

SSM1A16B7

solid state relay - DIN rail mount - input 18-36 V AC, output 24-280 V AC ,6A



Main

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

Complementary

Mounting support	Symmetrical DIN rail
[In] rated current	6 A
Output voltage	24...280 V AC
Control circuit voltage	18...36 V AC
Contacts type and composition	1 NO
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 mm ² , (AWG 22...AWG 16) for input Screw terminals : 1 x 0.3...1 x 2.5 mm ² , (AWG 22...AWG 14) for output
Capacitance unbalance	<= 10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED green for input status
Switching voltage	>= 18 V AC turn-on <= 4 V AC turn-off
Input current limits	3.5...8.5 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.00015...6 A
Absolute maximum voltage	600 V
Surge current	<= 285 A for 16.6 ms <= 300 A for 20 ms
Voltage drop	<= 1.3 V on-state

Motor power hp	0.16 hp at 40 °C 240 V AC
Maximum I ² t for fusing	375 A ² .s for 8.33 ms at 60 Hz half cycle 410 A ² .s for 10 ms at 50 Hz half cycle
Leakage current	<= 0.1 mA off-state
DV/Dt	500 V/μs off-state at maximum voltage
Response time	30 ms turn-off 0.5 cycle turn-on
Cos phi	>= 0.5 with maximum load
Overvoltage category	III
Width	11 mm
Height	90.3 mm
Depth	83.7 mm
Product weight	0.05 kg

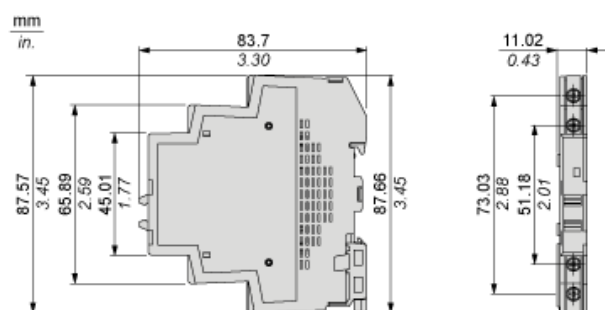
Environment

Flame retardance	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	UL REACH CSA
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-30...80 °C
Ambient air temperature for storage	-30...100 °C

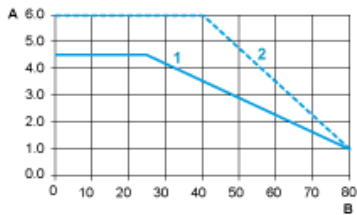
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1328 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available  Product environmental
Product end of life instructions	Available  End of life manual

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