

SSRDCDS20A1

solid state relay - DIN rail mount - input 4-32 V DC, output 24-280 V AC, 20A



Main

Range of Product	Zelio Relay
Product or Component Type	Solid state relay
Device short name	SSR
Phase	1 phase
Mounting Support	Symmetrical DIN rail
Line Rated Current	20 A
Output voltage	24...280 V AC
[Uc] control circuit voltage	4...32 V DC

Complementary

Contacts type and composition	1 NO
Tightening torque	0.6...0.7 N.m for input 0.6...0.7 N.m for output
Connections - terminals	Screw terminals 1 x 0.2...1 x 5.3 mm ² input - AWG 24...AWG 10 Screw terminals 1 x 0.2...1 x 5.3 mm ² output - AWG 24...AWG 10
Local signalling	For input status LED (green)
Switching voltage	4 V DC turn-on 1 V DC turn-off
Input current limits	8...12 mA
Solid state output type	SCR output Zero voltage switching
Load current	0.15...20 A
Absolute maximum voltage	600 V
Surge current	250 A 16.6 ms
Maximum voltage drop	<1.6 V on-state
Maximum I ² t for fusing	260 A ² .s 8.3 ms
Maximum 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)

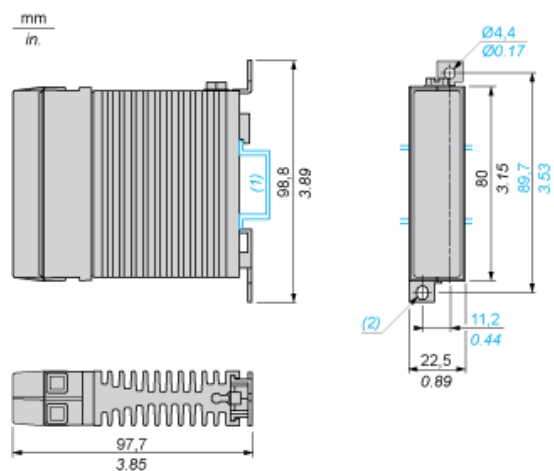
Environment

Standards	IEC 62314 CSA LR 40487 UL E258297 IEC 60950-1
Marking	CE
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)

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Dimensions

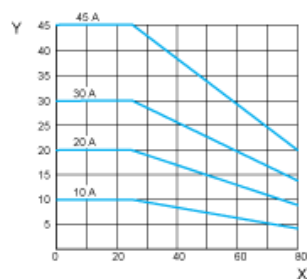
DIN Rail Mounting



- (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.

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