



**Sensors**



**Switches**



**Controls**



**Fieldbuses**

## Application notes



**Application Note : October 2016**

**Market involved : Plastic & Rubber**

**Product : RK2**

**Customer : OEMs**

**Subject : Switching of heaters in rubber compression injection machines**

### CUSTOMER ISSUE :

In this kind of application the use of 3-phase solid state relays for switching of electrical heaters is typical.

OEMs need to design smaller panels to meet their customers' needs and hence need more compact solutions that are also cost effective.

Machine stoppage is critical to productivity and to quality of parts.

A solution that can work reliably in an industrial environment is required.

### OUR SOLUTION :

The RK2 is a 2-pole solid state relay with a product width of 45 mm, in which the two poles are switched through a common control.

This makes the RK2 an ideal solution for economy switching of 3-phase loads. This is possible when the point of star connected 3-phase loads is not connected to Neutral.

The output of the RK has integrated overvoltage protection. This protects the SSR from breaking down in case of over-voltage exceeding the rated blocking voltage of the SSR.

### BENEFITS :

- Space savings: product width of 45 mm as opposed to >100 mm for 3-phase solid state relays
- Cost effective with only 2 switching poles for 3-phase loads (economy switching)
- Fewer downtimes by means of integrated protection for trouble free operation