

## Features

- High switching speed
- Low control power
- RC filter protection for AC models
- 2500 V input-output insulation
- Zero-crossing switching
- VDE and CE certification

## RS PRO Solid State Relays

Stock No: 0677049



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

Solid state relays are electronic switching device. These devices don't have any moving parts. A solid state relay switches power (AC or DC) to the load circuits and provides electrical insulation between the control and the load.

It is important to remember that solid state relays have a high switching frequency that allows a very high degree of accuracy. Moreover, solid state relay has a long service life 300 times longer than an electromechanical relay.

This product **600892** is one phase until 5A in AC.

## General Specifications

|                              |                       |
|------------------------------|-----------------------|
| <b>Model Number</b>          | 0677049               |
| <b>Output current</b>        | 5 A (3 A Ta=40°C)     |
| <b>Load voltage range</b>    | 12 – 275 VAC          |
| <b>Operating Temperature</b> | -20°C..... +80°C      |
| <b>Storage Temperature</b>   | -40°C..... +100°C     |
| <b>Surge Protection</b>      | YES                   |
| <b>Relative humidity</b>     | 95% non-condensing    |
| <b>Insulation</b>            | YES                   |
| <b>Mounting</b>              | PCB or with interface |

## Mechanical Specifications

|               |                               |
|---------------|-------------------------------|
| <b>Width</b>  | 33.1 mm (25.1 mm without pin) |
| <b>Length</b> | 43.1 mm                       |
| <b>Depth</b>  | 10.7 mm                       |

## Electrical Specifications

|                            |                      |
|----------------------------|----------------------|
| Maximum block voltage      | 275 VAC              |
| Output voltage drop        | < 1.5 VAC            |
| Minimum working current    | 60 mA                |
| Control current range      | 2.75 ÷ 9.70 mA       |
| Nominal control current    | 7 mA ±10% Vin=24 VDC |
| Control pick-up voltage    | 3 VDC                |
| Control drop-out voltage   | < 7 VDC              |
| Turn on time               | ≤ 10 ms              |
| Turn off time              | ≤ 10 ms              |
| Isolation voltage AC, 1min | 2.5 kV               |

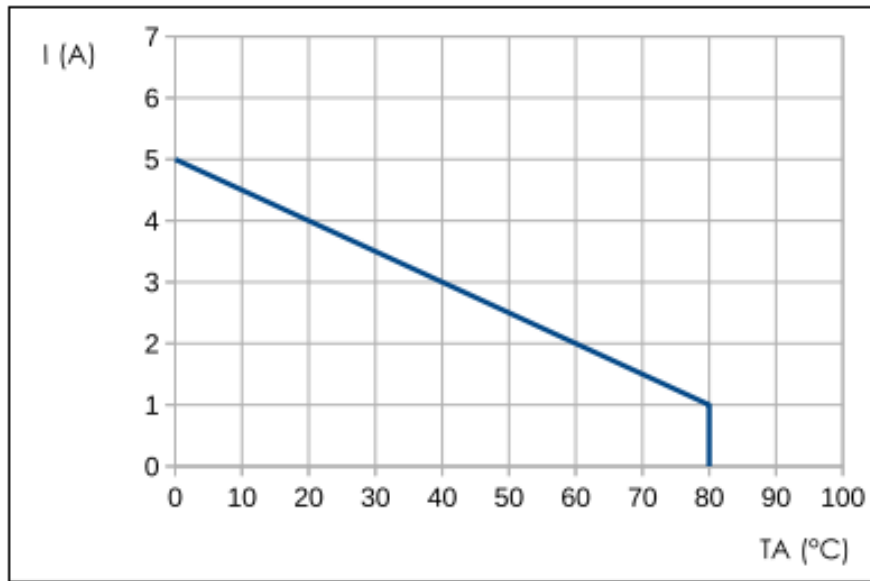
## Protection Category

|           |    |
|-----------|----|
| IP rating | 20 |
|-----------|----|

## Approvals

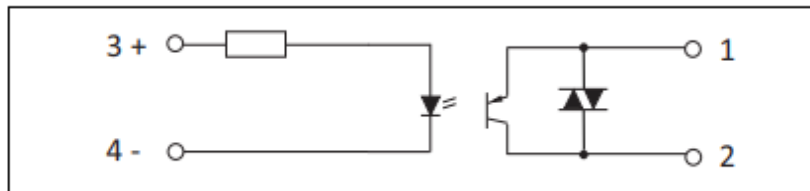
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|------------------------------|----------------|
| Compliance/Certifications    | CE/UKCA, cURus |
| Hazardous Area Certification | ROHS-3         |

## Derating Curves and Connections



- Stand alone installed SSR
- Side by side installed SSRs

I (A) = Current  
TA (°C) = Environment temperature



Simplified circuit diagram 5A, 240 VAC version