

# torro

Motorization and control solutions



**Torro** brand was launched on the market in **2013** as an answer to the growing requirement for automatization and daily life comfort enhancement.

Reliable controls and motors for window shades has been positively welcome by the customers and they are a foundation for further development of our offer.

# torro

Range of Torro products is constantly broadening. They combine modern solutions, smart design and a decent price. We are official dealer of Torro brand and we do our best to help you choose the most appropriate product to your needs.

This catalogue was meant to share with you our best knowledge about Torro controls. We hope it will let you quickly get familiar with the whole assortment, and it will also comprehensively support you during connecting and installation.



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# Controls



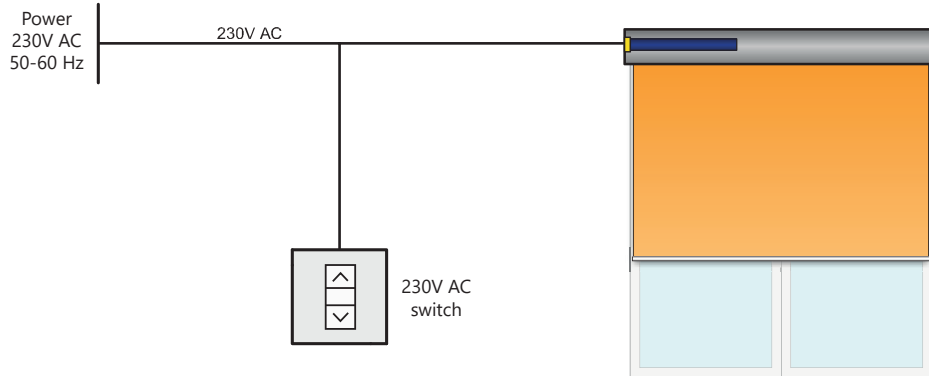
# Types of controls

## 230V AC - PHASE (LINE SWITCHING)

Control voltage 230V AC from the building power network is passed to one of the wires of motor/controller. The motor has two control phases L1, L2, neutral wire N and depending on version/supplier - grounding wire PE (earth). In case of phase motors control is a power supply at the same time.

**Control source:** Main power supply 230V AC 50Hz

**Control:** Supply voltage to one of the 2 control wires L1, L2

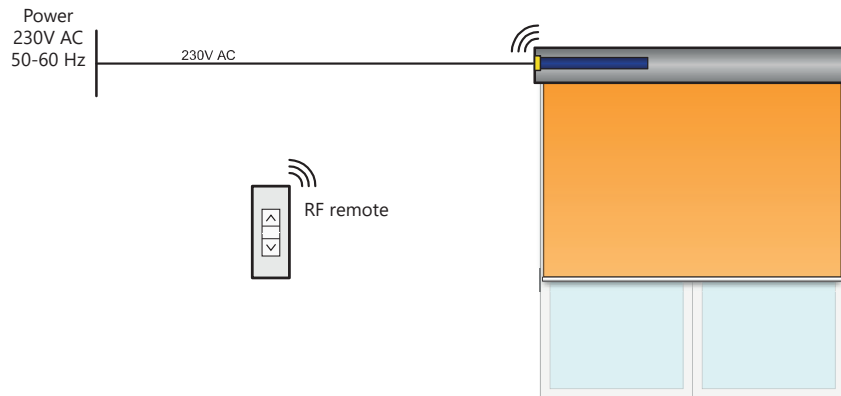


## RF - RADIO

Wireless control with 433.92 MHz radio frequency. Remote controls, radio wall transmitters or multi-channel controllers are used. One remote control can be used to control multiple receivers. Also, one receiver/motor with built-in receiver can be controlled by multiple remotes/transmitters.

**Control source:** Radio waves sent by radio transmitter RF (remote)

**Control:** Press or touch the key on the remote control or transmitter

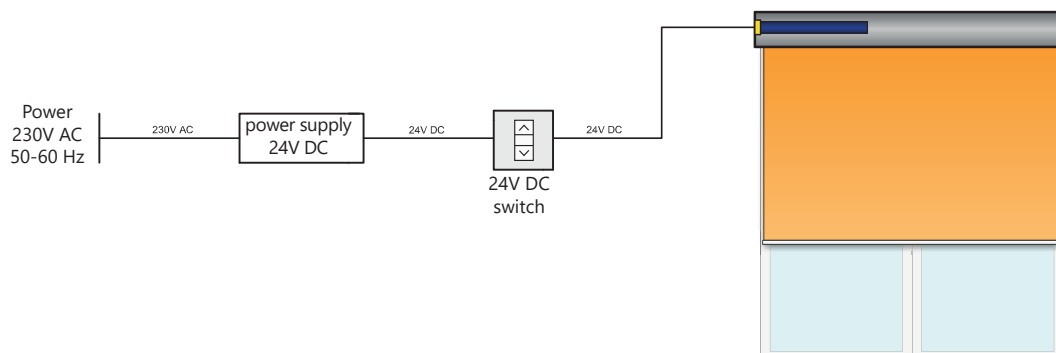


## 24V DC - CHANGING THE POLARITY

Cable control is reversing the polarity of the DC voltage at the input to the motor. When motor is not working, no voltage is applied. Operation of the motor in either direction causes the input to 24V DC in the plus-minus polarity or negative-plus.

**Control source:** Power supply transforming voltage 230V AC in 24V DC

**Control:** Switch or radio receiver replacing "+" plus with "-" minus at the input to the motor

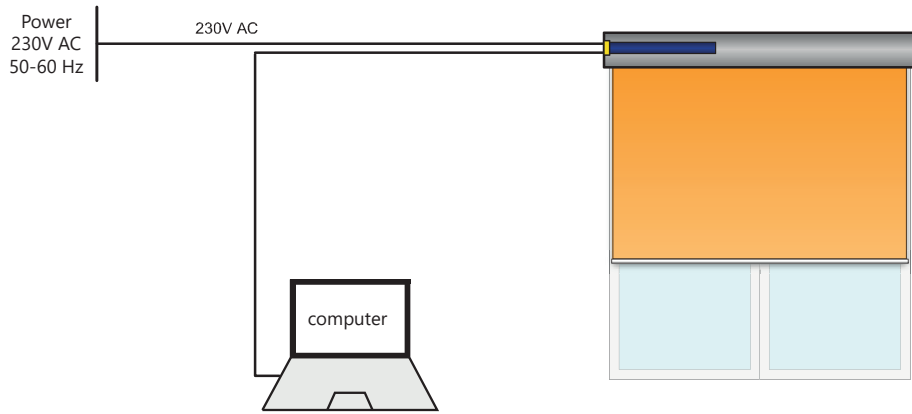
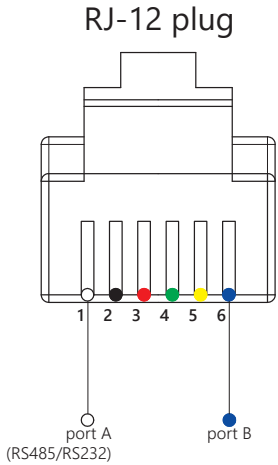


## RS232/RS485 - SERIAL PORT

Control via serial RS232 or RS485. By a communication protocol data is transferred between devices. Two wires (RJ12 connector - conductor 1 and 6) are used for the control.

**Control source:** logical value 1 or 0 based on voltage analysis

**Control:** using a computer application or building management system.



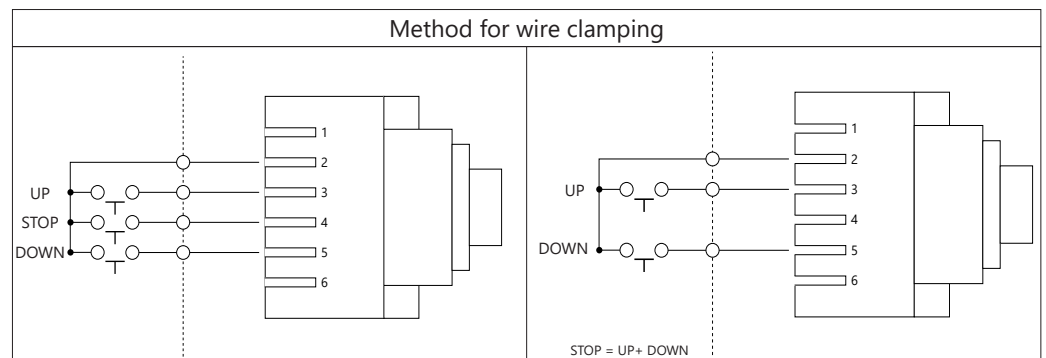
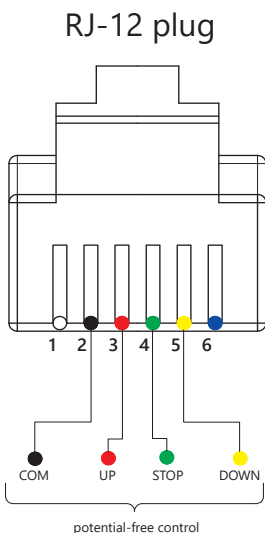
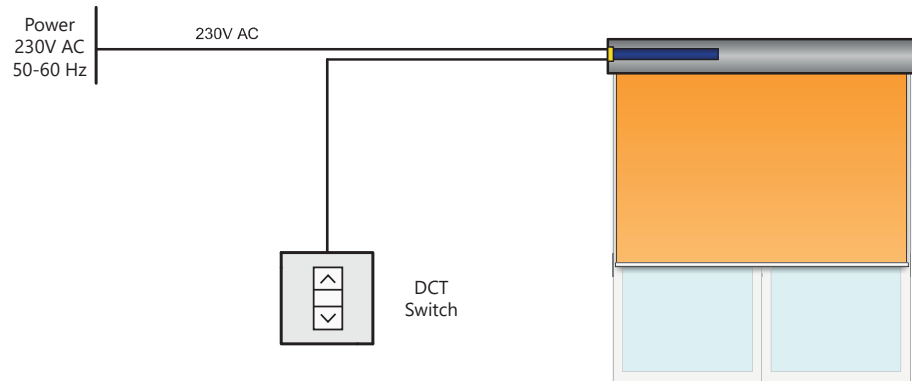
## DCT (DRY CONTACT) - POTENTIAL-FREE

Potential-free control is connecting the wires in the low-voltage cable at the motor or controller input.

The voltage is transferred from the COM wire to the UP, DOWN, STOP. After the COM wire is connected to directional or STOP wire, motor start/stop working. Stop function can also be obtained by combining the COM wire with the UP and DOWN wires.

**Control source:** COM potential-free wire from motor,

**Control:** COM connection with UP, DOWN or STOP wires.



# Overview of controls

## RF REMOTES



**AC116 RF**

MICRO remote  
AC116-03 RF | 1-channel  
AC116-04 RF | 2-channels



**AC129-01 RF**

MINI remote  
1-channel



**AC129-04 RF**

MINI remote  
4-channels



**AC127-01 RF**

1-channel



**AC127-02 RF**

2-channels



**AC127-06 RF**

6-channels



**AC127-16 RF**

16-channels

## RF REMOTE SWITCHES



**AC133-01 RF**

RF wall switch  
1-channel



**AC133-02 RF**

RF wall switch  
2-channels



**AC133-05 RF**

RF wall switch  
5-channels



**AC134-01 RF**

RF wall switch  
1-channel



**AC134-02 RF**

RF wall switch  
2-channels



**AC134-06 RF**

RF wall switch  
6-channels



**AC125-01 RF**

RF wall switch  
1-channels



**AC126-01 RF**

RF wall switch  
2-channels



**AC128-01 RF**

RF transmitter 16 channels  
with timer

## SWITCHES



**AC125-02 DCT**

switch  
1-channel



**AC126-02 DCT**

switch  
2-channels

DCT  
(POTENTIAL-FREE)



**AC227-01**

wall switch with built-in  
radio receiver 1-channel



**AC228-01**

wall switch with built-in  
radio receiver 2-channels

AC  
(WITH BUILT-IN RADIO RECEIVER)



**AC227-03**

wall switch with built-in  
radio receiver and power  
supply



**AC228-03**

wall switch with built-in  
radio receiver 4-channels

DC  
(WITH BUILT-IN RADIO RECEIVER)

## CONTROLLERS



**AC407-01 RF**

RF 16-channels controller



**AC520-01 RF**

smart hub

## WEATHER SENSORS



**AC115-01 RF**

RF wind/motion sensor



**AC302-01 RF**

RF wind/light/rain sensor

## POWER



**AM25-PS-24**  
power supply 1,7A



**AC801-01**  
power supply for AM24/AM25



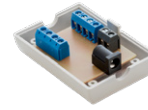
**AM25-CH-8.4**  
battery charger for AM24  
AM25EB RF



**AC601-01**  
solar panel for AM25EB RF



**DC.SPL.0400.0035**  
3-way power splitter - jack



**DX3-24VDC-PS**  
3-way power splitter  
24V DC



**AC899-01**  
micro USB cable for  
AM15EB RF (3 m)



**AM15-CH**  
charger for AM15EB RF

## INSTALLATION ACCESSORIES



**AC405-01**  
4-motors group controller



**DX1-T**  
230V > DCT converter  
for Torro motors



**DX1-S**  
230V > DCT converter  
for Somfy motors



**DX2-LSR**  
line switching relay



**DX4**  
230V AC / 24V DC  
converter



**RJ11GN**  
connection box RJ11



**RJ12GN-M**  
connection box RJ12

## RF CONNECTION



**AC226-01 RF**  
radio receiver AC RF  
(waterproof IP55)



**AC212-03 RF**  
radio receiver AC RF  
(IP20)



**AC512-01**  
trigger AC/RF

## LIMIT SWITCH



**AM24-ELS**  
limit switch for AM24





## Power - maximum number of motors

	AM24	AM24RF	AM25	AM25RF	AM25EB RF
AC227-03	1		1		
AM25-PS-24	2	2*	3	3*	
AC801-01	1	1	1	1	
AM25-CH-8.4					1
AC601-01					1

\* Requires the plug to be cut off and remain polarisation or to use power splitter.



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# RF Remotes



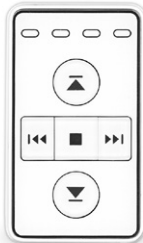
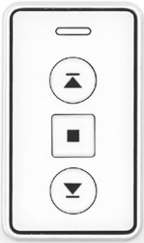
## AC116-03D RF | AC116-04D RF

CHANNEL 1 | CHANNELS 4

### MICRO REMOTE 1-CHANNEL

- Signal LED light
- Lockable button cover
- May be used as key ring

DIMENSIONS 55 x 30 x 13 mm | BATTERY 27A



### MINI REMOTE

- Acrylic coating for protection against scratches
- Micro USB charging
- Compact size

DIMENSIONS 55 x 32 x 9 mm | BATTERY Li-ion

## AC129-01 RF

CHANNEL 1

## AC129-04 RF

CHANNELS 4



### RADIO REMOTE

- Acrylic coating for protection against scratches
- LED channel selection
- Hidden program button
- Available in two colors versions
- Magnetic holder included

DIMENSIONS 123 x 43 x 11 mm | BATTERY CR2032

## AC127-01 RF

CHANNEL 1

## AC127-02 RF

CHANNELS 2

## AC127-06 RF

CHANNELS 6

## AC127-16 RF

CHANNELS 16

# Wall switches RF



**AC133-01 RF**

CHANNEL 1

**AC133-02 RF**

CHANNELS 2

**AC133-05 RF**

CHANNELS 5

- Possibility to remove switch from the magnetic holder
- Low power consumption
- Signal LED light
- Available in two colors (black & white)
- Mounting tape for easy installation

DIMENSIONS 81 x 81 x 18 mm

BATTERY CR2032



**AC134-01 RF**

CHANNEL 1

**AC134-02 RF**

CHANNELS 2

**AC134-06 RF**

CHANNELS 6

- Possibility to remove switch from the magnetic holder
- Low power consumption
- Signal LED light
- Mounting tape for easy installation

DIMENSIONS 86 x 86 x 12 mm

BATTERY 27A



**AC125-02 RF**

CHANNEL 1

**AC126-02 RF**

CHANNELS 2

- Acrylic coating for protection against scratches
- Signal LED light
- Surface mounted box included

DIMENSIONS 86 x 86 x 12 mm

BATTERY 27A



**AC128-01 RF**

16-CHANNELS

- Illuminated LCD screen with clock and touch panel
- Timer
- Possibility to remove transmitter from the magnetic holder
- Channels may be split into 3 groups
- Option to set 6 time points per day
- Available in two colors (black & white)

DIMENSIONS 86 x 86 x 16 mm

BATTERY CR2032

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# Switches

## AC125 DCT / AC126 DCT - Potential-free



- Acrylic coating for protection against scratches
- Signal LED light
- Surface mounted box included

DIMENSIONS 86 x 86 x 12 mm

VOLTAGE 230V AC

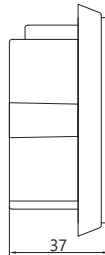
### AC125-02 RF

CHANNELS	1
OUT. POWER	24V DC

### AC126-02 RF

CHANNELS	1
OUT. POWER	230V AC

## Switches with built-in receiver



- Acrylic coating for protection against scratches
- Signal LED light
- Surface mounted box included
- Built-in 24V power supply (AC227-03)

DIMENSIONS 86 x 86 x 46 mm

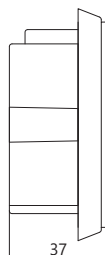
VOLTAGE 230V AC

### AC227-01 RF

CHANNELS	1
OUT. POWER	230V AC

### AC227-03 RF

CHANNELS	1
OUT. POWER	24V DC



- Acrylic coating for protection against scratches
- Signal LED light
- Surface mounted box included

DIMENSIONS 86 x 86 x 46 mm

VOLTAGE 24V DC

### AC228-01 RF

CHANNELS	2
OUT. POWER	230V AC

### AC228-03 RF

CHANNELS	4
OUT. POWER	24V DC

# Controller



## AC407-01 RF

16-CHANNELS

- Possibility of controlling window shutters by computer
- Current channel number backlight
- High sensitivity antenna
- Compatible with all types of Torro controls
- Can be series connected with other AC407-01 controllers
- 2x RJ 45 sockets, 1x RJ 9 socket

DIMENSIONS 140 x 140 x 25 mm

VOLTAGE DC 12V



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## PLATO

AC520-01 RF

SMART HUB



- Control via mobile devices by internet
- Divide devices into groups and create scenes
- Ability to control infrared devices
- Supports up to 20 devices simultaneously
- RF range up to 300 meters
- Saving settings in the cloud
- Wi-Fi 2.4 GHz 802.11 b/g/n
- LED indicator

DIMENSIONS 110 x 110 x 33 mm

VOLTAGE 5V

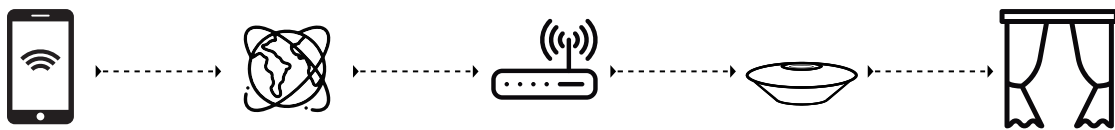


DEDICATED APP





## HOW DOES SMART HOME WORK?



Smart Home is the management of home automation, even during our absence. From anywhere on earth thanks to the global Internet network, our command immediately goes directly to your home/office and with the help of the Smart control unit is transferred to the controlled device.

## WHAT ARE THE BENEFITS OF THE SMART HOME CONTROL UNIT?



CONVENIENCE OF USE



SAFETY



SAVINGS

## IN A WIDER PERSPECTIVE

The Smart Home hub opens the door to the world of home automation and enables to connect a multiple of peripheral devices that communicate using compatible radio or infrared protocols.

- Night lighting controlled by motion sensors will automatically adjust the illuminated area, analyzing the user's location.
- Door / window opening sensors will immediately inform the user when someone is trying to get into his apartment and the internal monitoring cameras start recording
- The system will automatically adjust the temperature in our house to the expected one. Temperature sensors analyzing the conditions will regulate work
- Dzięki zastosowaniu asystenta głosowego wywoływanie scen będzie możliwe za pomocą mowy, bez korzystania z telefonu.



# Weather sensors

## AC115-01 RF wind/motion sensor



- Automatically closes blind in case of the strong wind
- Detects system shocks
- Sensitivity adjustment potentiometer
- Maximum range up to 20 m
- Battery powering

BATTERY TYPE	WORKING TEMPERATURE	RADIO FREQUENCY	TRANSMITTED POWER	POWER CONSUMPTION		PROTECTION CLASS
				STANDBY	WORK	
LRO3 / AAA x 2	-40°C÷85°C	433,92 MHz	≤ 10 mW	≤ 1µA	≤ 10mA	IP65

## AC302-01 RF wind/light/rain sensor



- Automatically closes blind in case of the strong wind
- Automatically closes blind in case of the strong sunlight
- LED display
- Powered by the built-in solar panel
- Adjustable wind speed sensitivity from 10 km/h up to 50 km/h
- Adjustable sun sensitivity 0,2-10 kLux
- No cable power required

POWER	WORKING TEMPERATURE	RADIO FREQUENCY	TRANSMITTED POWER	POWER CONSUMPTION		PROTECTION CLASS
				STANDBY	WORK	
Panel + Battery	-40°C÷85°C	433,92 MHz	≤ 15 mW	≤ 5µA	≤ 15mA	IP55

# RF Connection

## AC226-01 RF Radio receiver



- Compact, easy to assemble
- dot move/continuous move mode
- Sealed housing protects against moisture

CHANNELS	RADIO FREQUENCY	VOLTAGE	WORKING TEMPERATURE	PROTECTION CLASS	SUSTAINABLE WORKING TIME	DIMENSIONS
1	433.92Mhz	230V AC	-40°C~+85°C	IP65	5 min	128 x 31 x 22 mm

## AC212-01 RF Receiver



- Possibility of independent control by DCT switch
- Continuous move mode
- Possibility to pair up to 20 remotes
- Range up to 200 m (in open area)

CHANNELS	RADIO FREQUENCY	VOLTAGE	WORKING TEMPERATURE	PROTECTION CLASS	SUSTAINABLE WORKING TIME	DIMENSIONS
1	433.92Mhz	12V 50mA	-40°C~+85°C	IP20	5 min	50 x 47 x 27 mm

## AC512-02 Trigger



- Triggering the RF signal at the moment of starting
- ABS cover
- The ability to connect the projector control to the screen.

RADIO FREQUENCY	POWER	WORKING TEMPERATURE	PROTECTION CLASS	DIMENSIONS	CABLE LENGTH
433.92Mhz	230V AC	-40°C~+85°C	IP20	85 x 60 x 36 mm	24 cm

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# Power



## AM25-PS-24

Power supply for AM 24/25 RF

Input voltage	100-240V AC
Output voltage	DC 24V/1,7A
Frequency	50/60Hz
Wire	1,5 m
Plug	jack 5,5/2,1 mm
Dimensions	102 x 49 x 34 mm
Mounting bracket	included



## AC801-01

Power supply for AM 24/25 RF headrail V13

Input voltage	100-240V AC
Output voltage	DC 24V/1A
Frequency of voltage	50/60Hz
Wire	none
Dimensions	115 x 24 x 21 mm



## AM25-CH-8.4

Charger for AM25EB RF

Max. Power	1,7W
Voltage	8,4V
Working power	0,3A
Wire	3,0 m
Socket	jack 5,5/2,1 mm
Dimensions	115 x 24 x 24 mm



## AC601-01

Solar panel for AM25EB RF

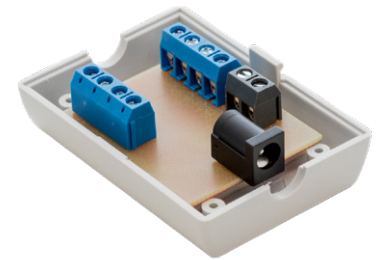
Max. Power	1W
Voltage	8,4V
Working power	0,08A
Cable length	2,3 m
Dimensions	385 x 58 x 15 mm



## DC.SPL.0400.0035

3-way power splitter - jack

Input voltage	230V AC
Max. Working power	5A
Cable length	0,35 m



## DX3-24VDC-PS

4-way power splitter 24V DC

Input voltage	24V DC
Socket	jack 5,5/2,1 mm
Dimensions	65 x 47 x 27 mm
Cover	included



## AC899-01

Micro usb cable for AM15EB RF (3 m)

Input voltage	230V AC
Cable length	3 m



## AM15-CH

Charger for AM15EB RF

Input voltage	230V AC
Voltage	5V
Working power	0,5A
Wire	3 m

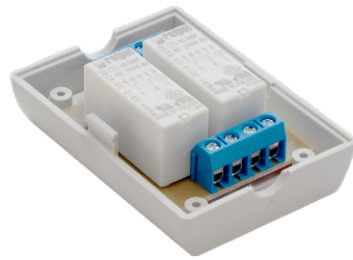
# Installation accessories



## AC405-01

Group controller - 4 motors

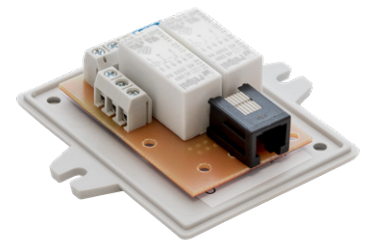
Connectors	4
Input voltage	230V AC
Protection	IP20
Dimensions	65 x 47 x 27 mm



## DX2-LSR

Line switching relay

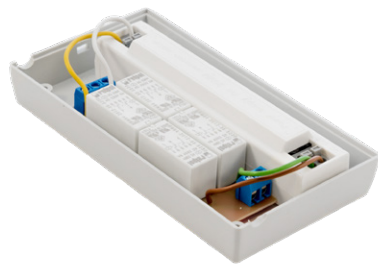
Input voltage	24V DC
Dimensions	65 x 47 x 27 mm
Cover	included



## DX1-3-T / DX1-3-S

Converter 230V > DCT  
(T) - Torro, (S) - Somfy.

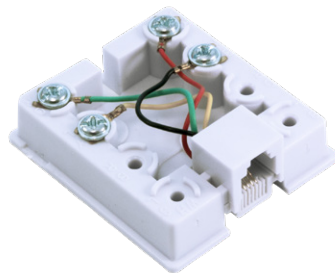
Input voltage	230V AC
Socket	RJ12
Junction box	included
Dimensions	76 x 59 x 28 mm



## DX4

230V AC / 24V DC.  
converter

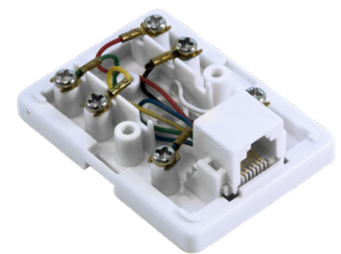
Input voltage	230V AC
Junction box	included
Dimensions	130 x 70 x 30 mm



## RJ11GN

Connection box for DCT switch  
installation.

Socket	RJ11
Dimensions	57 x 49 x 21 mm
Cover	included



## RJ12GN

Connection box for DCT switch  
installation.

Socket	RJ12
Dimensions	58 x 43 x 24 mm
Cover	included



## AM24-ELS

Middle motor AM 24 limit switch

Hole	6 mm hex
Wire	2,4 m
Dimensions	126 x 25 x 25 mm

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# Tubular motors



# GENERAL INFORMATION

## MOTOR NAMES


In order to make it easier for you to choose appropriate motor, we decided to unify the names so that the basic parameters can be concluded basing on the motor name. The following is an example of how to interpret motor names:

**AM35 QMEL 3/28 RF 5W 230V AC**

AM	35	Q	MEL	M	E	ER-E	S	R	EB	3/28	RF	5W	LS	230V AC/24V DC
series	size / type	silent run	electronic limit setting and RF receiver	additional crank control	mechanical limit setting and RF receiver	stop by block, electronic limit setting	short	stop by block	built-in battery	torque/revolutions per minute (Nm/rpm)	RF radio control	5-wire line switching and/or radio control	line switching	voltage

## PURPOSE

### Indoor blinds

 - Horizontal blinds

 - Roller blinds

 - Pleated blinds

 - Roman blinds

### Outdoor blinds

 - STRONG Motors



## How to prepare the installation for Torro motors?

Cables with min. 0.75 mm<sup>2</sup>. Number of wires depends on the motor type and control: Phase motors: 4 wires (with grounding), radio motors : 3 wires, potential-free: 3 wires + twisted-pair, always with reference to wiring diagrams included in this catalogue.

## How to change the rotation direction of the 24V motor?

If motor have built-in radio receiver, just reprogram it with a remote control as instructed. In case of control with polarity change the sequence of connecting the power supply cables need to be changed.

## How to change the rotation direction of the slats in horizontal blind?

You can change the installation side from left to right or lower bottom end position till slats are pulled on the other side. Afterwards both end positions have to be properly set and move directions have to be reversed on the remote control.

## How many motors can be connected to the same phase/radio controlled line?

Line switching-controlled motors should be connected individually or in groups using appropriate separators or relays. Radio controlled motors should be connected depending on network parameters.

## Can motors be programmed to automatically open/close without human interference, eg when away from home?

Yes, use radio controlled motors and AC128-01RF radio wall switch with timer. In case of phase-controlled motors they should be equipped with radio receivers and also add timer. It will be possible then to program up to 6 time points per day for 16 channels.

## Can I use phase control for radio motors?

Yes, if you have the potential-free control (DCT) after using the DX1-3-T converter or grouped with the DX1-3-T converter and the AC405-01 radio controller.

## Can I use radio control for phase motors?

Yes, after equipping the motors with AC212-01 RF or AC226-01 radio receivers or using phase switches with radio receiver or any electrical equipment supplier.

## Is it possible to control by the both, phase and radio?

Phase-controlled motors should be equipped with radio receivers if connected properly, phase and radio control will be available.

## Which Torro motors are compatible with the Fibaro system?

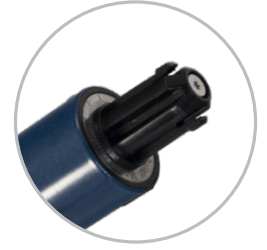
All tubular and curtain motors with phase control are able to use Fibaro Roller Shutter 2 with full functionality. Other connection schemes are also possible but this may result in lack of full functionality (only close/open without motor feedback).

## Is it possible to simultaneously control the motor using Fibaro system and Torro radio remote control?

Yes, you have to equip a motor additional AC226-01 or AC212-01 RF radio receiver.



# AM35 - line switching



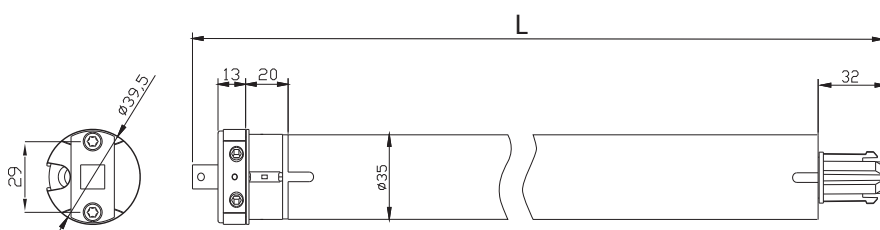
## AM35

- Overload and high temperature automatic shutdown
- Mechanical limit setting
- Max number of circles between limits - 45
- 10x10 mm adapter included

## PARAMETERS

	STRONG			
	AM35Q	AM35Q	AM35	AM35
Torque [Nm]	3	6	6	10
Revolutions per minute [rpm]	28	18	28	14
Voltage	230V AC	230V AC	230V AC	230V AC
Power consumption [A]	0,38	0,49	0,49	0,49
Power [W]	85	115	115	115
Diameter [mm]	35	35	35	35
Length [mm]	502	518	507	597
Silent run	●	●		
Built-in radio receiver				
Electronic limit setting				
Potential-free				
Limits (main   intermediate)	2   0	2   0	2   0	2   0
IP protection class	IP44	IP44	IP44	IP44
Working temperature	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C
Cable length [m]	0,95	0,95	0,95	0,95

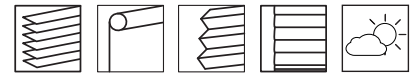
## DIMENSIONS



## WIRE



# AM35 - RF radio control



## AM35

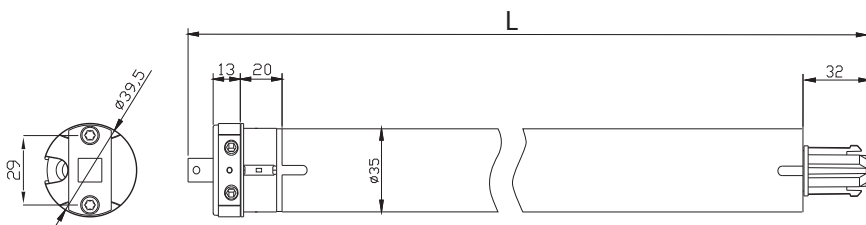
- Overload and high temperature automatic shutdown
- Built-in radio receiver
- Compatible with all types of Torro controls
- 10x10 mm adapter included
- Possibility of potential-free or serial control (RJ12 plug)
- Maximum work time 4 min

## PARAMETERS

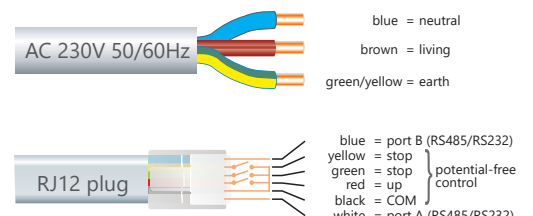
					STRONG	STRONG
	AM35QMEL RF	AM35QMEL RF	AM35E	AM35MEL RF	AM35E	AM35MEL RF
Torque [Nm]	3	6	6	6	10	10
Revolutions per minute [rpm]	28	18	28	28	14	14
Voltage	230V AC	230V AC	230V AC	230V AC	230V AC	230V AC
Power consumption [A]	0,38	0,49	0,49	0,49	0,49	0,49
Power [W]	85	115	115	115	115	115
Diameter [mm]	35	35	35	35	35	35
Length [mm]	507	518	597	507	597	509
Silent run	●	●				
Built-in radio receiver	●	●	●	●	●	●
Electronic limit setting	●	●		●		●
Potential-free	●*	●*		●*		●
Limits (main   intermediate)	2   4	2   4	2	2   4	2	2
IP protection class	IP44	IP44	IP44	IP44	IP44	IP44
Working temperature	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-40 ÷ 85 °C	-40 ÷ 85 °C
Cable length [m]	0,95	0,95	0,95	0,95	0,95	0,95

\* Motors available in versions with potential-free control (RJ12 plug) or without.

## DIMENSIONS



## WIRE



CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

CONNECTION DIAGRAMS

CONNECTIONS WITH FIBARO SYSTEM

ADAPTATIONS

# AM45 - line switching



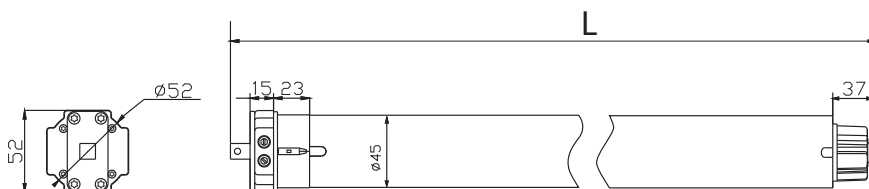
## AM45

- Overload and high temperature automatic shutdown
- Maximum work time 4 min
- Precise limit switches (+/- 2°)
- 10x10 mm adapter included
- Reinforced brake mechanism
- Max number of circles between limits - 55

## PARAMETERS

	AM45Q	STRONG AM45	STRONG AM45	STRONG AM45	STRONG AM45 S	STRONG AM45 QP	STRONG AM45 QP	STRONG AM45 QP
Torque [Nm]	6	10	20	30	10	10	20	30
Revolutions per minute [rpm]	28	17	17	17	17	17	17	17
Voltage	230V AC	230V AC	230V AC	230V AC	230V AC	230V AC	230V AC	230V AC
Power consumption [A]	0,49	0,51	0,74	0,89	0,51	0,51	0,74	0,89
Power [W]	115	135	170	200	115	115	170	200
Diameter [mm]	45	45	45	45	45	45	45	45
Length [mm]	708	522	564	584	455	542,5	562,5	580,5
Silent run	●					●	●	●
Built-in radio receiver								
Electronic limit setting						●	●	●
Potential-free								
Limits (main   intermediate))	2   0	2   0	2   0	2   0	2   0	2   0	2   0	2   0
IP protection class	IP44	IP44	IP44	IP44	IP44	IP44	IP44	IP44
Working temperature	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C
Cable length [m]	0,90	0,95	0,95	0,95	0,95	0,95	0,95	0,95

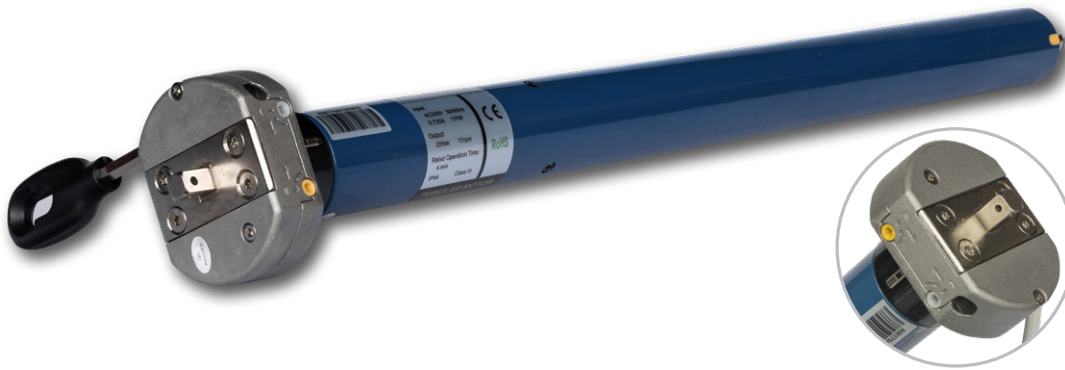
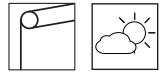
## DIMENSIONS



## WIRE



# AM45 - additional crank control (NHK)



## AM45 M

- Emergency manual control (crank)
- Overload and high temperature switch
- Max number of circles between limits - 22
- Reinforced brake mechanism
- Precise worm gear

## AM45 ME

- Emergency manual control (crank)
- Precise limit switches (+/- 2°)
- Reinforced brake mechanism
- Precise worm gear
- Mechanical limit setting

## PARAMETERS

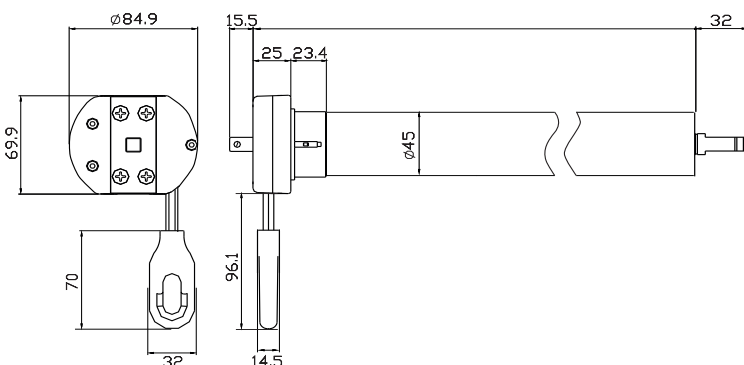
	STRONG	STRONG	STRONG	STRONG
	AM45 M	AM45 M	AM45 ME	AM45 ME
Torque [Nm]	20	30	20	30
Revolutions per minute [rpm]	17	17	17	17
Voltage	230V AC	230V AC	230V AC	230V AC
Power consumption [A]	0,74	0,89	0,74	0,89
Power [W]	170	200	170	200
Diameter [mm]	45	45	45	45
Length [mm]	681	681	781	781
Silent run				
Built-in radio receiver			●	●
Electronic limit setting				
Potential-free				
Limits (main   intermediate)	2   0	2   0	2   0	2   0
IP protection class	IP44	IP44	IP44	IP44
Working temperature	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C
Cable length [m]	0,95	0,95	0,95	0,95

## CRANK

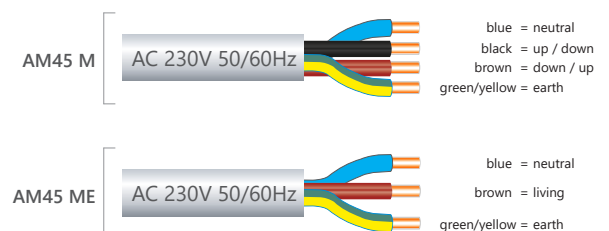


Extended crank 270 mm  
STO-01-270

## DIMENSIONS



## WIRE



CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

CONNECTION DIAGRAMS

CONNECTIONS WITH FIBARO SYSTEM

ADAPTATIONS

# AM45 - RF radio control



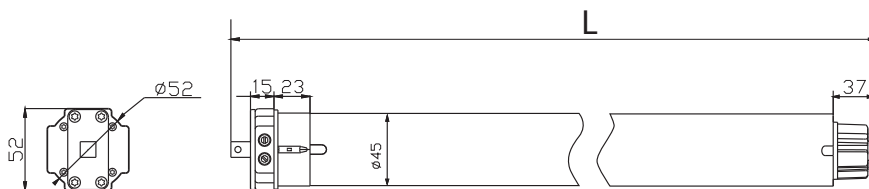
## AM45

- Overload and high temperature switch
- Maximum work time 4 min
- Precise limit switches (+/- 2°)
- 10x10 mm adapter included
- Electronic limit setting (AM45 ER-E)
- Reinforced brake mechanism

## PARAMETERS

		STRONG	STRONG	STRONG	STRONG	STRONG	STRONG
	AM45QMEL RF	AM45 E	AM45 E	AM45 E	AM45 ER-E	AM45 ER-E	AM45 ER-E
Torque [Nm]	6	10	20	30	10	20	30
Revolutions per minute [rpm]	28	17	17	17	17	17	17
Voltage	230V AC	230V AC	230V AC	230V AC	230V AC	230V AC	230V AC
Power consumption [A]	0,49	0,51	0,74	0,89	0,51	0,74	0,89
Power [W]	115	115	170	200	115	170	200
Diameter [mm]	45	45	45	45	45	45	45
Length [mm]	718	622	667	682	708	708	708
Silent run	●						
Built-in radio receiver	●	●	●	●	●	●	●
Electronic limit setting	●				●	●	●
Potential-free							
Limits (main   intermediate)	2   4	2   0	2   0	2   0	2   4	2   4	2   4
IP protection class	IP44	IP44	IP44	IP44	IP44	IP44	IP44
Working temperature	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C	-10 ÷ 60 °C
Cable length [m]	0,95	0,95	0,95	0,95	0,95	0,95	0,95

## DIMENSIONS



## WIRE



# AM25 - 24V DC powering



## AM25

- Mechanical limit setting
- Precise limit switches (+/- 2°)
- Max number of circles between limits - 26
- Low energy usage

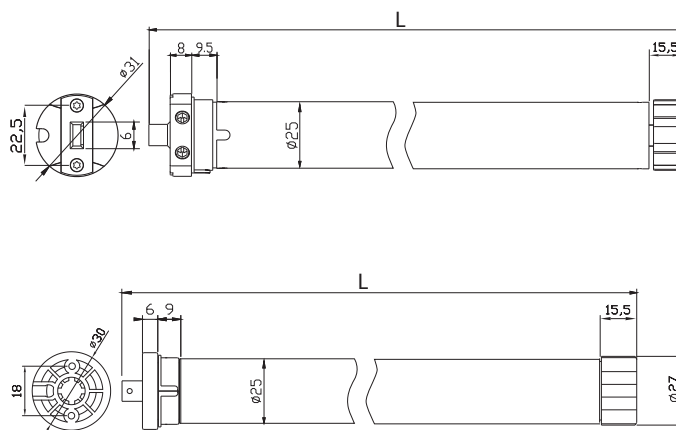
## AM25 RF

- Overload and high temperature switch
- Compatible with all types of Torro controls
- Low energy usage

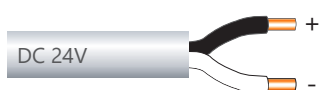
## PARAMETERS

	AM25	AM25 RF
Torque [Nm]	1	1
Revolutions per minute [rpm]	30	30
Voltage	24V DC	24V DC
Power consumption [A]	0,45	0,45
Power [W]	11	11
Diameter [mm]	25	25
Length [mm]	325,2	289,7
Silent run		
Built-in radio receiver		●
Electronic limit setting		●
Potential-free		
Limits (main   intermediate)	2   0	2   4
IP protection class	IP44	IP44
Working temperature	-10 ÷ 60 °C	-10 ÷ 60 °C
Cable length [m]	1,85	1,35

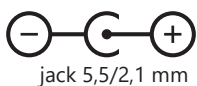
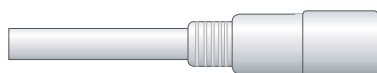
## DIMENSIONS



## WIRE



## PLUG



jack 5,5/2,1 mm

CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

CONNECTION DIAGRAMS

CONNECTIONS WITH FIBARO SYSTEM

ADAPTATIONS

# AM25EB RF - battery motor



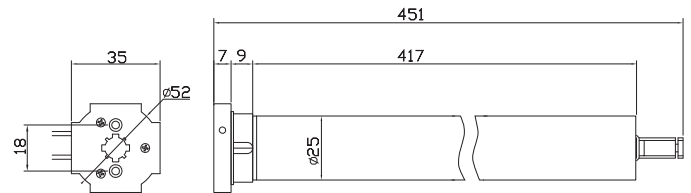
## AM25EB RF

- Built-in rechargeable battery
- Compatible with all types of Torro controls
- Precise limit switches (+/- 2°)
- Max number of circles between limits - 26
- Low energy usage
- Up to half a year battery life (with 1 open-close per day)

## PARAMETERS

	AM25EB RF
Torque [Nm]	1,2
Revolutions per minute [rpm]	30
Voltage	7,4V DC battery
Power consumption [A]	0,9
Power [W]	6,7
Diameter [mm]	25
Length [mm]	451
Silent run	
Built-in radio receiver	●
Electronic limit setting	●
Potential-free	
Limits (main   intermediate)	2   4
IP protection class	IP44
Working temperature	-10 ÷ 60 °C
Cable length [m]	0,1

## DIMENSIONS



## POWER

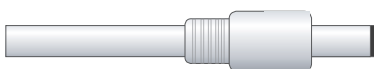


Charger  
AM25-CH-8.4



Solar Panel  
AC601-01

## PLUG



jack 5,5/2,1 mm

# AM24 - 24V DC powering



## AM24

- Power and control by the cable - changing the polarity
- Limits adjustment via limit switch
- 6mm hex adapter - for venetian blinds  
5mm square adapter - for roman blinds  
5mm square adapter - for pleated blinds
- Integral rubber rail adaptation minimizes vibration
- Max number of circles between limits - 60

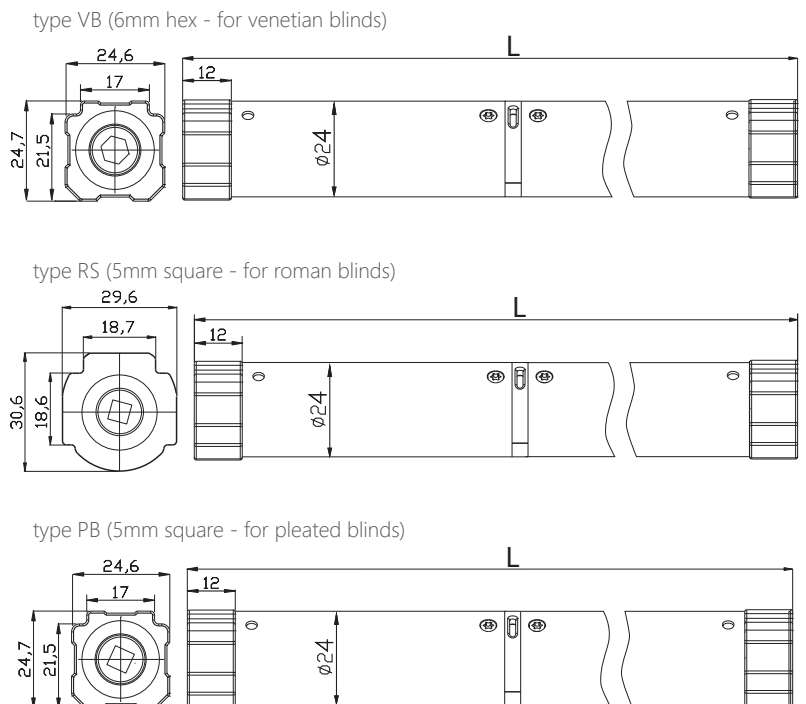
## AM24 RF

- Built-in radio receiver
- 6mm hex adapter - for venetian blinds  
5mm square adapter - for roman blinds  
5mm square adapter - for pleated blinds
- Soft START/STOP
- Overload switch
- Maximum work time - 7 min
- Smooth adjustment of slats angle

## PARAMETERS

	AM24	AM24RF
Torque [Nm]	0,8	0,8
Revolutions per minute [rpm]	34	34
Voltage	24V DC	24V DC
Power consumption [A]	0,65	0,65
Power [W]	16	16
Diameter [mm]	24	24
Length [mm]	201,4	201,4
Silent run		
Built-in radio receiver		●
Electronic limit setting		●
Potential-free		
Limits (main   intermediate)	2   0	2   0
IP protection class	IP III	IP III
Working temperature	-10 ÷ 60 °C	-10 ÷ 60 °C
Cable length [m]	1,45	1,5

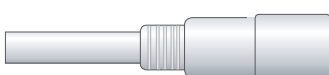
## DIMENSIONS



## WIRE



## PLUG



CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

CONNECTION DIAGRAMS

CONNECTIONS WITH FIBARO SYSTEM

ADAPTATIONS



# AM15EB RF - battery motor



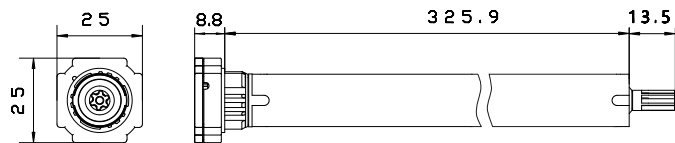
## AM15EB RF

- Built-in rechargeable battery
- Compatible with all types of Torro controls
- Low energy usage
- Overload and high temperature switch
- Up to four months battery life (with 1 open-close per day)

## PARAMETERS

	AM15EB RF
Torque [Nm]	0,3
Revolutions per minute [rpm]	35
Voltage	5V DC battery
Power consumption [A]	0,8
Power [W]	4,0
Diameter [mm]	15,5
Length [mm]	355
Silent run	
Built-in radio receiver	●
Electronic limit setting	●
Potential-free	
Limits (main   intermediate)	2   4
IP protection class	IP44
Working temperature	-10 ÷ 60 °C
Cable length [m]	-

## DIMENSIONS



## POWER\*



Charger  
AM15-CH



Micro USB cable (3 m)  
AC899-01

\* We recommend using a dedicated charger (AM15-CH) or other according to the recommended parameters - 5V / 0,5A. Using a charger with other parameters may have a negative impact on the motor battery life.

# Tubular motors - summary

	MOTOR				CONTROL					LIMITS	
	TORQUE [Nm]	REVOLUTIONS PER MINUTE [rpm]	SILENT RUN	REBOUND WHEN MEET RESISTANCE	RF (RADIO)	PHASE	DCT (POTENTIAL-FREE)	CHANGING THE POLARITY	SERIAL PORT	ELECTRONICAL	MECHANICAL
AM15EB RF	0,3	35			●					●	
AM24	0,8	34						●			●*
AM24RF <sup>†</sup>	0,8	34			●						●
AM25	1	30						●			●
AM25 RF	1	30			●					●	
AM25EB RF	1,2	30			●					●	
AM35 6/28	6	28				●					●
AM35E 6/28	6	28			●						●
AM35 10/14	10	14				●					●
AM35E 10/14	10	14			●						●
AM35MEL 10/14 RF	10	14			●		●		●	●	
AM35MEL 3/28 RF	3	28			●		●		●	●	
AM35MEL 6/28 RF	6	28			●		●		●	●	
AM35Q 3/28	3	28	●			●					●
AM35Q 6/18	6	18	●			●					●
AM35QMEL 3/28 RF	3	28	●		●		●		●	●	
AM35QMEL 6/20 RF	6	20	●		●		●		●	●	
AM35QMEL 6/18 RF	6	18	●		●		●		●	●	
AM45Q 6/28	6	28	●								●
AM45QMEL 6/28 RF	6	28	●		●					●	
AM45 10/17	10	17				●					●
AM45 20/17	20	17				●					●
AM45 30/17	30	17				●					●
AM45 S 10/17	10	17				●					●
AM45 E 10/17	10	17			●						●
AM45 E 20/17	20	17			●						●
AM45 E 30/17	30	17			●						●
AM45-QP 10/17	10	17	●			●				●	
AM45-QP 20/17	20	17	●			●				●	
AM45-QP 30/17	30	17	●			●				●	
AM45 ER-E 10/17	10	17		●	●					●	
AM45 ER-E 20/17	20	17		●	●					●	
AM45 ER-E 30/17	30	17		●	●					●	
AM45 M 20/17	20	17				●					●
AM45 M 30/17	30	17				●					●
AM45 ME 20/17	20	17			●						●
AM45 ME 30/17	30	17			●						●

\* Mechanical brake required

CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

CONNECTION DIAGRAMS

CONNECTIONS WITH FIBARO SYSTEM

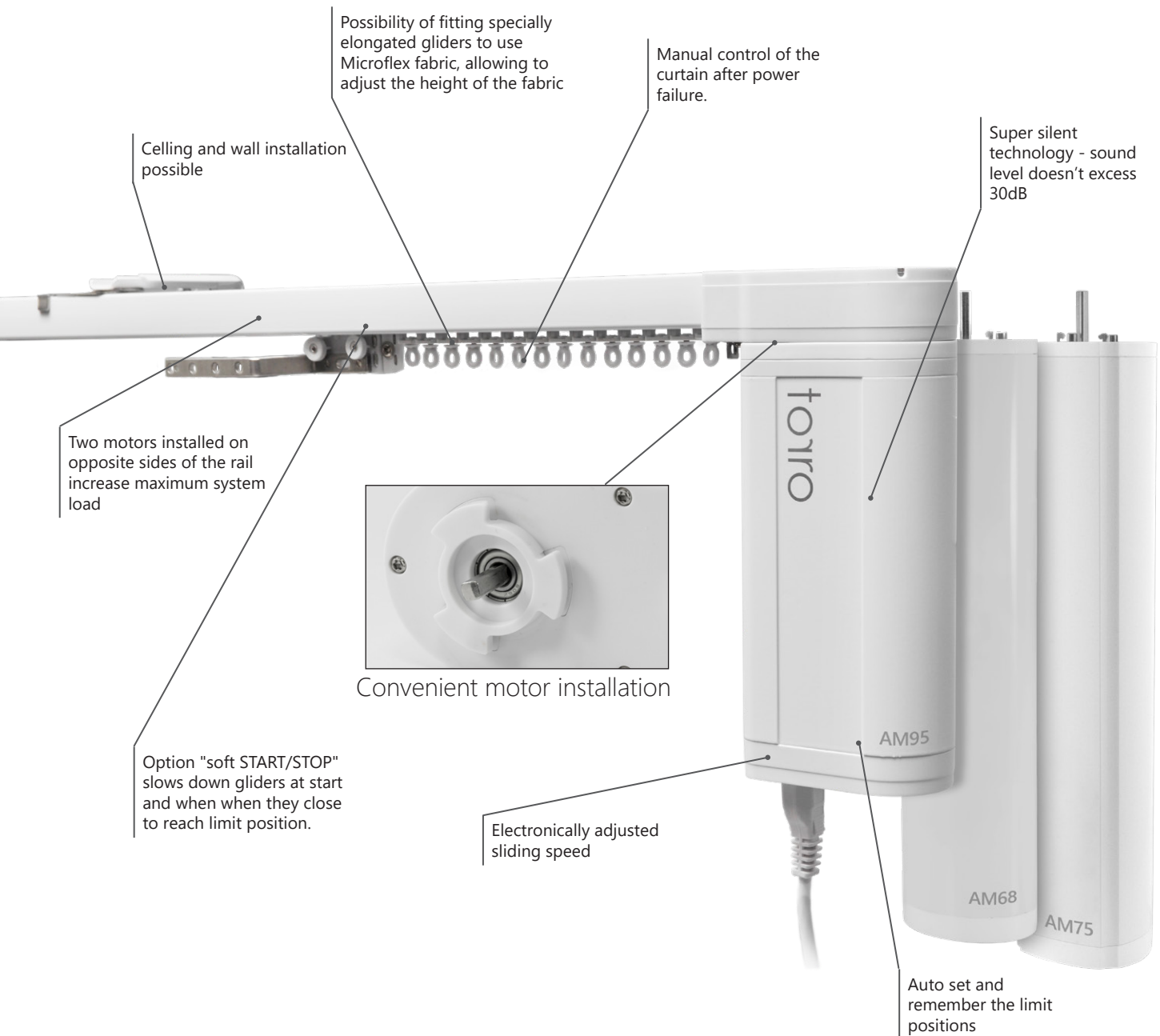
ADAPTATIONS



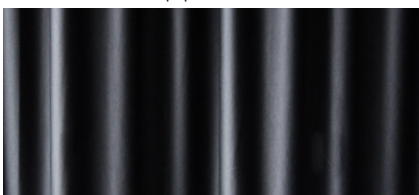
# Curtain Motors



# DESCRIPTION OF THE SYSTEM



Ripple fold



Special runners and tape sewn in the fabric create ripple effect on a curtain.

Touch Motion



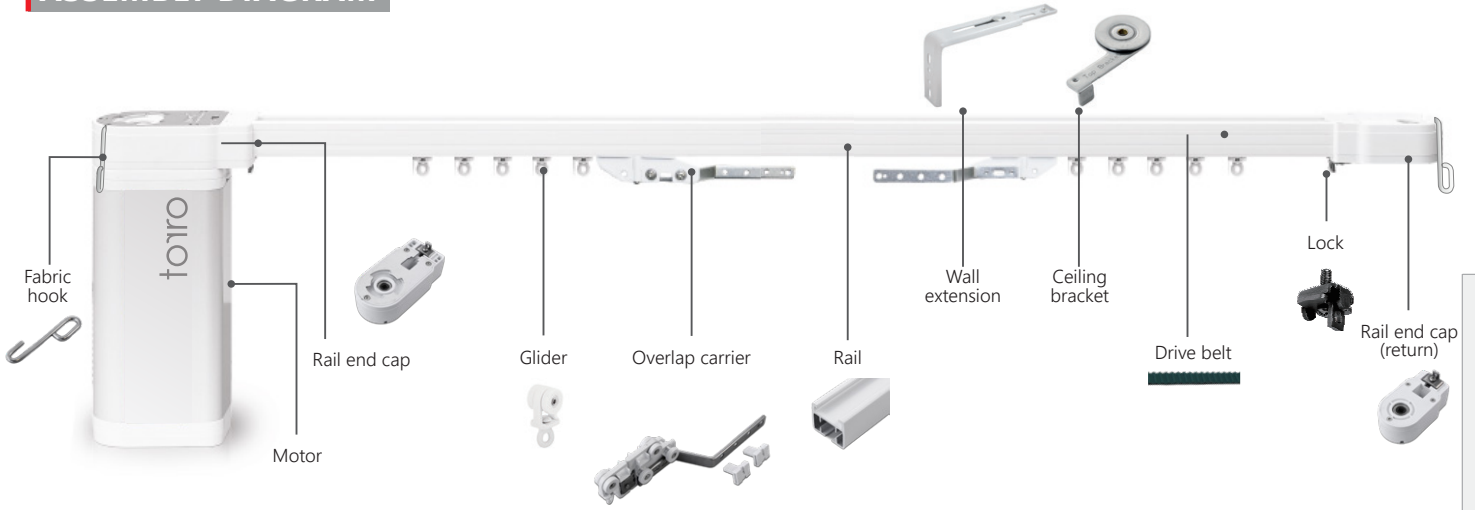
Start the motor by simply pulling the fabric. It is not possible to stop the curtain track with this function.

UP

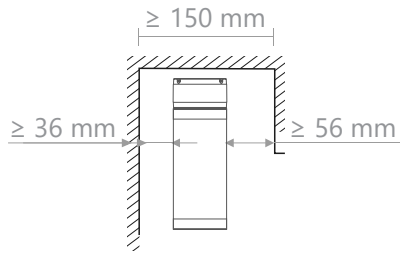


Solution for suspended ceiling enabling installation of the motor and cabling over the ceiling. Option offered without surcharge.

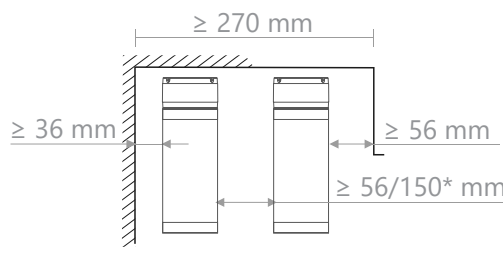
# ASSEMBLY DIAGRAM



# INSTALLATION DIMENSIONS

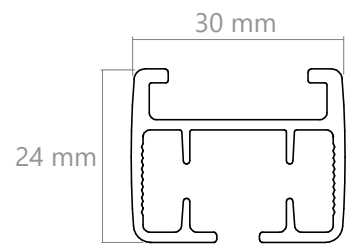


Single rail installation



Double rails installation (two fabric curtains)  
\*in the case of double bent rails

# RAIL



# GLIDERS



standard



bearing



bearing-microflex

CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

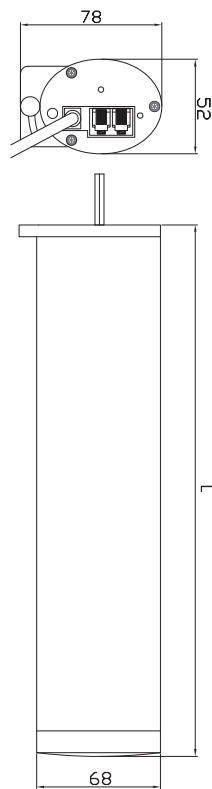
CONNECTION DIAGRAMS

CONNECTIONS WITH FIBARO SYSTEMS

ADAPTATIONS



## DIMENSIONS



## PARAMETERS

	AM68 LS	AM68 RF
Torque [Nm]	1	1
Revolutions per minute [rpm]	80	80
Voltage	230V AC	230V AC
Power consumption [A]	0,3	0,3
Power [W]	65	65
Dimensions [mm]	290 x 68 x 50	290 x 68 x 50
Silent run		
Built-in radio receiver		●
Electronic limit setting		
Potential-free		●
Limits (main   intermediate)	2   0	2   0
IP protection class	IP44	IP44
Working temperature	0 ÷ 50 °C	0 ÷ 50 °C
Cable length [m]	1,2	1,2
Wire	Permanent	Permanent

## AM68 LS

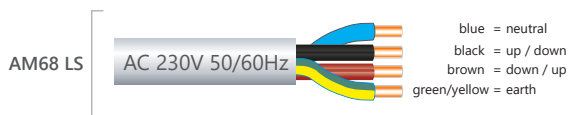
- Emergency manual control in case of power failure
- Automatic limit position adjustment
- Soft START/STOP

## AM68 RF

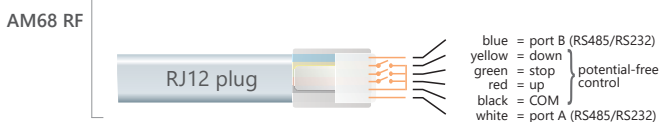
- Touch Motion
- Manual control in case of power failure
- Automatic limit position adjustment
- Soft START/STOP
- Comfort position

## WIRE

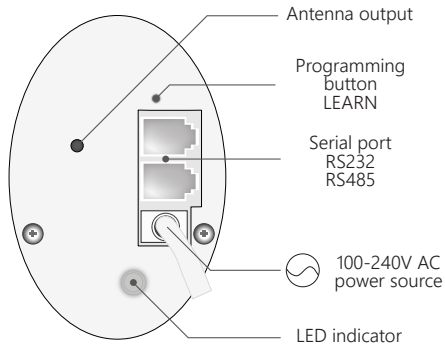
phase control



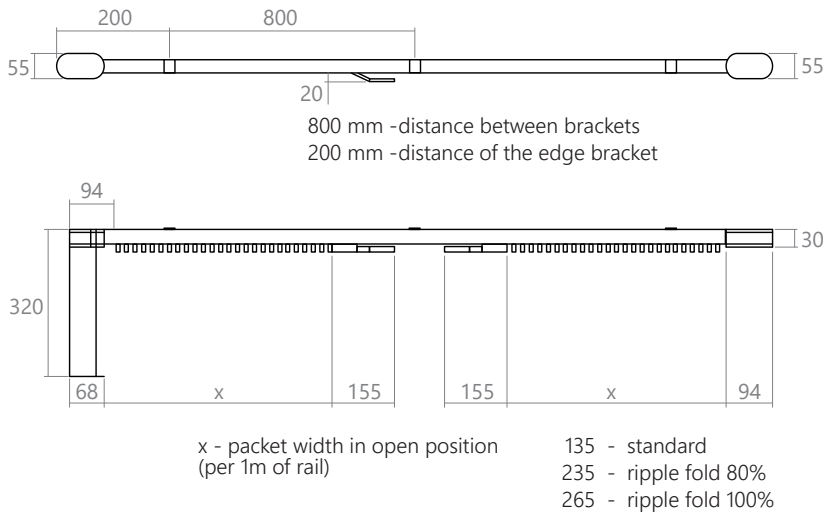
potential-free control, RF (radio control), RS485



## AM68



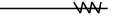


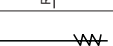

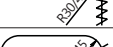
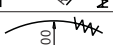

## SYSTEM DIMENSIONS



## BOUNDARY DIMENSIONS

maximum width	1200 cm	maximum load per 1 m of rail	12,5 kg
maximum width (without rail connector)	700 cm	maximum load of a glider	1 kg
sliding speed	10 / 12,5 / 16 cm/s	maximum system load	50 kg

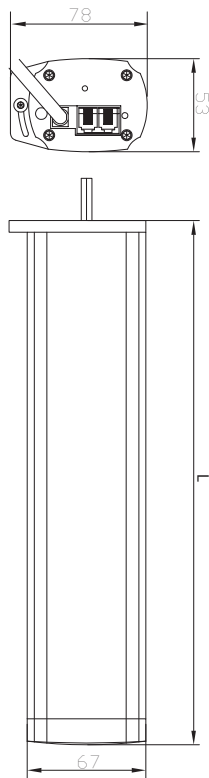
## MAXIMUM SYSTEM LOAD

	Rail type	Loading (fabric weight - kg)		
		up to 4 m	up to 8 m	up to 12 m
AM68 LS AM68 RF	straight rail 	50	45	40
	1 curve 	40	35	30
	2 curves 	30	25	20
	large curve 	21	16	
AM68 LS Tandem AM68 RF Tandem	straight rail 	70		
	1 curve 	50		
	2 curves 	40		
	large curve 	23		





## DIMENSIONS



## PARAMETERS

	AM75 LS	AM75 RF	AM75 RF-5W
Torque [Nm]	1,5	1,5	1,5
Revolutions per minute [rpm]	100	100	100
Voltage	100-240V AC	100-240V AC	100-240V AC
Power consumption [A]	0,3	0,3	0,3
Power [W]	65	65	65
Dimensions [mm]	297 x 67 x 53	297 x 67 x 53	297 x 67 x 53
Silent run	●	●	●
Built-in radio receiver		●	●
Electronic limit setting		●	
Potential-free	●	●	●
Limits (main   intermediate)	2   0	2   0	2   0
IP protection class	IP20	IP20	IP20
Working temperature	0 ÷ 50 °C	0 ÷ 50 °C	0 ÷ 50 °C
Cable length [m]	1,2	1,2	1,2
Wire	Permanent	Permanent	Permanent

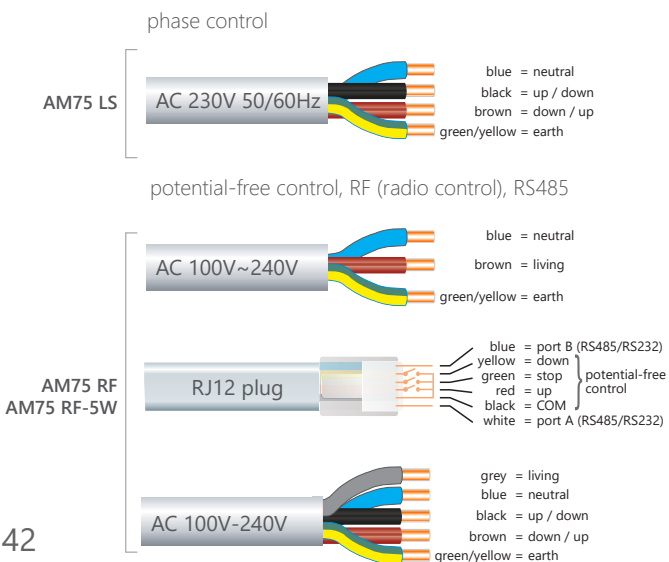
## AM75 LS

- Emergency manual control in case of power failure
- Automatic limit position adjustment
- Soft START/STOP

## AM75 RF

- Touch Motion
- Manual control in case of power failure
- Automatic limit position adjustment
- Soft START/STOP

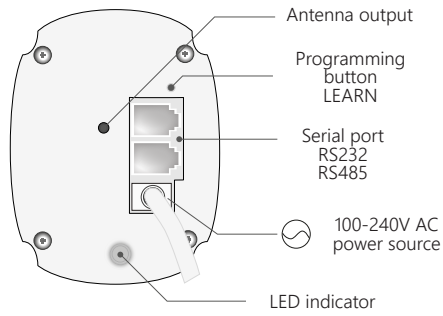
## WIRE



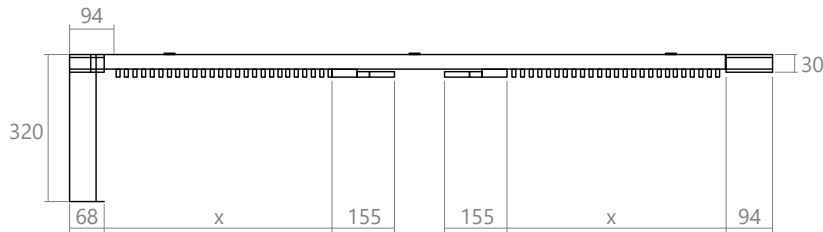
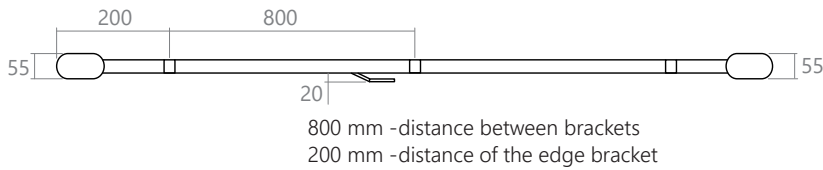
## AM75 RF-5W

- Touch Motion
- Manual control in case of power failure
- Automatic limit position adjustment
- Soft START/STOP

## AM75



## SYSTEM DIMENSIONS [MM]



x - packet width in open position (per 1m of rail)  
 135 - standard  
 235 - ripple fold 80%  
 265 - ripple fold 100%

## BOUNDARY DIMENSIONS

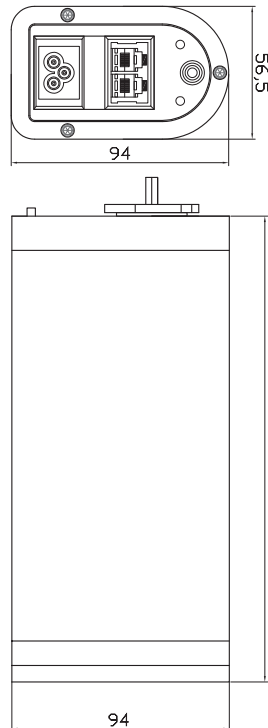
maximum width	1200 cm	maximum load per 1 m of rail	12,5 kg
maximum width (without rail connector)	700 cm	maximum load of a glider	1,25 kg
sliding speed	12,5 cm/s	maximum system load	56 kg

## MAXIMUM SYSTEM LOAD

	Rail type	Loading (fabric weight - kg)		
		up to 4 m	up to 8 m	up to 12 m
AM75 LS AM75 RF AM75 RF-5W	straight rail	50	56	50
	1 curve	50	43	37
	2 curves	37	31	25
	large curve	26	20	
AM75 LS Tandem AM75 RF Tandem AM75 RF-5W Tandem	straight rail	50	87	
	1 curve	50	62	
	2 curves	37		
	large curve	23		



## DIMENSIONS



## PARAMETERS

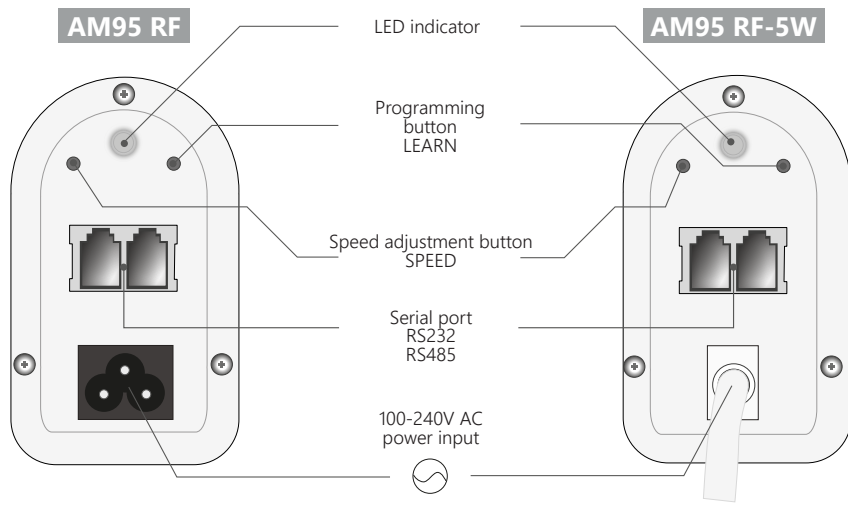
	AM95 RF	AM95 RF-5W
Torque [Nm]	1	1
Revolutions per minute [rpm]	80-100-130	80-100-130
Voltage	230V AC	230V AC
Power consumption [A]	0,4	0,4
Power [W]	96	96
Dimensions [mm]	215 x 94 x 57	215 x 94 x 57
Silent run	●	●
Built-in radio receiver	●	●
Electronic limit setting	●	●
Potential-free	●	●
Limits (main   intermediate)	2   0	2   0
IP protection class	IP44	IP44
Working temperature	0 ÷ 50 °C	0 ÷ 50 °C
Cable length [m]	1,2	1,2
Wire	Detachable	Permanent

## AM95 RF

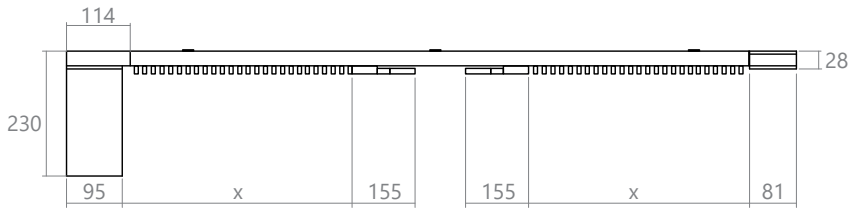
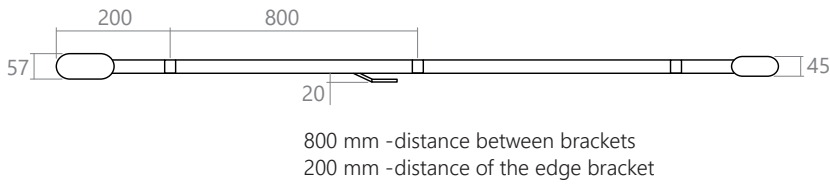
- Adjustable speed
- Automatic limit position adjustment
- Touch Motion
- Possibility to mount the motor upside down (UP)
- High sensitivity antenna (up to 100m)
- Manual control in case of power failure
- Soft START/STOP
- Editable limit positions
- Remote control and/or DCT control

## AM95 RF-5W

- Adjustable speed
- Automatic limit position adjustment
- Touch Motion
- Possibility to mount the motor upside down (UP)
- High sensitivity antenna (up to 100m)
- Manual control in case of power failure
- Soft START/STOP
- Editable limit positions
- Multiple connection variants



## SYSTEM DIMENSIONS [MM]



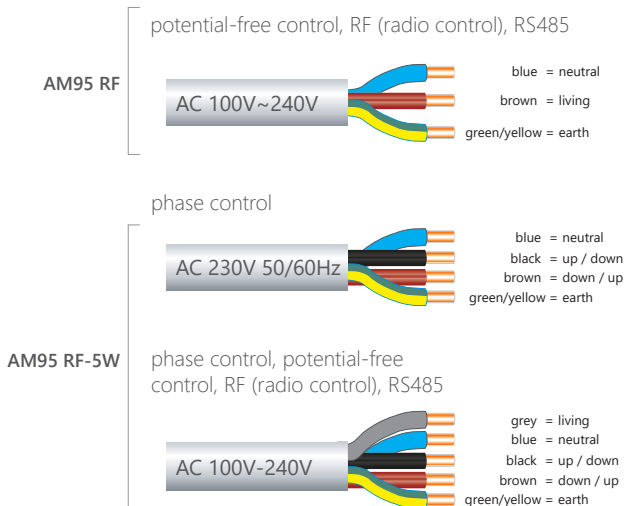
x - packet width in open position (per 1m of rail)

- 135 - standard
- 235 - fabric ripple 80%
- 265 - fabric ripple 100%

## BOUNDARY DIMENSIONS

maximum width	1200 cm	maximum load per 1m of rail	12,5 kg
maximum width (without rail connector)	700 cm	maximum load of a glider	1 kg
sliding speed	10 / 12,5 / 16 cm/s	maximum system loading	50 kg

## WIRE



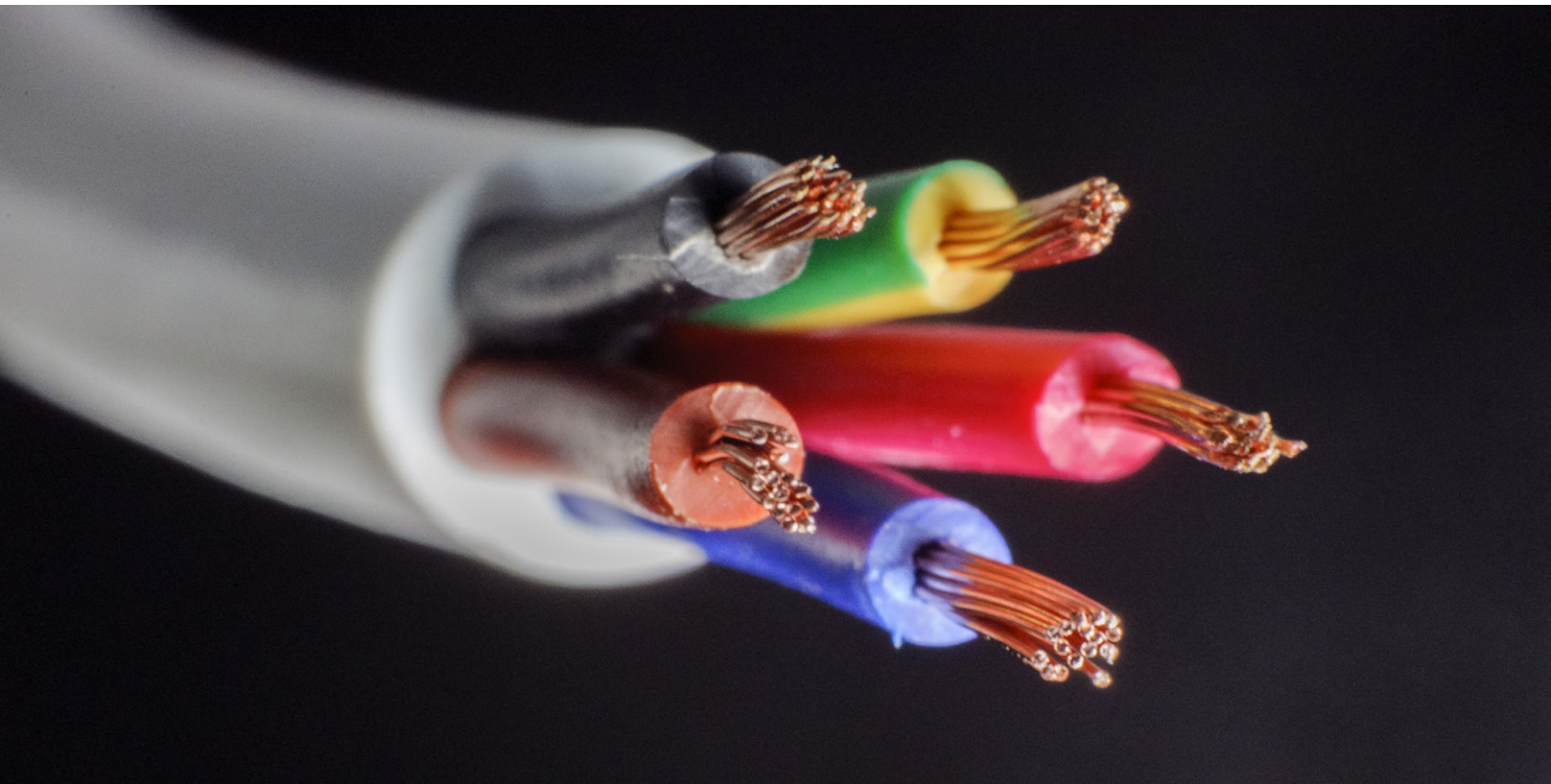
## MAXIMUM SYSTEM LOAD

	Rail type	Loading (fabric weight - kg)		
		up to 4 m	up to 8 m	up to 12 m
AM95 RF AM95 RF-5W	straight rail	50	45	40
	1 curve	40	35	30
	2 curves	30	25	20
	large curve	21	16	
AM95 RF Tandem AM95 RF-5W Tandem	straight rail	70		
	1 curve	50		
	2 curves	40		
	large curve	23		



# torro

## Connection diagrams



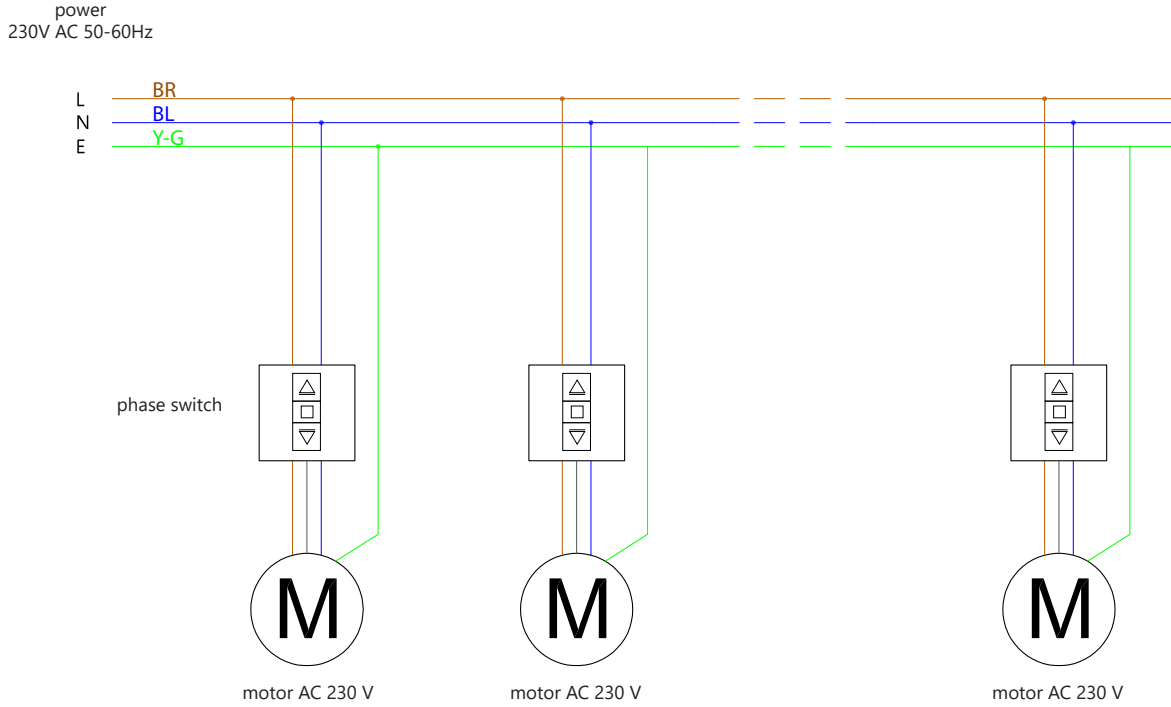
### **WARNING!**

Connections of electrical devices should be performed at power off by qualified personnel

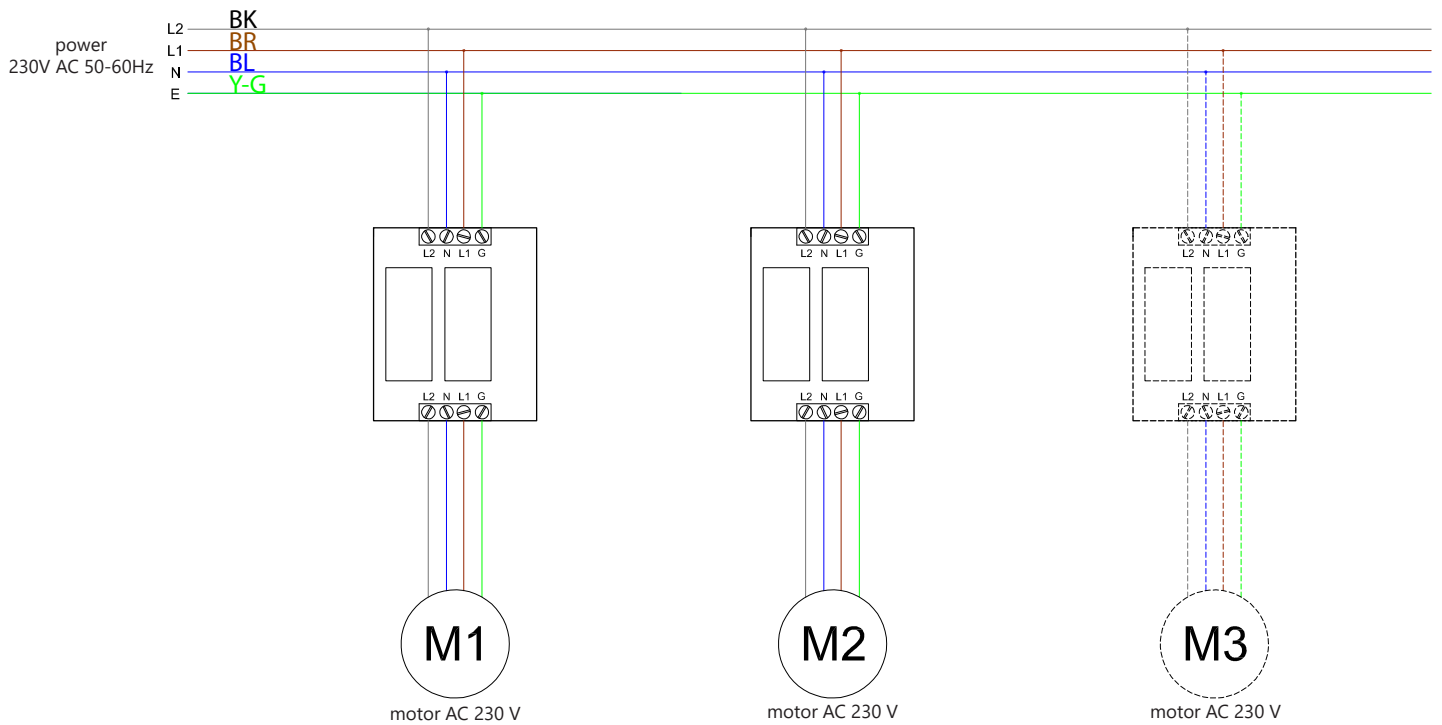
# AC MOTORS

## Individual AC motor control

COMPATIBLE MOTORS:  
 AM35 | AM35 Q | AM45 | AM45 Q | AM45 S | AM45 QP | AM45 M | AM68 LS | AM75 LS | AM75 RF-5W | AM95 RF-5W



## DX2-LSR LINE SWITCHING RELAY - SINGLE



### WIRING COLOUR DIAGRAMS::

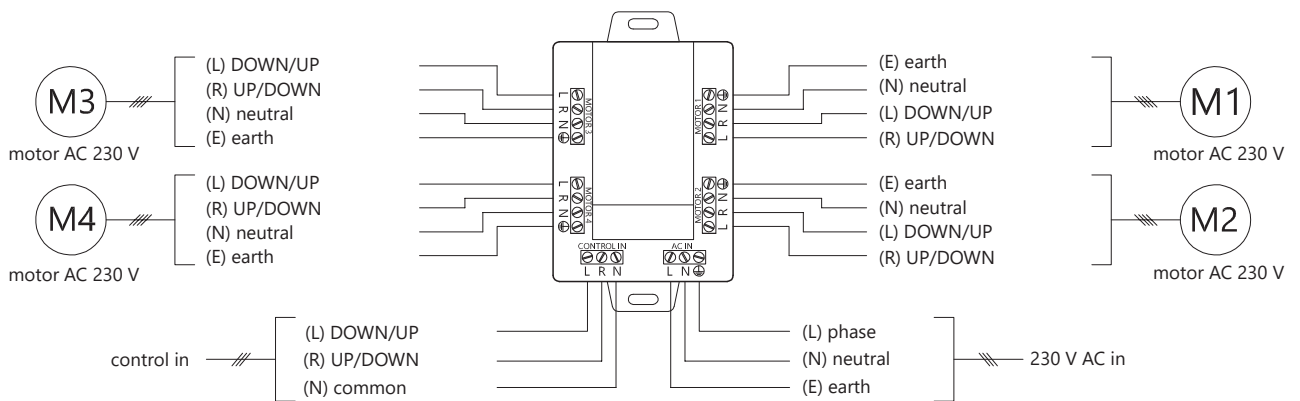
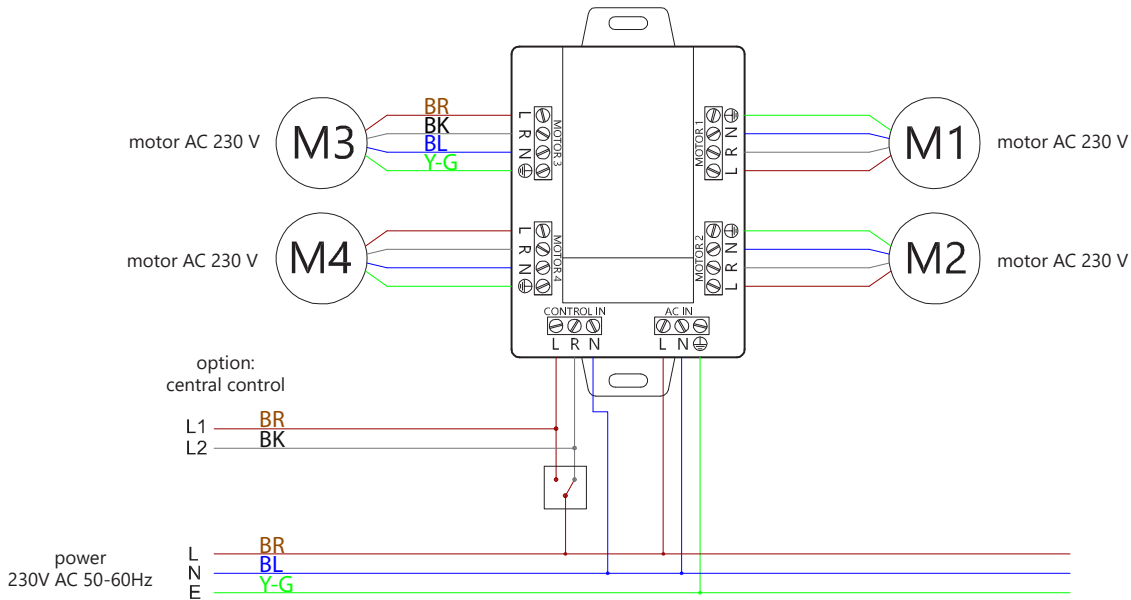
BK - BLACK, BR - BROWN, BL - BLUE, Y-G - YELLOW-GREEN, Y - YELLOW

# AC405-01

4-CHANNELS CONTROLLER

## COMPATIBLE MOTORS:

AM35 | AM35 Q | AM45 | AM45 Q | AM45 S | AM45 QP | AM45 M | AM68 LS | AM75 LS | AM75 RF-5W | AM95 RF-5W



CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

CONNECTION DIAGRAMS

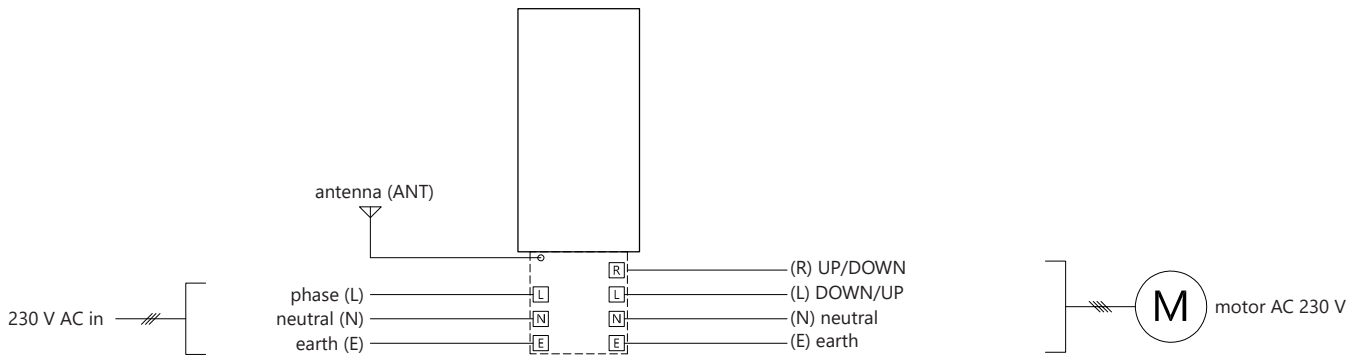
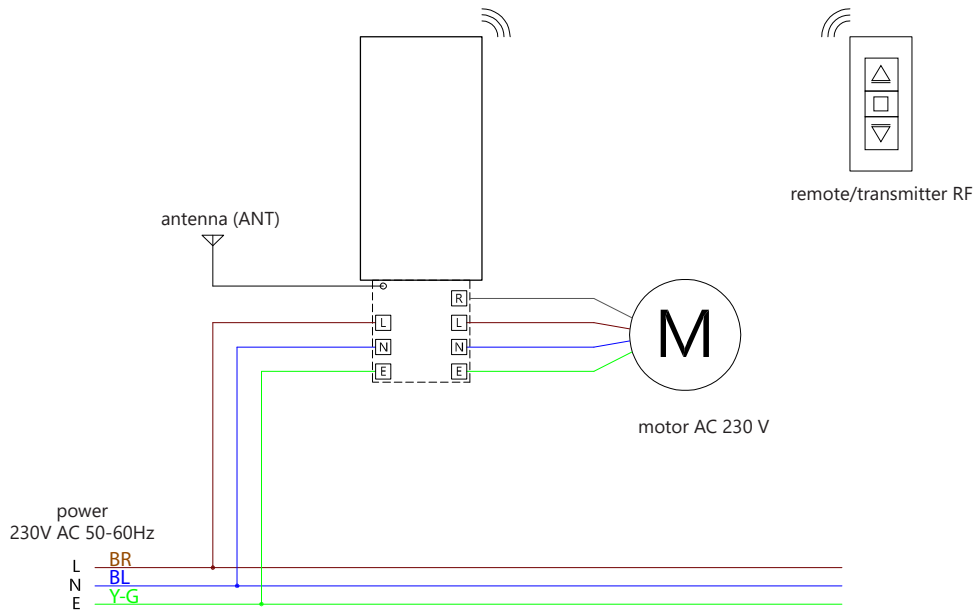
CONNECTIONS WITH FIBARO SYSTEMS

ADAPTATIONS



# AC226-01

RF 230V AC RECEIVER



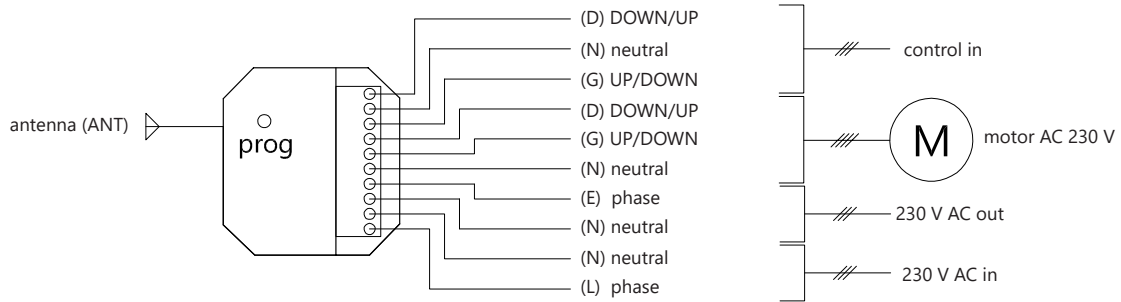
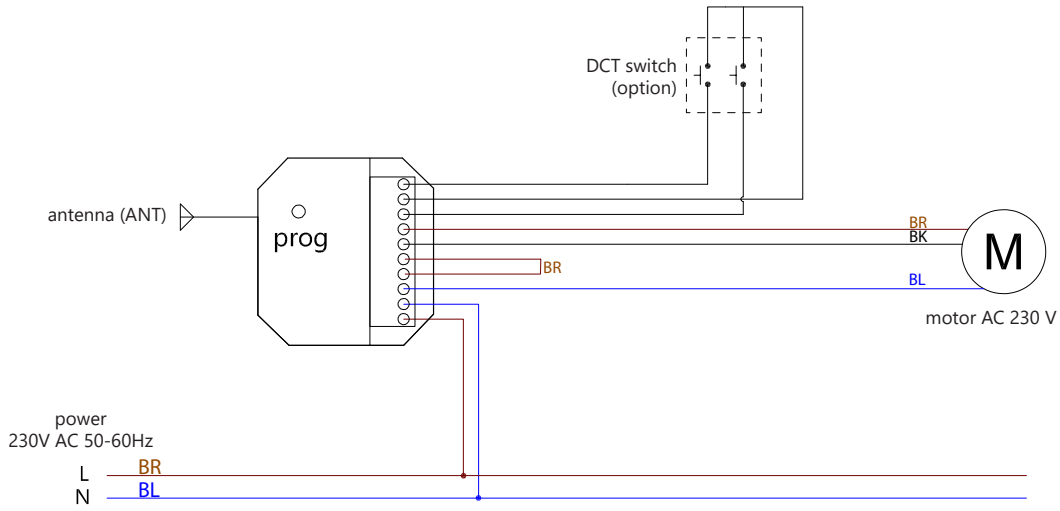
continious move (roller) and dot move (horizontal) mode available.

# AC212-03

RADIO RECEIVER 230V AC RF

## COMPATIBLE MOTORS:

AM35 | AM35 Q | AM45 | AM45 Q | AM45 S | AM45 QP | AM45 M | AM68 LS | AM75 LS | AM75 RF-5W | AM95 RF-5W



only continuous move (roller) available

CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

CONNECTION DIAGRAMS

CONNECTIONS WITH FIBARO SYSTEMS

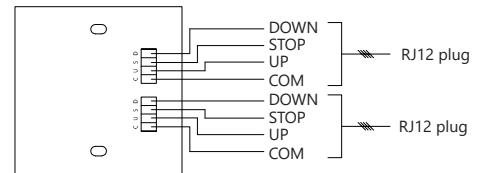
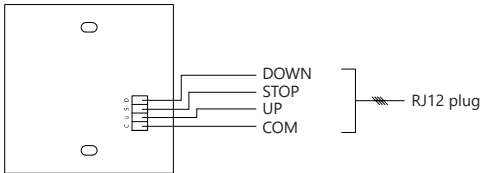
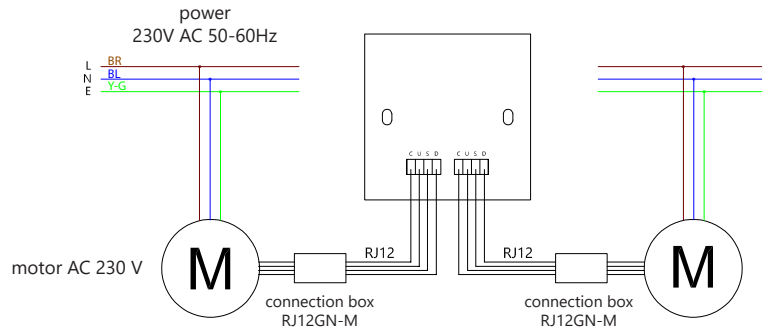
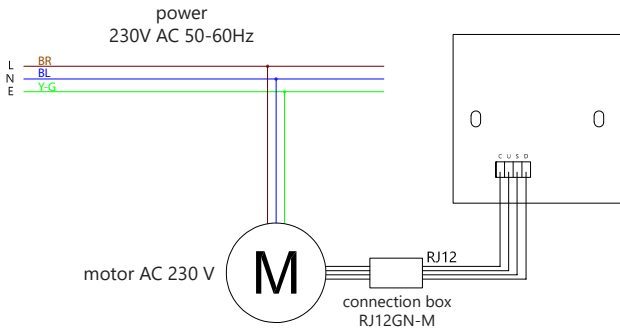
ADAPTATIONS

# AC125-02 | AC126-02

PULSING SWITCH

## COMPATIBLE MOTORS:

AM35 MEL RF | AM35 QMEL RF | AM68 RF | AM75 LS | AM75 RF | AM75 RF-5W | AM95 RF | AM95 RF-5W

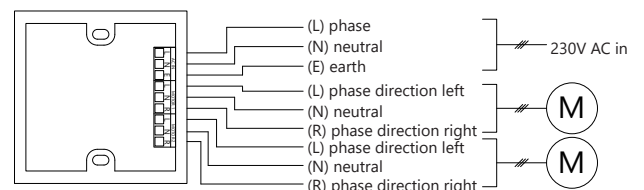
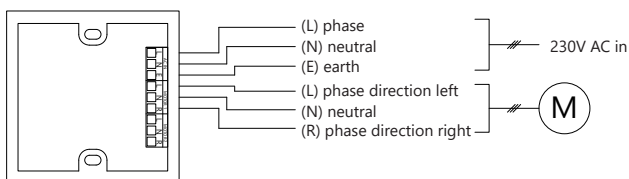
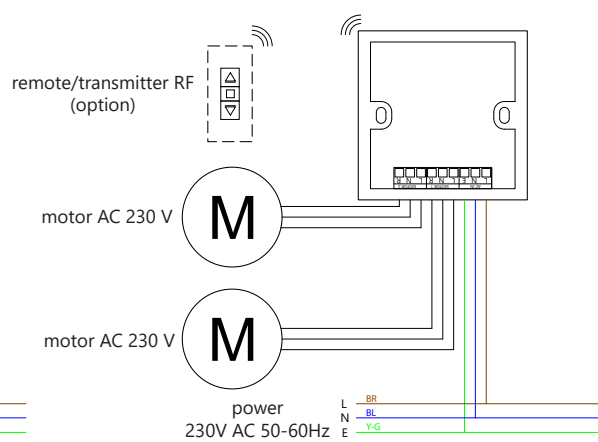
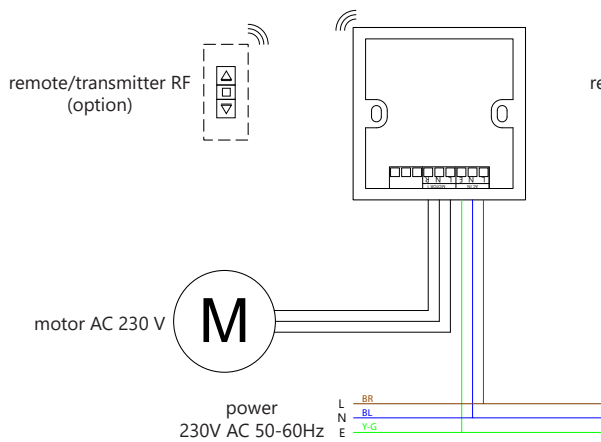


# AC227-01 | AC228-01

WALL SWITCH WITH BUILT-IN RADIO RECIVER

## COMPATIBLE MOTORS:

AM35 | AM35 Q | AM45 | AM45 Q | AM45 S | AM45 QP | AM45 M | AM68 LS | AM75 LS | AM75 RF-5W | AM95 RF-5W

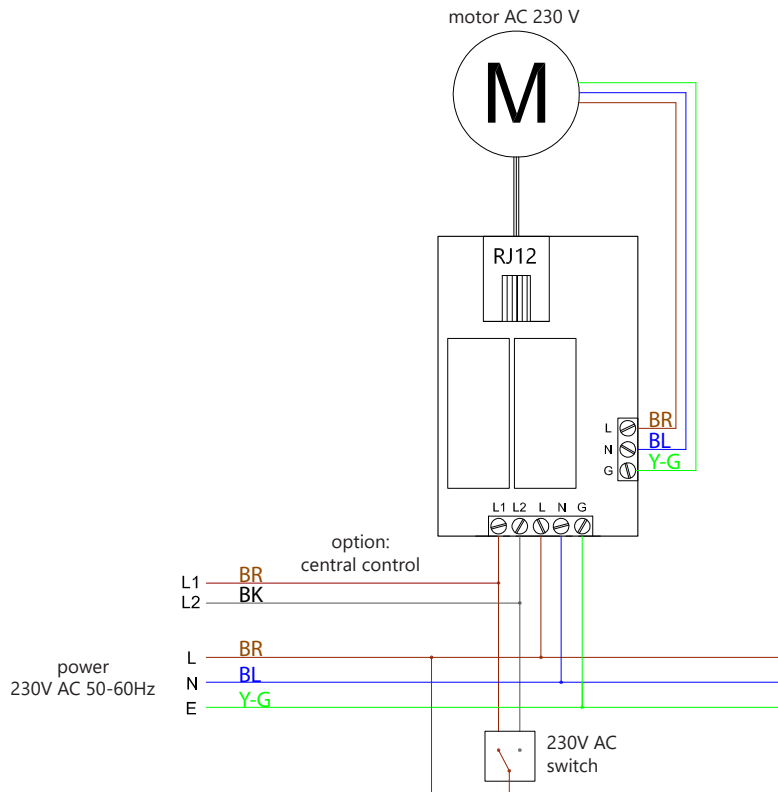


# DX1-3-T

230V > DCT CONVERTER

## COMPATIBLE MOTORS:

AM35 MEL RF | AM35 QMEL RF | AM68 RF | AM75 LS | AM75 RF | AM75 RF-5W | AM95 RF | AM95 RF-5W



CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

CONNECTION DIAGRAMS

CONNECTIONS WITH FIBARO SYSTEMS

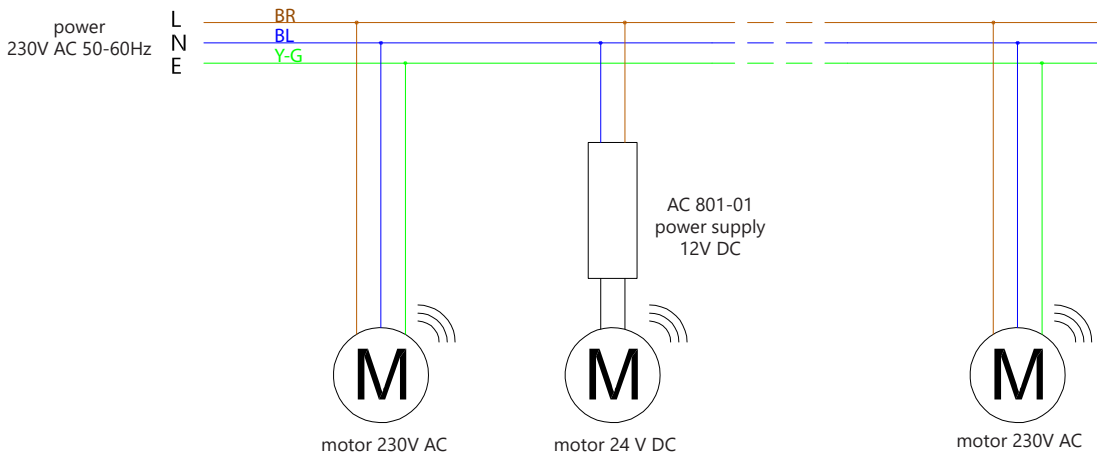
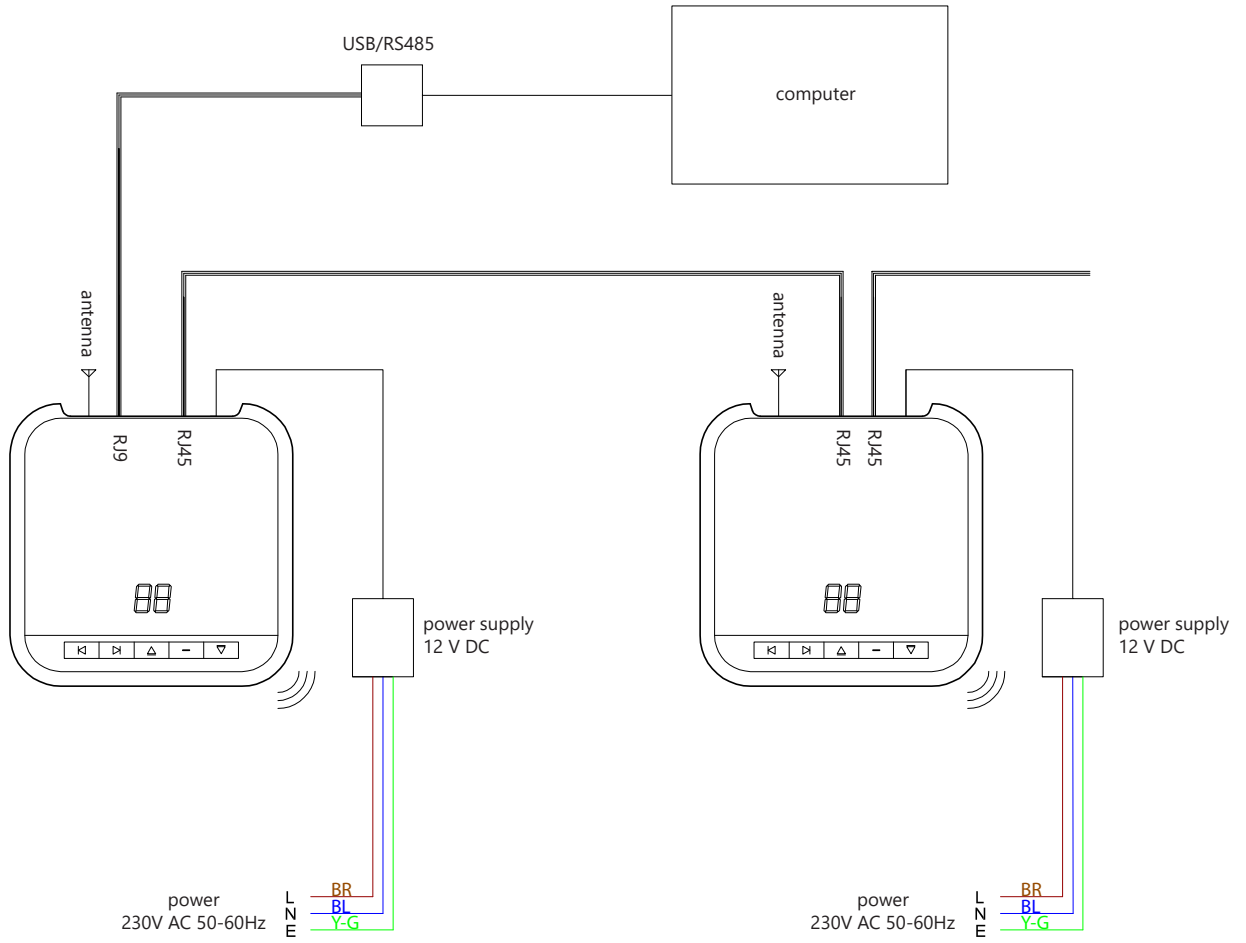
ADAPTATIONS

# AC407-01

16-CHANNELS RF CONTROLLER

## COMPATIBLE MOTORS:

AM24 RF | AM25 RF | AM35 E | AM35 MEL RF | AM45 ME | AM45 Q MEL RF | AM45 E | AM45 ER-E | AM68 RF | AM75 LS | AM75 RF | AM75 RF-5W | AM95 RF | AM95 RF-5W



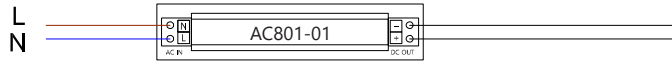
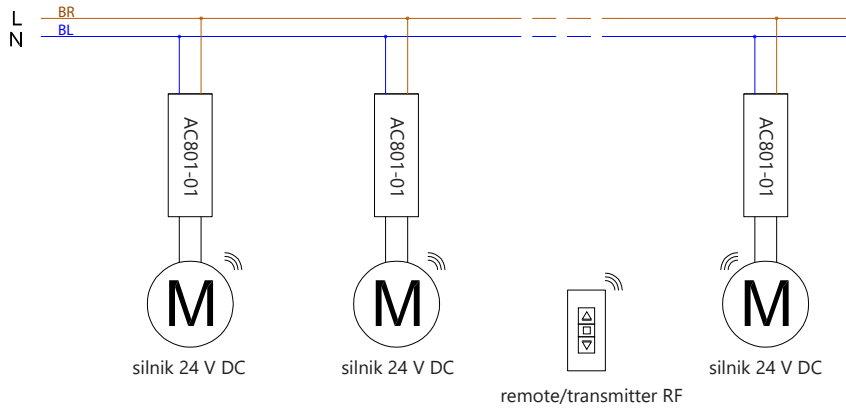
## AC801-01

DC POWER SUPPLY

**COMPATIBLE MOTORS:**

AM24 / AM25

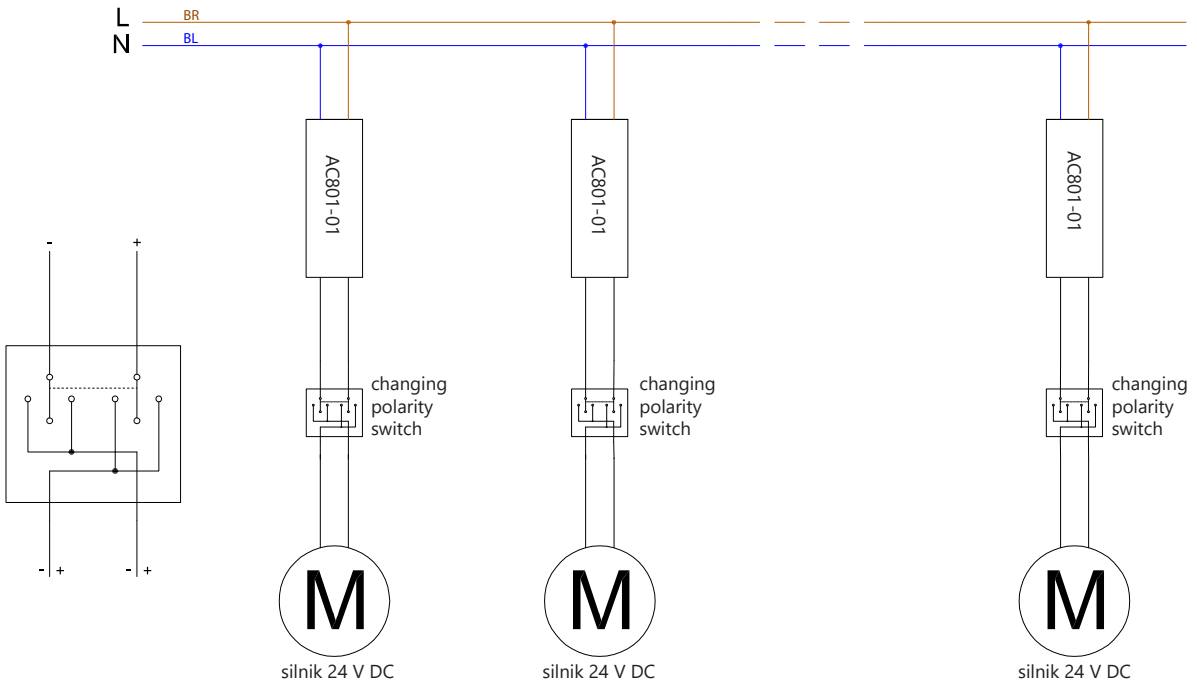
### RADIO CONTROL:



**COMPATIBLE MOTORS:**

AM24 / AM25

### CHANGING THE POLARITY:

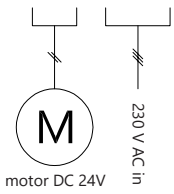
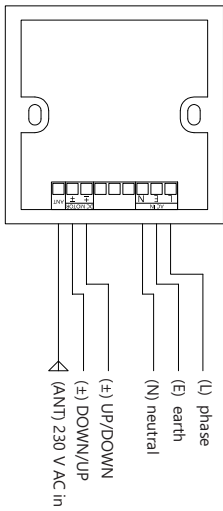


# AC227-03

WALL SWITCH WITH BUILT-IN RADIO RECIVER

**COMPATIBLE MOTORS:**

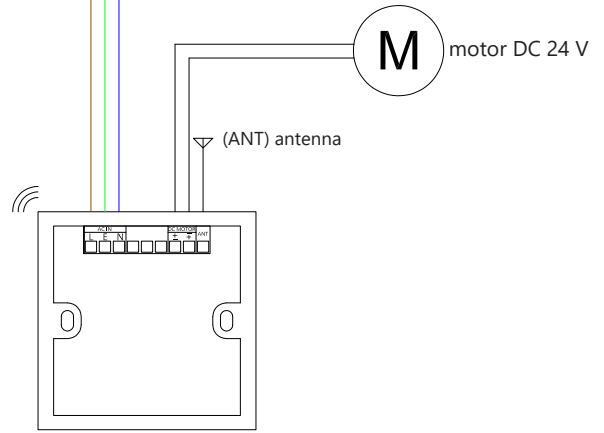
AM24 / AM25



power  
230V AC 50-60Hz



remote/transmitter RF

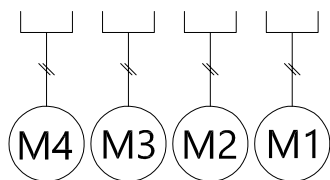
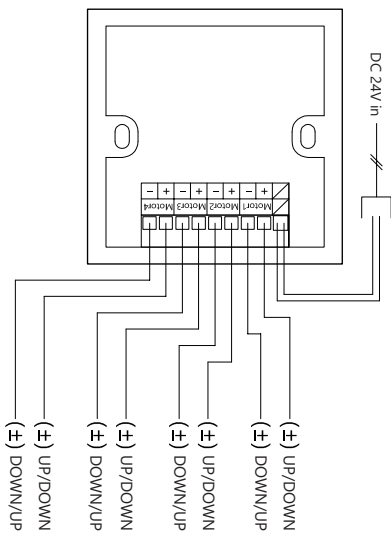


# AC228-03

WALL SWITCH WITH BUILT-IN RADIO RECIVER

**COMPATIBLE MOTORS:**

AM24 / AM25

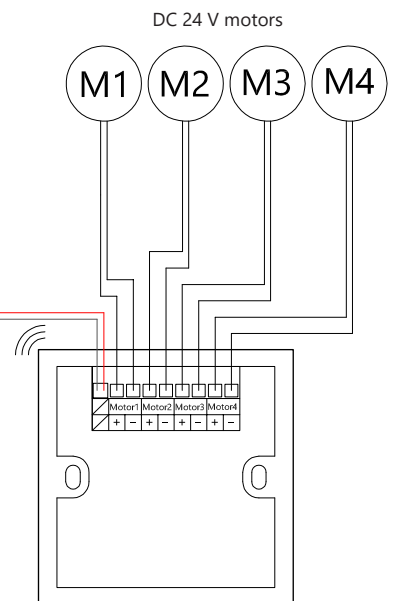


DC 24 V motors

power  
230V AC 50-60Hz



remote/transmitter RF

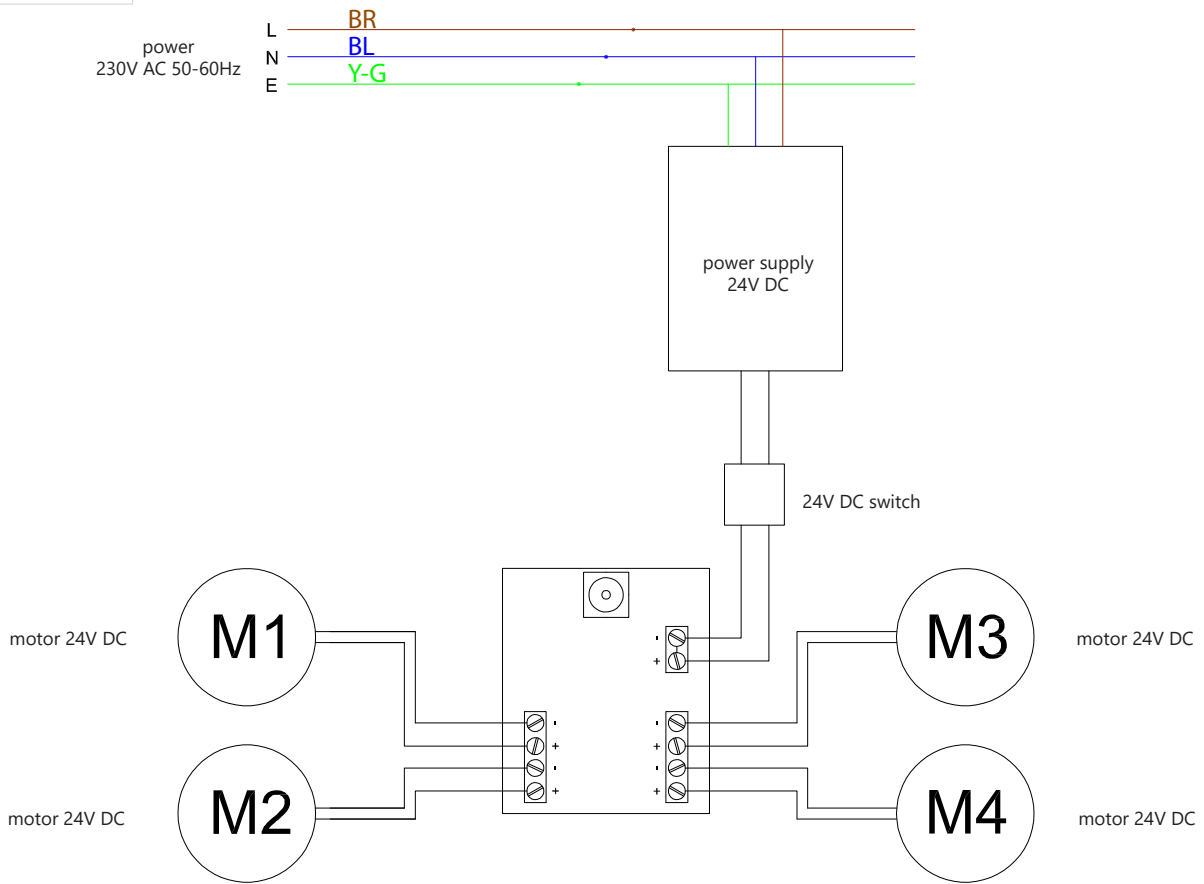


# DX3-24VDC-PS

POWER SPLITTER 24V DC

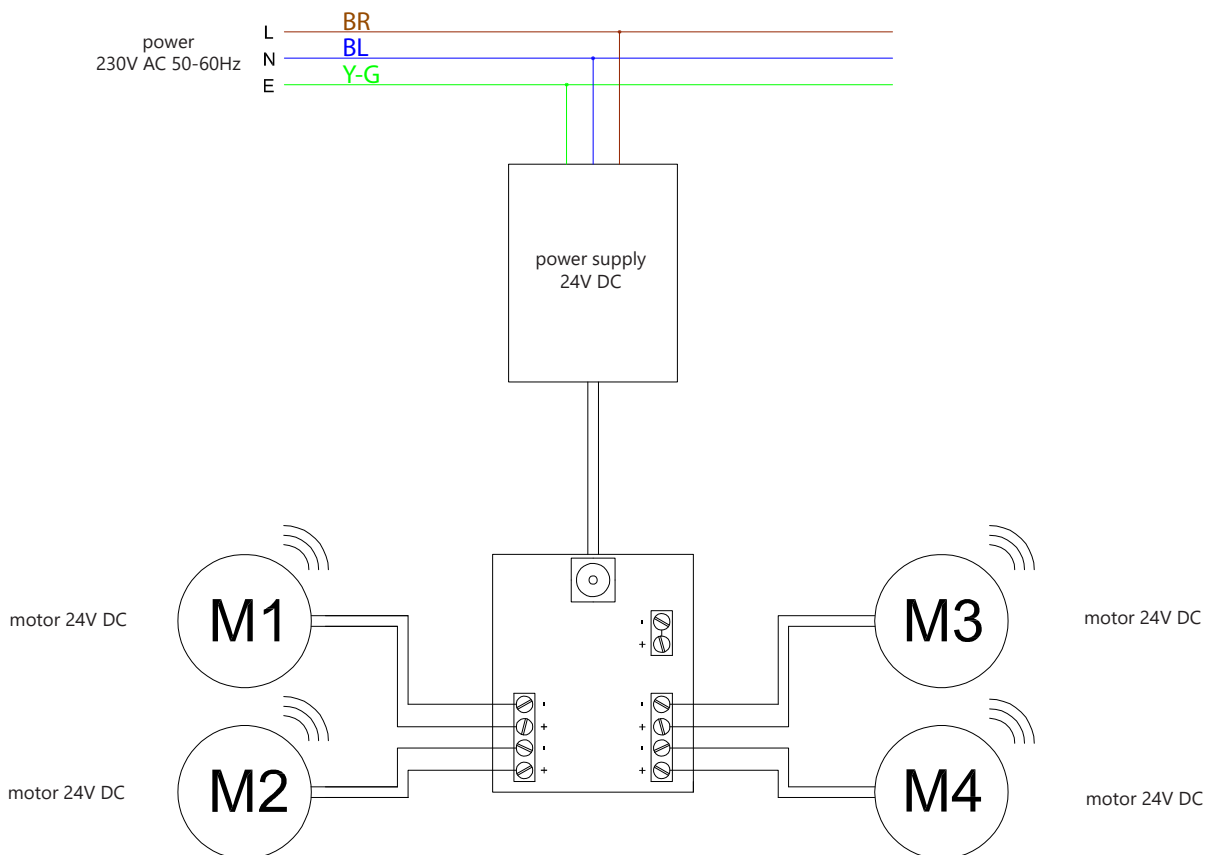
**COMPATIBLE MOTORS:**

AM24 / AM25



**COMPATIBLE MOTORS:**

AM24 RF / AM25 RF



CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

CONNECTION DIAGRAMS

CONNECTIONS WITH FIBARO SYSTEMS

ADAPTATIONS

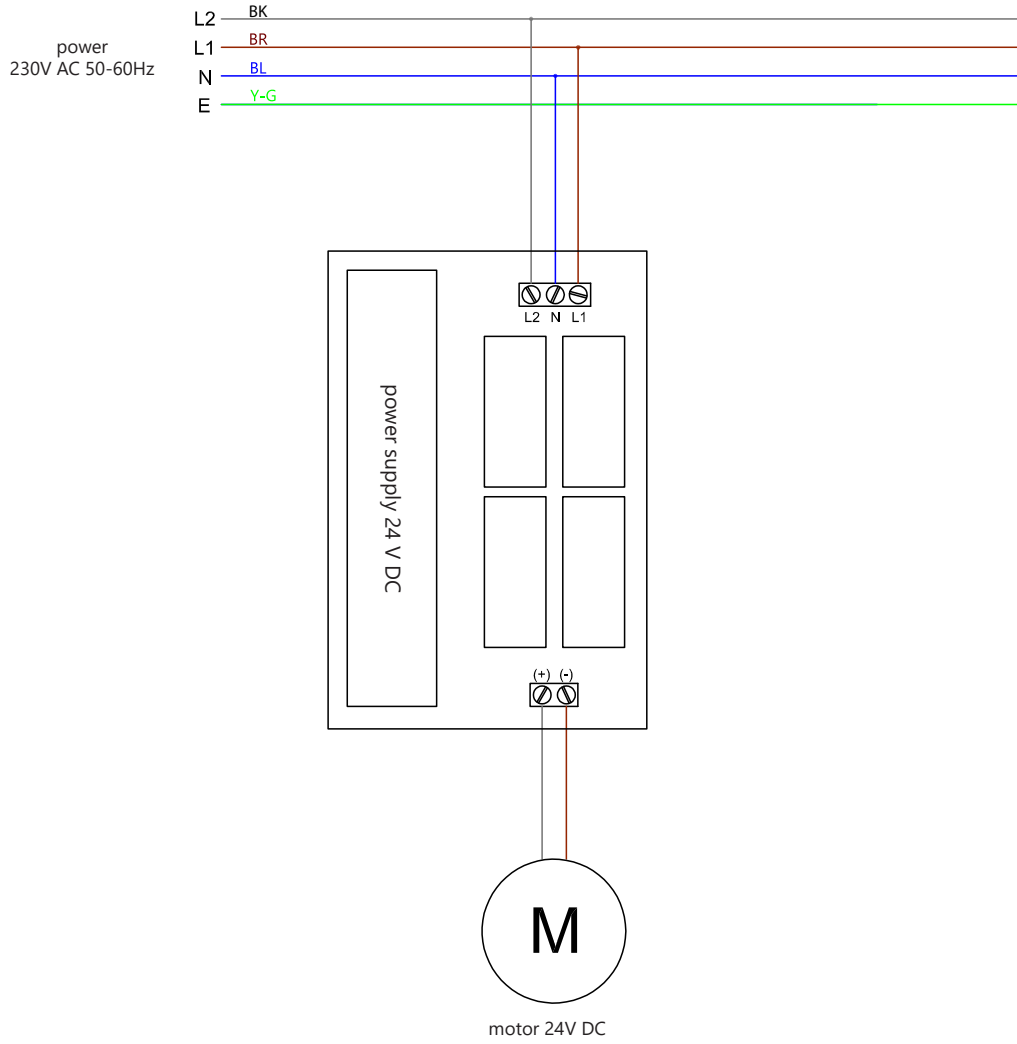


# DX4

CONVERTER 230V AC/24V DC

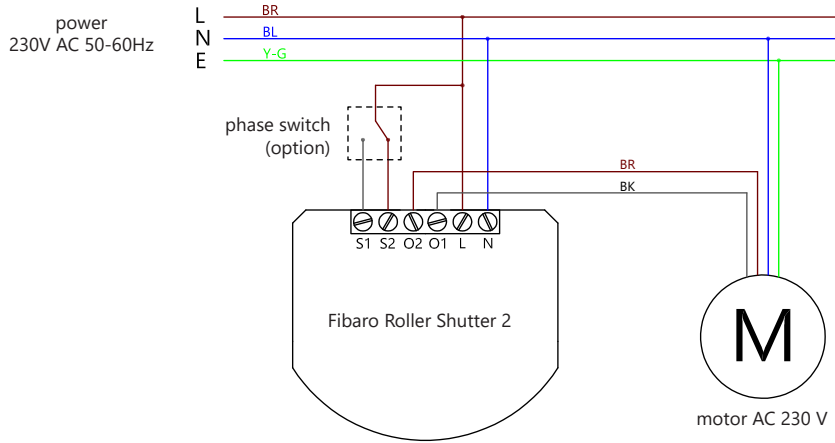
**COMPATIBLE MOTORS:**

AM24 / AM25

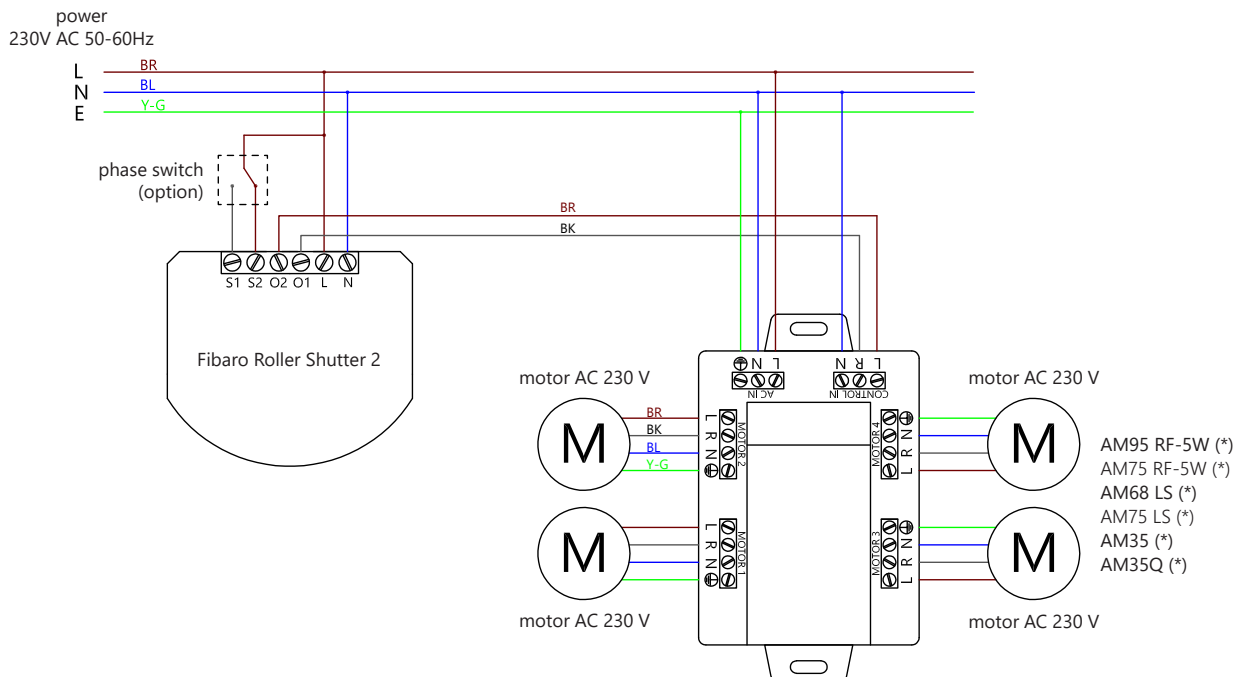


# CONNECTIONS WITH FIBARO SYSTEMS

## Fibaro Roller Shutter 2 - general connection

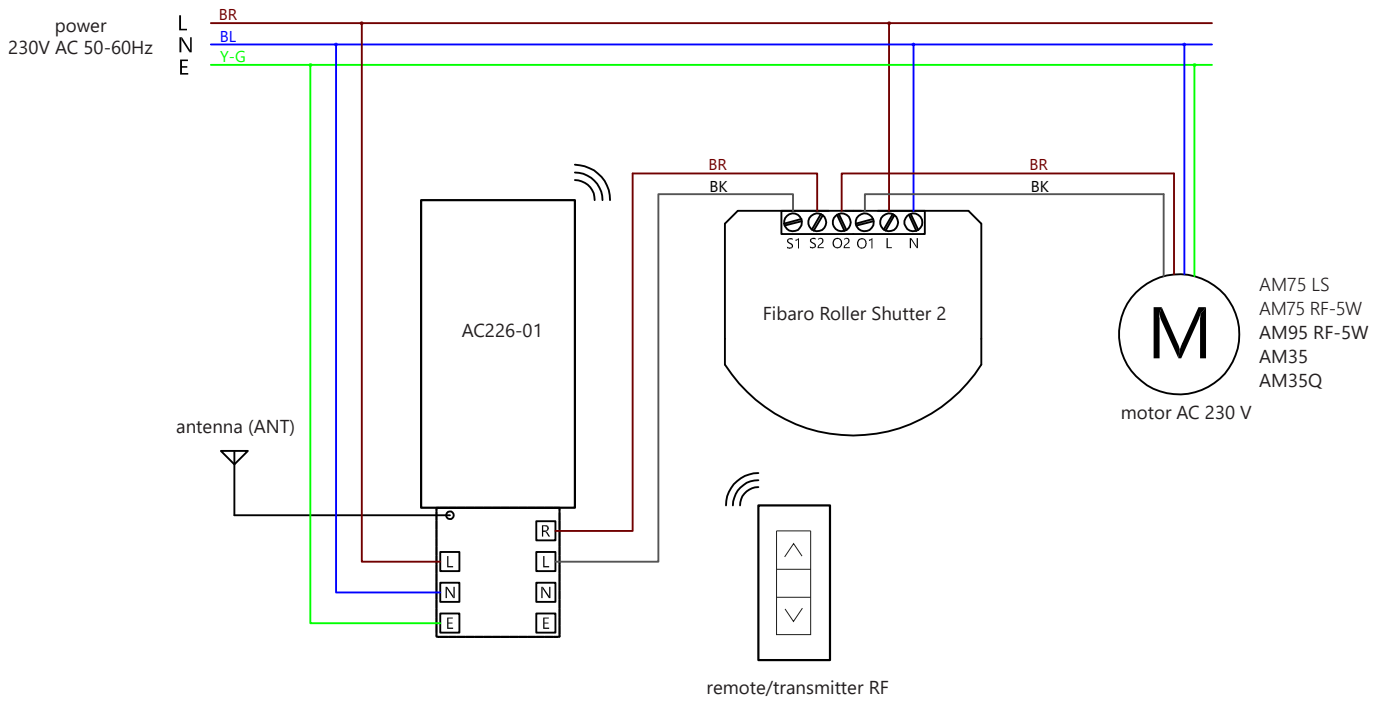


## Fibaro - AC405 con



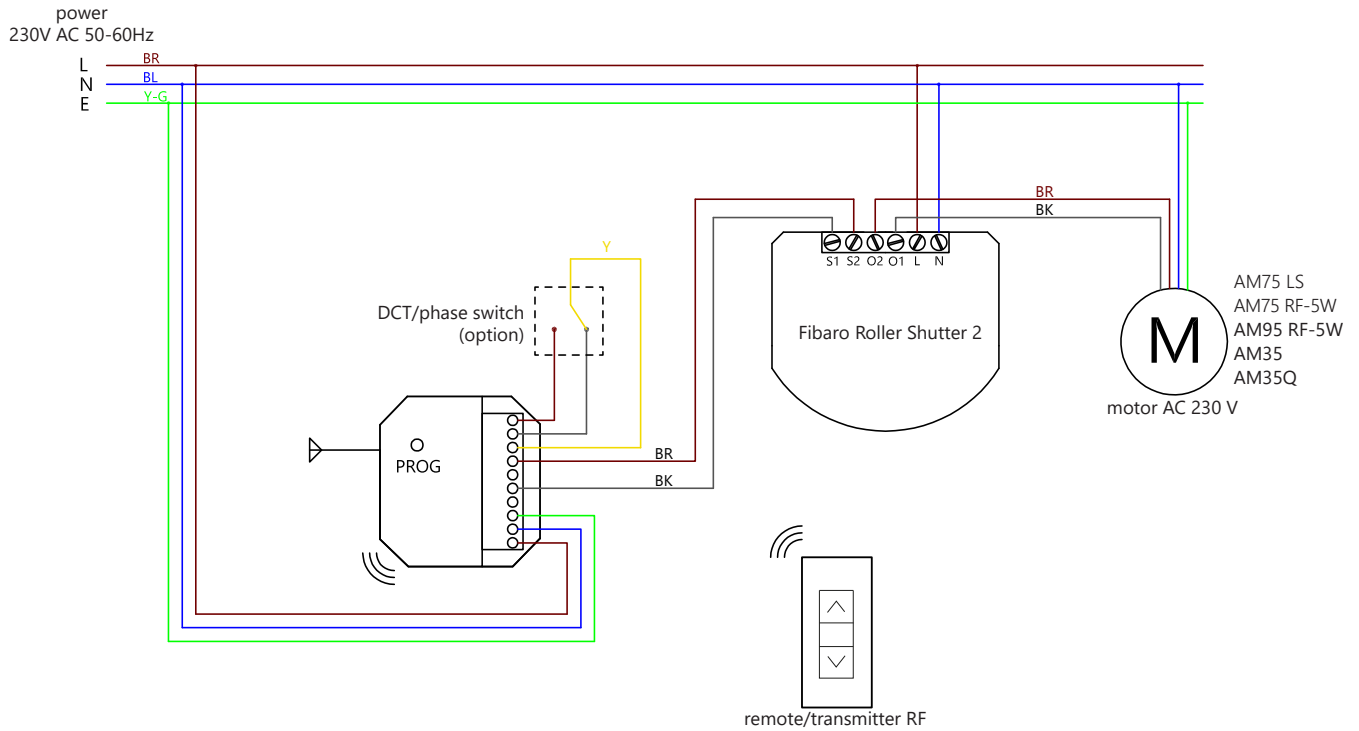
(\*) it is necessary to set sustainable valid working time RS2.  
The module does not recognize the limit positions.

## Simultaneous control: Fibaro and Torro remote



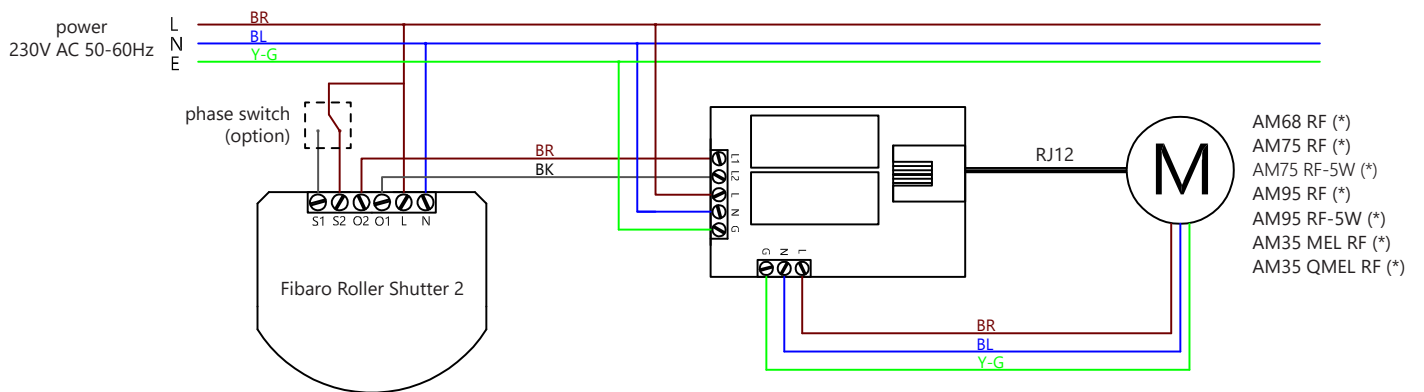
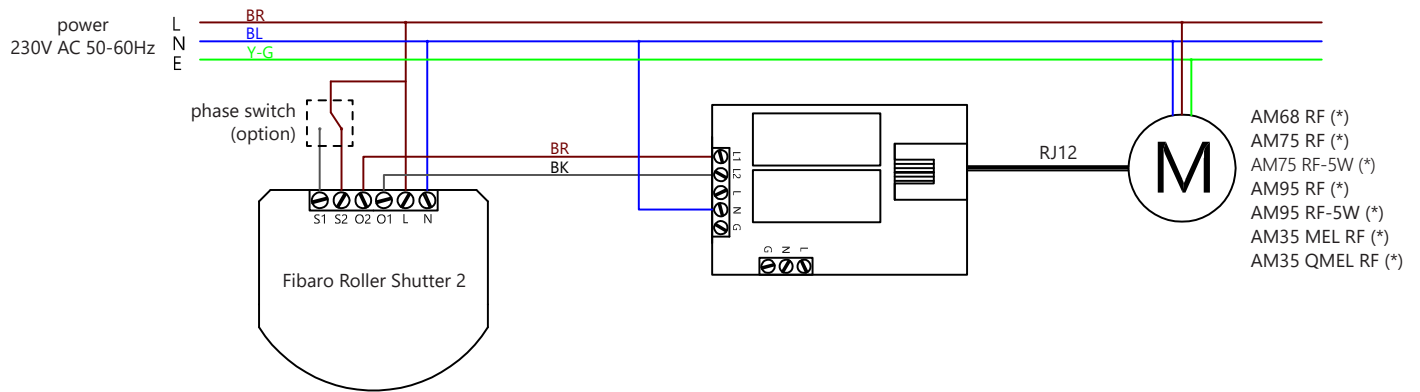
continuous move (roller) and dot move (horizontal) mode available.

## Simultaneous control: Fibaro, remote control and Torro switch



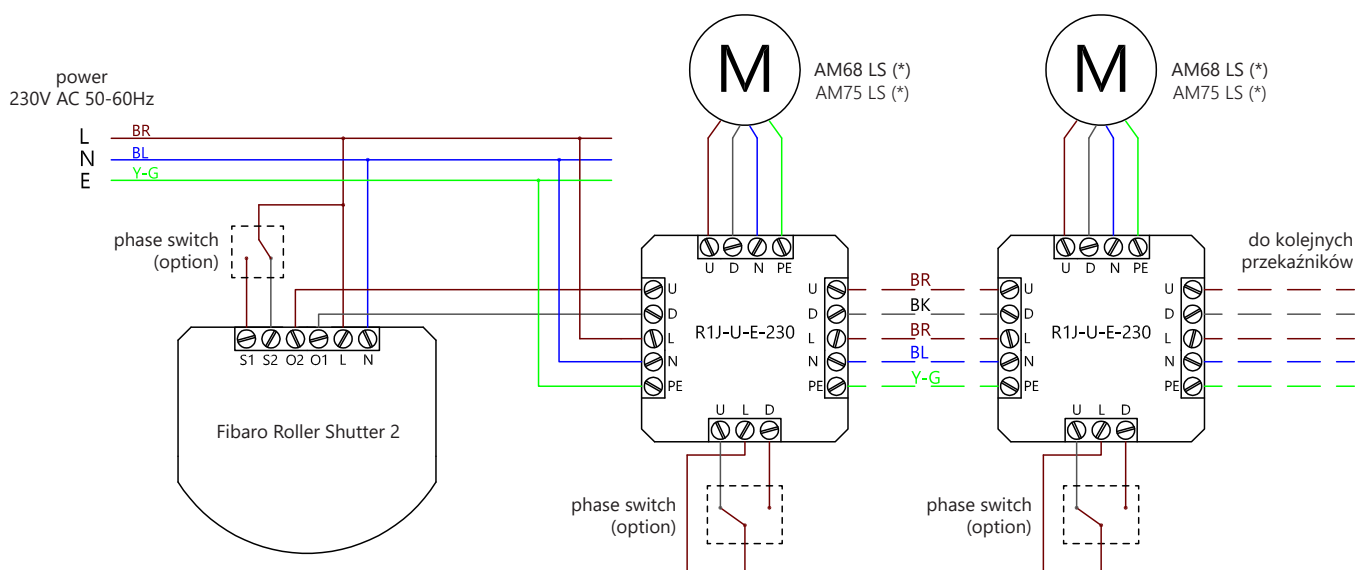
With remote control - only continuous move (roller) mode available.

## Podłączenie Fibaro - DX1-3-T / DX1-3-S



(\*) it is necessary to set sustainable valid working time RS2.  
The module does not recognize the limit positions.

## Podłączenie Fibaro - AM68LS



(\*) it is necessary to set sustainable valid working time RS2.  
The module does not recognize the limit positions.

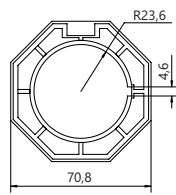
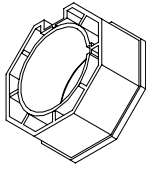
# Tube adaptations

AM25	Ø28	S00458		S00472	
	Ø40	S01170		S01171	
AM35	Ø40 x 1,0	S00127		S00143	
	Ø40 x 1,5	S00128		S00144	
	SW40	S00141		S00139	
	Ø50 x 1,5	S00153		S00155	
	Ø60	Crown not required		S00197	
AM45	Ø78	S00309		S00311	

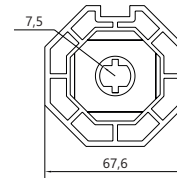
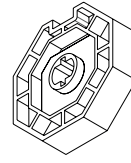
AM45

Ø70

1.0405.0007



1.0405.0039



CONTROLS

TUBULAR MOTORS

CURTAIN MOTORS

CONNECTION  
DIAGRAMS

CONNECTIONS WITH  
FIBARO SYSTEMS

ADAPTATIONS