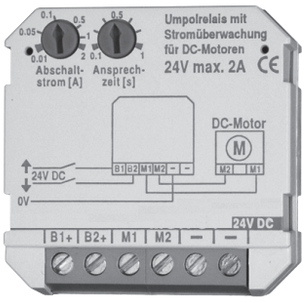
KAISER NIENHAUS
Komfort & Technik GmbH

DC motor reversing relay, item no.: 330060 Adjustable cut-off current and response time

Installation and Operating Instructions



GENERAL:

Miniature drives are increasingly used in building automation. Such very compact drive systems usually work with DC motors and therefore cannot be operated with conventional controls designed for AC motors.

The MUR U1 performs the necessary conversion from AC control to DC drive. A polarity reversal logic reverses the direction of travel, and an adjustable cut-off current together with the adjustable response time ensures a precisely adjustable and safe end cut-off.

APPLICATION:

Conversion from AC controls to DC drives, e.g. for interior blinds, window openers and other modern small drives.

FUNCTION:

Depending on the control signal at inputs B1+ or B2+, the two motor outputs M1 and M2 carry a correspondingly polarised output voltage. To ensure a safe and fast end cut-off for drives without their own limit switches, the cut-off current is set just high enough that the drive is not yet switched off when the motor runs freely. The response delay is then reduced until the starting current peak of the connected motor is still reliably overcome.

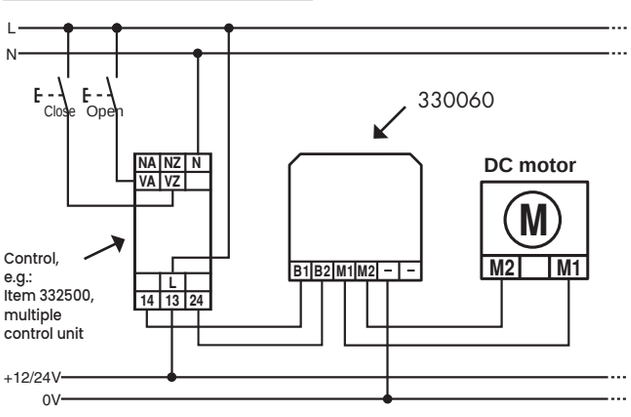
SPECIAL FEATURES:

- **adjustable current monitoring and adjustable response time for precise end cut-off**
- **no permanent supply needed, therefore easy installation**
- **12V and 24V versions available**
- **compact design**

TECHNICAL DATA:

Operating voltage	12V or 24V DC
Power consumption	0.3W
Switching capacity	max. 2A
Current limit	adjustable: 10mA - 2A
Response time	adjustable: 0.1s - 1s
Ambient temperature	-10°C to +45°C
Insulated housing	non-flammable VDE 0304 Part 3, level FV 0
Connections	Socket terminals with captive screws M3.5 (2x1.5mm²/1x2.5mm²)
Installation position	any
Dimensions	43x43x18.5mm
Weight	approx. 40g
RAL colour	grey 7035 / green 6029

CONNECTION EXAMPLE:



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