



### 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	12 A
Output voltage	48...600 V AC
Control circuit voltage	90...140 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 <sup>2</sup> , (AWG 22...AWG 16) for input Screw terminals : 1 x 0.3...1 x 2.5 mm <sup>2</sup> , (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	>= 90 V AC turn-on <= 10 V AC turn-off
Input current limits	3...5 mA
Solid state output type	SCR output Zero voltage switching
Load current	0.00015...12 A
Absolute maximum voltage	1200 V
Surge current	<= 715 A for 16.6 ms <= 750 A for 20 ms
Voltage drop	<= 1.3 V on-state

Motor power hp	0.33 hp at 40 °C 240 V AC
Maximum I <sup>2</sup> t for fusing	2560 A <sup>2</sup> .s for 10 ms at 50 Hz half cycle 2330 A <sup>2</sup> .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	30 ms turn-off 0.5 cycle turn-on
Cos phi	>= 0.5 with maximum load
Overvoltage category	III
Width	18 mm
Height	90.3 mm
Depth	83.7 mm
Product weight	0.09 kg

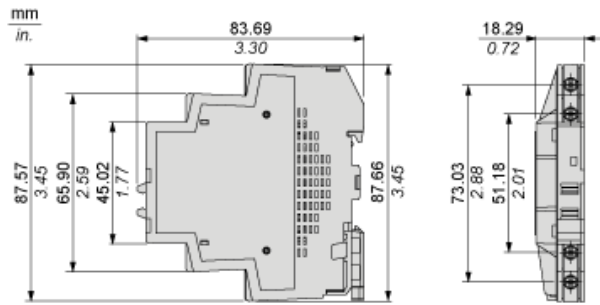
## Environment

Flame retardance	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 60950-1 IEC 61000 IEC 62314
Product certifications	REACH UL CSA
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-30...80 °C
Ambient air temperature for storage	-30...100 °C

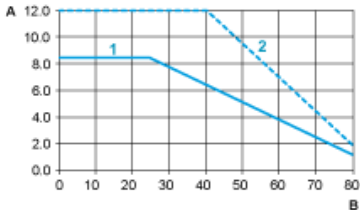
## Offer Sustainability

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

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