

sundrape® Special shading systems
TECHNICAL GUIDELINES
Electro motors

Attention!

Please read the instructions for use carefully. In case of damages that have been caused by disregard of the instructions for use, the guarantee expires. For consequential damages resulting of it, we do not assume any responsibility.

1. Delivery volume and accessories
2. Fixing at rail profile
3. Setting of end position switch-off
4. Connection instructions/technical data

Safety instructions

Before starting sundrape® electric motors, group controls and radio remote controls carefully read technical instructions for connexion, mounting and operation.

In case of damages caused by disregarding these instructions, the guarantee expires. For consequential damages we do not assume any responsibility.

Attention – to assure the security of persons and facilities these instructions have to be observed absolutely! File the instructions carefully!

Children are not allowed to play with stationary controls and electrical systems. Keep radio remote control devices away from children!

The system has to be checked regularly on signs of wear or damaged electrical lines.

Attention – inadequate mounting can cause severe injuries!

Before you start maintenance work on electrical blinds, always cut off power supply. The same applies to window cleaning work, if contact of humidity and cleaning agents with the electrical systems is possible.

For use with system:

- 5060 electric curtain tracks
- 5066 winter gardens shading system
- 5070 plafond shading system
- 5080 round shading system
- 5090 counterpull roller

1. Delivery volume and accessories

System 5060/80:

single motor (see drawing) or tandem motor:
 one motor with switch-off (driving motor),
 one motor without switch-off.

accessories per motor: connection coupling
 holding clamp
 curtain fixing bow

System 5066:

Individual motor "single" with switch-off

accessories per motor: connection coupling
 holding clamp
 bolt (to avoid twisting)

Systems 5066/70/90:

tandem motor (drawing):

one motor with switch-off (driving motor),
 one motor without switch-off.
 double tandem motor: one motor
 with switch-off (driving motor),
 three motors without switch-off.

accessories per motor:
 connection coupling
 holding clamp

2. Mounting at rail profile

Procedure for all systems:

Shift motor onto rail gear and arrest by a quarter turn (1) (bayonett lock). With curtain tracks 5060 the curtain fixing bow is clipped sidewise in the relief of the motor casing (2). In case the catching cog at the rail gear does not correspond with the motor take-up, this can easily be corrected by shifting the pulling bow. Choose the sense of rotation when doing the insertion, according to the moving direction of the pulling bow: centre of drive runner corresponds to the arrow marking (3) of the red sticker. Protect the motor by inserting (locking) the bolt (4) to avoid twisting.

Exception: 5066 single motor: prior to turning in the motor insert the bolt (is included) fully into the groove of the rail gear (5) and shift backwards after having turned in. The motor position is above the rail after fixing.

Tandem motor 5066/70/90: same procedure as specified on drawing 1 to 4 without fixing bow.

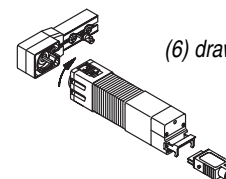
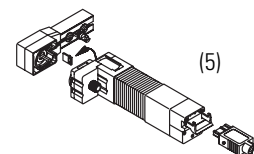
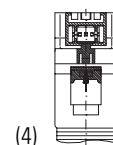
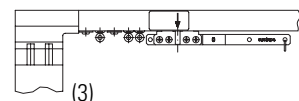
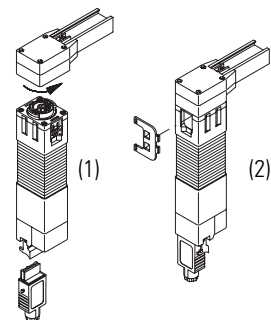
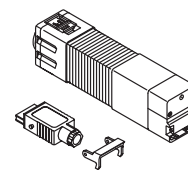
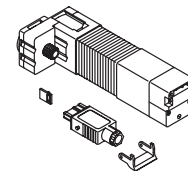
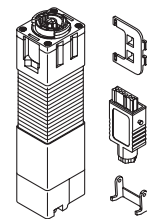
Tandem motors 5060/80 and double tandem motors 5066/70:

First turn in the motor with switch-off by observing the drive runner position (6). Then turn in the motor without switch-off at the opposite rail end. When doing this hold the pulling bow in position.

The motors are correctly mounted when the drive runner is placed on the arrow mark (7) and both motors are locked.

In case the position of the drive runners is imperfect after mounting, do the fine adjusting of the end positions (see point 3).

Finally remove the red stickers.



(6) drawing 5066



(7) drawing 5070

3. Setting of the end position switch-off

Connect test cable as per motor type (single, tandem, double tandem). Adjustments can principally be made at the driving motor only. Unscrew the screws in the motor lid of the driving motor and remove lid. Switch on motor. Choose switch position in such a way that the pulling bow will move away from the motor. Watch rotation movement of the adjustment knobs.

The motor switches off when at the rotation direction of the micro switch all three slots of the index plate are on one level and the cams lock. The first adjustment is made at this switch: In case the motor switches off before reaching the end position, shift safety latch towards the opposite side and press the adjustment knob of the locked micro switch.

Turn adjustment knob by hand abt. one half against rotation direction so the cams are pressed out of the grooves. The motor starts running again. Now the desired end position can be started precisely by switch.

As soon as the position is reached, turn the adjustment knob in rotation direction until all three cams lock in visibly and audibly (soft clicking of the micro switch.) Pull out the adjustment knob exactly at the "click" without turning it and set the safety latch centrally.

The end position can now be checked by switching over and starting again. If the pulling bow is not in the required position, repeat adjusting procedure as described above. Should the motor not stop before reaching the desired end position, stop by switch before the end position is reached and turn cam switch to lock. Further procedure as specified above.

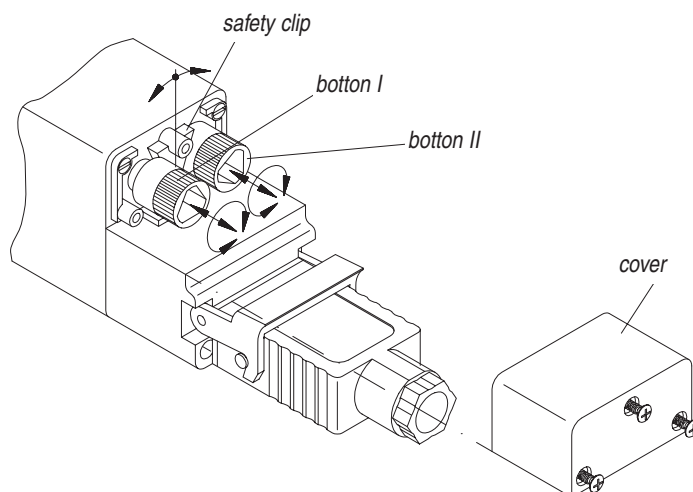
As soon as the first end position is set, change turning direction at the switch and direct the pulling cam in required end position (stack position). Adjustment is made by the second turning knob in identical sequence as specified above. Then run a test and check both end positions. Pull out test cable and reinstall motor lid.

Recommendation:

If the motor refuses to run either in one or in the other direction, both micro switches are locked. Do unlocking as specified above.

Wrong positions with tandem/double tandem blinds 5066/70/90: drive runners of the profile are not parallel (mismatch):

Correction: connect blinds with test cable. First start the end position adjustments of the rail with motor without switch-off and adjust accordingly. Disregard rail with driving motor. If the drive runner reaches the desired position when adjustment is made, pull out connection coupling(s). Now adjust the end positions of the rail with driving motor until exactly those positions of the second rail are reached. Re-install connection couplings and run test.



Technical data Motors:

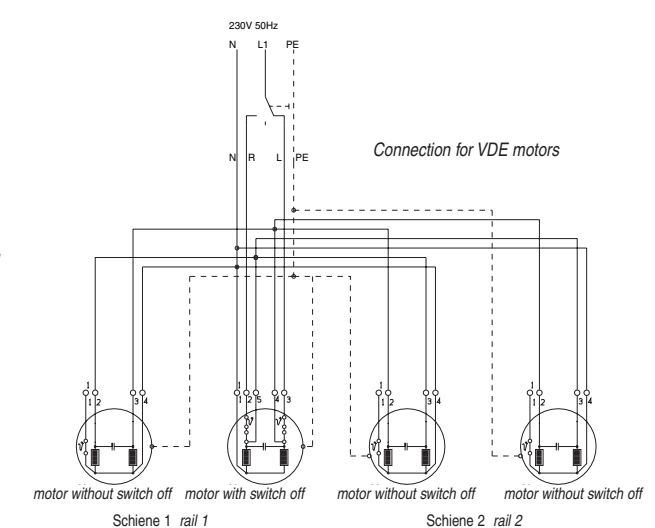
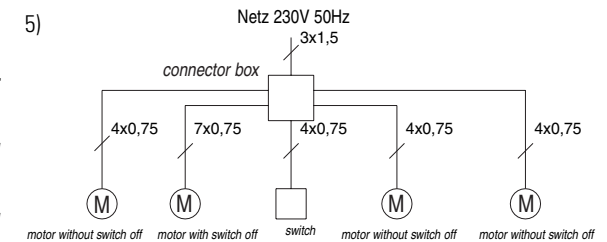
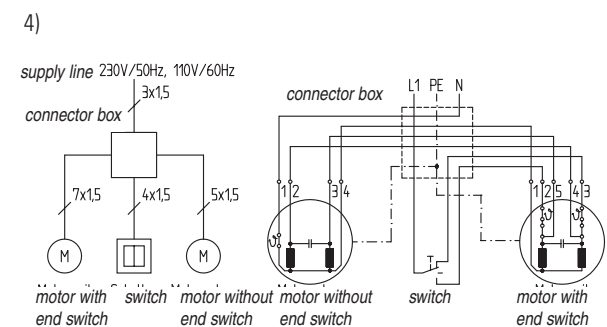
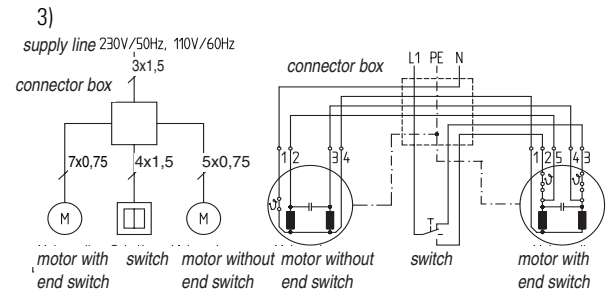
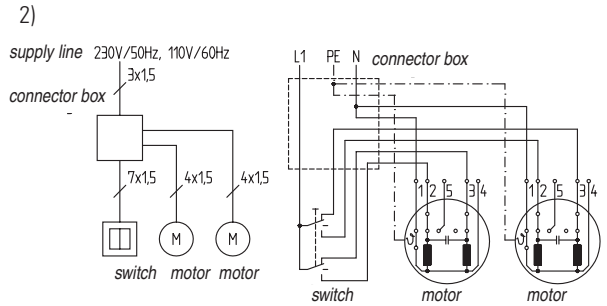
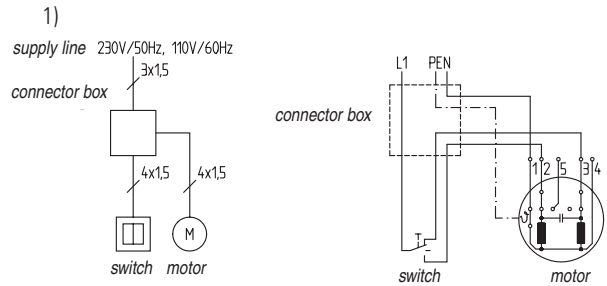
rated voltage:	230 V	230 V	230 V	110 V	110 V	110 V
rated capacity:	30 W	45 W	65 W	30 W	45 W	65 W
number of cycles	0,13 A	0,195 A	0,41 A	0,26 A	0,40 A	0,82 A
class of rating:	50 Hz	50 Hz	50 Hz	60 Hz	60 Hz	60 Hz
phase sequence:	S3 50%	S3 50%	S3 50%	S3 50%	S3 50%	S3 50%
	4 min.	4 min.	4 Min.	4 min.	4 min.	4 Min.
direction of rotation	r/l	r/l	r/l	r/l	r/l	r/l

For dry surroundings only!

Connection motors

- 1) Individual blind with single motor
5060, 5080, 5066 Single
- 2) 2 blinds with single motor
5060, 5080, 5066 Single
- 3) Individual blind with tandem motor
5060, 5080
- 4) Individual blind tandem
5066, 5070, 5090
- 5) Individual blind doubletandem
5066, 5070

Attention:
installation diagrams
for VDE approved
motors only!



Connexion instructions for sundrapé® electric motors

Connexions and supply lines have to be passed on site by authorized electricians according to VDE (German Electrical Engineering Association) and local EVU (electric supply company) instructions.

For controls of two and more motors a group control is required. Cable laying plans and wiring diagrams for group and central controls as well as remote controls can be submitted on request. Switch off unused lines and systems before you connect the motor. Place push-buttons above a height of 1,5 m near the system. Allowed running periods and torques have to correspond with the motor's technical data.

In order to avoid backing ups of condensers of running motors, parallel connexion of two or more motors at one exit is prohibited. For decoupling purposes a separate contact for each direction of rotation is required.

Use only mechanically or electrically locked switches and push-buttons. Switches and controls may not permit concurrent up and down operation! The time to change the running direction from up/down to down/up has to be at a minimum of 0,5 seconds. This applies also for programmable control devices.



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In case of damages caused by disregarding these instructions, the guarantee expires. For consequential damages we do not assume any responsibility.

Attention – to assure the security of persons and facilities these instructions have to be observed absolutely! File the instructions carefully! This device is not designed for employees (including kids) with limited physical or mental skills or sensory perception or for persons with a lack of experience or knowledge, unless they are supervised by a person who is responsible for their security or unless they received instructions how to use the device.

Children are not allowed to play with stationary controls and electrical systems. Keep radio remote control devices away from children! Kids should be watched to make sure that they do not play with the device.

The system has to be checked regularly on signs of wear or damaged electrical lines.

Attention – inadequate mounting can cause severe injuries!

Before you start maintenance work on electrical blinds, always cut off power supply. The same applies to window cleaning work, if contact of humidity and cleaning agents with the electrical systems is possible.

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