LS-175 & MLS-175
PIPING FOR BASIC LEAD SCREW TAPPING CIRCUIT
WITH ELECTRIC BRAKE MOTOR
230/460 Volts
3 Phase 60 Cycle
Thru Fused Disconnect

L1 L2 L3

L

Cycle Start
Power On

H1 H4
X2 X1

H2 H3

2O.L.'s

Line No.

1 2 CR

1 CR 3

X1 115V X2

L1 L2 L3

1 Emer. Stop N.O.

2 Emer. Stop N.C.

3 Master Relay 2, 4

4 1 CR, N.C.

5 Int. Sw. N.O.

6 Feed N.C.

7 Feed N.C.

8 Anti-Tie-Down Relay 3, 5, 10

9 Cycle Relay 6, 7, 8

10 Depth Sw. N.O.

11 Motor Off On P RT ANT

12 3CR

13 2 CR

14 2 CR

15 3 CR

16 MR

17 N.O.

18 MF

19 Motor

20 Motor Forward Coil 8

21 Motor Reverse Coil 7

IMPORTANT
THIS CIRCUIT IS A BASIC METHOD OF CONTROLLING HYPNEUMAT EQUIPMENT.
CHECK LOCAL, STATE, & OSHA REGULATIONS FOR SPECIFIC CIRCUIT REQUIREMENTS.
LS-175 & MLS-175
CYCLE SEQUENCE FOR LEAD SCREW TAPPING CIRCUIT
WITH ELECTRIC BRAKE MOTOR

1. Push Cycle Start Button
   a. Supplies power to Circuit (1CR)

2. Push Twin Palm Feed Buttons
   a. Cycle relay (3CR) is energized and is held

3. Motor Forward Coil (MF) starts Motor in a clockwise rotation and unit feeds forward

4. Depth Switch is actuated
   a. Cycle relay (3CR) is dropped out
   b. Motor Forward Coil (MF) is dropped out
   c. Motor Reverse Coil (MR) starts motor in a counterclockwise rotation

5. Unit returns to retract position and actuates Interlock Switch
   a. Motor Reverse Coil (MR) is dropped out and unit stops

   **EMERGENCY STOP**

1. Push Emergency Stop Button
   a. Power to motor shuts off and unit stops

2. To return unit to retract position, push “Cycle Start” button.