CG APPLICATIONS

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Application Note:	**October 4th 2007**
Market involved :	**HVAC**
Product :	**DPA53**
Customer :	**---**
Subject :	**Monitoring Air-Conditioning Systems**

CUSTOMER ISSUE :

The compressor is the most precious and expensive component of an air conditioning system.

When a mains voltage lowering occurs, the increase of the current flow can cause big damage to the air conditioning system and if this happens, for example, in a shopping centre, the first consequence is the unpleasant people discomfort.

Moreover a breaking requires time and money for repairing and uselessness of the whole system.

OUR SOLUTION:

For this application DPA53 is the right solution: it warns you that the motor must be stopped before overloads.

The relay releases when one phase-phase voltage drops below the set-point (set by a specific front knob), in order to avoid an increase of the current flow.

ACHIEVED BENEFITS:

- To avoid damages related to the increase of current flow due to mains voltage lowering.
- To prevent damages caused by phase loss, even detecting the regenerated voltage of the motor.
- Cost saving reducing technical calls.