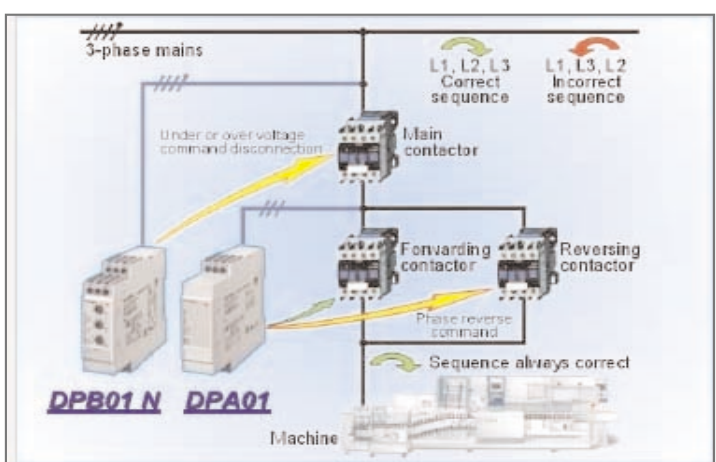


# CG APPLICATIONS

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**Application Note :** 19 January 2006

**Market involved :** Packaging  
Material Handling

**Product :** DPB01N - DPA01

**Customer :** - - -

**Subject :** Mains monitoring and automatic phase reverse

## CUSTOMER ISSUE :

In modern industrial plants there are lots of advanced machines which require an optimal working mode, in order to ensure the good quality of the goods and to avoid any damage.

Therefore, it's important to monitor the power supply in order to disconnect the plant when the voltage is too far from the nominal voltage or when a phase is missing.

Furthermore, when devices are sensitive to the phase sequence, the correct one has to be always assured, whatever is the sequence of the mains: a phase reversing system is therefore needed.

## OUR SOLUTION:

The mains voltage (3-phase or 3-phase+N) is accurately controlled by DPB01N, a monitoring relay able to react both in case of interruption of one of more phases and when one or more voltages get out from the set levels: its output relay is used to drive the device in charge of disconnecting the plant from the mains.

DPB01 N is a special version of DPB01 without phase sequence detection, function carried out by DPA01, that allows to manage the units for the automatic phase reverse.

## ACHIEVED BENEFITS:

- Ideal solution to protect sensitive machines.
- Money saving for electrical and mechanical repairs.
- Down time reduction
- Protection of the equipment from over, under voltage and phase loss, ensuring the correct phase sequence.

