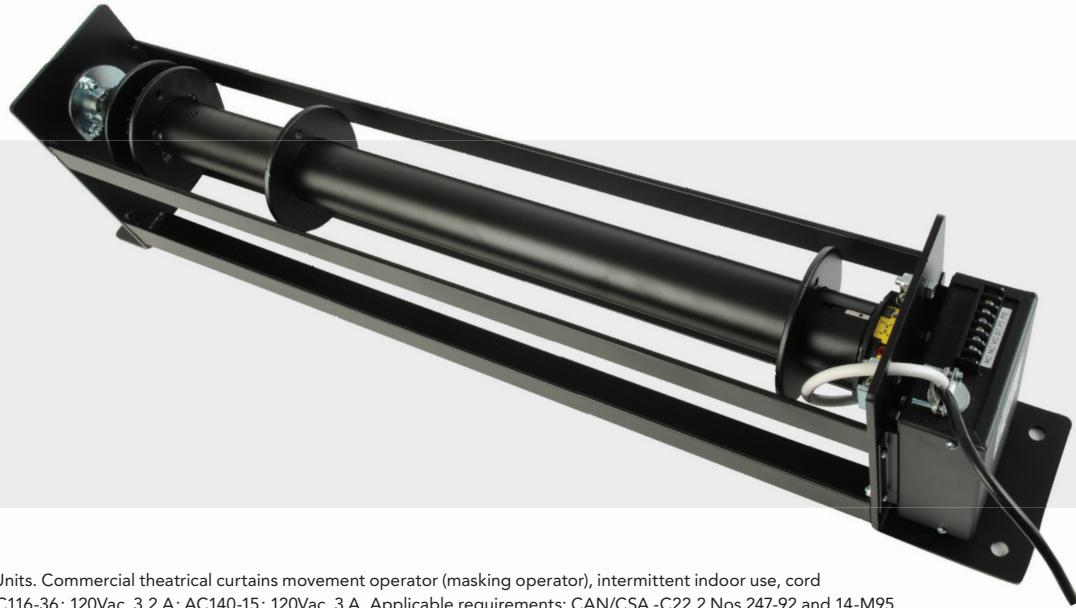# MASKING MOTORS
AC SERIES

INSTRUCTIONS

AC116-36 / AC140-15

Width: 34.25 " / 88.26 cm

Length: 5 " / 12.7 cm

Height: 8.5 " / 21.6 cm

Weight: 34 lb / 15 kg

Class 671101 and 671181 Door Operating Units. Commercial theatrical curtains movement operator (masking operator), intermittent indoor use, cord connected, single phase, 60Hz, models: AC116-36: 120Vac, 3.2 A; AC140-15: 120Vac, 3 A. Applicable requirements: CAN/CSA -C22.2 Nos 247-92 and 14-M95, UL Std No. 325, ANSI / UL and CSA standards for the use in the U.S and Canada.

AC116-36		AC140-15	
POWER 100-125 VAC 60 Hz 3,2 A max.	**PRESETS / SPEEDS** 2 preset positions 1 speed available	**POWER** 100-125 VAC 60 Hz 3 A MAX.	**PRESETS/SPEEDS** 2 preset positions 1 speed available
MOTOR 0.35 HP (260 watts) AC tubular motor	**SYSTEM LIMITS** 33 output shaft rotations **Sprocket:** 28 feet of travel max. **Cable drum:** 17 feet of travel max.	**MOTOR** 0.30 HP (230 watts) AC tubular motor	**SYSTEM LIMITS** 33 output shaft rotations **Sprocket:** 28 feet of travel max. **Cable drum:** 17 feet of travel max.
TORQUE **16N.m (141 lb-in)** **at 36 RPM** **Sprocket:** 38 kg (85 lb) at 0.16 m/sec. (31 FPM) **Cable drum:** 63 kg (140 lb) at 0.1 m/sec. (19 FPM)	**CONTROL VOLTAGE** 12-20 volts DC, 100 mA	**TORQUE** **40N.m (352 lb-in)** **at 15 RPM** **Sprocket:** 90 kg (200 lb) at 0.07 m/sec. (13 FPM) **Cable drum:** 145 kg (320 lb) at 0.04 m/sec. (8 FPM)	**CONTROL VOLTAGE** 12-20 volts DC, 100 mA
AXIAL LOAD **Sprocket:** 38 kg (85 lb) max. **Cable drum:** 63 kg (140 lb) max.		**AXIAL LOAD** **Sprocket:** 90 kg (200 lb) max. **Cable drum:** 145 kg (320 lb) max.	

STRONG | MDI

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sales@strongmdi.com
www.strongmdi.com

⚠ READ ALL INSTRUCTIONS BEFORE USE

▸ **Strong | MDI** motors are designed and intended for the intermittent movement of theatrical curtains

▸ DO NOT exceed load limits as units are not designed to stop loads over the stated maximum torque

▸ These units should only be installed, operated and serviced by qualified professional technicians

▸ **Strong | MDI** motors are NOT to be used for the lifting, supporting or transporting of people or over areas where people are present

▸ The unit will stop and wait for the next command when overloaded

▸ This is an automatic machine, motor may be remotely started at any time without warning

▸ Do not connect multiple units to the same switch

▸ An AC outlet with the proper connectors and protection against overload must be supplied for the proper connection of the power cord (see instructions)

▸ Use chain #35 with the sprocket (**Strong | MDI** can supply this chain in lengths of ten feet)

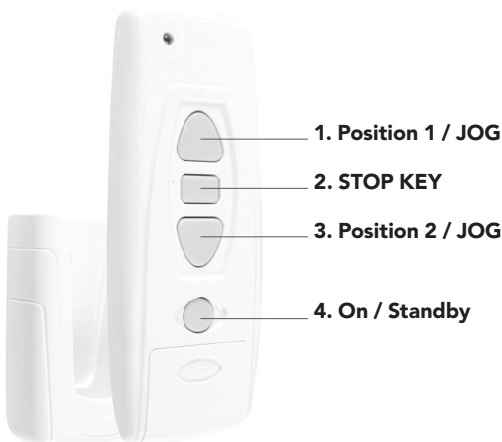▸ To prevent fire or shock hazard, do not expose this product to rain or any type of moisture

DISCONNECT POWER BEFORE MECHANICAL OR ELECTRICAL SERVICING.
This automatic machine may be remotely started at any time without warning.

ELECTRICAL CONNECTIONS

A power cord is supplied with each unit; the connection to the AC power should be done by qualified personnel only as it may result in injuries and/or damage to the unit.

1. **Position 1 / JOG**

2. **STOP KEY**

3. **Position 2 / JOG**

4. **On / Standby**

WIRELESS REMOTE

Strong | MDI has provided you with a handheld wireless remote for the AC masking motor. These motors can be triggered by the wireless remote and/or by connecting to your automation system. When using an automation system, we recommend using the wireless remote for set-up or to jog to a temporary position if required.
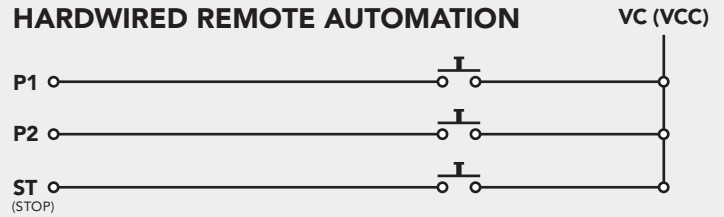
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HARDWIRED CONTROL CONNECTIONS

NC: No connection
NC: No connection
VC: VCC (common)
ST: Stop
P1: Stop #1 / Jog / Close
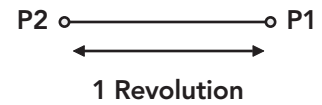**P2:** Stop #2 / Jog / Open

HARDWIRED REMOTE AUTOMATION

VC (VCC)

P1
P2
ST
(STOP)

NOTE: Double pole pushbuttons are not required. Momentary pushbutton action is required.

SETTING THE LIMITS

Please note that factory default limits are set for one revolution of the cable drum.

P2 ———————o P1

1 Revolution

1. For this operation you need a 5/32" allen key (supplied with the masking motors); an electric screwdriver is strongly recommended.

2. Cable or chain must be installed on the cable drum or sprocket before setting the limits. You cannot use both a chain and a cable on the same masking motor.
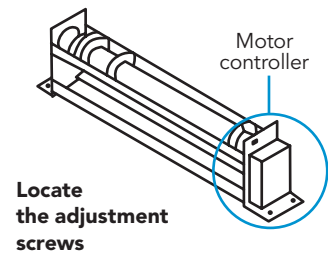
3. For easier set-up, install the chain or cable in the masking **OPEN** position.

4. Caution: when you set the **CLOSE** position the tube will turn **CLOCKWISE** (if you stand in front of the motor controller).
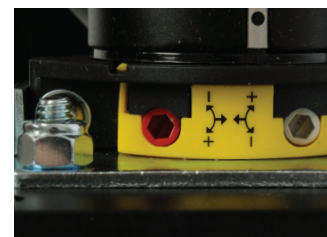

Motor controller

Locate the adjustment screws

CLOSE LIMIT

To set the masking to the close position you have to press the △ on the remote keypad then turn the **BLACK or COLORED** screw (motor will turn slowly as you screw to increase the limit) to the desired position. The motor will not move when decreasing the limit, you must use the jog keys to see the modification.

↻ Turning the **BLACK or COLORED** screw **CLOCKWISE** will increase the **CLOSE** limit.

↺ Turning the **BLACK or COLORED** screw **COUNTER-CLOCKWISE** will decrease the **CLOSE** limit.

OPEN LIMIT

To set the masking to the open position you have to press the ▽ on the remote keypad then turn the **WHITE** screw (motor will turn slowly as you screw to increase the limit) to the desired position. The motor will not move when decreasing the limit, you must use the jog keys to see the modification.

↻ Turning the **WHITE** screw **CLOCKWISE** will increase the **OPEN** limit.

↺ Turning the **WHITE** screw **COUNTER-CLOCKWISE** will decrease the **OPEN** limit.

+ ↑ **Setting the CLOSE limit**

+ ↓ **Setting the OPEN limit**