



Motor Group Relay

MGR U1 (1 motor connectable)

MGR U2 (2 motors connectable)

for electrical decoupling of roller blind or louver blind motors in parallel connection

GENERAL:

The Motor Group Relays MGR U1 and MGR U2 are enabling several roller blind or louver blind motors to be operated in parallel from the same controller. Consequently, these devices are providing a very simple and low-cost method of grouping several drives into a jointly operated group without having to use a specific controller for each drive.

Mutual interlocking of the outputs ensures that only one direction of rotation of the motor can be activated at any time. This feature also enables the safe coupling or parallel connection of other operating controls, such as series pushbuttons, door contacts, radio remote control receivers etc. directly at the inputs of the MGR U1 or MGR U2.

APPLICATION:

Safe parallel connection of several OPEN/CLOSE drives, drive direction protection in the case of parallel operation of several command sources.

OPERATION:

The MGR is simply inserted in series upstream of the motors to be decoupled. The control inputs of the MGR devices can now be connected in parallel.

One motor can be connected to the MGR U1 and 2 motors can be connected to the MGR U2.

Due to mutual interlocking of the outputs, the MGR can also be directly used as a simple controller for OPEN/CLOSE drives. A standard dual push-button can be used as command component for activating the operating directions. The currently applied direction has priority, and while in operation disables the output of the opposite direction.

This control method also enables several command components to be connected safely in parallel to the MGR. For example, it is possible to operate a radio remote control receiver (e.g. FE3 D) in parallel to an already existing push-button.

SPECIAL FEATURES:

- Outputs mutually interlocked
- Compact construction
- Low power loss
- Simple installation

TECHNICAL DATA:

Operating voltage	230V 50/60Hz 10%
Power consumption	0.6W
Relay contacts:	
MGR U1	2 NO contacts, 10A/250V AC
MGR U2	4 NO contacts, 10A/250V AC
Switching capacity	see data sheet "Load capacity of relay contacts"
Ambient temperature	-10°C to +45°C
Interference immunity	compliant IEC 801-4 level 4
Equipment protection	compliant IEC 801-5 level 4
Creepage / clearance	compl. VDE 0110 Gr. C/250V
Insulated housing	flameproof to VDE 0304 part 3, level FV 0
Connections	socket terminals with captive screws M3.5
Installation position	freely selectable
External dimensions	43x43x18.5mm
Weight	approx. 40g
Colour (RAL)	grey 7035 / green 6029

ORDERING INFORMATION:

Part No.	Type	Description
mgru19	MGR U1	Motor group relay
mgru29	MGR U2	Motor group relay

TYPICAL APPLICATION:

motors in parallel connection - decoupled with MGR U1 or MGR U2

