K SERIES MASKING MOTORS

INSTRUCTIONS

K1/4-S* K1/2-GD*

Width: 14"/35.6 cm Width: 19"/48.3 cm
Length: 14"/35.6 cm Length: 22"/55.9 cm
Height: 7"/17.8 cm Height: 8"/20.3 cm

'See specification sheet for all K SERIES models: K1/4-S, K1/4-RD, K1/4-GD, K1/2-S, K1/2-GD





Class 671101 and 671181 Door Operating Units. Commercial theatrical curtain movement apparatus, intermittent indoor use, 120 - 220 V single phase, 60 Hz 2,5 A max. 1/4 HP, Models K1/4-GD, K1/4-SD. 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.

K1/4-S, K1/4-GD, K1/4-RD

POWER

100-125 VAC 60Hz 200-250 VAC 50/60Hz 2,5 A max.

MOTOR

1/4 HP permanent magnet DC gear motor

► TORQUE

K 1/4-GD: 12,3 N.M. torque at 62 RPM

23 kg (50 lb) at 0,08-0,32 m/sec. (22-110 FPM)

160 kg (350 lb) estimated draw weight

9,1 m (30 ft) capacity

K1/4-S, K1/4-RD: 12,3 N.M. torque at 62 RPM

41 kg (90 lb) at 0,04-0,2 m/sec. with #35B21 sprocket

109 lb-in. torque at 10-40 FPM with #35B21 sprocket

▶ AXIAL LOAD

40,8 kg (90 lb) max.

PRECISION

± 5° shaft rotation at rated load

▶ PRESETS / SPEEDS

10 preset position 4 speeds available

> SYSTEM LIMITS

180 output shaft rotations

▶ DRIVE

Microprocessor controlled regenerative

SCR drive with dynamic brake

▶ CONTROL VOLTAGE

12-20 volts DC, 100 mA

100-125 VAC 60Hz 200-250 VAC 50/60Hz 6,5 A max.

▶ MOTOR

POWER

½ HP permanent magnet DC gear motor

▶ TORQUE

K1/2-GD: 29,5 N.M torque at 35 RPM

90 kg (200 lb) at 0,15 m/sec. (30 FPM)

340 kg (750 lb) estimated draw weight

9,1 m (30 ft) capacity

K1/2-S: 29,5 N.M. torque at 35 RPM

135 kg (300 lb) at 0,10 m/sec. with #35B21 sprocket

257,2 lb-in. torque at 19,5 FPM with the #35B21 sprocket

AXIAL LOAD

K1/2-GD, K1/2-S

236 kg (520 lb) max. (at 1" from seal)

PRECISION

± 5° shaft rotation at rated load

PRESETS / SPEEDS

10 preset position 4 speeds available

SYSTEM LIMITS

160 output shaft rotations

DRIVE

Microprocessor controlled regenerative

SCR drive with dynamic brake

CONTROL VOLTAGE

12-20 volts DC, 100 mA



⚠ 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 lifting, supporting or transporting people or for use 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 K1/4-S & K1/2-S (Strong | MDI can supply this chain in lengths of ten feet)
- As a safety measure, this device should be installed with limit switches.
- 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.

REMOTE CONTROL CONNECTIONS

NC: No connection GD: - / - Led

P1: Stop #1 **AS:** Alt. stop (for limit switch)

P2: Stop #2 **VC:** VCC (common)

P3: Stop #3

P4: Stop #4

SP: Stop / program

LD: Led +

J⇐: Jog left

J⇒: Jog right

Control cable shield should be hooked up to the GD on one end of the cable.





For your safety, these units will not operate until a minimum of two stops are programmed.

In operating mode,

← or ⇒

(jog) travel is limited by the two furthest stops.

PROGRAMMING

REPEAT THESE THREE STEPS FOR EACH STOP:

 Simultaneously press S/P and numbered key (1-4). Release when led flashes.

The combination of keys to obtain 10 positions is: 1, 2, 3, 4, 1-2, 1-3, 1-4, 2-3, 2-4, 3-4.

- 2. Jog to required position.
- 3. Select speed. (1 slow, 4 fast)

RESET (ERASE MEMORY)

Simultaneously press S/P, \Leftarrow and \Rightarrow . Release when led goes off.



ELECTRICAL CONNECTIONS

A 6' 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.

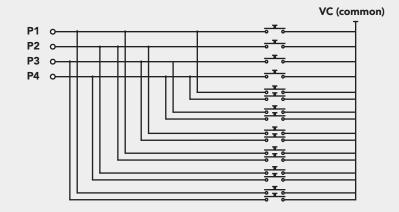
Use a CSA approved connector to connect the unit (not supplied)



REMOTE CONTROL WIRING

Follow the schematic to program up to 10 different stop positions with the keypad.

Note: The first 4 stops don't need a double pole pushbutton. Momentary pushbutton action is required.





FUSE REPLACEMENT

MOTOR FUSE

- ightharpoonup The motor fuse is located
- beside the power fuses
- in its own holder.
- ▶ Use a 7 Amps 250 V
- AC SLOBLO fuse for K1/2.
- Use a 2.5 Amps 250 V
- AC SLOBLO fuse for K1/4.
- Use a flat screwdriver to access fuse.



FUSE REPLACEMENT

POWER FUSES

- The power fuses are located on the fuse drawer accessible by a slot, as indicated by the arrow.
- Use 10 AMPS 250 V AC fuses for K1/2.
- Use 5 AMPS 250 V AC fuses for K1/4.
- Use a flat screwdriver to remove the fuse drawer.

VOLTAGE SELECTION Align triangles to select proper voltage



