

## Features

- High switching speed
- Low control power
- 5 mm depth
- 3750 V input-output insulation
- Zero-crossing switching

## RS PRO Solid State Relays

Stock No: 0677051



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 **600894** is one phase until 8A in DC.

## General Specifications

<b>Model Number</b>	0677051
<b>Output current</b>	8 A
<b>Load voltage range</b>	1 – 30 VDC
<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	33 VDC
Output voltage drop	< 80 mVDC
Minimum working current	10 mA
Control current range	4.4 ÷ 11.5 mA ±10%
Nominal control current	6.7 mA ±10% $V_{in}=5$ VDC
Control pick-up voltage	3 VDC
Control drop-out voltage	< 3 VDC
Turn on time	< 60 $\mu$ s
Turn off time	< 100 $\mu$ s
Resistive load	500 Hz
Isolation voltage AC, 1min	3.75 kV

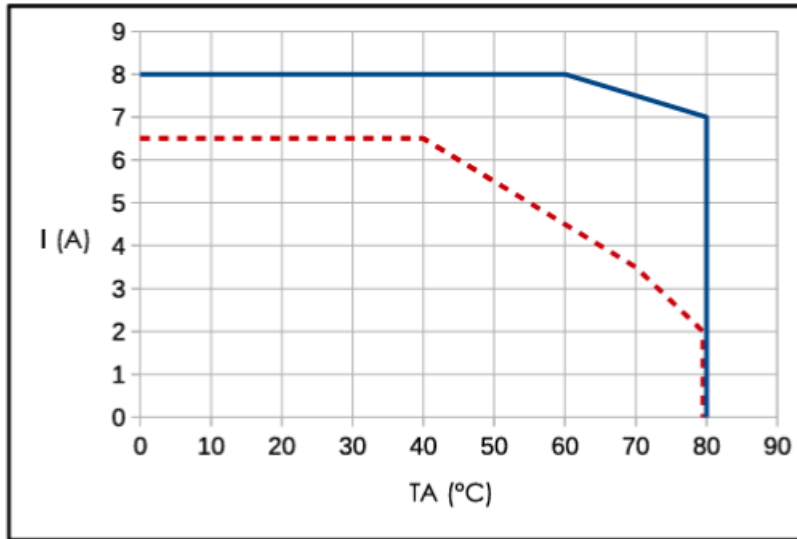
## Protection Category

IP rating	20
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## Approvals

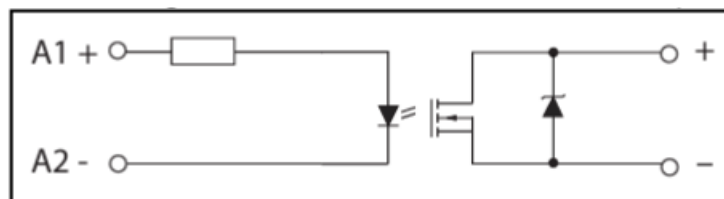
Compliance/Certifications	CE/UKCA, cURus
Hazardous Area Certification	ROHS-3

## Derating Curves and Connections



----- Stand alone installed SSR  
 - - - - Side by side installed SSRs

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



Simplified circuit diagram 8 A, 24 VDC version with MOS-FET Output