Features

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

RS PRO Solid State Relays

Stock No: 0677041

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 **600905** is one phase until 100 mA in DC.

General Specifications

Model Number	0677041
Output current	100 mA
Load voltage range	0 – 48 VDC
Operating Temperature	-30°C.....+80°C
Storage Temperature	-40°C.....+100°C
Surge Protection	YES
Relative humidity	95% non-condensing
Insulation	YES
Mounting	PCB or with interface

Mechanical Specifications

Width	18.8 mm (15 mm without pin)
Length	28 mm
Depth	5 mm

Electrical Specifications

Maximum block voltage	60 VDC
Output voltage drop	< 1 VDC
Minimum working current	10 mA
Control current range	2.2 ÷ 4.6 mA ±10%
Nominal control current	3.5 mA ±10% Vin=60 VDC
Control pick-up voltage	35 VDC
Control drop-out voltage	< 35 VDC
Turn on time	< 40 µs
Turn off time	< 600 µs
Isolation voltage AC, 1min	3.75 kV

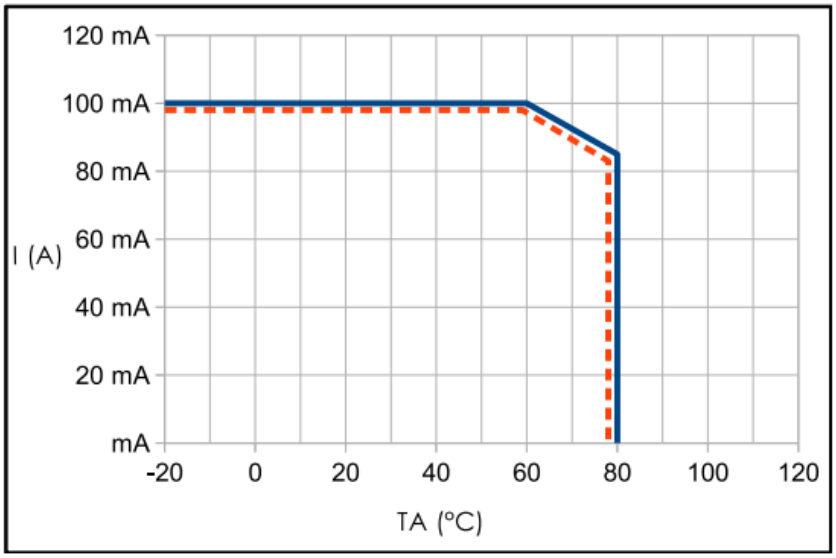
Protection Category

IP rating	20

Approvals

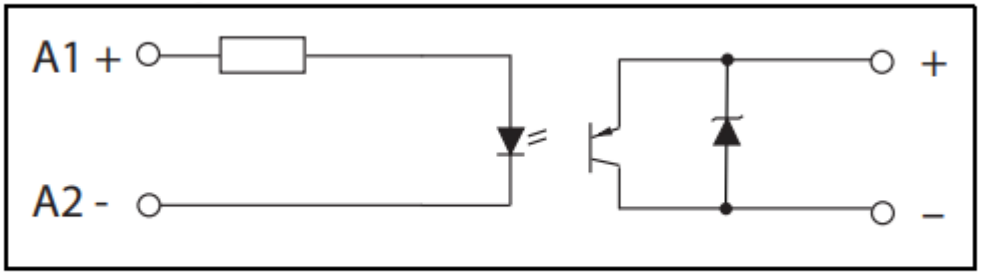
Compliance/Certifications	CE/UKCA, cURus
Hazardous Area Certification	ROHS-3

Derating Curves and Connections



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

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



Simplified circuit diagram 100 mA, 48 VDC version with bipolar Transistor Output