WIRE COLOR SCHEME
BLACK - LINE VOLTAGE
RED - AC CONTROL
WHITE - AC GROUNDED
CIRCUIT CONDUCTOR
BLUE - DC CONTROL
GREEN - CHASSIS GROUND

TERMINAL IDENTIFICATION

X - DRIVE TERMINAL

(X) - CUSTOMER TERMINAL

EARTH GROUND EARTH GROUND AC MOTOR *CUSTOMER SUPPLIED L1 (L1) (T1) 1L1 BLK (U1) (U2) 2L1 3L1 L1/R/91 INPUT T1/U/96 TF16AT POWER ADJUSTABLE FREQUENCY (V1) (V2) 2L2 BRANCH L2 (L2) (T2) 1L2 BLK T2 3 PH, 230V, T2/V/97 DRIVE CIRCUIT (W1) (W2) 2L3 L3 (L3) (T3) 1L3 BLK PROTECTION T3/W/98 (AFD) (SEE NOTE 3) INPUT DRIVE INPUT FUSES MAIN DISCONNECT REACTOR EARTH GROUND GRN * CUSTOMER RUN -18 D IN +24 VDC 29-163 RED X2 100 WHT CUSTOMER DRY CONTACT RATINGS F12 -13 +24VDC 115VAC COM 20 BLU RELAY CONTACT RATING -27 D IN CUSTOMER'S SAFETY HEATER (SET: 65° F) 'J1' (12) 5 (11) TS1 5A @ 120VAC CR6 1/10 HP @ 120VAC INTERLOCK (SEE NOTE 4) 12 +24VDC (2) FAN 1 (SET: 80° F) VLT **ADJUSTABLE** FREQUENCY DRIVE (AFD) DRIVE RUN CR6

NOTES:

1. * INDICATES COMPONENTS NOT SUPPLIED BY MANUFACTURER.

- 2. REFER TO THE INSTALLATION AND OPERATION MANUAL FOR DRIVE FUNCTIONS AND PARAMETER SETTINGS.
- 3. BRANCH 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.
- 5. PANEL MAY REQUIRE DERATING, CONSULT DRIVE MANUAL OR FACTORY FOR FOLLOWING CONDITIONS:
- 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

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

WARNING!

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

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

- NOTICE
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF DANFOSS DRIVES.
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
IN ANY WAY PREJUDICIAL TO THE INTERESTS OF DANFOSS DRIVES, SHALL
NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, OR DISCLOSED
TO ANYONE WITHOUT THE DIRECT WRITTEN PERMISSION OF DANFOSS DRIVES
AND SHALL BE RETURNED UPON REQUEST.

DRN D TM

D TM

APR

NAME NEMA 3R,240V,NB ,MAIN DISC, DRIVE FUSE ,IR,SINGLE MOTOR,1 FAN

Danfoss

MODEL VLT

PAGE <u>1</u> OF <u>1</u>

 $A \mid DWG \mid 185B($