

# Product data sheet

Specifications



solid state relay - panel mounting -  
input 3-32 V DC, output 48-660 V  
AC, 90A

SSRPCDS90A3

⚠ Discontinued on: Jan 29, 2021

⚠ 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             | Panel             |
| [In] Rated Current           | 90 A              |
| Output Voltage               | 48...660 V AC     |
| [Uc] Control Circuit Voltage | 4...32 V DC       |

## Complementary

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Contacts Type And Composition | 1 NO                                      |
| Tightening Torque             | <= 1.1 N.m input<br><= 2.2 N.m output     |
| Local Signalling              | Input status LED (green)                  |
| Switching Voltage             | 4 V DC turn-on<br>1 V DC turn-off         |
| Input Current Limits          | 10 mA                                     |
| Solid State Output Type       | Zero voltage switching<br>SCR output      |
| Load Current                  | 0.25...90 A                               |
| Output Sustained Overvoltage  | 1200 V                                    |
| Surge Current                 | 1200 A 16.6 ms                            |
| Maximum Voltage Drop          | <1.6 V on-state                           |
| Thermal Resistance            | 0.28 °C/W                                 |
| Maximum I²T For Fusing        | 6000 A².s 8.3 ms                          |
| Maximum Leakage Current       | 1 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                             | IEC 60950-1<br>CSA LR 40487<br>UL E258297<br>IEC 62314 |
| 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)                            |

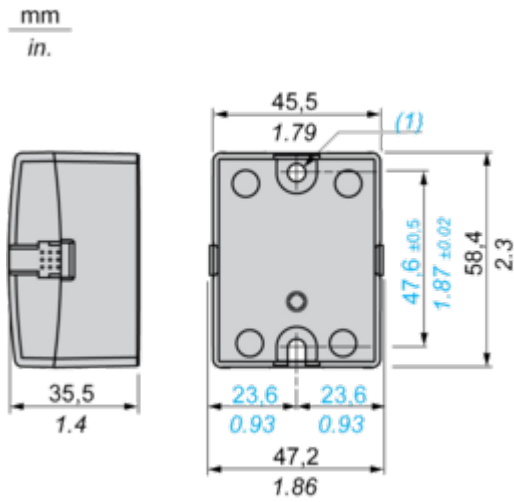
## Contractual warranty

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

## Dimensions Drawings

## Dimensions

## Panel Mounting

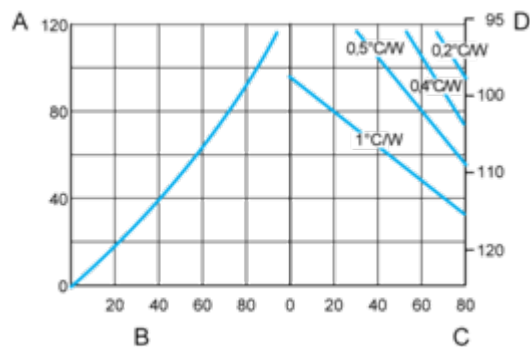


(1) Ø4.9 ±0.25 mm / Ø0.016 ±0.0098 in. hole

Performance Curves

Thermal Derating Curves

90 A Relays



A: Power dissipation

B: Load current (Amps)

C: Max. ambient temperature (°C)

D: Base plate temperature (°C)

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