



DRYER SAMPLER INSTRUCTION SHEET

For Installation on DMC

1. Attach the Moisture/Matic control box brackets to the dryer frame. Position them at the second column from the front to avoid interfering with the clean-out door lever.

See Figure 1.



Figure 1



Figure 2

2. Mount the Moisture/Matic control box to the brackets. Use 3/8" x 1" whiz-lock screws and nuts.

See Figure 2.

3. Route 1/2" steel conduit through existing holes in the dryer support brackets; cut off the conduit even with the ends of the dryer. Use the conduit splices provided for lengths longer than ten (10) feet.

See Figure 3.



Figure 3

4. Tape 1 green and 2 black wires 40' long together and push them through the conduit. Cut the wires off with 8' out of the conduit at the rear of the dryer and 6' of wire out at the front.
5. Thread a compression fit adaptor and 90 degree elbow over the wires and attach to each end of the steel conduit.

6. Route the wires through a 7 1/2' piece of liquid-tight conduit at the rear and a 3' piece at the front and connect each to the elbow at each end of the dryer.

See Figure 3 and Figure 4.



Figure 4

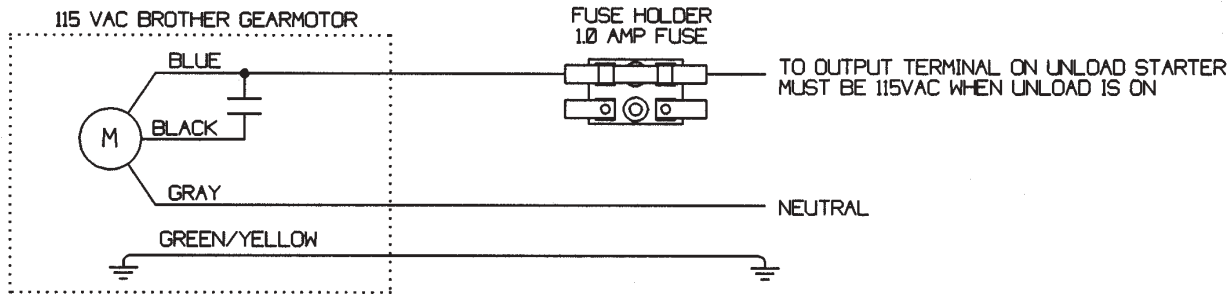
7. Attach two (2) 90 degree elbows to side of the dryer electrical box.
8. Route the wires into the dryer box and connect the liquid-tight to the elbow. **See Figure 5.**
9. Attach a straight connector to the outlet box of the gearmotor for the dryer sampler.
10. The gearmotor should be wired so that the **shaft turns counter-clockwise** as viewed from the shaft end. To do this follow the wiring instructions in Figure 6.
See Figure 6 on next page.



Figure 5

11. Attach two (2) 90 degree elbows to the bottom of the Moisture/Matic control box.
12. Route the Calc-U-Dri sensor cable & liquid-tight through one of the elbows, connect the sensor leads to the back of the control box per the Moisture/Matic Manual.
13. Route 10' lengths of black, white, green, and 5 conductor cable through the other elbow and through 7 1/2' of liquid-tight conduit.
14. Route these wires into the dryer electrical box and connect the liquid-tight conduit.
15. In the back panel of the Moisture/Matic control box:
(See Moisture/Matic manual.)
 - a. Connect the black, white & green wires to the AC power terminal (L1, N and Gnd).
 - b. Connect the wires from the 5 conductor cable to the DC Voltmeter and Speed Control terminal per the colors marked on the decal.
16. In the dryer electrical box. **See Figure 7.**
 - a. Connect the white, red and brown cable wires to SCR speed signal terminals.
 - b. Connect black and green cable wires to DC motor terminals.
 - c. Connect the individual black, white and green wires to the AC power terminal.
17. Use the wire ties and nylon clamps to secure the liquid-tight conduit to the dryer.

230 VAC 1 PHASE AND 3 PHASE 60 HZ DRYERS



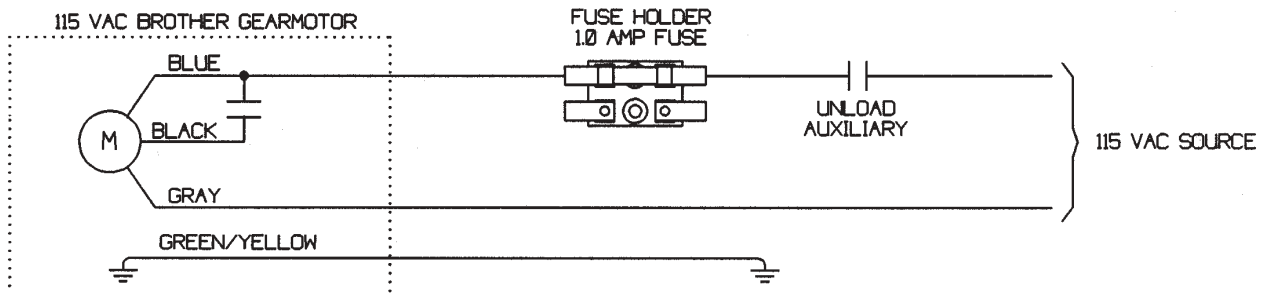
115 VAC MOTOR HOOKUP

1. CONNECT BLUE TO LINE
2. CONNECT GRAY TO NEUTRAL
3. CONNECT GREEN/YELLOW TO GROUND

CONTROL BOX HOOKUP

1. MOUNT FUSE HOLDER
2. INSTALL ONE 1.0 AMP FUSE
3. CONNECT BLUE MOTOR WIRE TO ONE END OF FUSE HOLDER
4. CONNECT OTHER END OF FUSE HOLDER TO OUTPUT OF UNLOAD STARTER (OUTPUT MUST BE 115VAC TO NEUTRAL).
5. CONNECT GRAY MOTOR WIRE TO NEUTRAL LUG.
6. CONNECT GREEN WIRE TO GROUND LUG.

460 VAC 3 PHASE 60 HZ DRYERS



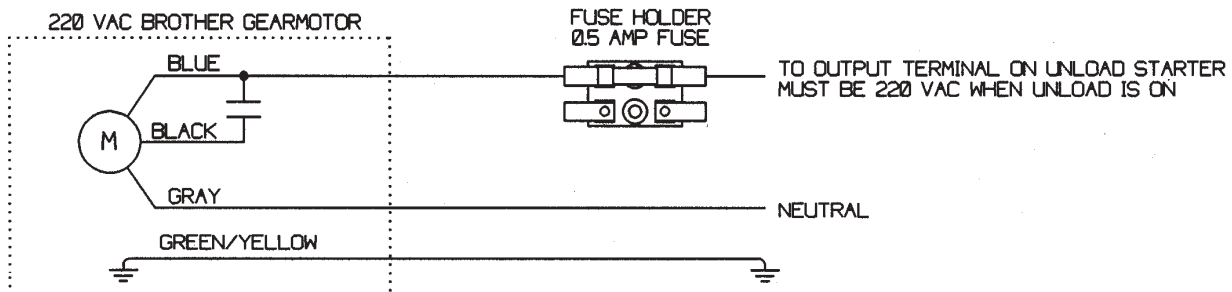
115 VAC MOTOR HOOKUP

1. CONNECT BLUE TO LINE
2. CONNECT GRAY TO NEUTRAL
3. CONNECT GREEN/YELLOW TO GROUND

CONTROL BOX HOOKUP

1. MOUNT FUSE HOLDER
2. INSTALL ONE 1.0 AMP FUSE
3. CONNECT BLUE MOTOR WIRE TO ONE END OF FUSE HOLDER
4. CONNECT OTHER END OF FUSE HOLDER TO UNLOAD STARTER AUXILIARY.
5. CONNECT AUXILIARY TO 115 VAC SOURCE
6. CONNECT GRAY MOTOR WIRE TO NEUTRAL OF 115 VAC SOURCE
7. CONNECT GREEN WIRE TO GROUND LUG.

380 VAC 50/60 HZ 3 PHASE DRYERS



220 VAC MOTOR HOOKUP

1. CONNECT BLUE TO LINE
2. CONNECT GRAY TO NEUTRAL
3. CONNECT GREEN/YELLOW TO GROUND

CONTROL BOX HOOKUP

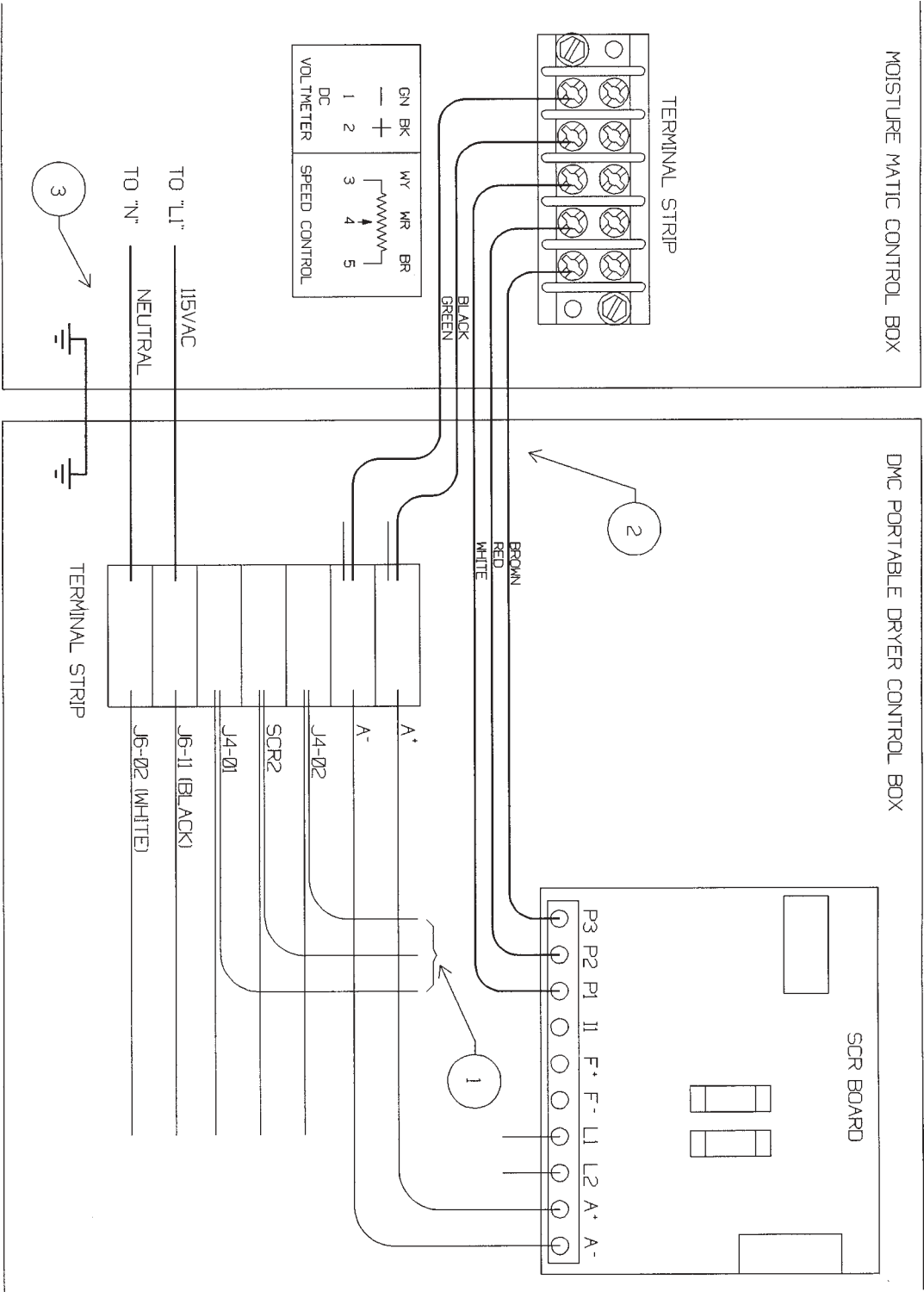
1. MOUNT FUSE HOLDER
2. INSTALL ONE 0.5 AMP FUSE
3. CONNECT BLUE MOTOR WIRE TO ONE END OF FUSE HOLDER
4. CONNECT OTHER END OF FUSE HOLDER TO OUTPUT OF UNLOAD STARTER (OUTPUT MUST BE 220 VAC TO NEUTRAL).
5. CONNECT GRAY MOTOR WIRE TO NEUTRAL LUG.
6. CONNECT GREEN WIRE TO GROUND LUG.

Figure 6

MOISTURE MATIC HOOKUP TO DMC PORTABLE DRYER

MOISTURE MATIC CONTROL BOX

DMC PORTABLE DRYER CONTROL BOX



NOTES:

1. REMOVE THREE ORIGINAL WIRES FROM P1, P2 & P3 AND TAPE OFF.
2. CONNECT SIGNAL WIRES AS SHOWN.
3. CONNECT POWER WIRES AS SHOWN.
4. THE DRYER "MOISTURE CONTROL" SWITCH AND THE DRYER HIGH SPEED AND LOW SPEED ADJUSTMENTS WILL HAVE NO EFFECT ON METERING ROLL SPEED. THE MOISTURE MATIC WILL HAVE TOTAL CONTROL OF METERING ROLL SPEED.

Figure 7