



Sense



Switch



Control

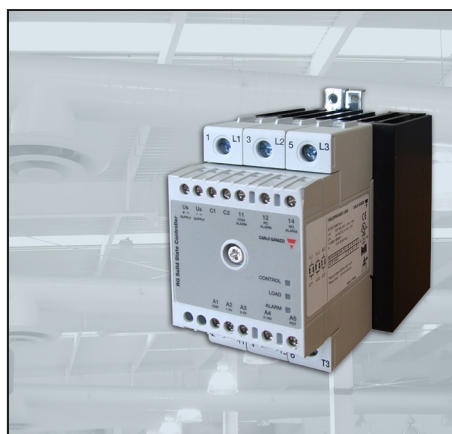


Fieldbus



**EcoEnergy
equipment**

Application notes



Application Note : September 2013

Market involved : HVAC

Product : RGC2P60V40C1DM

Customer : Air handling units manufacturer

Subject : Switching of heaters

CUSTOMER ISSUE :

Switching of 3-phase heater banks rated 27kW at 400VAC through economy switching. Solid state solution must accept a control input of 0-10V available from the temperature controller and have an integrated heatsink.

OUR SOLUTION :

The RGC2P series is a 3-phase 2 pole switching series that enables economy switching.

The RGC2P60V40C1DM is a solution with integrated heatsink rated 40AAC @ 40°C (104°F) ideal for this application. Switching is done through distributed full cycle which creates less noise emissions and disturbances on the lines as compared to phase angle switching.

Additionally, the RGC2P..M integrates monitoring for immediate detection of SSR and/or load malfunction.

ACHIEVED BENEFITS :

- Cost effective solution with economy switching
- Ready to use solution through integrated heatsink
- Compact solution for panel space optimisation
- Easy diagnostics and fault detection through integrated system monitoring