Auto-Draft® Model VSAD with a UC1 Control
(Adjustable - Fixed Speed)

PROJECT:_____

LEGEND:

– – – – – 5 VDC BOARD-GENERATED POWER DO NOT SUPPLY POWER!

▬ ▬ ▬ 24 VDC

— · — 115 VAC

———— 115 VAC OR 230 VAC (See note 2)

▬▬▬▬ 230 VAC OR 460 VAC

FIGURE 8089007 1/3/05

UC1

SEE UC1 INSTRUCTIONS FOR APPLIANCE INTERLOCK INFORMATION

CALL JUMPER

INTERLOCK RELAY

PRE-PURGE SETTINGS (1 - 2)

POST-PURGE SETTINGS (3 - 8)

OPEN PROVER √OPTION (9)

PSA-1
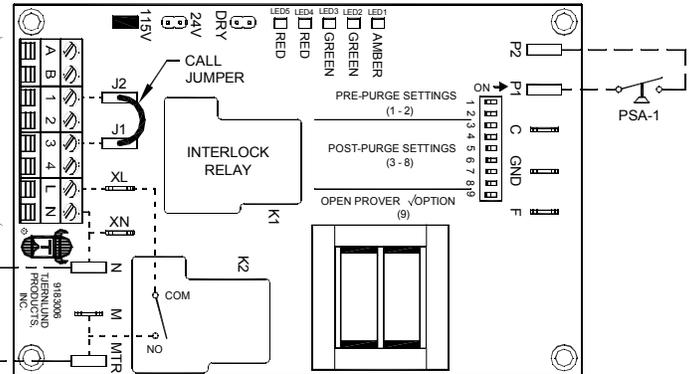
WARNING
Remove power to Universal Control when installing, servicing, or changing dip switch settings. Failure to do so may result in personal injury and/or equipment damage.
LED #5 (RED) should not be on if power is removed from the control.

Check motor rotation (See VFD instructions) △8

VFD CONTROL BOX

RELAY

MB
MC
M1
M2
S1
S2
SC
S3
D-
D+

NOTES:

△1. Verify that the input voltage matches the VFD's nameplate BEFORE applying power or severe damage will result.

△2. VSADs have a cooling fan, which is to be wired into F1 and F2 on the VFD terminal strip.

△3. Verify that the VSAD rated voltage and the VFD rated output voltage are the same. If not correct, severe damage will result.

△4. For vertical termination of the VSAD, connect to the orange wire and cap off the gray wire as shown.

For horizontal termination of the VSAD, connect to the gray wire and cap off the orange wire.

5. All wiring must be in metal conduit.

6. DO NOT run input and output wiring in the same conduit.

7. For appliance interlock, use UC1 instructions.

△8. To reverse rotation, move the gray jumper from S1 to S2.

IMPORTANT:
Perform a safety interlock and operational test as outlined in the installation manuals.

TJERNLUND DRIVE MODEL
VFD- _ _ _ _ _ _ _ O3
"O" means "Open Loop"

M1 M2 M3 MGND S1 S2 F1 F2
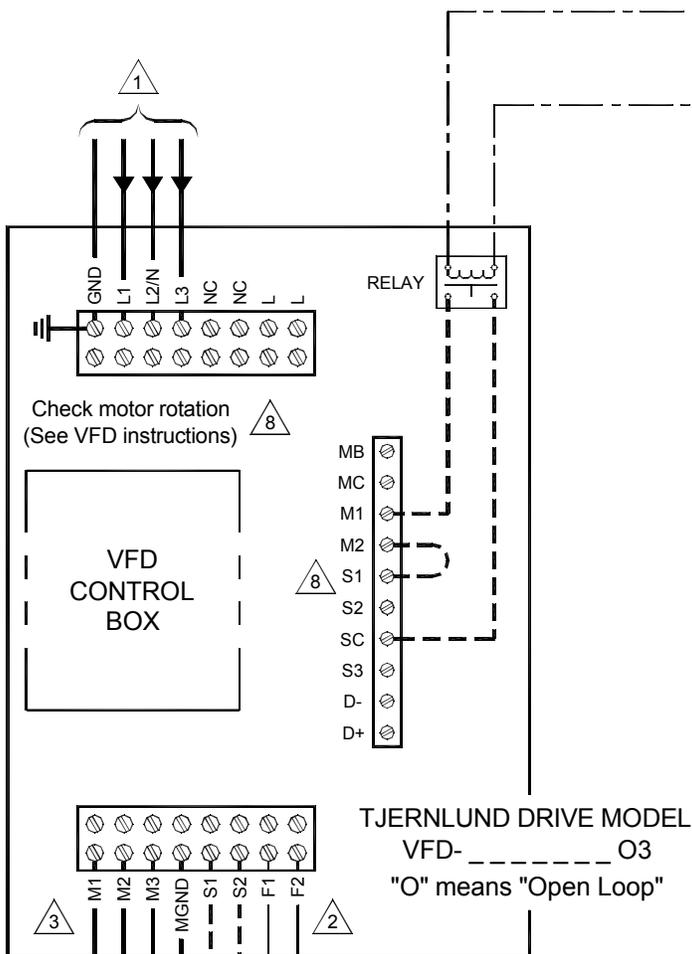
All wiring must be in metal conduit or shielded cable. Maximum length 300' (91m) @ 230 VAC and 100' (30m) @ 460 VAC

VSAD
WEATHERPROOF BOX AND WHIP

BLACK
BLACK
△4 ORANGE
GRAY
BLUE
GREEN
VIOLET
RED
YELLOW