

# Product datasheet

Specifications



solid state relay - DIN rail mount -  
input 4-32 V DC, output 24-280 V  
AC, 10A

SSRDCDS10A1

⚠ Discontinued on: Aug 27, 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           | 10 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<br>0.6...0.7 N.m for output                                                                                                             |
| Connections - Terminals       | Screw terminals 1 x 0.2...1 x 5.3 mm <sup>2</sup> for input - AWG 24...AWG 10<br>Screw terminals 1 x 0.2...1 x 5.3 mm <sup>2</sup> for output - AWG 24...AWG 10 |
| Local Signalling              | LED (green) for input status                                                                                                                                    |
| Switching Voltage             | 4 V DC turn-on<br>1 V DC turn-off                                                                                                                               |
| Input Current Limits          | 8...12 mA                                                                                                                                                       |
| Solid State Output Type       | Zero voltage switching<br>SCR output                                                                                                                            |
| Load Current                  | 0.15...10 A                                                                                                                                                     |
| Output Sustained Overvoltage  | 600 V                                                                                                                                                           |
| Surge Current                 | 120 A for 8.3 ms                                                                                                                                                |
| Maximum Voltage Drop          | <1.6 V on-state                                                                                                                                                 |
| Maximum I²T For Fusing        | 60 A².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)<br>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<br>IEC 62314<br>IEC 60950-1<br>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                                           |

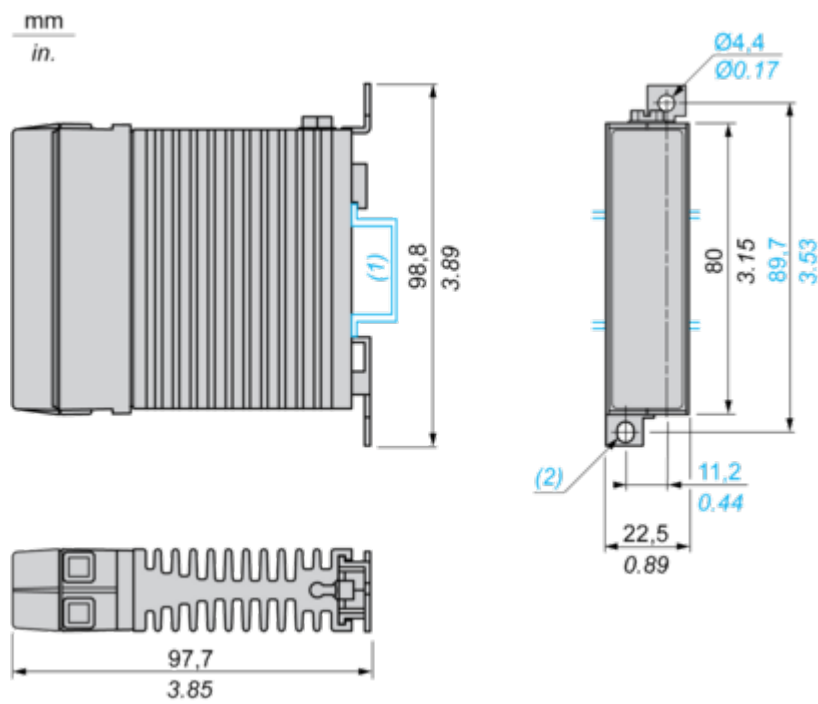
## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions Drawings

Dimensions

DIN Rail Mounting

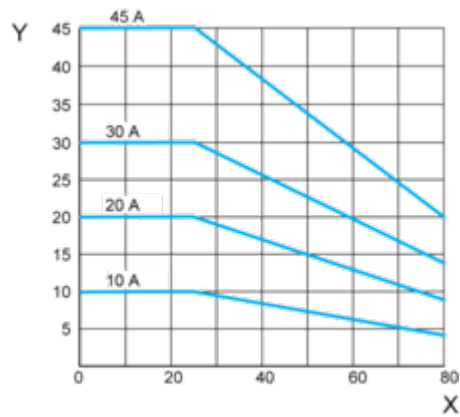


- (1) 35 mm/1.37 in. DIN rail.
- (2) Ø 4.4 mm x 5.5 mm / Ø 0.17 in. x 0.22 in. elongated hole

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.