

Application note



Subject:
Control of heaters in plastic injection machines

Industry:
Plastic and rubber

Product:
**RS1A48D40E + RHS5050D
RS1A48D80E + RHS5050D**

Customer:
OEMs

CUSTOMER ISSUE

The OEM is looking to change over from their current SSR supplier but needs a single supplier to provide both a 40A and 75A solution.

Since an SSR with a factory mounted heatsink was supplied to the OEM, both SSR solutions needed to be pre-mounted on a heatsink.

Pricing for both solutions was critical as their current supplier provided low-end SSRs (with lower specification than other high-end SSRs in their portfolio) for controlling heater loads.

OUR SOLUTION

With the extension of the RS_E series up to 100 AAC, we can offer the RS_80E in addition to the RS_40E to replace lower-end 75 A and 40 A SSRs.

With the lower specification of the RS_E compared to the higher-end solutions such as the RM/RAM series, we have been able to offer a cost-effective solution, whilst still being able to meet the competitor's specifications.

The RS1A48D40E, maximum rated 528 VAC 40 AAC, and the RS1A48D80E, maximum rated 528 VAC 80 AAC, are the most suitable replacement for the customer's current solution.

Each SSR comes pre-assembled on the RHS5050D heatsink to meet the customer's requirements.

BENEFITS

- **Installation time savings** with a pre-mounted heatsink solution
- **Reduced machine downtime:** The integrated overvoltage protection helps protect the SSR from breakdown in the event of uncontrolled voltage transients, avoiding lengthy and costly unplanned production downtime
- **Ease of use:** Control-on LED indication for identification of control voltage presence