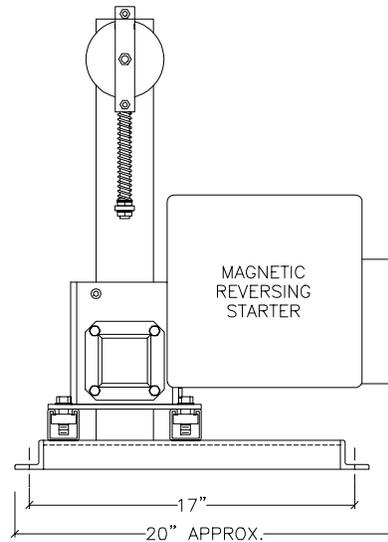
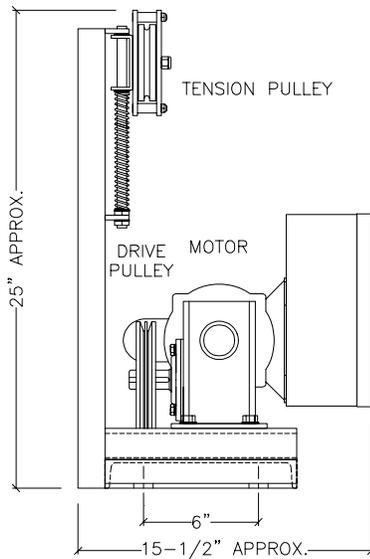


MODEL NO. 459 DRAW CURTAIN MACHINE

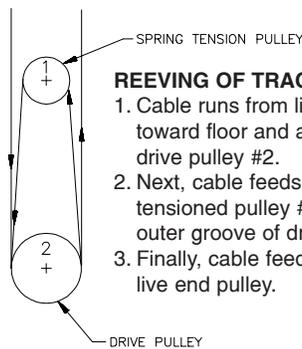


STANDARD FEATURES:

- Instantly reversing motor.
- Track mounted limit switches.
- Magnetic reversing starter.
- Double V-groove drive pulley.
- Spring-loaded tension pulley.
- Temporary power supply cord.
- Remote push button station.

OPTIONAL FEATURES:

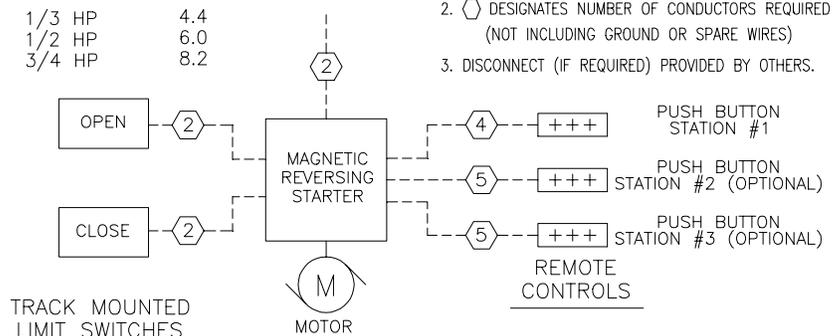
- Low voltage control circuit.
- Three phase motor and controls
- 3 or 4-stop limits and controls.
- Variable speed drive and controls.
- Other cable speeds.



REEVING OF TRACTION DRIVE CABLE:

1. Cable runs from live end pulley down toward floor and around inner groove of drive pulley #2.
2. Next, cable feeds around spring tensioned pulley #1 and back around outer groove of drive pulley #2.
3. Finally, cable feeds toward track and live end pulley.

MOTOR	AMPS	POWER SUPPLY 115V, 1Ø, 60 HZ
1/3 HP	4.4	
1/2 HP	6.0	
3/4 HP	8.2	



NOTES:

1. DOTTED LINES INDICATE FIELD WIRING.
2. ⬡ DESIGNATES NUMBER OF CONDUCTORS REQUIRED (NOT INCLUDING GROUND OR SPARE WIRES)
3. DISCONNECT (IF REQUIRED) PROVIDED BY OTHERS.

Model No. 459 Riser Diagram

DRAW CURTAIN MACHINE:

Traction drive automatic curtain machine shall be capable of operating curtain between preset "open" and "close" positions at a cable speed of 78 feet per minute. Secure machine to heavy steel base for attachment to building structure.

Provide 6" diameter cast iron drive pulley with double V-groove machined to accept 3/16" diameter operating cable. Mount pulley to output shaft of gear reducer and secure with keyed steel hub. Install spring-loaded, steel ball bearing pulley to maintain cable tension.

Gear reducer shall be single reduction worm gear type designed for continuous duty. Precision machined alloy steel worm and bronze gear shall operate in an oil bath within a cast housing with dual-lip oil seals on the output shaft to prevent leakage. The gear reducer shall have a AGMA service factor of at least 1.0 for continuous operation.

Unit shall be driven by 1/3 HP*, 115V single phase capacitor motor directly coupled to the input shaft of the reducer. Motor shall be instantly reversing type to allow motor to reverse rotation without stopping.

Starter cabinet shall be located at the machine, containing all the necessary contactors, circuit breakers, overloads and fuses to provide for reversing operation. Controls shall be automatic with electrical latch to hold run circuit until limit switch is reached or "stop" button is pushed. Provide mechanical and electrical interlocks between contactors to prevent accidental motor reversal. Mount three pushbuttons on cabinet for local "open", "close" and "stop" control. All field connections shall be made through terminal blocks in the starter cabinet.

Provide two track mounted limit switch assemblies to automatically preset desired travel of curtain between "open" and "close" positions.

Supply remote control station consisting of three pushbuttons mounted to stainless steel plate to fit standard single-gang switch box.

Model No. 459-1/3* as manufactured by H & H Specialties Inc.

* 1/2 HP and 3/4 HP motors also available. Consult factory for 459-1 specifications.