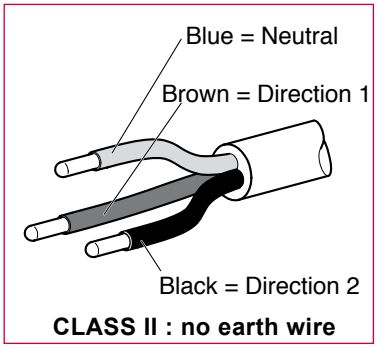
LENGLART
SCULPTOR OF LIGHT · DESIGNER OF SPACE

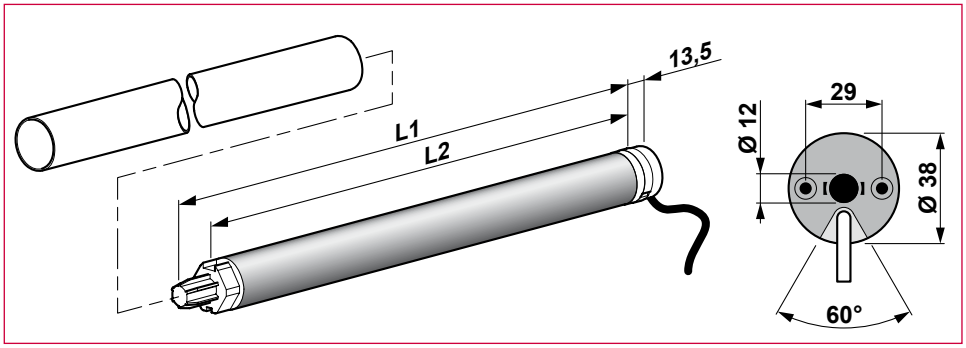
ELECTRICAL OPERATING MECHANISMS
AMITRACK - STORAMI - COLONY

MOTORIZATION - MOTOR CHARACTERISTICS

I - WIRED TUBULAR MOTORS Ø 40MM - L.S. 40



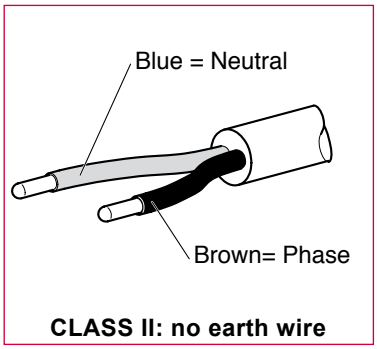
CLASS II : no earth wire



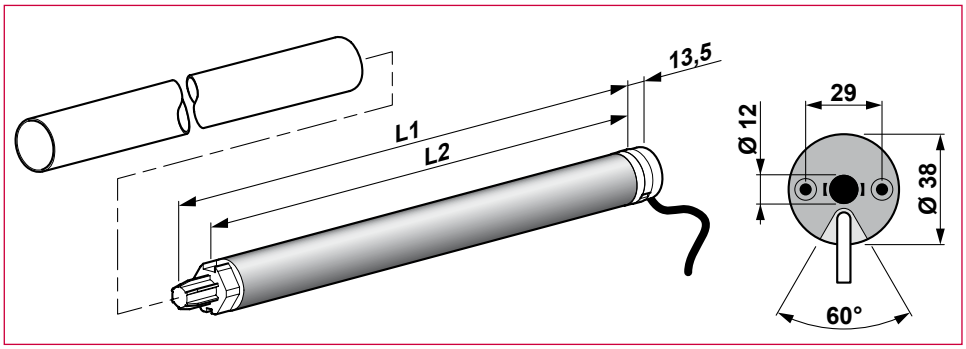
	Mercury	Mars	Vulcan
L1 (mm)	442	442	453
L2 - "popage" distance (mm)	421	421	433
Torque (Nm)	3	9	13
Speed (tr/mn)	30	14	8
Cage capacity (revolutions)	40	40	40
Rated voltage (V)	230	230	230
Power consumption (W)	80	100	95
Current consumption (A)	0,4	0,5	0,5
Operating time before trig. (mn)	4	4	4

	Mercury	Mars	Vulcan
Triggering temperature (°C)	140	140	140
Noise level (dbA)	52	54	54
Ø Min. winding tube (mm)	40x1,5	40x1,5	40x1,5
Motor weight (kg)	0,95	1,06	1,07
Standard cable length (m)	2,5	2,5	2,5
Number of cable conductors	3	3	3
Cable conductor cross section (mm²)	0,75	0,75	0,75
Protection index	IP44	IP44	IP44
Type approval NF	yes	yes	yes

II - RADIO-INTEGRATED TUBULAR MOTORS, RTS Ø 40MM - ALTUS 40 RTS



CLASS II: no earth wire



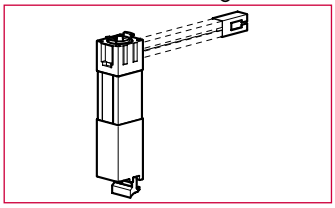
	Altus 40 RTS 9/14
L1 (mm)	497
L2 - "popage" distance (mm)	473
Torque (Nm)	9
Speed (tr/mn)	14
Cage capacity (revolutions)	40
Rated voltage (V)	230
Power consumption (W)	100
Current consumption (A)	0,5
Operating time before trig. (mn)	4

	Altus 40 RTS 9/14
Triggering temperature (°C)	140
Mean noise level (dbA)	54
Ø Min. winding tube (mm)	40x1,5
Motor weight (kg)	1,18
Standard cable length (m)	3
Number of cable conductors	2
Cable conductor cross section (mm²)	0,75
Protection index	IP44
Type approval NF	yes

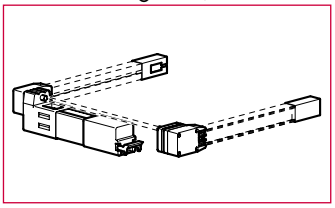
III - BELT DRIVE ELECTRIC RAIL MOTORS

Operating rails - Single motor

Rail Elektro single

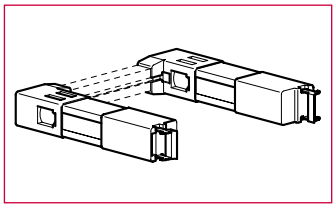


Amistar single (45/65W)

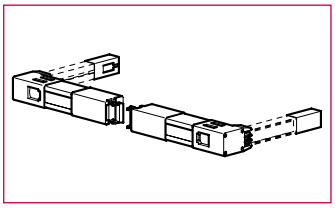


Operating rails - Tandem motors

Rail Elektro tandem (45W)



Amistar tandem (65W)



45 W	Rated voltage (V)	230	Rated voltage (V)	0,195	Service	S3 50%	Direction of rotation d / g
	Power consumptio (W)	45	Power consumptio (W)	50		4 min	
65 W	Current consumption (V)	230	Current consumption (V)	0,41	Service	S3 50%	Direction of rotation d / g
	Power (W)	65	Frequency (Hz)	50		4 min	

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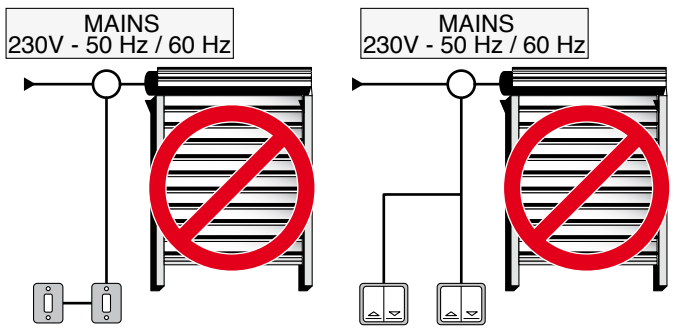
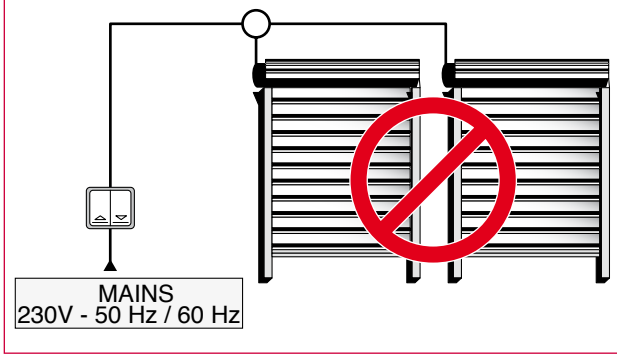
ELECTRICAL OPERATING MECHANISMS
AMITRACK - STORAMI - COLONY

WIRING DIAGRAMS AND AUTOMATIC SYSTEMS

* PROHIBITED CONNECTIONS





- **Non conforming control point**
- **Double control point**

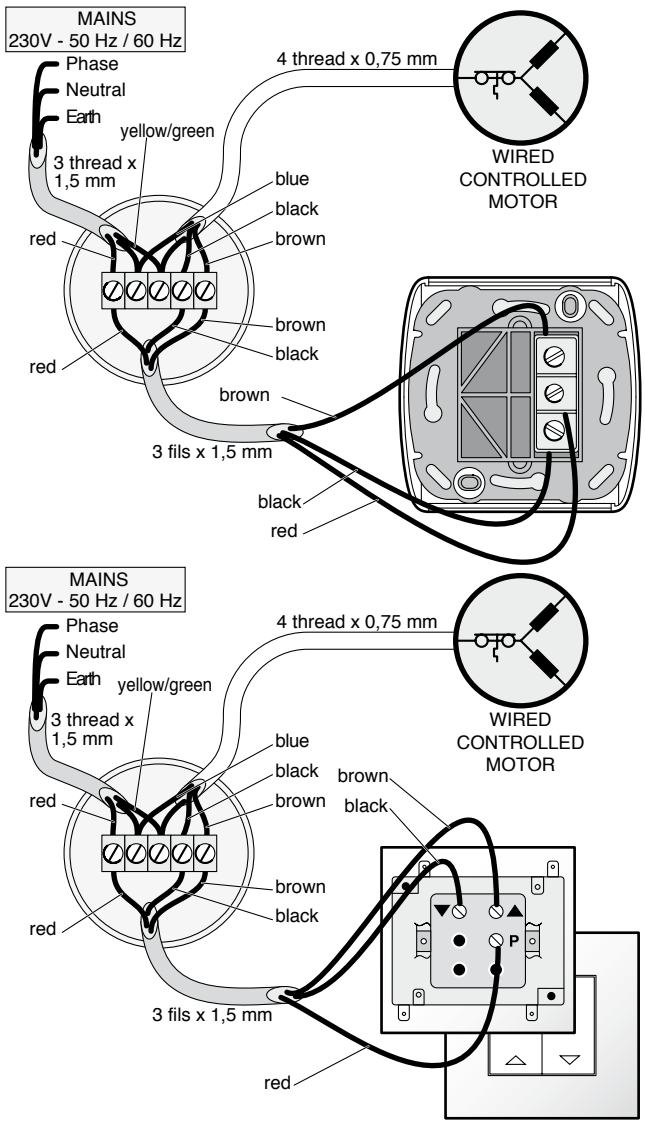
The motors do not resist supply in both directions of rotation at the same time, consequently an operator may not be controlled by two light type switches and two reversing switches may not be connected in parallel.

- **Multiple motors on the same control point**

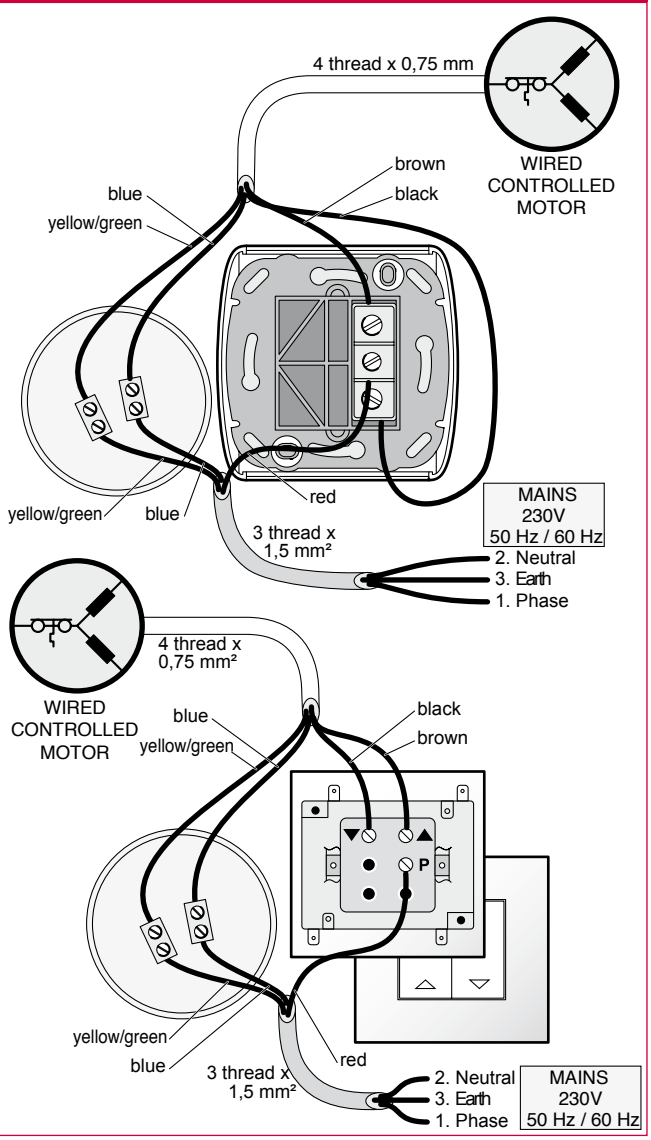
Because of their internal technology, the motor limit switches cannot accept two (or more) motors being wired to the same reversing switch. Consequently the connection of multiple motors to the same control point is prohibited.
For this type of installation, use special boxes.

I - SINGLE CONTROL - WIRE CONTROLLED MOTOR

Power supply in the box



Supply in the reversing switch



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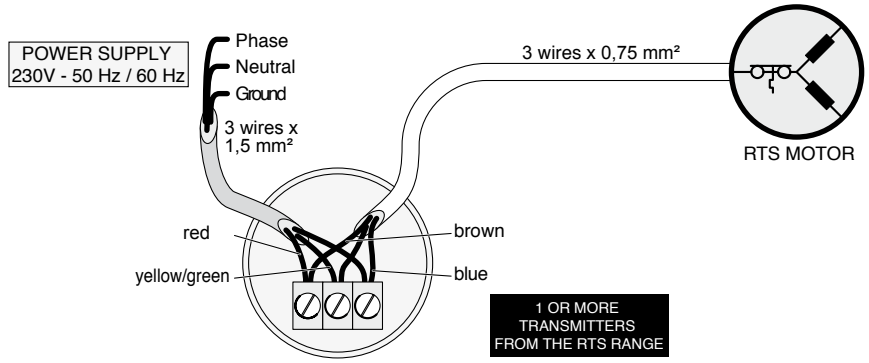
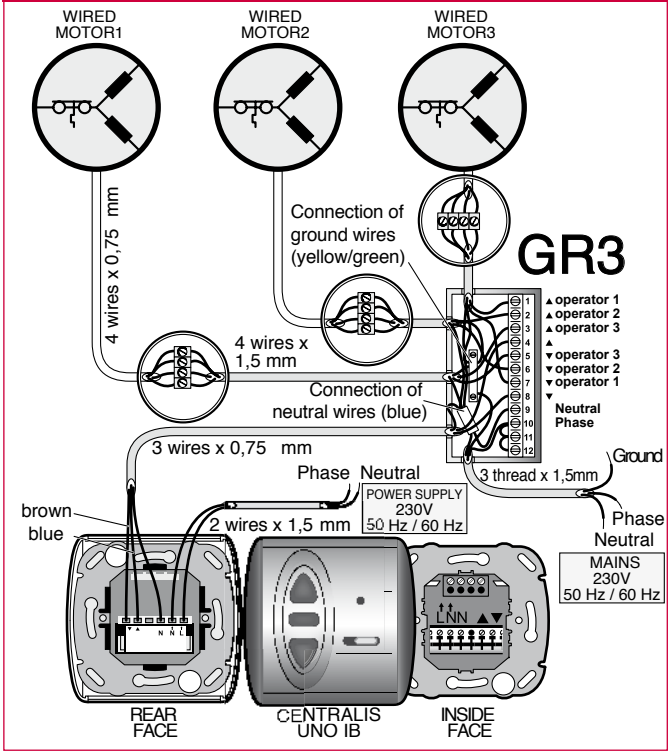
ELECTRICAL MECHANISMS
AMITRACK - STORAMI - COLONY

II - SINGLE CONTROL - R.T.S. MOTOR WITH INCORPORATED RECEIVER

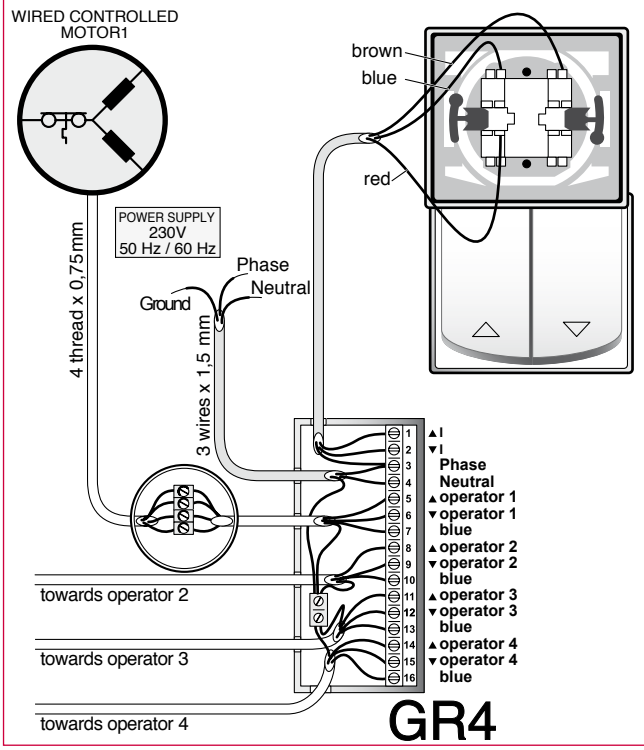


III - COMBINED CONTROLS - SCHEMATIC DIAGRAMS AND CONNECTION DIAGRAMS

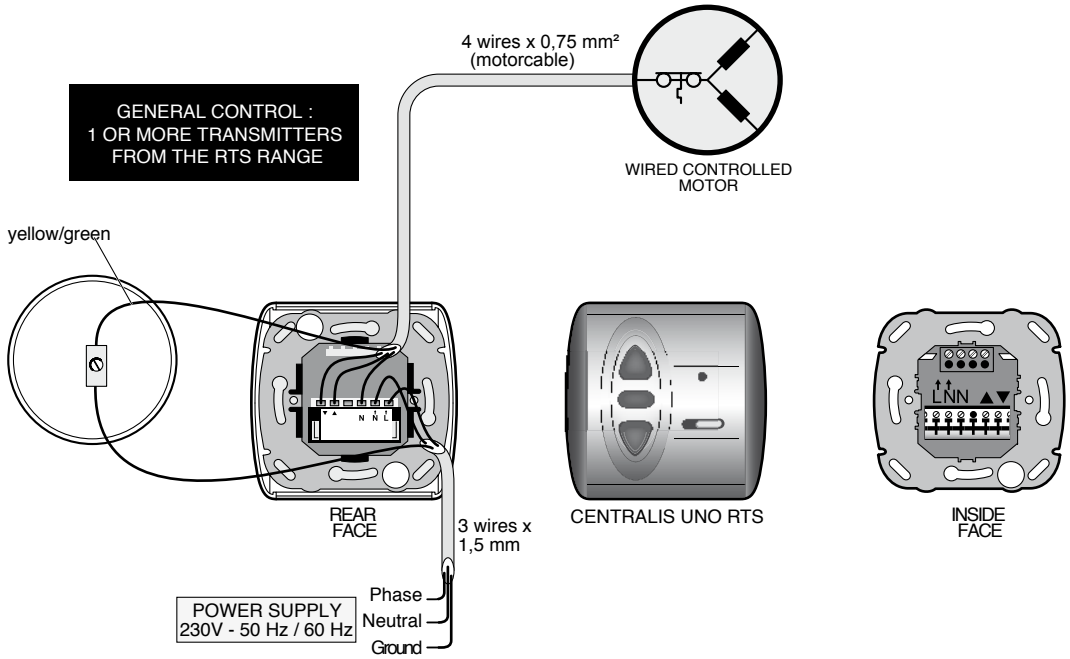
A — Wire motor + Combined control box GR3



Wire motor + Combined control box GR4



B — RTS motor with built-in receiver + Centralis



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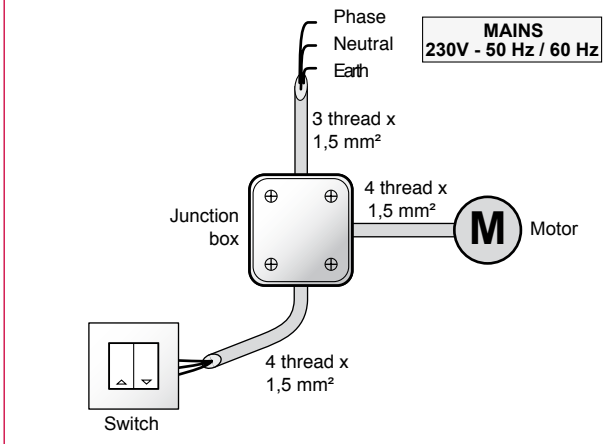
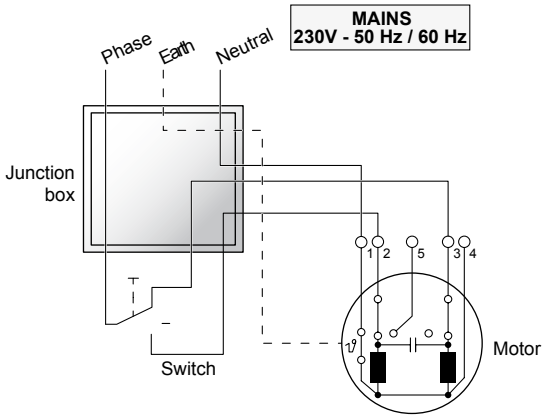
ELECTRICAL OPERATING MECHANISMS
ELEKTRO - AMISTAR GARDEN

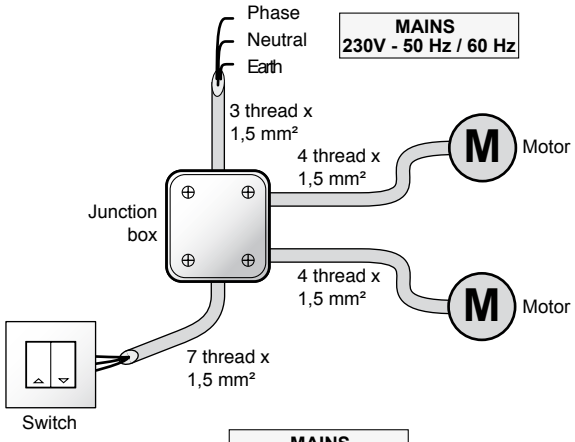
MOTOR WIRING DIAGRAMS

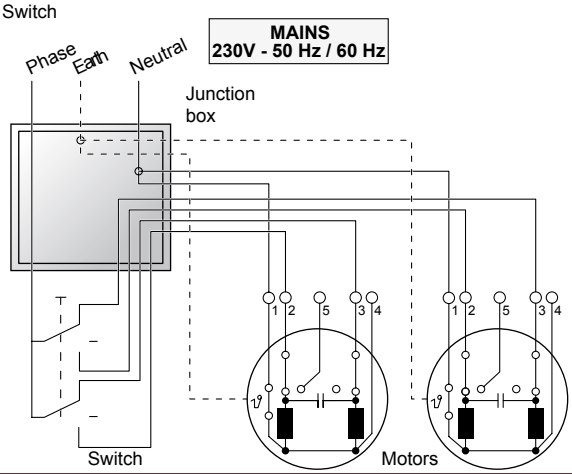
One blind - One Elecktro or Amistar motor Single 5060 - 5080 - 5066



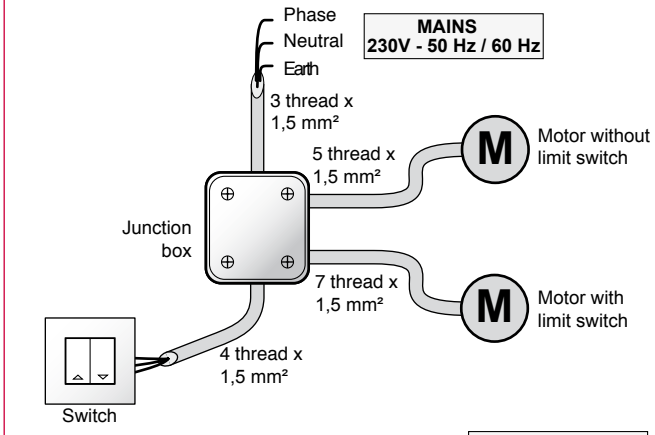


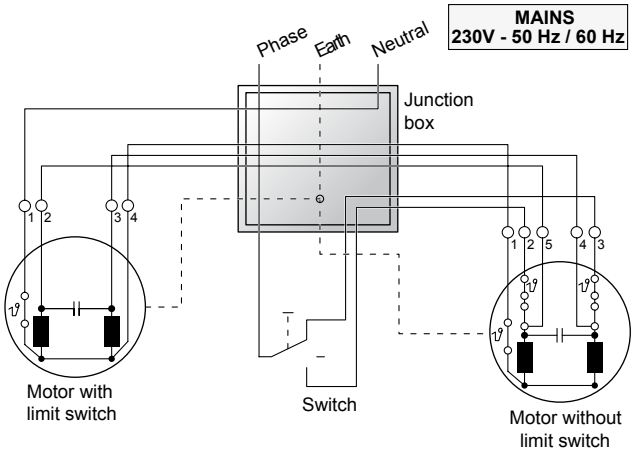
Two blind - One Elecktro or Amistar motor Single 5060 - 5080 - 5066



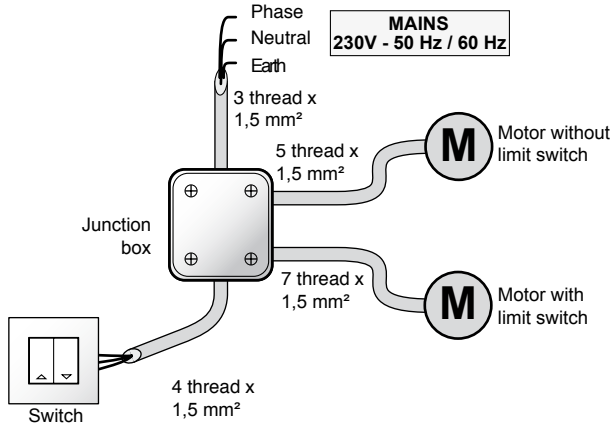


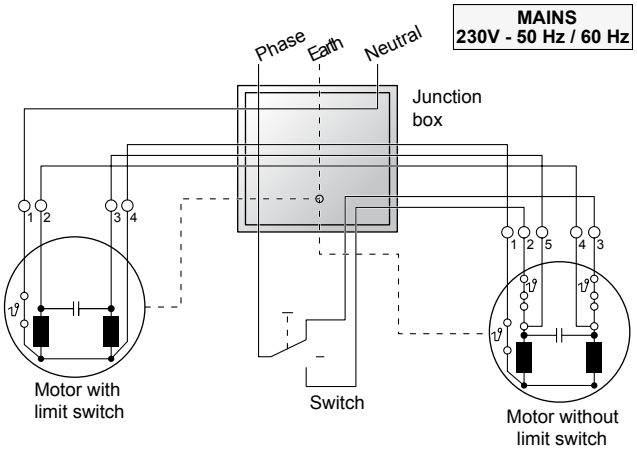
One blind - Two Amistar motors in tandem 5066 - 5070 - 5090





Two blind - Two Amistar motors in tandem 5066 - 5070 - 5090





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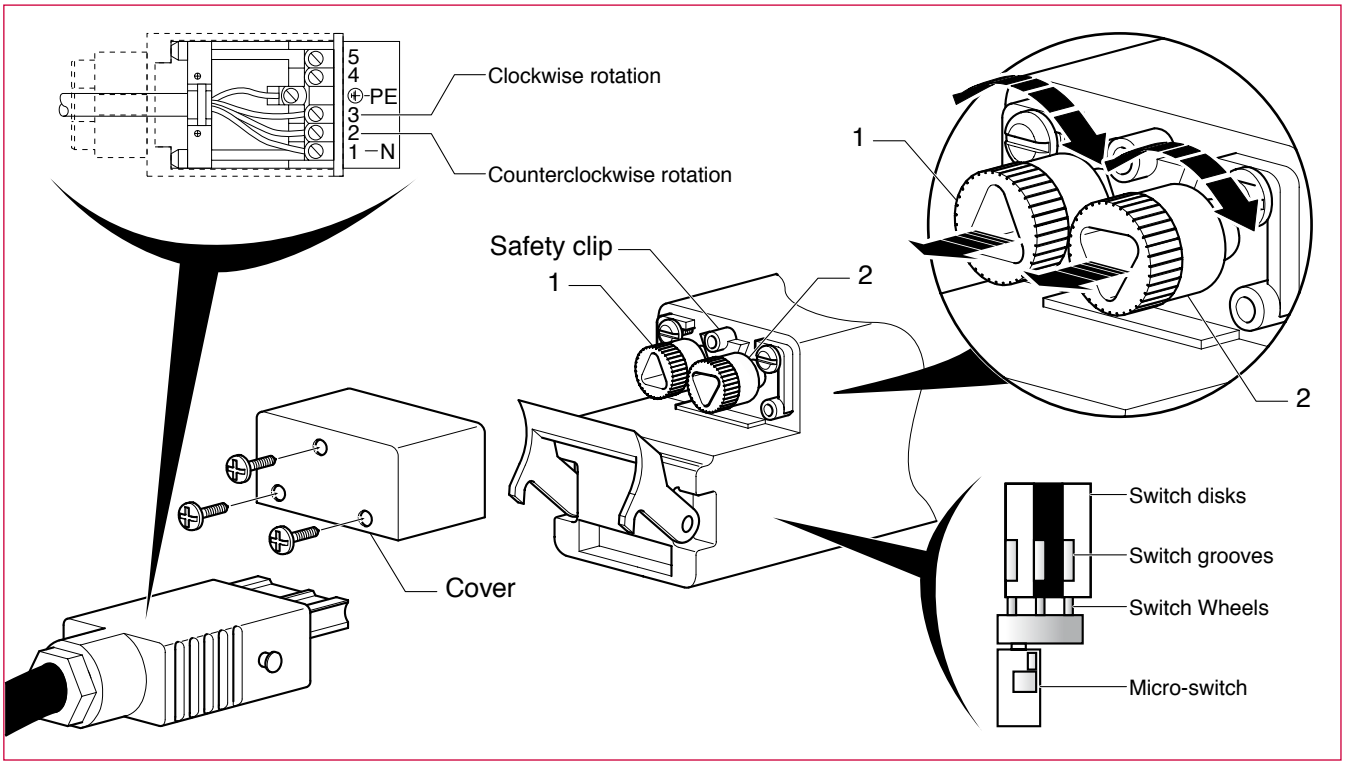
ELEKTRO - AMISTAR GARDEN

LIMIT SETTING INSTRUCTIONS



Electrical connection

Wire name	Wire colour
Neutral	Blue
Control cable (Clockwise rotation)	Brown
Control cable (Counterclockwise rotation)	Black
Ground	Yellow/green

- Connections and power supply lines must be installed by qualified electricians, in accordance with the standards in force.

- To prevent accumulation of electrical charge in the motor condensers, operate the motors separately.

- A separate contact is required for each direction of rotation (decoupling).

- To control more than 2 motors, the commands must be grouped together.

Limit switch adjustment process

1. Make sure that the drive runner is in the middle of the headrail.
2. Remove the cover to access the two adjustment buttons.
3. Pull out **2** and push the safety clip behind.
4. Switch-wheels are now visible inside the translucent casing. Push and turn **1** (both directions are possible) until the **3** button switch-grooves are in a line. Turn again until you hear the three wheels lock.
5. Install the test-cable and operate the switch in the direction that is now inactive. If the motor starts, choose the other position on the test-cable switch.
6. Turn button **1** (both directions are possible) until the motor starts and hold it until a there is a 10 mm gap between the sliders.
7. Once the first limit switch has been adjusted, put the test-cable switch in the neutral position.
8. Pull out button **1** without turning it and push the safety clip behind the knob.
9. Push and turn button **2** (both directions are possible) until the three switch are in a line. Turn again until you hear the three switch wheels lock.
10. Operate the test-cable switch opposite to the direction of rotation. If the motor starts, choose the other position on the switch.
11. Turn button **2** (both directions are possible) until the motor starts and hold it until the first slider reaches half the width of a slat.
12. Once the second limit switch has been adjusted, put the test-cable switch in the neutral position.
13. Pull button **2** without turning it and replace the safety clip between buttons **1** and **2**
14. Test the adjustments and reset if necessary.
15. Refit the cover.

Caution! In tandem installations, set the second motor using the same procedure.

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