

RC-MB10

Motorized Roller Shade

A tube-based roller shade system with separate 24 V DC and 230 V AC motor options. Select the tube, fabric weight and motor torque together.

MOTOR OPTIONS

CM-50-E-R - 24 V DC

CM-10-QC - 230 V AC, 50 Hz



Product illustration

Tube selection

Tube	Maximum width	Maximum height	Rec. torque	Operation
38 mm	2300 mm	3200 mm	Not applicable	Manual only
42 mm	2500 mm	3600 mm	6 Nm	Manual / motorized
50 mm	2600 mm	4200 mm	6 Nm	Manual / motorized
65 mm	3000 mm	5500 mm	8 Nm	Motorized

Selection-table condition: recommended fabric weight 300 g/m² for every row. Confirm dimensions, fabric and motor selection for the application. The 38 mm row is manual only.

Mounting and light gaps

Item	Documented requirement
M bracket	Installation width >=100 mm; height >=100 mm
L bracket	Installation width >=140 mm; height >=140 mm
Mounting	Both M and L brackets support ceiling or wall/side mounting
Light gap	Motor side 20 mm; idle-end side 12 mm

Source: 电动卷帘.docx, table 1, paragraphs 46-50 and image 1. Rec. torque means recommended motor torque. Confirm the final dimensions, fabric and mounting configuration.

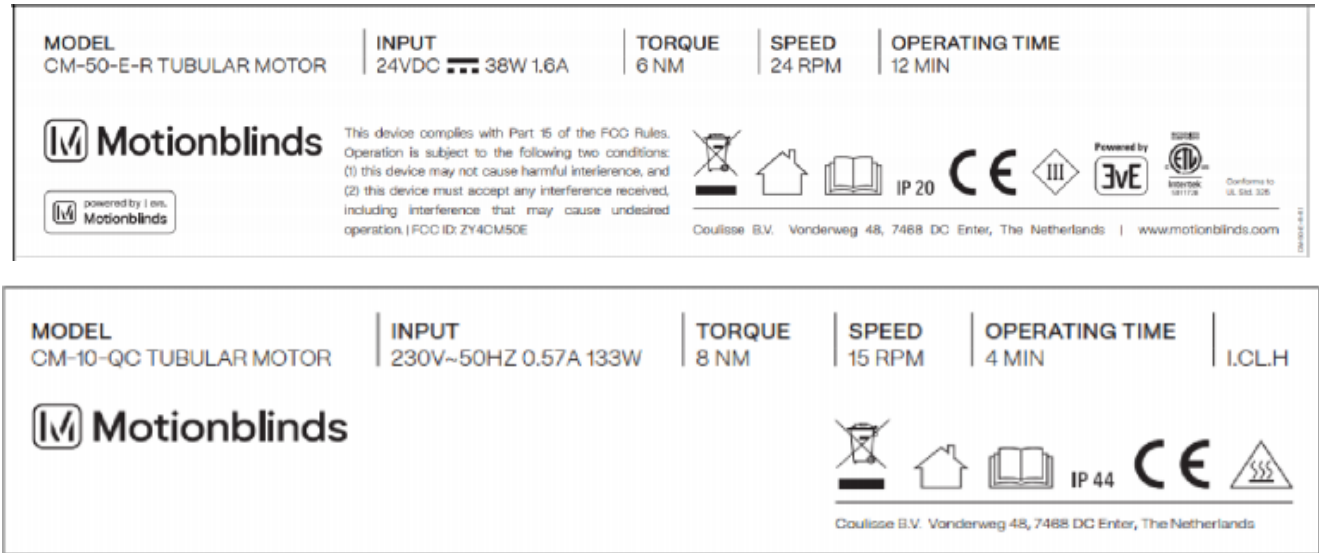
Motor options and model-specific ratings

Parameter	CM-50-E-R	CM-10-QC
Supply	24 V DC	230 V AC, 50 Hz
Power / current	38 W / 1.6 A	133 W / 0.57 A
Torque	Maximum 6 Nm	8 Nm
Speed	16 / 20 / 24 rpm 20 rpm factory default	15 rpm
Motor diameter	35 mm	35 mm
Continuous operation	12 minutes	4 minutes
Protection rating	IP20	IP44
Operating temperature	5-60 °C	Not stated
Control interfaces	Built-in receiver; dry contact; Matter and Thread; 433 MHz label	Built-in receiver; dedicated gateway for Apple Home

Selected DC configuration: CM-50-E-R at 24 V DC. Confirm the power supply and motor model when specifying the system.

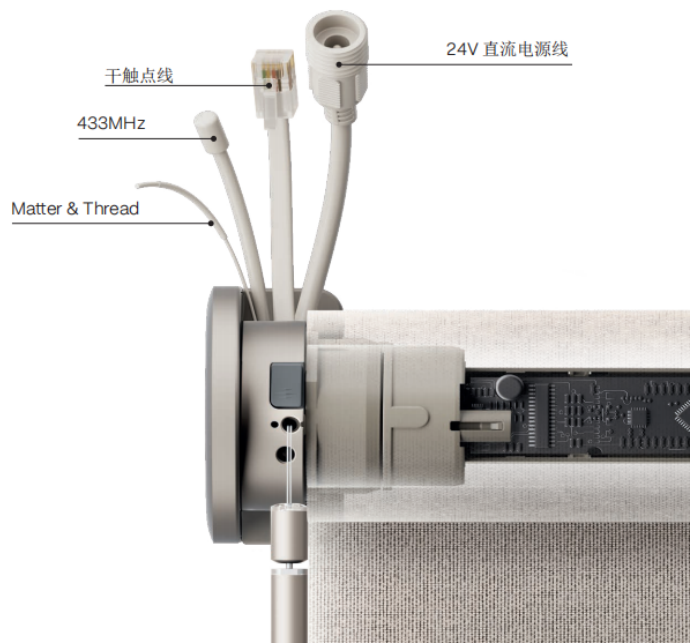
CM-50-E-R offers 16 / 20 / 24 rpm with a 20 rpm factory default; the nameplate shows the 24 rpm setting. Control interfaces and IP ratings apply only to the named motor.

Original Motionblinds nameplates



Source: 电动卷帘.docx, paragraphs 77-78 and 94-95; images 12-16. Original Motionblinds nameplates. Motor protection ratings do not rate the complete installation; certification documentation is separate.

CM-50-E-R interface overview



English legend for original labels

Dry-contact cable

24 V DC power cable

433 MHz

Matter and Thread

Interfaces shown are for CM-50-E-R. Confirm the wiring, local radio requirements and smart-home integration for the selected application.

Dry-contact operation for CM-50-E-R

Mode	Function
1 - Hold to run (default)	Runs while the button/relay contact is held; stops on release.
2 - Pulse	A short press operates the shade; another press during travel stops it.
3 - Pulse with Stop	Pulse operation with a separate Stop input.
4 - Single button	One button cycles through open, stop and close.

Source pin labels: 1 Close; 2 Open; 3 Stop / change mode; 4 Common. The source describes holding Common to Stop for 10 seconds to change mode, with movement count identifying the mode. Use the manufacturer installation instructions for electrical work; do not reuse this pinout on another motor.

Installation and integration selection

Optional single side channels or double channels for adjacent windows can be considered to reduce side light leakage. Confirm the channel and mounting configuration before fabrication.

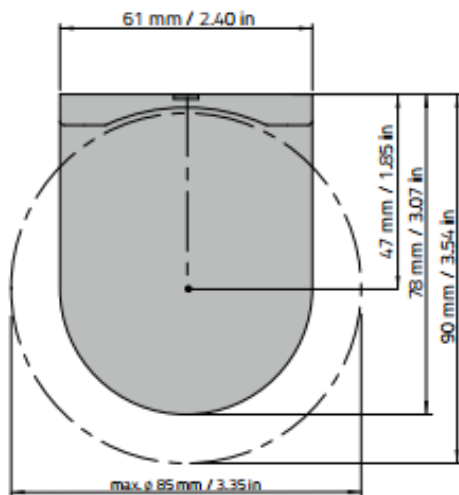
CM-10-QC requires a dedicated gateway for Apple Home. Confirm the gateway model, controls and integration requirements for the application.

Source: 电动卷帘.docx, paragraphs 58, 78 and 95; interface image 14 and dry-contact diagram image 15. Original technical labels are translated above. Verify the final model, wiring and configuration.

Bracket and tube dimensions

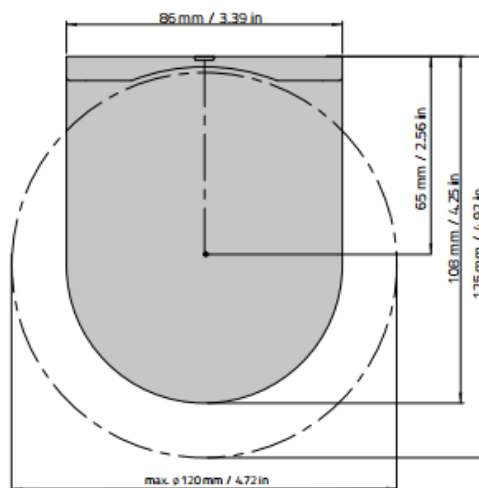
Original dimensioned drawings for bracket and tube selection. Use the printed metric dimensions; mounting clearances are listed on page 1.

M bracket



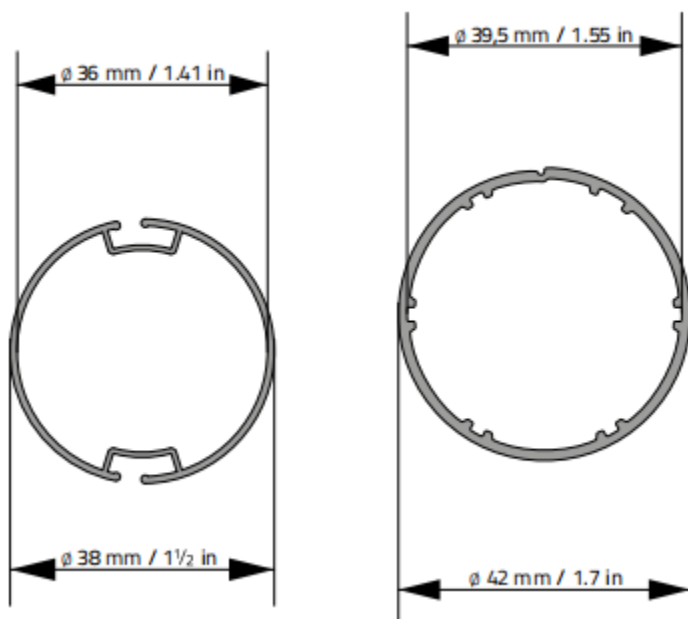
Maximum roll diameter: Ø85 mm

L bracket



Maximum roll diameter: Ø120 mm

38 mm and 42 mm tube cross-sections



English drawing legend

Ø - diameter
mm - millimeters
in - inches

M / L - bracket sizes

38 mm tube
Outer Ø38 mm; inner Ø36 mm.
Manual configuration.

42 mm tube
Outer Ø42 mm; inner Ø39.5 mm.
Manual or motorized configuration.

Source: 电动卷帘.docx, images 3-5 and table 1. All reproduced drawings print their units. No dimensions have been measured from image scale or inferred from drawings without units.