

Product datasheet

Specifications



solid state relay - DIN rail mount -
input 4-32 V DC, output 24-280 V
AC, 45A

SSRDCDS45A1

⚠ Discontinued on: 01-Nov-2020

⚠ Discontinued

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
[Uc] control circuit voltage	3...32 V DC

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	4 V DC turn-on 1 V DC turn-off
Input current limits	17 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
Maximum voltage drop	<1.6 V on-state
Maximum I ² t for fusing	1620 A ² .s for 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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

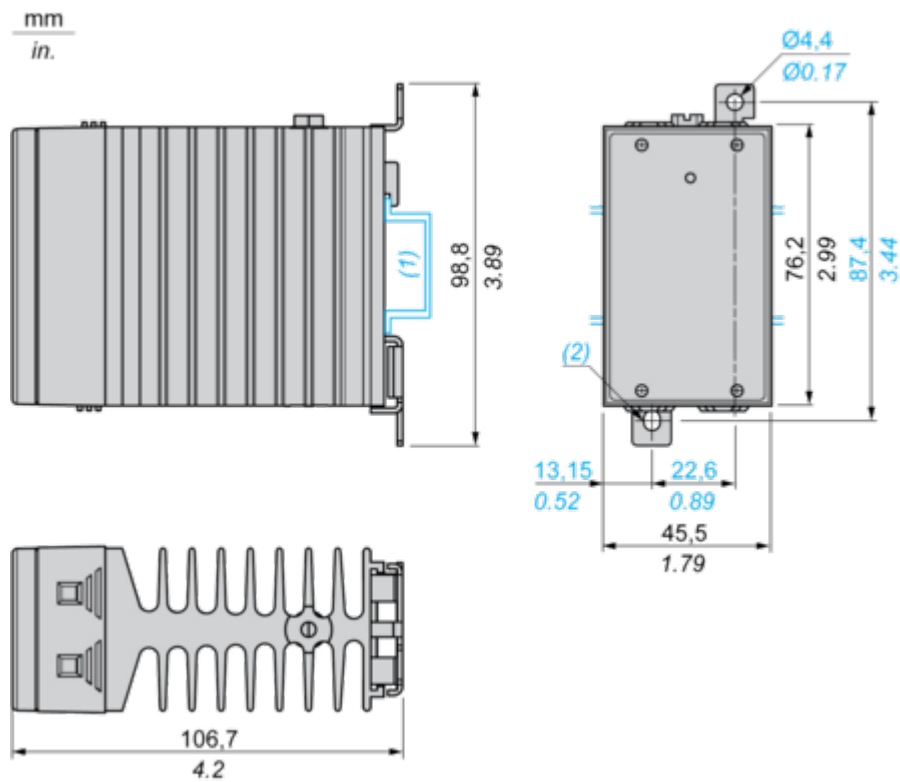
Contractual warranty

Warranty	18 months
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Dimensions Drawings

Dimensions

DIN Rail Mounting

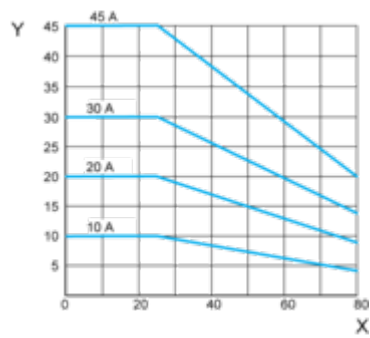


- (1) 35 mm/1.37 in. DIN rail.
(2) Ø 4.4 mm x 5.5 mm / Ø 0.17 in. x 0.22 in. elongated hole

Performance Curves

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.

Technical Illustration

Dimensions

