

CG APPLICATIONS

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Market involved: Packaging

Product : RR2A

Customer : Signode
USA

Subject : Electronic reversing relay for plastic and steel strapping machines

CUSTOMER ISSUE :

To reverse 3-phase motors used in strapping machines in order to strap any kind of products, from newspapers to PVC pipe and cotton bales.

The plastic/steel strapping material is fed to the machine, and through 3-phase motors, the strap should be tightened around the product.

The arm should then return to its original starting point for the next strapping cycle.

OUR SOLUTION:

The RR2A is a compact, electronic reversing relay that can be used for a high number of reversing cycles on 3-phase motors.

Capable of handling different kW ratings, the RR2A can handle the various motor sizes which are installed in the customer's different models.

With the integrated interlocking delay, RR2A ensures no risk of shorting the phases when changing motor direction.

ACHIEVED BENEFITS:

- Longer life solid-state solution to control direction of 3-phase motors.
- With zero-crossing feature, inrush currents of motors are kept to minimum levels.
- High non-rep voltage allows small motors with high inductance to be used.
- Opto isolation makes it easy to interface the motor directly to PLCs/controllers.
- No need of extra transient protection as this feature is also integrated within the device itself
- A temperature limit switch can also be integrated with RR2A in order to protect against any overheating through locked rotors

