

## Features

- High switching speed
- Low control power
- Very slim design
- Zero-crossing switching

## RS PRO Solid State Relays

Stock No: 0677058



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 **600900** is one phase until 2A in AC.

## General Specifications

<b>Model Number</b>	0677058
<b>Output current</b>	2 A
<b>Load voltage range</b>	12 – 275 VAC
<b>Operating Temperature</b>	-30°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>	18.8 mm (15 mm without pin)
<b>Length</b>	28 mm
<b>Depth</b>	5 mm

## Electrical Specifications

Maximum block voltage	275 VAC
Output voltage drop	< 1.6 VAC
Minimum working current	22 mA
Control current range	5.6 ÷ 27.5 mA ±10%
Nominal control current	12 mA ±10% Vin=5 VDC
Control pick-up voltage	3 VDC
Control drop-out voltage	< 3 VDC
Turn on time	≤ 10 ms
Turn off time	≤ 10 ms
Isolation voltage AC, 1min	2.5 kV

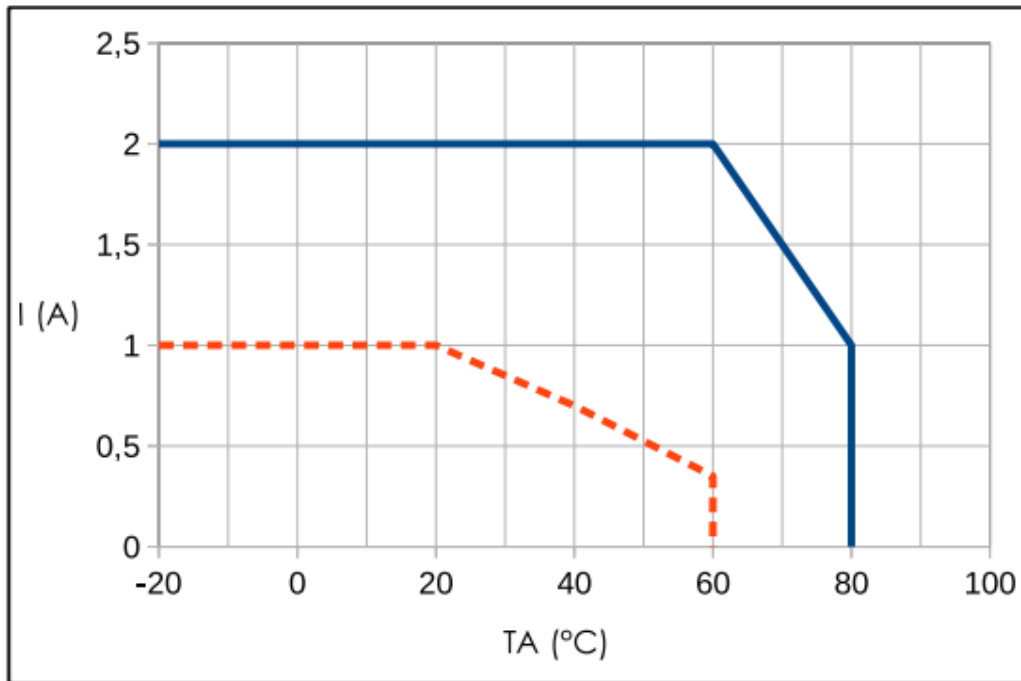
## Protection Category

IP rating	20
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## Approvals

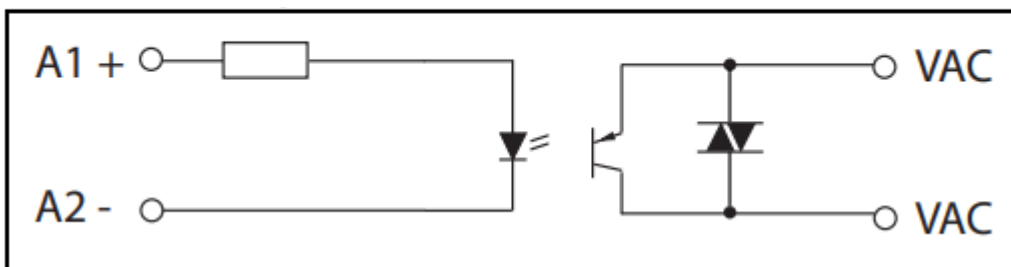
Compliance/Certifications	CE/UKCA, cURus
Hazardous Area Certification	ROHS-3

## Derating Curves and Connections



- Stand alone installed SSR
- Side by side installed SSRs

$I$  (A) = Current  
 $T_A$  (°C) = Environment temperature



Simplified circuit diagram 2 A, 240 VAC version with TRIAC Output