

SSRDF8S45A1

solid state relay - DIN rail mount - input 90-280 V AC, output 24-280 V AC, 45A



Main

Range of product	Zelio Relay
Product or component type	Solid state relay
Device short name	SSR
Network number of phases	1 phase
Mounting support	Symmetrical DIN rail
[In] rated current	45 A
Output voltage	24...280 V AC
Control circuit voltage	90...140 V AC

Complementary

Contacts type and composition	1 NO
Tightening torque	0.6...0.7 N.m for input 1.1...1.7 N.m for output
Connections - terminals	Screw terminals 1 x 0.2...1 x 3.3 mm ² for input - AWG 24...AWG 12 Screw terminals 1 x 0.2...1 x 8.4 mm ² for output - AWG 24...AWG 8
Local signalling	LED green for input status
Switching voltage	90 V AC turn-on 10 V AC turn-off
Input current limits	15 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.15...45 A
Output sustained overvoltage	600 V
Surge current	625 A for 16.6 ms
Voltage drop	1.6 V on-state
Maximum I ² t for fusing	1620 A ² .s for 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

Environment

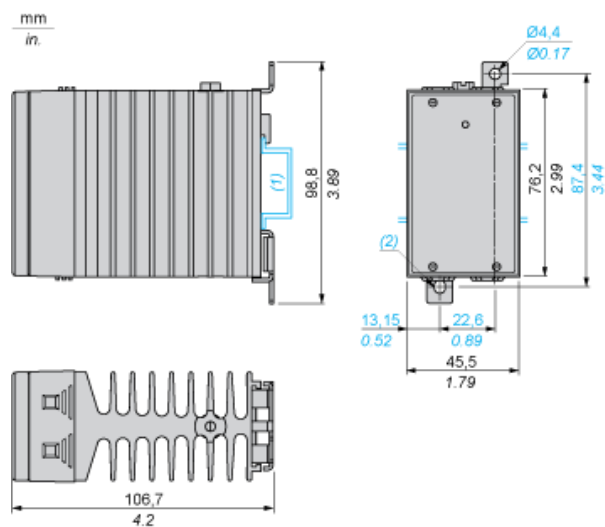
Standards	UL E258297 CSA LR 40487 IEC 60950-1 IEC 62314
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-40...80 °C
Ambient air temperature for storage	-40...125 °C

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0940 - Schneider Electric declaration of conformity

Dimensions

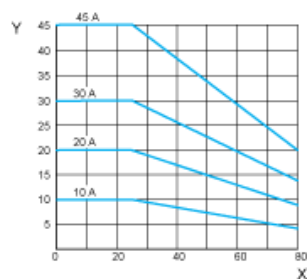
DIN Rail Mounting



- (1) 35 mm/1.37 in. DIN rail.
(2) Ø 4.4 mm x 5.5 mm / Ø 0.17 in. x 0.22 in. elongated hole

Thermal Derating Curves

10...45 A Relays



X Ambient temperature (°C)

Y Output current (Arms)

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.