

CG APPLICATIONS

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Application Note : 03 October 2006

Market involved: Plastic & Rubber

Product : ThyRex RX1A48D51VCHT

Customer : Plastic Service GmbH
(Germany)

Subject : Heater Controls for
Plastic Machinery

CUSTOMER ISSUE :

The space occupied by the heater controller system has to be smaller, without compromising the performance of the solid state relays.

The customer has been using 75A rated solid state relays in the traditional 45mm wide platform.

The SSR current rating cannot be reduced due to thermal considerations. Moreover, the SSR specifications has to match the short circuit protection already utilized by the customer.

The combination of the existing solid state relays and circuit breakers has so far proved to be a reliable solution.

Technical parameters would need to remain unchanged.

OUR SOLUTION:

The right specifications can be offered in the slim RX ThyRex which is only 22.5mm wide and can now hold a 90A power unit inside.

50% of the original space will be saved. The customer can now assemble 9 SSRs on a heatsink which is only 205mm long.

This solution also makes use of forced cooling and a specially designed air-flow enhancement chamber.

The customer will also be controlling the ThyRex through an Ethernet-based communication bus.

The ThyRex provides an ideal interface through the plug-in input connection on the front panel, to which the customer will connect the communication circuit board.

ACHIEVED BENEFITS:

- Customer does not need to alter circuitry since I²t for fusing and ITSM surge current specifications of the solid state relay are not changed.
- The same operation is achieved with RX in 50% less space when compared to the conventional 45mm solution
- Output terminal configuration of RX solution gives way to better organisation of power cables.
- The control terminal on RX is an industry standard to make interfacing easier for the customer.

