



Main

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

Complementary

Mounting support	Symmetrical DIN rail
[In] rated current	12 A
Output voltage	48...600 V AC
[Uc] control circuit voltage	4...32 V DC
Contacts type and configuration	1 NO
Tightening torque	Input : 0.5...0.8 N.m Output : 0.5...0.8 N.m
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
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	4 V DC turn-on
Maximum switching voltage	1 V DC turn-off
Input current	9...11 mA
Solid state output type	SCR output Zero voltage switching
Load current	0.00015...12 A
Transient overvoltage	1200 V
Surge current	<= 715 A for 16.6 ms <= 750 A for 20 ms

Disclaimer: 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

Voltage drop	<= 1.3 V on-state
Motor power hp	0.33 hp at 40 °C 240 V AC
Maximum I ² t for fusing	2560 A ² .s for 10 ms at 50 Hz half cycle 2330 A ² .s for 8.33 ms at 60 Hz half cycle
Leakage current	<= 0.2 mA off-state
DV/Dt	500 V/μs off-state at maximum voltage
Response time	0.5 cycle turn-on 0.5 cycle turn-off
Power factor	>= 0.5 with maximum load
Overvoltage category	III
Width	18 mm
Height	90.3 mm
Depth	83.7 mm
Product weight	0.09 kg

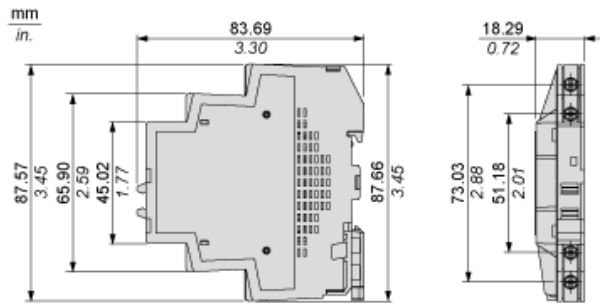
Environment

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

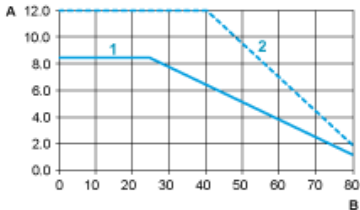
Offer Sustainability

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 end of life instructions	Available

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 18 mm