)
Package 1 Weight	2.36 oz (67.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	96
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	15.01 lb(US) (6.808 kg)

Offer Sustainability

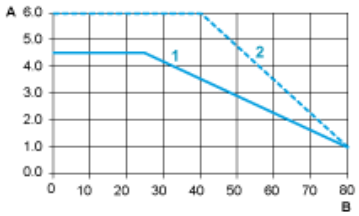
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
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

SSM1A16P7

Dimensions



Derating Curves



A : Load Current (Amperes)
B : Ambient Temperature (°C)
1 : Multiple units, no minimum spacing between components
2 : Installed single unit, distance to adjacent components more than 11 mm