WIRE COLOR SCHEME TERMINAL IDENTIFICATION BLACK - LINE VOLTAGE RED - AC CONTROL X - DRIVE TERMINAL WHITE - AC GROUNDED - CUSTOMER TERMINAL CIRCUIT CONDUCTOR
BLUE - DC CONTROL GREEN - CHASSIS GROUND EARTH GROUND EARTH GROUND \neg * AC MOTOR 1 4T1 (L1) M2 4T2 (L2) (T2) 2T1 *CUSTOMER L1 (L1) (T1) BLK 2L1 (U1) (U2) 4L1 (F16A) 5L1 (L1/R/91 VLT (L1) (T1) 1T1 (L1) T1 INPUT SUPPLIED T1/U/96 POWER 3L2 (V1) (V2) 4L2 [F16B] 5L2 L2/S/92 ADJUSTABLE FREQUENCY (L2) (T2) 1T2 (L2) T2 2T2 FEEDER L2 (L2) O | |F15B| (T2) BLK 2L2 T2/V/97 3 PH, 600V, 3L3 (W1) (W2) 4L3 ||F16C|| 5L3 ||L2/5/92 ||L3/T/93 || DRIVE 2T3 (L3) (T3) 1T3 (L3) T3 CIRCUIT L3 (L3) O IF15CI (T3) BLK 2L3 4T3 (L3) (T3) PROTECTION T3/W/98 (AFD) 60Hz (SEE NOTE 3) INPUT DRIVE INPUT FUSES DRIVE DISCONNECT DISCONNECT REACTOR (L1) (T1) (L2) (T2) (L1) (T1) 3T1 (L1) T1 (L2) (T2) 3T2 (L2) T2 *AC MOTOR 2 EARTH GROUND GRN (L3) (T3) (L3) (T3) 3T3 (L3) 163 RED 100 WHT -| F12 |-X2 X3 250V 115VAC T2 (12) 5 (11) TS1 HEATER (SET: 65° F) CR6 167 2) FAN 1 (SET: 80° F) (9) (5) (23) (24) TB2 TS1

TO SHEET 2

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

DRIVE PARAMETER SETTINGS

| PARAMETER # | NAME | SETTING | VALUE |
|-------------|-------------------|---------|----------------------|
| 0-02 | MOTOR SPEED UNIT | 1 | HZ |
| 0-03 | REGIONAL SETTINGS | 1 | NORTH AMERICA |
| 1-03 | TORQUE CHAR. | 3 | AUTO ENERGY OPTIM VT |
| 5-02 | TERMINAL 29 TYPE | 1 | OUTPUT |
| 5-31 | TERMINAL 29 | 5 | RUNNING |
| 14-20 | RESET MODE | 13 | INFINITE AUTO REST |
| | | | |
| | | | |

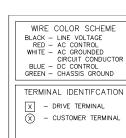
NOTES:

- 1. * INDICATES COMPONENTS NOT SUPPLIED BY MANUFACTURER.
- 2. REFER TO THE INSTALLATION AND OPERATION MANUAL FOR DRIVE FUNCTIONS AND PARAMETER SETTINGS.
- 3. FEEDER CIRCUIT 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:

TO SHEET 2

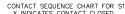
- 5.1. HIGHER SWITCHING FREQUENCY THAN DRIVE DEFAULT
- 5.2. HIGHER THAN PANEL LISTED AMBIENT TEMPERATURES
- 5.3. ELEVATION ABOVE 3300 FEET (1000 METERS)
- 5.4. LONG MOTOR LEAD LENGTHS

| В | | | - NOTICE - THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF DANFOSS DRIVES. | DRN | NAME | | EMA 3R,600V,2C | | | - Lu |
|-----|---------|-------|--|------|-------|----------------|---------------------------|----------|--------|---------|
| Α | SP10119 | 11/10 | IT IS LOANED BY DANFOSS DRIVES SUBJECT TO THE CONDITIONS THAT IT AND THE INFORMATION EMBODIED THEREIN SHALL BE USED ONLY FOR RECORD AND REFERENCE PURPOSES. SHALL NOT BE USED OR CAUSED TO BE USED | D TM | | | ISC, DRIVE DISC, | | | Janjuss |
| DR | SP10076 | 09/10 | IN ANY WAY PREJUDICIAL TO THE INTERESTS OF DANFOSS DRIVES, SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, OR DISCLOSED | APR | | , SMB, IR, CON | TACT MOTOR SEI F | LEUI,I I | TOWC 4 | |
| REV | ECN | DATE | TO ANYONE WITHOUT THE DIRECT WRITTEN PERMISSION OF DANFOSS DRIVES AND SHALL BE RETURNED UPON REQUEST. | D TM | MODEL | VLT | page <u>1</u> of <u>2</u> | SIZE | NO. 18 | 5B0//9 |



CUSTOMER DRY CONTACT RATINGS

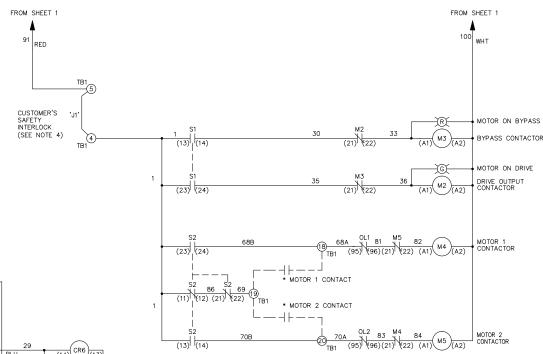
| RELAY | CONTACT RATING | |
|-------------------|---------------------------------|--|
| CR6 | 5A @ 120VAC 1/10 HP @ 120VAC | |
| M2, M3, M4, M5 | 10A @ 120/240VAC | |

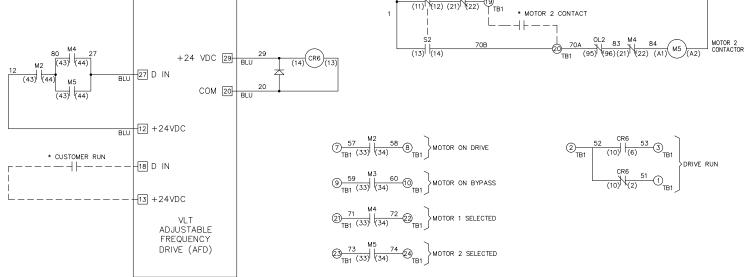


| X INDICATES CONTACT CLUSED | | | | | |
|----------------------------|-------|-----|--------|--|--|
| POSITION | | | | | |
| CONTACT | DRIVE | OFF | BYPASS | | |
| 13-14 | | | Χ | | |
| 23-24 | Χ | | | | |
| 20 21 | | | | | |

CONTACT SEQUENCE CHART FOR S2 X INDICATES CONTACT CLOSED

| X INDICATES CONTACT CLOSED | | | | | |
|----------------------------|---------|---------------|---------|--|--|
| POSITION | | | | | |
| CONTACT | MOTOR 1 | AUTO | MOTOR 2 | | |
| 11-12 | X | X | | | |
| 13-14 | | | X | | |
| 21-22 | | X | X | | |
| 23-24 | Х | | | | |





| В | | |
|-----|---------|-------|
| Α | SP10119 | 11/10 |
| DR | SP10076 | 09/10 |
| REV | ECN | DATE |

| - NOTICE - |
|--|
| THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF DANFOSS DRIVES. |
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| AND SHALL BE RETURNED UPON REQUEST. |

| DRN , | D TM | NAM |
|----------|------|-----|
| | | |

DTM

NAME NEMA 3R,600V,2C ,MAIN FUSE DISC, DRIVE DISC, DRIVE FUSE ,3MB,IR,CONTACT MOTOR SELECT,1 FAN

MODEL VLT PAGE 2 OF 2 SIZE A NO. 185807