

Product Datasheet

Characteristic

SSM1A445BD

solid state relay - DIN rail mount - input
4-32Vdc, output 48-660Vac, 45A



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	48...660 V AC
[Uc] control circuit voltage	4...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 ² , (AWG 24...AWG 12) input Screw terminals : 1 x 0.2...1 x 8.4 mm ² , (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	4 V DC turn-on 1 V DC turn-off
input current limits	14...17 mA
solid state output type	Zero voltage switching SCR output
load current	0.15...45 A
absolute maximum voltage	1200 V
surge current	
voltage drop	1.7 V on-state
maximum I ² t for fusing	1620 A ² .s 8.3 ms
leakage current	<= 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

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

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1522 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available