

Features

- Pin to Pin compatible with electromechanical relays
- Led input voltage
- Non polarized input
- 2500 V input-output insulation
- Zero crossing commutation for models with AC voltage output or instantaneous for DC voltage output models
- RC filter protection for AC models

RS PRO Solid State Relays

Stock No: 0677055



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 **600897** is one phase until 5A in DC.

General Specifications

| | |
|------------------------------|-----------------------|
| Model Number | 0677055 |
| Output current | 5 A |
| Load voltage range | 0 – 35 VDC |
| Operating Temperature | -20°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 | 15.7 mm |
| Length | 29 mm |
| Depth | 12.7 mm |

Electrical Specifications

| | |
|----------------------------|--|
| Maximum block voltage | 33 VDC |
| Output voltage drop | 300 mV (Vout=24 Vdc; Iout=5 A) |
| Minimum working current | 10 mA |
| Control current range | 3.9 ÷ 15.3 mA ±10% (with Led) 2.3 ÷ 8.9 mA ±10% (without Led) |
| Nominal control current | 10.5 mA ±10% Vin=24 VDC |
| Control pick-up voltage | 10 VDC |
| Control drop-out voltage | < 10 VDC |
| Turn on time | 50 µs |
| Turn off time | 250 µs |
| Isolation voltage AC, 1min | 2.5 kV |

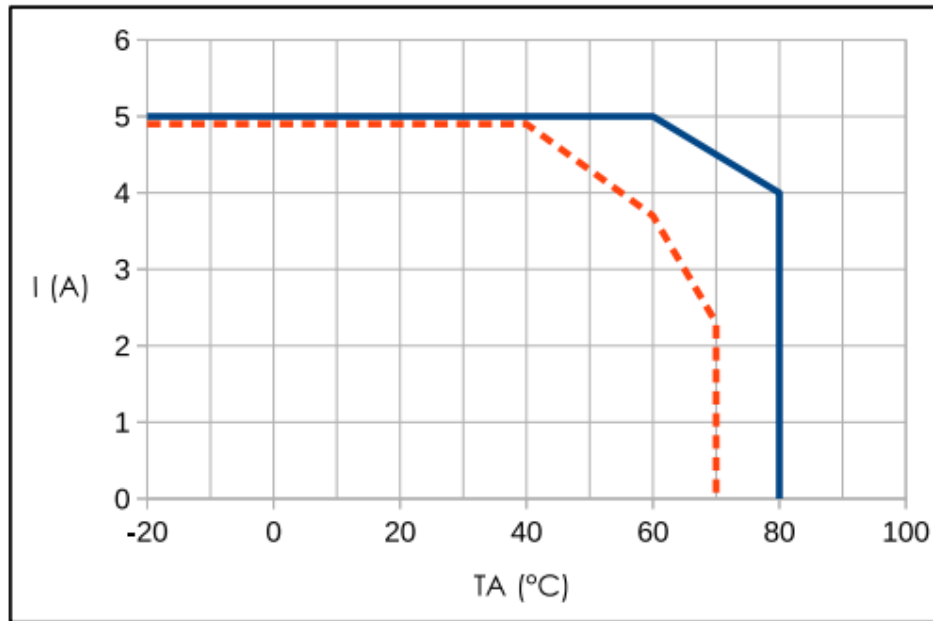
Protection Category

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

Approvals

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

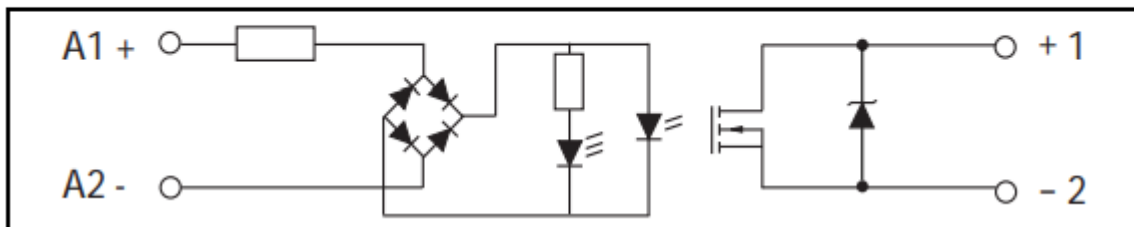
Derating Curves and Connections



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

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

α



Simplified circuit diagram 5 A, 24 VDC version with MOS-FET Output