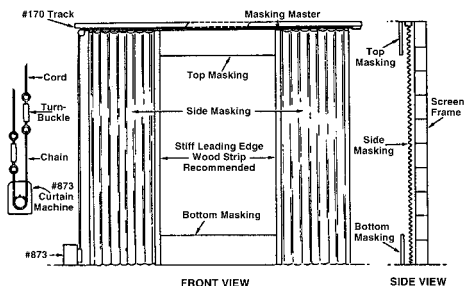


TOM THUMB® Models 873, 873-MCS, 1003 and 1003-MCS



Close-up of RCS



Close-up of RCS-2 (MCS models only)

Typical Masking Arrangement Using Model 873



Model 873-MCS

NOTE: Guard not shown. Required for ETL compliance.

Models 873, 873-MCS, 1003 and 1003-MCS were specifically designed as compact masking for small motion picture screens and home theaters. These mechanisms are equipped with a sprocket drive

to prevent cable slippage and can be installed virtually in any location, since they occupy little space. These mechanisms include magnetic brakes for positive stopping and are quiet in operation. Models 873-MCS and 1003-MCS include a low voltage magnetic control system for controlling from more than one location and to ease connection to automation systems.

OUTSTANDING FEATURES:

DRIVING SPROCKET

Used to provide precise stopping and to eliminate cable slippage. Sprockets are designed for 25 pitch roller chain (Model RC-1) which is obtainable as an option.

LOW VOLTAGE CONTROL SYSTEM

On Models 873-MCS and 1003-MCS, 24 Volt DC control circuits.

ROTARY LIMIT SWITCHES

Provide user adjustable pre-set stops for the "Full Open" and "Full Closed" positions. Fully adjustable cam type assembly.

SUGGESTED SPECIFICATIONS FOR MODELS 873, 873-MCS, 1003 AND 1003-MCS

Curtain machines shall be of fully automatic type equipped with ... HP gearmotor with external magnetic brake on the output drive shaft which shall be mounted driving sprocket delivering a cable speed of ... feet per minute. Mechanism shall include remote control switch of three-position maintained toggle type (three-button type used with Models 873-MCS and 1003-MCS) to provide reversing action at any point along the travel. Rotary limit switch assembly shall be mounted integrally with gear unit. Machine shall be equipped with idler sprockets, automatic overload protective fuse and facility for conversion to hand operation. The entire mechanism shall be mounted on base for securing to floor or other appropriate means of attachment. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

	Model No.			
	873	873MCS	1003	1003MCS
Horsepower	1/30	1/20	1/20	1/8
Volts	120	120	120	120
Phase	1	1	1	1
Cable Speed (fpm)	25	20	20	20
Number of Wires to Remote (Plus Ground)	3	4	3	4
Length	10	10	10	13
Width	5	5.5	8	8
Height	10.5	10.5	11	11
Shipping Weight (lbs.)	25	35	40	45

These machines are not to be used for lifting, lowering, or transporting of people. These machines should not be used to move loads over areas where people are present unless suitable safety devices are installed. Other safety devices can be found in the Curtain Machine Selector Guide (page 86).



Curtain Operator
Listed for use only
to single phase
units when UL
approved guards
are installed.



ETL LISTED
DOOR, DRAPERY,
GATE, LOUVER AND
WINDOW OPERATORS
AND SYSTEMS
56613 Conforms To ANSI/UL-325

CONTROL SWITCH, Models 873, 1003, 873-MCS and 1003-MCS

A single three-position maintained toggle switch, it being wired temporarily at the factory to the machine for making limit switch settings during installation. Model 873-MCS uses three-button type control stations labeled "Open", "Close", and "Stop". Model 1003-MCS also uses three-button type. Two supplied, one on machine and one for use as a remote control station.

OVERLOAD PROTECTIVE FUSE

Helps protect the machine, track and curtain against effects of accidental overload.

AUTOMATIC THERMAL OVERLOAD

Built into motor to help prevent possible damage to the motor due to overheating.

RECOMMENDATIONS

Track should either be mounted from outriggers on screen frame or directly suspended from overhead structure. All swaying motion should be eliminated. Maximum length of each half of track should not exceed 16 feet. Operating line must be supported between track sections in cross-stage applications to prevent sagging of lines (see typical masking arrangement illustration above). Masking type master carriers should be used to adequately support wood strip leading edge. Machine and live end pulley on track should be in vertical alignment to assure proper operation of chain and sprocket.