

# Product Datasheet

## Characteristic

# SSM1A36BD

solid state relay - DIN rail mount - input  
4-32 V DC, output 48-600 V AC ,6A



## Main

range of product	Zelio Relay
product or component type	Solid state relay
device short name	SSM
number of channels	1
Phase	1 phase

## Complementary

mounting support	Symmetrical DIN rail
Line Rated Current	6 A
output voltage	48...600 V AC
[Uc] control circuit voltage	4...32 V DC
contacts type and composition	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 <sup>2</sup> , (AWG 22...AWG 16) input Screw terminals : 1 x 0.3...1 x 2.5 mm <sup>2</sup> , (AWG 22...AWG 14) output
capacitance unbalance	<= 10 pF input/output
insulation resistance	1000 MOhm at 500 V DC
local signalling	LED green input status
minimum switching voltage	4 V DC turn-on
maximum switching voltage	1 V DC turn-off
input current limits	8...11 mA
solid state output type	Zero voltage switching SCR output
load current	0.00015...6 A
absolute maximum voltage	1200 V
surge current	<= 285 A 16.6 ms <= 300 A 20 ms
voltage drop	<= 1.3 V on-state
motor power hp	0.16 hp at 104 °F (40 °C) 240 V AC
maximum I <sup>2</sup> t for fusing	375 A <sup>2</sup> .s 8.33 ms at 60 Hz half cycle 410 A <sup>2</sup> .s 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	0.5 cycle turn-on 0.5 cycle turn-off
cos phi	>= 0.5 with maximum load
overvoltage category	III
width	0.43 in (11 mm)
height	90.3 mm
depth	83.7 mm
product weight	0.11 lb(US) (0.05 kg)

## Environment

flame retardance	V0 conforming to UL 94
dielectric strength	4 kV AC input/output 4 kV AC input or output to case
pollution degree	2
standards	IEC 61000 IEC 60950-1 IEC 62314
product certifications	CSA UL REACH
marking	CE
IP degree of protection	IP20
ambient air temperature for operation	-22...176 °F (-30...80 °C)
ambient air temperature for storage	-22...212 °F (-30...100 °C)

## Offer Sustainability

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