

# CG APPLICATIONS

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**Application Note :** March 2011

**Market involved :** HVAC

**Product :** RSDR Series

**Customer :** Compressor applications

**Subject :** Reduction of inrush current during starting of compressors

## CUSTOMER ISSUE :

Due to the limited capacity of the electrical power supply, the high starting current surges during starting of compressors may cause dimming of lights and voltages disturbances in the company premises and also at neighbouring sites.

The majority of compressors normally require 5-6 times the rated current during starting which means that customers would incur higher energy tariffs.

## OUR SOLUTION:

RSDR softstarters starting and stopping parameters can be easily set via front knobs.

Ramp-up times as low as 0.5sec can be set.

The RSDR is also equipped with two normally open 3A relay outputs.

## ACHIEVED BENEFITS:

- Reduction in the inrush current eliminates light flickering and voltage disturbances on neighbouring equipment.
- Customers can save costs on the electricity bill due to the reduced peak demand from the utility.
- The signal provided by one of the relays can be used to engage power factor correction (PFC) equipment as soon as the softstarter goes in bypass mode or as a signal to switch off the crankcase heater (used on scroll compressors).