# **Product data sheet**

Specification





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

SSM1A16P7

① Discontinued

! To be discontinued on: 15/05/2024

! To be end-of-service on: 15/08/2024

#### 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
[In] Rated Current	6 A
Output Voltage	24280 V AC
[Uc] Control Circuit Voltage	200265 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) 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) for input status
Minimum Switching Voltage	200 V AC turn-on
Maximum Switching Voltage	90 V AC turn-off
Input Current	2.53.5 mA
Solid State Output Type	Zero 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

Maximum I <sup>2</sup> T For Fusing	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	0.5 cycle (turn-on) 30 ms (turn-off)	
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**

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 CSA
Marking	CE
Ip Degree Of Protection	IP20
Ambient Air Temperature For Operation	-3080 °C
Ambient Air Temperature For Storage	-30100 °C

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.0 cm
Package 1 Width	9.0 cm
Package 1 Length	9.5 cm
Package 1 Weight	67.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	96
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.808 kg



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Transparency RoHS/REACh

### Well-being performance

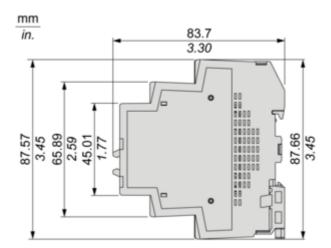
<b>⊘</b>	Reach Free Of Svhc	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

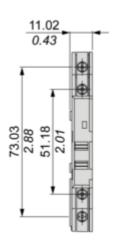
#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

#### **Dimensions Drawings**

#### **Dimensions**



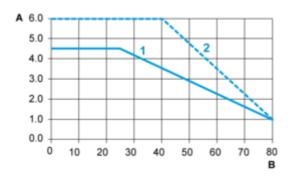


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### **SSM1A16P7**

#### Performance Curves

#### **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