

Product datasheet

Specifications



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

SSRDCDS45A1

⚠ Discontinued on: 20 Jan 2022

⚠ To be end-of-service on: 31 Mar 2028

⚠ 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

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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 (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

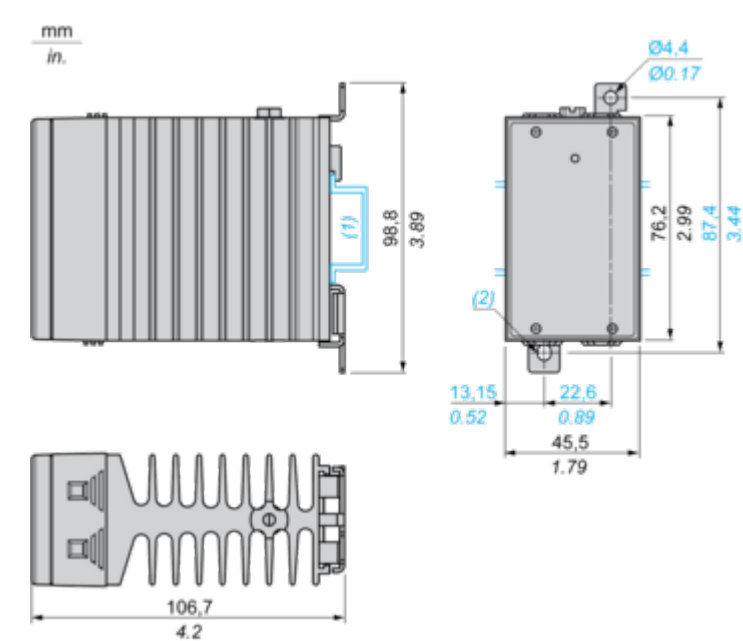
Use Longer

Lifetime extension	
Repair	No

Dimensions Drawings

Dimensions

DIN Rail Mounting

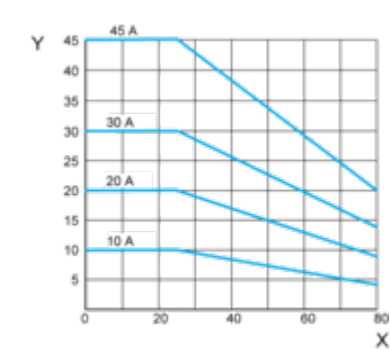


- (1) 35 mm/1.37 in. DIN rail.
(2) Ø 4.4 mm x 5.5 mm / Ø 0.17 in. x 0.22 in. elongated hole

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

