## Product data sheet Characteristics

## SSM1A16B7R

Solid state modular relay, 6 A, random switching, input 18...36 V AC, output 24...280 V AC



#### Main

Maili		
Range of product	Harmony Relay	
Product or component type	Solid state relay	
Device short name	SSM	
Number of channels	1	
Number of phases	1 phase	

### Complementary

Range of product	Harmony Relay		
Product or component type	Harmony Relay		
Device short name	SSM		
Number of channels	1		
Number of phases	1 phase		
Complementary			
Mounting support	Symmetrical DIN rail		
[In] rated current	6 A		
Output voltage	24280 V AC		
[Uc] control circuit voltage	1836 V AC		
Contacts type and configuration	1 NO		
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) for input Screw terminals: 1 x 0.31 x 2.5 mm², (AWG 22AWG 14) for output		
Maximum capacitance	10 pF for input/output		
Insulation resistance	1000 MOhm at 500 V DC		
Local signalling	LED (green)input status:		
Minimum switching voltage	18 V AC turn-on		
Maximum switching voltage	4 V AC turn-off		
Input current	3.58.5 mA		
Solid state output type	Random voltage switching SCR output		
Load current	0.156 A		
Transient overvoltage	600 V		
Surge current	285 A for 16.6 ms 300 A for 20 ms		
Maximum voltage drop	<1.3 V on-state		
Motor power hp	0.16 hp 40 °C 240 V AC		
	410 A <sup>2</sup> .s for 10 ms at 50 Hz 375 A <sup>2</sup> .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	11 mm	
Height	90.3 mm	
Depth	83.7 mm	
Net weight	0.05 kg	

### Environment

4 kV AC for input/output 4 kV AC for input or output to case
2
IEC 60950-1 IEC 62314 IEC 61000
REACH UL CSA
CE
IP20
-3080 °C
-30100 °C

### Packing Units

Package 1 Weight	0.076 kg	
Package 1 Height	0.150 dm	
Package 1 width	0.900 dm	
Package 1 Length	0.950 dm	

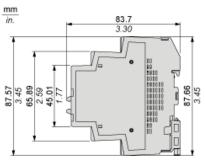
### Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
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

# SSM1A16B7R

#### **Dimensions**



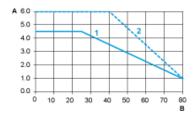




# Product data sheet Performance Curves

# SSM1A16B7R

### **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

