ALTENBURGER
ELECTRONIC GMBH

Mounting Instructions and Manual for motor control 800VA

CE

General description:

The ALTENBURGER motor controls are operating in the phase-control mode and are suitable for the control of motors. The dimmers can replace usual switches as shown in **wiring diagram (1)**.

They can be wired in combination with another push-switch, however not with another dimmer **(see wiring diagram 2)**.

All ALTENBURGER motor controls can be delivered alternatively with rotary or changeover-switch.

Mounting and wiring instructions:

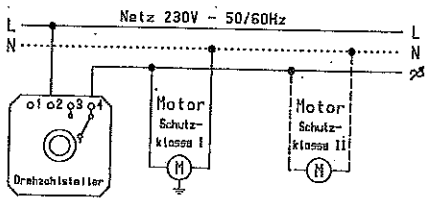
The motor control may be wired only by skilled labour. Please consider the respectively instructions for safety and prevention of accidents. Before mounting and wiring it has to be approved that all load and control connections are separated from the power supply.

1. **Cutting out the main MCB, the branch MCB or fuse and checking the voltage-free state.**
2. Disconnect the possibly mounted switches and dismount them.
3. Remove the rotary knob from the motor control shaft and the coverplate by untwisting the hexagonal nut.
4. Wiring of the motor control according to wiring diagram **A** and **B**.
5. Loosen the expanding claws (only in case of wall-recessed type) and put the motor control into the wall-recessed housing.
6. Fixation of the motor control by tightening the expanding claws at the wall-recessed housing.
7. Adjust the coverplate to the motor control and fix it with the hexagonal nut.
8. Put the rotary knob with a slight rotary motion and pressure onto the motor control shaft.
9. Activate the MCB's or the fuses.
10. Testing the motor control for its function.

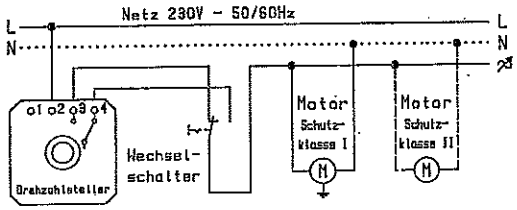
Steps 5 and 6 are not applicable for motor controls for DIN-rail systems, because they have a snap-on mechanism and are mounted to the rail.

The DIN-rail motor control can be snapped onto the rail.

Wiring diagram A: motor control in OFF State.
Applicable are motor controls with integrated rotary and push-change-over switch.



Wiring diagram B: motor control in a switch change-over mode applicable are motor controls with integrated push-change over switch.



<u>Replacement of a defective fuse:</u>
The motor control may be exchanged only by skilled labour. Before mounting and wiring it has to be approved that all load and control connections are separated from the power supply.

1.Cutting out the main MCB, the branch MCB or fuse and checking the voltage-free state.
2.Remove the rotary knob from the motor control shaft and the coverplate by untwisting the hexagonal nut.
3.Lift the safety fixation (plastic fixation) by means of a screw driwer.
4. Put the new fuse into the safety fixation and push it back again into the motor control.
5. Activate the MCB's or the fuses.
6.Testing the motor control for its function.

Fuse values for motor controls:

load	fuse value	characteristic
20-800 VA	4,0 Amps	M

Operation of the rotary ON/OFF motor control

1. The ON/OFF switch is located at the left stop and is operated by turning the rotary button.
2. Turning the button to the left: rotation decrease/OFF
3. Turning the button to the right: ON/rotation increase

Operation of the push-change over motor control

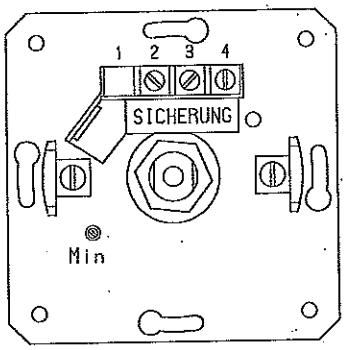
1.The ON/OFF switch is operated by pressing the rotary button.
2.Pressing the button: ON
3.Turning the button to the left: rotation decrease
4.Turning the button to the right: rotation increase
5. Pressing again: OFF

Adjustment of the minimum rotation:

The minimum rotation can be adjusted at the min-trimmer potentiometer (acc. to figure number 3).

1. Remove the rotary knob and the coverplate.
2. Switch the motor control ON and turn the rotary knob to the left stop.
3. Adjust the min-trimmer potentiometer with a suitable screwdriver to the minimum light level.

Wiring diagram No. 3:



Technical Data:

Table 1

			Wall-recessed mounting			DIN-rail mounting		Wall-mounted
Type EHR	Load Min/max	Switch: m	Standard coverplate	Altoflex cover-plate	4 mm shaft without coverplate	Standard coverplate	Siemens coverplate	Wall-mounted housing
800VA RC	20-800VA	Rotary	50.06.006	55.06.003	50.06.103	50.06.014	50.06.214	56.06.003
800VA RC	20-800VA	Change over	50.06.003	55.06.006	50.06.106	50.06.023	50.06.226	56.06.008

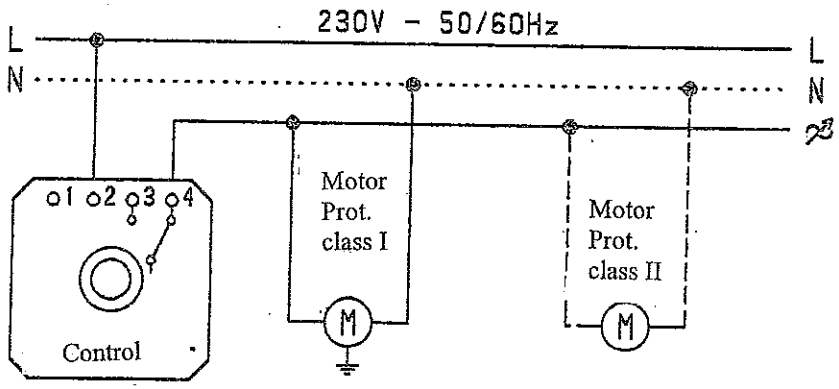
Terminals: 0,5 – 2,5 mm², 1-wire or with sleeves
Working temperature: 0 °C ...+ 45°C (natural air-convection) at vertical operation position
Noise factor: <30 dB(A) under nominal load in a distance of 1m
Protective type: IP20
Contamination degree:2 dry, non-conducting, according to:IEC 664 (10/92)
Requirements: EMV met according to: EN 50082-1 (03/93)
Low-voltage requirements met according to: IEC 669-2-1 (11/94)
Interference suppression accomplished to: EN 55014 (12/93)

ALTENBURGER
ELECTRONIC GMBH

Wiring diagrams for Ventilator controls
230 V, 20-800 VA, Fuse: 4,0 VA (characteristic M)

CE

A) Ventilator control with rotary ON/OFF switch



B) Ventilator control with push change-over switch