WIRE COLOR SCHEME BLACK - LINE VOLTAGE RED - AC CONTROL WHITE - AC GROUNDED
CIRCUIT CONDUCTOR
BLUE - DC CONTROL
GREEN - CHASSIS GROUND EARTH GROUND EARTH GROUND * AC MOTOR (SEE NOTES 6) *CUSTOMER SUPPLIED 1<u>T1 (L1) x T1</u> L1 (L1) (T1) 1L1 BLK 5L1 L1/R/91 3<u>T1 (L1)</u> (T1) INPLIT T1/U/96 IF18AII [F16B] 5L2 POWER ADJUSTABLE FREQUENCY 3L2 3T2 (L2) (T2) ` 1T2 (L2) <u>T2</u> BRANCH L2 (L2) (T2) 1L2 BLK || IF188||-3 PH, 208V, L2/S/92 T2/V/97 | L2/3/92 | SL3 | L3/T/93 DRIVE CIRCUIT L3 (L3) (T3) 1L3 BLK 1<u>T3 (L3) 7 T3</u> 3L3 3T3 (L3) (T3) _2T3 PROTECTION T3/W/98 -IIF18CII-(AFD) (SEE NOTE 3) DRIVE INPUT FUSES DRIVE *AC MOTOR 2 DISCONNECT DISCONNECT (SEE NOTES 6) M3 (L1) | (T1) (L2) | (T2) OL2 F19Al AT2 (L2) 12 |F19B| (T3) AT3 (L3) -IF19CII-H2 H3 H4 23 F12 163 RED 101 WHT 115VAC 115VAC 250V CR6 TO SHEET 2 TO SHEET 2 HEATER (1) 4 (4) FAN 1 (9) (5) TS1

1. * INDICATES COMPONENTS NOT SUPPLIED BY MANUFACTURER.

- REFER TO THE INSTALLATION AND OPERATION MANUAL FOR DRIVE FUNCTIONS AND PARAMETER SETTINGS.
- BRANCHCIRCUIT PROTECTION, INPUT POWER AND MOTOR WIRING MUST BE SELECTED IN ACCORDANCE WITH THE N.E.C., ANY APPLICATION LOCAL CODES AND THE LOAD CURRENT RATING.
- 4. REPLACE JUMPER 'J1' WITH NORMALLY CLOSED SAFETY INTERLOCK CONTACT AS NECESSARY. CONTACT MUST BE RATED 1/4 HP @ 120VAC MINIMUM.
- 5. PANEL MAY REQUIRE DERATING, CONSULT DRIVE MANUAL OR FACTORY FOR FOLLOWING CONDITIONS:
- HIGHER SWITCHING FREQUENCY THEN DRIVE DEFAULT
- HIGHER THEN PANEL LISTED AMBIENT TEMPERATURES
- ELEVATION ABOVE 3300 FEET (1000 METERS)
- 5.4. LONG MOTOR LEAD LENGTHS
- 6. WHEN MOTOR OVERLOADS SIZES ARE DIFFERENT, MOTOR 1 WILL BE THE LARGER OF THE TWO MOTORS

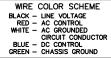
WARNING!

THE FOLLOWING TABLE LIST THE PARAMETERS THAT ARE SET DIFFERENT FROM THE DRIVE DEFAULT SETTINGS. ADDITIONAL PARAMETER SETTINGS MAY BE REQUIRED FOR YOUR APPLICATION.

DRIVE PARAMETER SETTINGS

| 0-02 MOTOR SPEED UNIT 1 HZ 0-03 REGIONAL SETTINGS 1 NORTH AMERICA 1-03 TORQUE CHAR. 1 VARIABLE TORQUE 5-02 TERMINAL 29 TYPE 1 OUTPUT 5-31 TERMINAL 29 5 RUNNING 14-20 RESSET MODE 13 INFINITE AUTO REST | PARAMETER # | NAME | SETTING | VALUE |
|---|-------------|-------------------|---------|--------------------|
| 1-03 TORQUE CHAR. 1 VARIABLE TORQUE 5-02 TERMINAL 29 TYPE 1 OUTPUT 5-31 TERMINAL 29 5 RUNNING | 0-02 | MOTOR SPEED UNIT | 1 | HZ |
| 5-02 TERMINAL 29 TYPE 1 OUTPUT 5-31 TERMINAL 29 5 RUNNING | 0-03 | REGIONAL SETTINGS | 1 | NORTH AMERICA |
| 5-31 TERMINAL 29 5 RUNNING | 1-03 | TORQUE CHAR. | 1 | VARIABLE TORQUE |
| | 5-02 | TERMINAL 29 TYPE | 1 | OUTPUT |
| 14-20 RESET MODE 13 INFINITE AUTO REST | 5-31 | TERMINAL 29 | 5 | RUNNING |
| | 14-20 | RESET MODE | 13 | INFINITE AUTO REST |
| | | | | |

| В | | | -NOTICE- THIS DRAWING IS PROPRIETARY AND SHALL NOT | DRN DTM | NAME | | EMA 3R,208V,20 DRIVE DISC,DRI | | | THE TRANE COMPANY A DIVISION OF |
|-----|------------|------|--|---------|------------------------|-----|----------------------------------|------------------------|--------|---------------------------------|
| DR | ECNSP09001 | 1/09 | BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN | APR | ,3MB1,DUAL MOTOR,2 FAN | | | AMERICAN STANDARD INC. | | |
| REV | ECN | DATE | CONSENT OF THE TRANE COMPANY | DTM | MODEL | VLT | PAGE <u>1</u> OF <u>2</u> | SIZE | DWG 17 | 4N4463 |



TERMINAL IDENTIFICATION

X - DRIVE TREMINAL

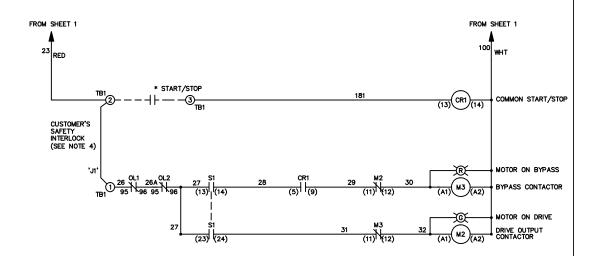
O - CUSTOMER TERMINAL

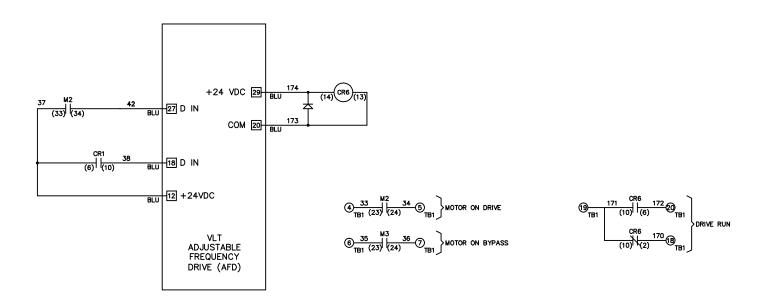
CUSTOMER DRY CONTACT RATINGS

| RELAY | CONTACT RATING | | | |
|----------|---------------------------------|--|--|--|
| CR1, CR6 | 5A @ 120VAC 1/10 HP @ 120VAC | | | |
| M2, M3 | 10A @ 120/240VAC | | | |



| X INDICATES CONTACT CLOSED | | | | | | | |
|----------------------------|-------|-----|--------|--|--|--|--|
| POSITION | | | | | | | |
| CONTACT | DRIVE | OFF | BYPASS | | | | |
| 13-14 | | | Χ | | | | |
| 23-24 | Χ | | | | | | |





| В | | |
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