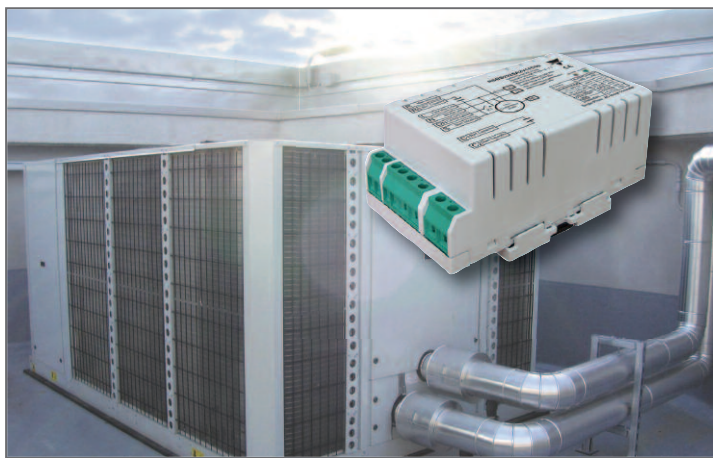


# CG APPLICATIONS

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**Application Note :** April 9<sup>th</sup> 2008

**Market involved :** HVAC

**Product :** RSBS2325A2V1 1C24

**Customer :** ---

**Subject :** Compressor control in heat pumps

## CUSTOMER ISSUE :

The consumer must keep power consumption as low as possible in order to conform with the limits imposed by the energy companies.

Switching of the compressor must not result in light flickering and must create the least disturbances possible.

The solution must be safe to eliminate the possibility of electric shock.

The space available is limited and the softstarter must fit in with the possibility to mount it on DIN-rail.

## OUR SOLUTION:

RSBS..V11.. is a compact softstarter for single phase 230V compressors up to 25Arms current, with integrated bypass relays.

Design incorporates control of the starting capacitor and connections for starting and running capacitor.

Ramp up time is preset at 0.6seconds. Integrated current limiter is set at 40Arms.

The printed circuit board is enclosed in a housing with a DIN-rail adapter at the back.

A green LED on the front panel indicates the presence of supply while a red LED informs the user when an alarm occurs.

## ACHIEVED BENEFITS:

- Softstarting the compressor and control of the starting capacitor results in the needed current reduction which results in cost savings for the consumer.
- The softstarting action contributes to the elimination of light flickering.
- Locked rotor alarm switches off the softstarter to protect it from damages hence elongating its lifetime.
- IP20 protection gives the needed safety level to the user/ maintenance technician.
- Compact size will make it easier to install the softstarter in restricted places.

