

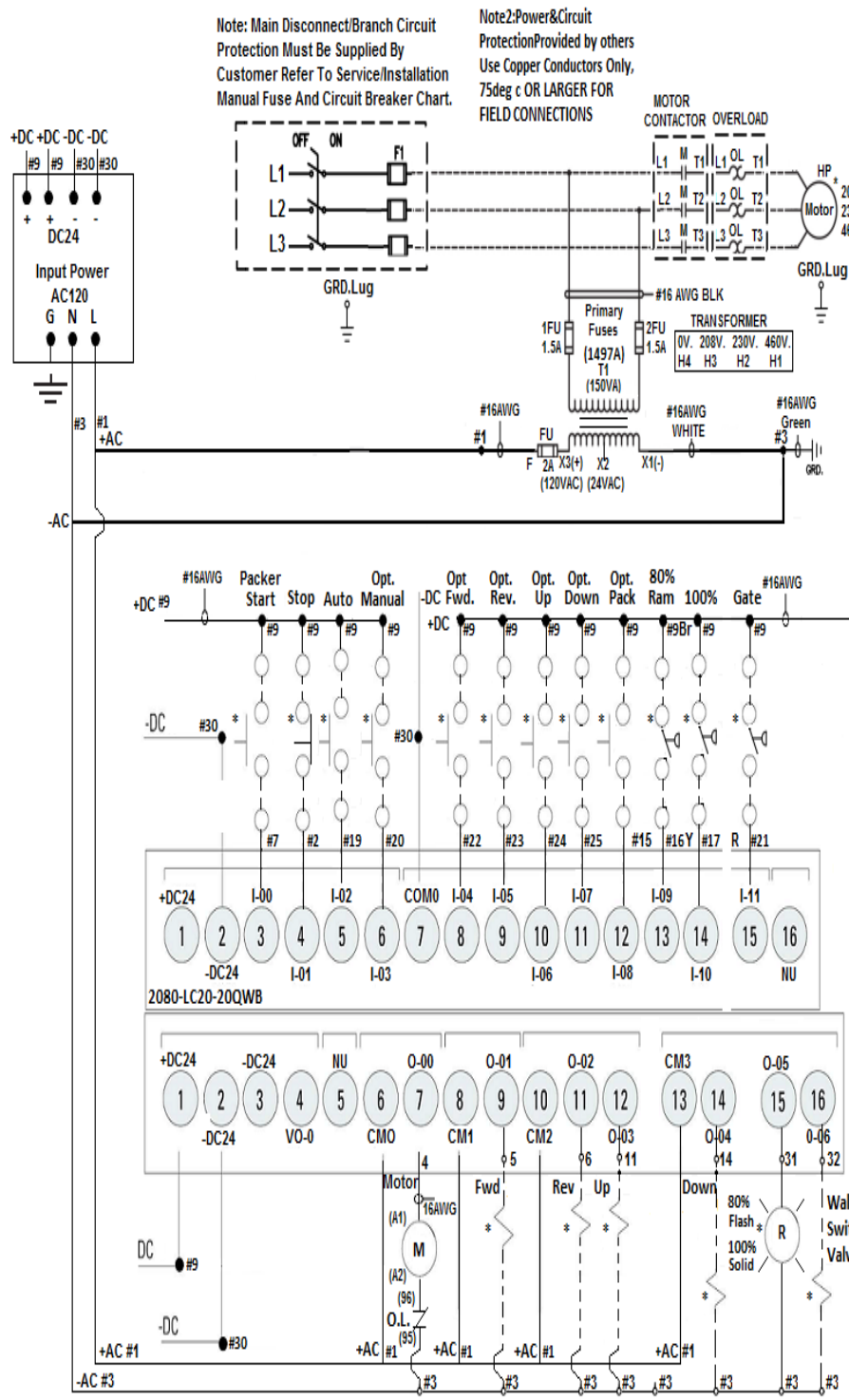
Pre-Crusher Operation

1. If the wall is not down the next time the Start button is pushed the main ram will fully retract and the wall will lower. Once the wall is down normal operation can continue.
2. Once you press the green start button the PLC will look for the ram limit switch to be made as well as the start button to be made. Once the ram moves forward you can let go of the green start button.
3. The ram will run forward and crush against the gate. Once the Ram pressure switch is activated the Ram will retract for fixed seconds and the wall will begin to go UP.
4. Once the wall is all the way up and closes the Gate limit switch, the ram will push the rest of the way into the container until the Forward limit switch is activated.
5. Once the Forward limit switch is activated the ram will fully retract until the ram closes the retract limit switch. Once the ram is fully retracted the wall will lower and once the Gate pressure switch is activated the motor will shut off.
6. Container full will activate only when the Gate is all the way up and the ram moves forward past the Gate. When the container is full it will shut the unit down and turn on a light.

Features For Pre-Crusher

- Auto/Manual Pendant
 - (1) Auto/Off/Manual 3 position key Switch (C. AB30.X501)
 - (2) 3-Position Selector Switch RAM FWD/REV and GATE UP/DOWN (C. AB30.J91)
- Standard Pedant
 - (1) 2 Position Key Switch Spring RET TO LEFT (Start) (C. AB30.H48)
 - (1) 2 Position PS/PL ILL (STOP) (C. AB30.FXQ10R)
 - (1) CHINT IND YELLOW LIGHT (GATE DOWN) (C.CH22.22D4Y)
- Switch Valve
 - (1) C.HYD.D8S.4W2P3
- Packer Valve
 - (1) HYD.D8D.4W2P
- WALL VALVE
 - (1) HYD.D8D.4W2P.2
- FORWARD LIMIT
 - (1) C. ABL.S.WS1P
- REVERSE LIMIT
 - (1) C. ABL.S.WS1P

- 30HP WEG MOTOR
 - (1) C.MTR.3PH30HP-W22
- PUMP 18HI-LO GPM
 - (1) C.HYD.GPM18. G.K. HI-LO
- PRESSURE SWITCH DUAL
 - (2) C. BDPS.C9622-3
- 60 GALLON TANK
 - (1) X.PU. TANK.60G
- MICRO 820 PLC
 - (1) C.AB.M820.LC20.QWB
 - (1) C.AB. M810.REMLCD
 - (1) C.AB. M820.LC20. PSAC

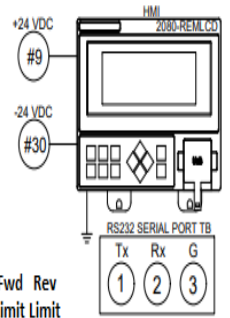


Note: Main Disconnect/Branch Circuit Protection Must Be Supplied By Customer Refer To Service/Installation Manual Fuse And Circuit Breaker Chart.

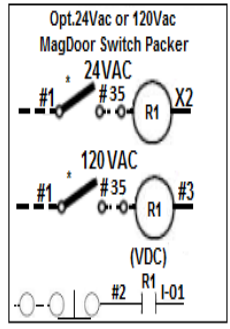
Note2:Power&Circuit Protection Provided by others Use Copper Conductors Only, 75deg c OR LARGER FOR FIELD CONNECTIONS

Connection	Screw Size	Torque Inch-Lb. Min.-Max.
Line Terminals:	No.3	22-31
Load Terminals:	No.3	22-31
Control Terminals:		8
Aux. Contact:	No.3	8,9-13
Terminal Block:		9

Primary Fuse
 150VA / 460V = .3260 * 300% = .97A
 150VA / 230V = .6521 * 300% = 1.95A
 150VA / 208V = .7211 * 300% = 2.16A
 Secondary Fuse
 150VA / 120V = 1.25 * 167% = 2.08A



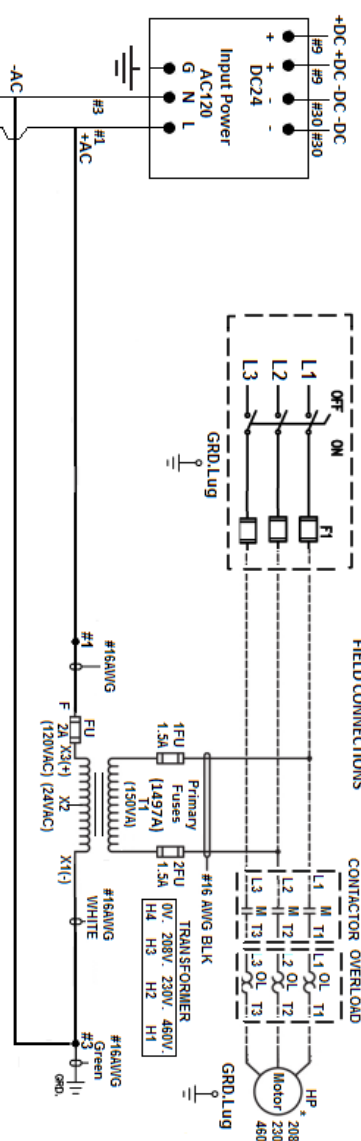
RS232 SERIAL PORT TB	PIN#	MICRO820 SERIAL PORT TB
RS232 TX	1	4 RX RS232
RS232 RX	2	5 TX RS232
RS232 G	3	6 G RS232



* Indicates Component Not Covered In UL Listed Panel

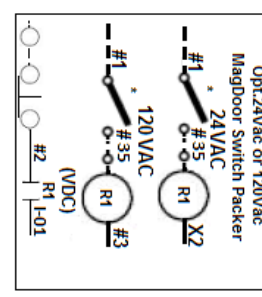
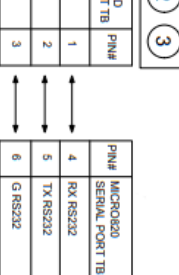
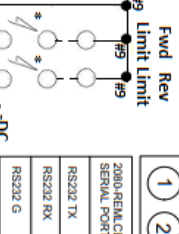
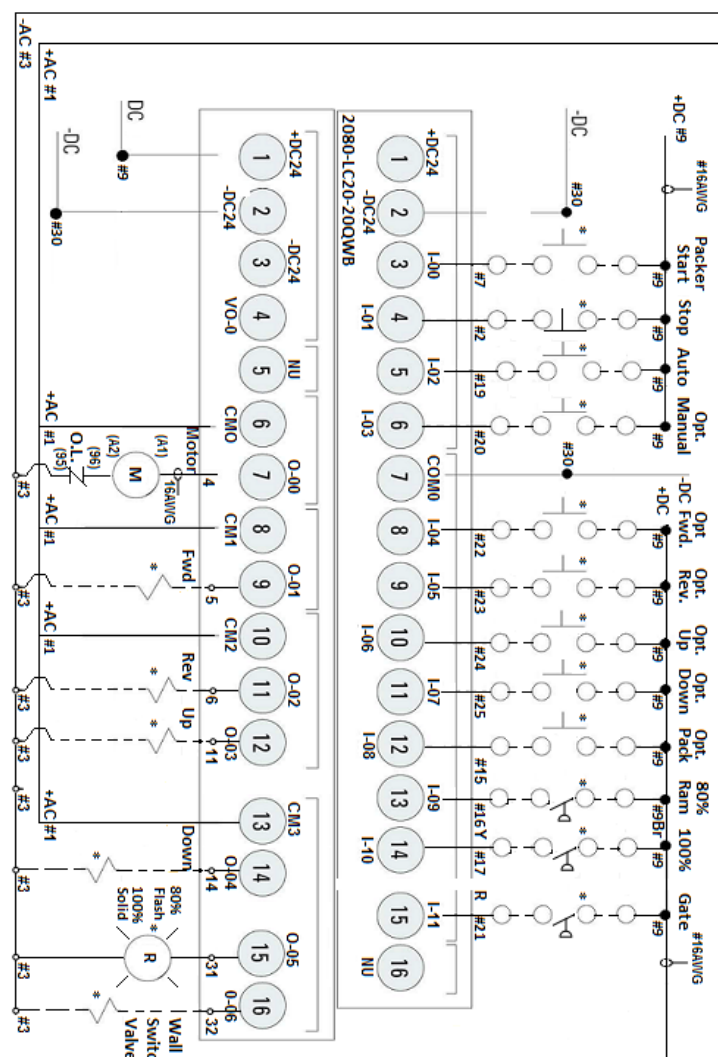
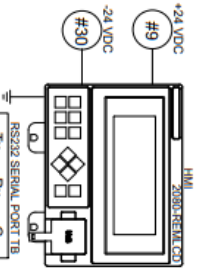
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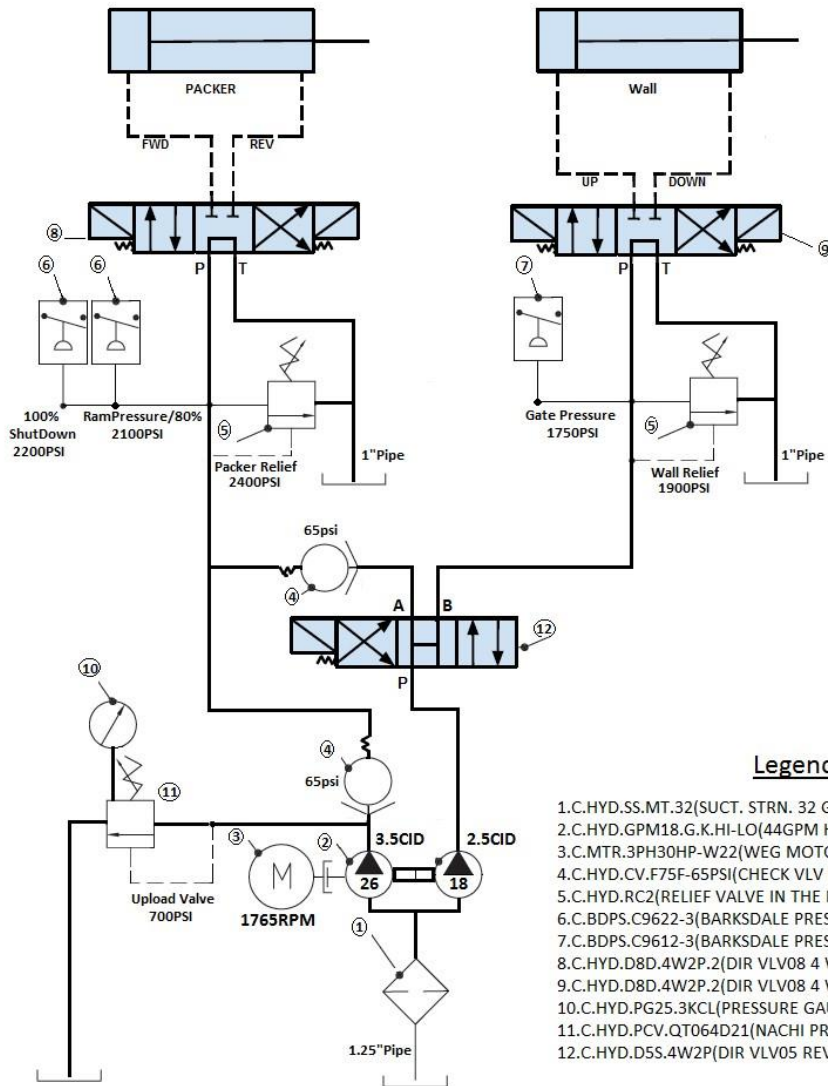


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Primary Fuse
 150VA / 480V = 3260 * 300% = 97A
 150VA / 230V = 6521 * 300% = 1,95A
 150VA / 208V = 7211 * 300% = 2,16A
 Secondary Fuse
 150VA / 120V = 1,25 * 167% = 2,08A



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Legend

- 1.C.HYD.SS.MT.32(SUCT. STRN. 32 GPM 1.5" PT METAL FITTING)
- 2.C.HYD.GPM18.G.K.HI-LO(44GPM HI / 18GPM LO DOUBLE SIDED HYDRAULIC GEAR PUMP)
- 3.C.MTR.3PH30HP-W22(WEG MOTOR 3 PHASE 30 HORSE POWER - W22)
- 4.C.HYD.CV.F75F-65PSI(CHECK VLV CRACKLING 65 PSI F-F.75")
- 5.C.HYD.RC2(RELIEF VALVE IN THE NOSE OUT THE SIDE)
- 6.C.BDPS.C9622-3(BARKSDALE PRESSURE SW DUAL SETPOINT ADJ.)
- 7.C.BDPS.C9612-3(BARKSDALE PRESSURE SW SINGL SETPOINT ADJ)
- 8.C.HYD.D8D.4W2P.2(DIR VLV08 4 WAY 3 POS VALVE)
- 9.C.HYD.D8D.4W2P.2(DIR VLV08 4 WAY 3 POS VALVE)
- 10.C.HYD.PG25.3KCL(PRESSURE GAUGE COLOR2.5" GLY 3K PSI .25")
- 11.C.HYD.PCV.QT064D21(NACHI PRESSURE CONTROL VALVE Q-T06-4D-21)
- 12.C.HYD.D5S.4W2P(DIR VLV05 REV. 4W2PS NFPA 1 SOLE HIGH FL)

Installation and Wiring Instructions for Heaters

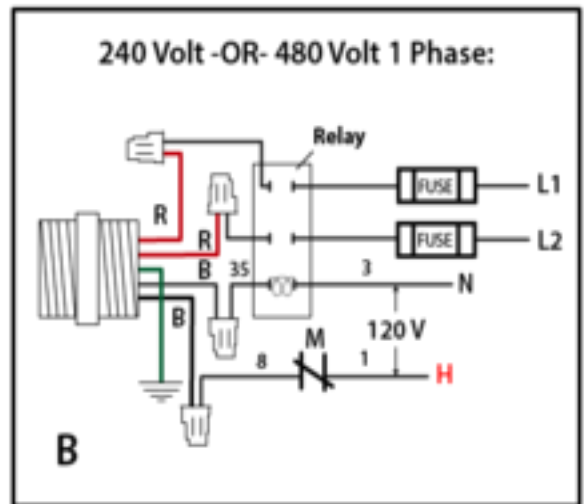
1. Must be immersed at all times.
2. Mount horizontally only.
3. Operate on rated voltage- heaters are dual voltage
4. Use on A.C. Only
5. To calculate amperage draw:

Single Phase:

$$\text{Amps} = \frac{\text{Watts}}{\text{Volts}}$$

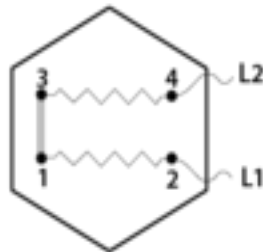
480V = 2 Amp. Fuse

240V = 4 Amp. Fuse



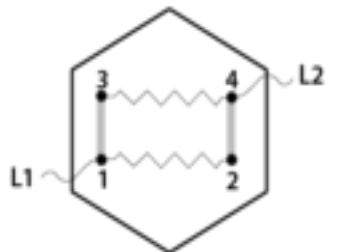
2 ELEMENT SCREWPLUG #2

2 ELEMENT SCREWPLUG #3



SERIES CONNECTED
1 BUS BAR

480 V



PARALLEL CONNECTED
2 BUS BARS

240 V



Single Phase

Motor Hp	Voltage 1-P VAC	Motor F.L.A.	Use Time Delay Dual Element Fuses		Minimum Circuit Ampacity
			Recommended Size (amps)	Maximum Size (amps)	
1 ½ Hp	115	20.0	25	35	35
3 Hp	220	17.0	25	30	30
5 Hp	220	28.0	35	50	50
10 Hp	220	50.0	70	80	80

Three Phase

3 HP MOTOR, 3 PHASE, 60 CYCLE				
Voltage	F.L.A	Type Fuse	Wire Size	Disconnect Switch
200V-208V	10 amp	Time Delay	14	30 amp
220V-230V	9 amp	Time Delay	14	30 amp
440V-460V	5 amp	Time Delay	14	20 amp
550V-575V	4 amp	Time Delay	14	20 amp
5 HP MOTOR, 3 PHASE, 60 CYCLE				
200V-208V	16 amp	Time Delay	12	30 amp
220V-230V	14 amp	Time Delay	12	30 amp
440V-460V	7 amp	Time Delay	14	30 amp
550V-575V	6 amp	Time Delay	14	30 amp
10 HP MOTOR, 3 PHASE, 60 CYCLE				
200V-208V	29 amp	Time Delay	8	60 amp
220V-230V	26 amp	Time Delay	8	60 amp
440V-460V	14 amp	Time Delay	12	30 amp
550V-575V	11 amp	Time Delay	12	30 amp
15 HP MOTOR, 3 PHASE, 60 CYCLE				
200V-208V	43 amp	Time Delay	6	60 amp
220V-230V	39 amp	Time Delay	6	60 amp
440V-460V	20 amp	Time Delay	8	60 amp
550V-575V	16 amp	Time Delay	10	30 amp
20 HP MOTOR, 3 PHASE, 60 CYCLE				
200V-208V	57 amp	Time Delay	4	100 amp
220V-230V	51 amp	Time Delay	4	100 amp
440V-460V	30 amp	Time Delay	8	60 amp
550V-575V	21 amp	Time Delay	8	60 amp