



## Main

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

## Complementary

Mounting support	Symmetrical DIN rail
Line Rated Current	45 A
Output voltage	24...280 V AC
[Uc] control circuit voltage	3...32 V DC
Contacts type and composition	1 NO
Tightening torque	Input : 0.6...0.7 N.m Output : 1.36...1.7 N.m
Connections - terminals	Screw terminals : 1 x 0.2...1 x 3.3 mm <sup>2</sup> , (AWG 24...AWG 12) input Screw terminals : 1 x 0.2...1 x 8.4 mm <sup>2</sup> , (AWG 24...AWG 8) output
Capacitance unbalance	<= 8 pF input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED green input status
Switching voltage	1 V DC turn-off 3 V DC turn-on
Input current limits	14...17 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.15...45 A
Absolute maximum voltage	600 V
Surge current	<= 625 A for 16.6 ms
Voltage drop	1.6 V on-state
Maximum I <sup>2</sup> t for fusing	1620 A <sup>2</sup> .s 8.3 ms
Leakage current	<= 10 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
Overvoltage category	III
Product weight	1.05 lb(US) (0.476 kg)

## Environment

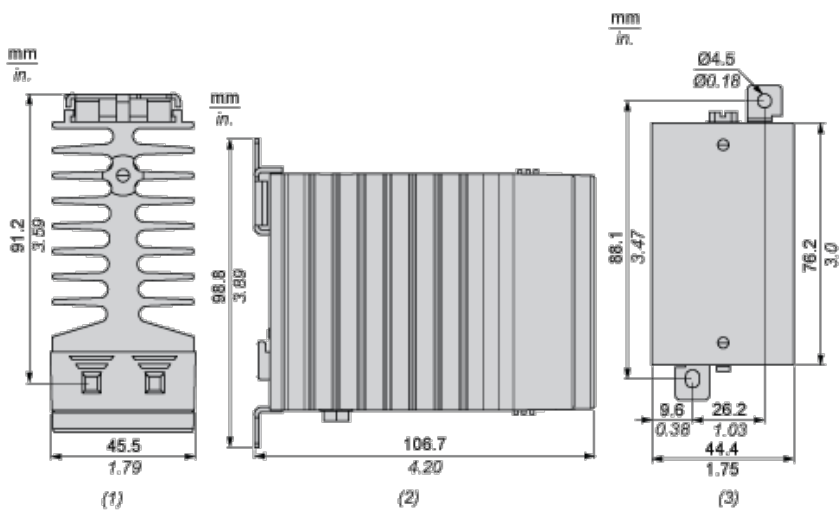
dielectric strength	4 kV AC input/output 4 kV AC input or output to case
pollution degree	2
standards	UL 508 IEC 60950-1 CSA C22.2 No 14
product certifications	CSA UL EAC

marking	CE CSA UL EAC
IP degree of protection	IP20
ambient air temperature for operation	-40...176 °F (-40...80 °C)
ambient air temperature for storage	-40...257 °F (-40...125 °C)

## Offer Sustainability

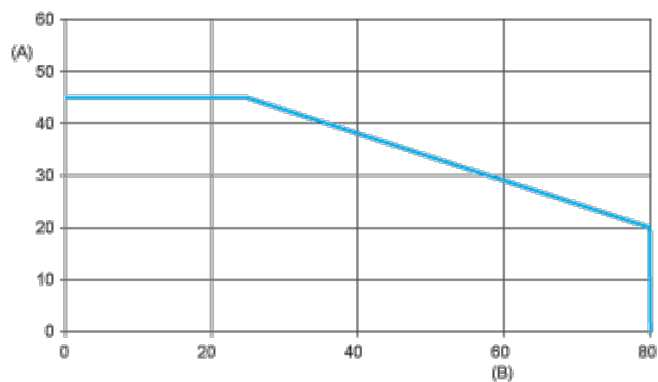
Green Premium product	Green Premium product
Compliant - since 1522 - Schneider Electric declaration of conformity	Compliant - since 1522 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Dimensions



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

## Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)