



Sense



Switch



Control



Fieldbus



EcoEnergy
equipment

Application notes



Application Note : September 2013

Market involved : Food & Beverage

Product : RGC2P60I75C1AFM

Customer : Food equipment OEM

Subject : Switching of heaters in electric ovens

CUSTOMER ISSUE :

Customer is currently using Watlow DIN-A-MITE DC22-xxF0-0000 controller having a control input of 4-20mA and burst full cycle switching mode. The analog output from the temperature controller is fed directly to the solid state controller.

Performance is quite satisfactory but customer needs to stock 2 different items: one for 220V applications and another one for the 600V applications. The terminals marking and layout of the existing solution are not clearly indicated and not easy to wire.

The alternative solution to solve these issues is to be UL listed and be certified for at least 100kArms short circuit current rating.

OUR SOLUTION :

The RGC2P60I75C1AFM is the alternative solution to the DC22-xxF0-0000 addressing customer application and issues.

The 'I' version can be controlled with a 4-20mA input. Switching mode is a distributed single full cycle switching, giving the added benefit of precise accurate temperature control versus the three full cycles switching from the DIN-A-MITE model.

The RGC2P series has a multivoltage operational range starting from 180VAC up to 660VAC catering for the different mains voltages with one product variant.

ACHIEVED BENEFITS :

- Reduction in lead time and stock inventory; stocking of 1 item for all applications irrespective of mains voltage
- Fast and easy installation; user friendly terminals marking and layout
- UL listing and 100kA short circuit current rating facilitates UL approval of the complete oven