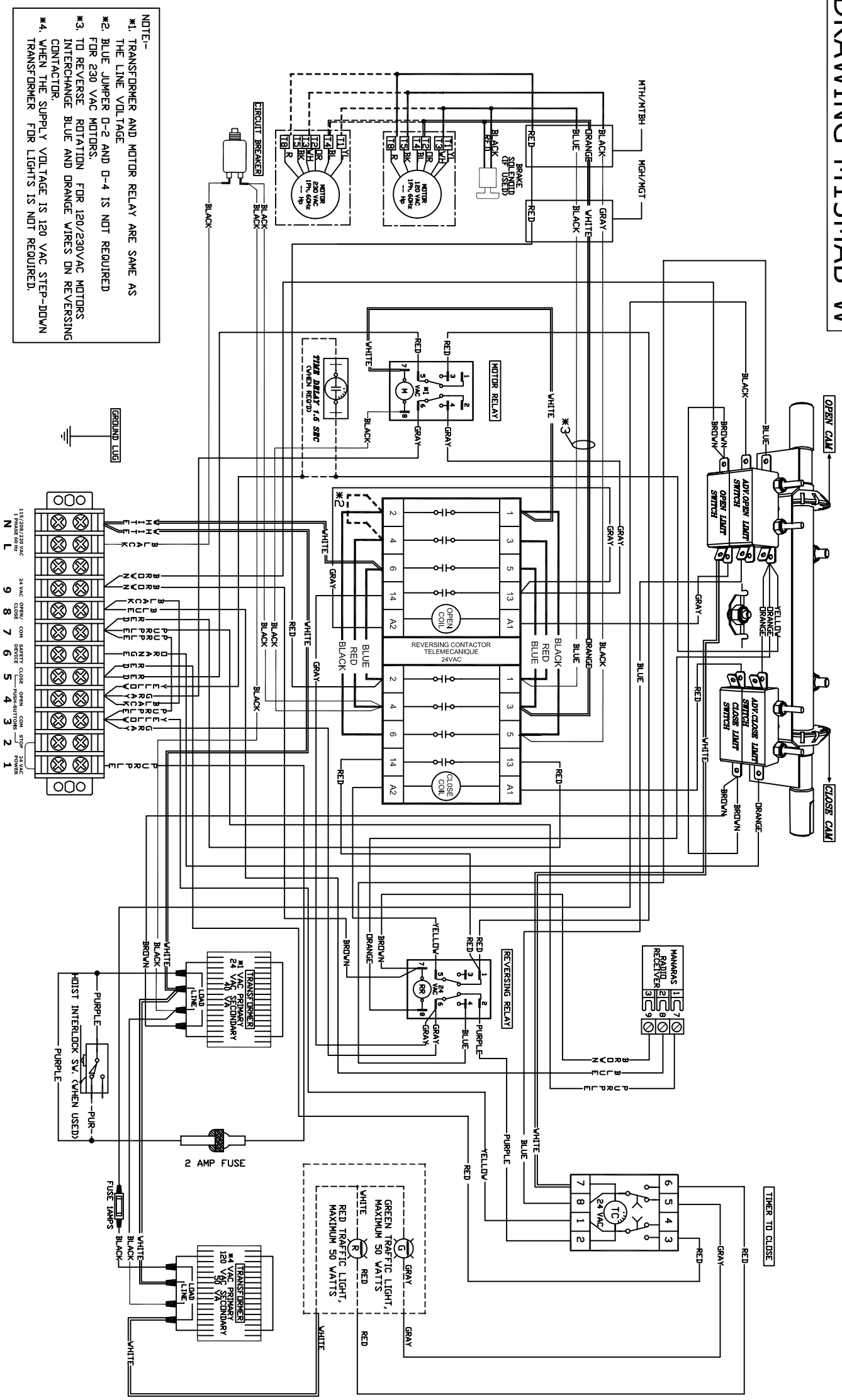
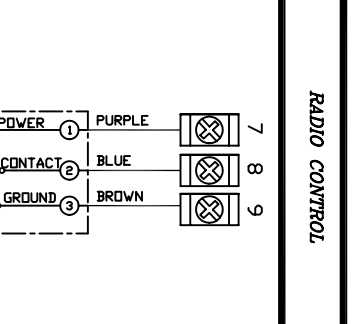
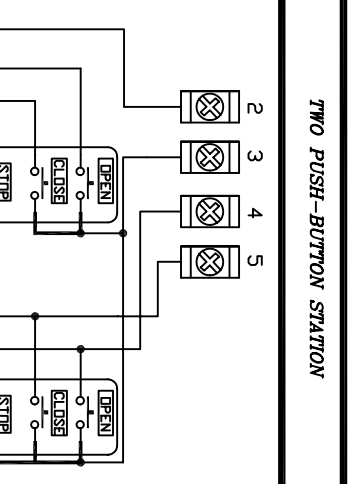
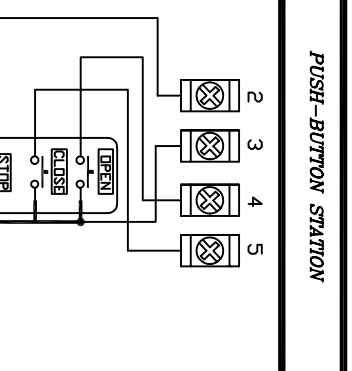


DRAWING-M13MAB-W



NOTE--
 *1. TRANSFORMER AND MOTOR RELAY ARE SAME AS THE LINE VOLTAGE
 *2. BLUE JUMPER D-2 AND D-4 IS NOT REQUIRED FOR 230 VAC MOTORS.
 *3. TO REVERSE ROTATION FOR 120/230VAC MOTORS INTERCHANGE BLUE AND DRANGE WIRES ON REVERSING CONTACTOR.
 *4. WHEN THE SUPPLY VOLTAGE IS 120 VAC STEP-DOWN TRANSFORMER FOR LIGHTS IS NOT REQUIRED.

| LINE POWER | 24 VAC POWER | EXTERNAL INTERLOCK | SAFETY REVERSE | OPEN DOOR DEVICE |
|--|----------------------------------|--|---------------------------------------|-------------------------------|
| L N | 1 9 | 1 2 | 3 6 | 7 8 |
| POWER SUPPLY 115/230V 50 VAC 1 PH, 50 HZ | 24 VAC POWER AVAILABLE 10VA MAX. | FACTORY INSTALLED JUMPER REMOVE IF EXT. INTERLOCK IS USED. | CONTACT FOR SAFETY EDGE/SAFETY DEVICE | CONTACT FOR OPEN DOOR DEVICE. |



ON SITE MODIFICATIONS
CONSTANT PRESSURE CLOSE
 1. REMOVE THE RED WIRE FROM TERMINAL #7 AND PLACE IT ON TERMINAL #5

CONSTANT PRESSURE OPEN

1. REMOVE THE GRAY WIRE FROM TERMINAL #3 AND PLACE IT ON TERMINAL #4

WIRING FOR INSTANT STOP (ON SAFETY EDGE OR DEVICE)

1. REMOVE THE YELLOW WIRE FROM ADV. OPEN LIMIT SWITCH, AND CAP IT.
 2. REMOVE THE BLUE WIRE FROM PIN #4 OR REVERSING RELAY(RR) AND CAP IT.

ADDING A TIME DELAY ON REVERSE C/W TIMER TO CLOSE

1. REMOVE THE YELLOW WIRE FROM THIS ADV. OPEN LIMIT SWITCH, CONNECT THIS WIRE TO ONE END OF THE-TIME-DELAY. 2. FROM OTHER END OF THE-TIME-DELAY, CONNECT BACK TO ADV. OPEN TERMINAL #4 AND #8. 3. REMOVE THE BLACK JUMPER FROM TERMINAL #4 AND #8. 4. MAKE A NEW WIRE FROM TERMINAL #8 AND CONNECT TO PIN #8 OF RR RELAY.

CONSTANT PRESSURE OPEN & CLOSE- D1
 PERFORM THE MODIFICATION EXPLAINED IN THE NOTES, 1, 2 AND 3

ANY OTHER OPTIONS

FOR ANY OTHER OPTIONS LIKE, TIMER TO CLOSE, MID-STOP WIRING, LONG DISTANCE MODULE, OR ANY OTHER SPECIAL LOGIC SEQUENCE, PLEASE CONSULT MANARAS/OPERA.

WIRING DIAGRAM FOR, MGH/MCT/MTB/MTBH 120/230 VAC, 1 PHASE MOTORS

| | | | | | | | |
|--|----------|-----|----|-----|---|------|---------------|
| TITLE | M13MAB-W | DES | BP | REV | E | DATE | 12. FEB. 2007 |
| PRODUCT | | | | | | | |
| CLIENT | | | | | | | |
| ENGINEER | | | | | | | |
| DISTRIBUTOR | | | | | | | |
| MANARAS-OPERA 136 ONEIDA DRIVE POINTE-CLAIRE, QC H9R 1A8 TEL: 1-800-361-2260 FAX: 1-888-626-0606 | | | | | | | |



ATTENTION- USE 18AWG OR HIGHER FOR WIRING ALL EXTERNAL CONNECTIONS