



### Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Device short name	SSM1
Network number of phases	1 phase

### Complementary

Mounting support	Symmetrical DIN rail
[In] rated current	30 A
Output voltage	48...660 V AC
Control circuit voltage	90...280 V AC
Contacts type and composition	1 NO
Tightening torque	1.36...1.7 N.m for output 0.6...0.7 N.m for input
Connections - terminals	Screw terminals : 1 x 0.2...1 x 5.3 mm <sup>2</sup> , (AWG 24...AWG 10) for input Screw terminals : 1 x 0.2...1 x 5.3 mm <sup>2</sup> , (AWG 24...AWG 10) for output
Capacitance unbalance	<= 8 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	2...10 mA
Solid state output type	SCR output Zero voltage switching
Load current	0.15...30 A
Absolute maximum voltage	1200 V
Surge current	<= 1200 A for 16.6 ms
Voltage drop	1.6 V on-state
Maximum I <sup>2</sup> t for fusing	6000 A <sup>2</sup> .s for 8.3 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

Leakage current	<= 1 mA off-state
DV/Dt	500 V/ $\mu$ s off-state at maximum voltage
Response time	10 ms turn-on 40 ms turn-off
Overvoltage category	III
Product weight	0.28 kg

## Environment

Dielectric strength	4 kV AC for input/output 4 kV AC for input or output to case
Pollution degree	2
Standards	CSA C22.2 No 14 UL 508 IEC 60950-1
Product certifications	UL EAC CSA
Marking	CSA UL CE EAC
IP degree of protection	IP20
Ambient air temperature for operation	-40...80 °C
Ambient air temperature for storage	-40...125 °C

## Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1522 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
Product environmental profile	Available <a href="#">Product environmental</a>
Product end of life instructions	Available <a href="#">End of life manual</a>

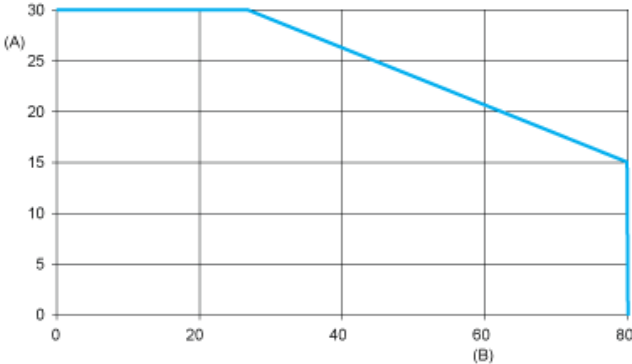
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Dimensions

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- (1) Top view
- (2) Side view
- (3) Front view

Derating Curves



A : Load Current (Amperes)  
B : Ambient Temperature (°C)