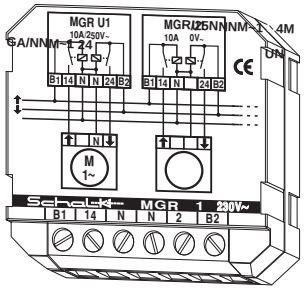
KAISER NIENHAUS
Komfort & Technik GmbH

Multiple control unit 230V, Item 330080, flush-mounted version, for 2 motors, no separate mains connection required

Installation and Operating Instructions



for electrically decoupling roller shutter and blind motors connected in parallel

GENERAL:

The motor group relays allow several roller shutter or blind motors to be connected in parallel to one control.
This makes it very easy and inexpensive to combine several drives into a group that is operated together, without needing a separate control for each drive.
Interlocking of the running direction also ensures that only one output at a time can be switched through to the motor. This means that several control elements, such as series push-buttons, door contacts or radio receivers, may also be connected in parallel to the control inputs of the MGR relays.

APPLICATION:

Safe parallel connection of several UP/DOWN drives, running direction protection when several command devices operate in parallel.

FUNCTION:

The MGR relays are simply connected upstream of a motor to be decoupled. Any number of MGR U1 or MGR U2 relays can be connected in parallel to control inputs B1 and B2.
On MGR U1, one motor can be connected on the output side. The MGR U2 has 2 outputs for the direct connection of 2 motors. Thanks to the running direction interlock, the MGR relays can also be used directly as a simple control for UP/DOWN drives. A normal series push-button can be used as the command device for the running direction. A running direction that is currently switched through always has priority and blocks the control input of the opposite direction for as long as it is active. This behaviour also allows several command devices to be connected in parallel to the MGR control inputs.

SPECIAL FEATURES:

- **Outputs mutually interlocked**
- **compact design**
- **low power loss**
- **easy installation**

TECHNICAL DATA:

Operating voltage	230V 50/60Hz 10%
Power consumption	approx. 0.6W
Relay contacts:	
MGR U1	2 NO contacts 10A / 250V AC
MGR U2	4 NO contacts 5A / 250V AC
Switching capacity	see data sheet: “Load capacity of relay contacts”
Ambient temperature	-10°C to +45°C
Interference immunity	to IEC 801-4 level 4
Device protection	to IEC 801-5 level 4
Creepage/clearance dist.	to VDE 0110 Gr. C/250V
Insulated housing	non-flammable, VDE 0304 Part 3, level FV 0
Connections	Socket terminals with captive M3.5 screws (2x1.5mm²/1x2.5mm²)
Installation position	any
Dimensions	43x43x18.5mm
Weight	approx. 40g
RAL colour	grey 7035 / green 6029

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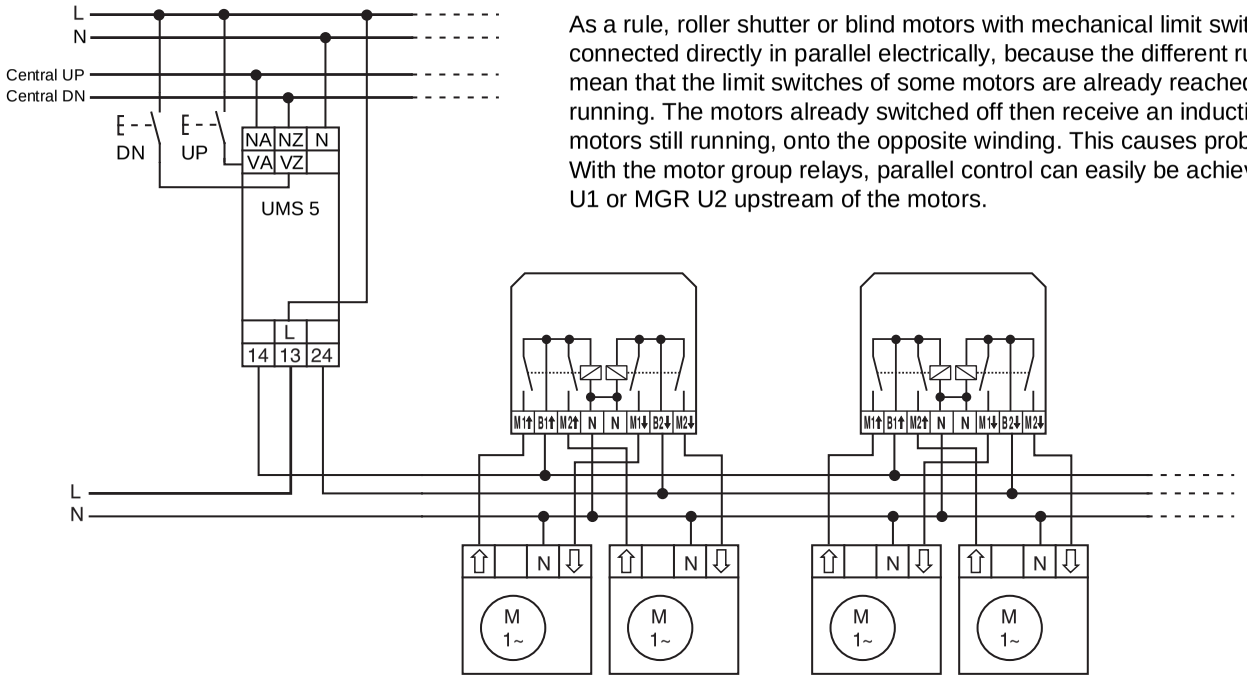
CONNECTION EXAMPLE:

Parallel connection of several motors to one control



As a rule, roller shutter or blind motors with mechanical limit switches must not be connected directly in parallel electrically, because the different running times of the motors mean that the limit switches of some motors are already reached while other motors are still running. The motors already switched off then receive an inductive back voltage from the motors still running, onto the opposite winding. This causes problems with the limit switches. With the motor group relays, parallel control can easily be achieved by connecting an MGR U1 or MGR U2 upstream of the motors.

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