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 GRN / \neg 4T1 (L1) (T1) 2T1 4T2 (L2) (T2) 2 * AC MOTOR 1 *CUSTOMER (U1) (U2) 4L1 F16A 5L1 L1/R/91 L1 (L1) (T1) 1L1 BLK (F15A) 2L1 VLT (L1) (T1) 1T1 (L1) T1 INPUT SUPPLIED T1/U/96 (V1) (V2) 4L2 |F16B| 5L2 |L2/S/92 POWER ADJUSTABLE FREQUENCY 2T2 (L2) (T2) 1T2 (L2) T2 L2 (L2) (T2) 1L2 BLK F15B 2L2 FEEDER T2/V/97 3 PH, 600V, (W1) (W2) 4L3 ||F16B|| 5L3 ||L2/5/92 || (W1) (W2) 4L3 ||F16C|| 5L3 ||L3/T/93 || 2T3 (L3) (T3) 1T3 (L3) T3 L3 (L3) (T3) 1L3 BLK ||F15C|| 2L3 DRIVE CIRCUIT 4T3 (L3) (T3) PROTECTION T3/W/98 (AFD) 60Hz (SEE NOTE 3) INPUT DRIVE INPUT FUSES MAIN DISCONNECT **FUSES** 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

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

FOR YOUR APPLICATION.

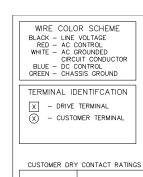
NOTES:

- 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,20		The sheet
А	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 Ti	<i>V</i> /		•	SC, MAIN & DR TACT MOTOR SE		
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			,JIVID,IR,COIN	TACT MOTOR SE	LECI,I I	AN
REV	ECN	DATE	NOT BE REPRODUCED OR COPIED IN WHILE OR IN PART, OR DISCLOSED TO ANYONE WITHOUT THE DIRECT WRITTEN PERMISSION OF DANFOSS DRIVES AND SHALL BE RETURNED UPON REQUEST.	D Ti	V	MODEL	VLT	PAGE <u>1</u> OF <u>2</u>	SIZE	No. 185B0/25



RELAY

CONTACT RATING 5A @ 120VAC 1/10 HP @ 120VAC

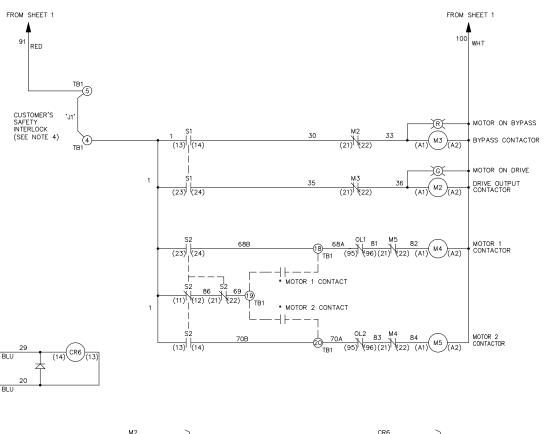
10A @ 120/240VAC

CONTACT SEQUENCE CHART FOR S1 X INDICATES CONTACT CLOSED					
POSITION					
CONTACT	DRIVE	OFF	BYPASS		
13-14			Х		
23-24	Χ				

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

CONTACT	SEQUENCE	CHART	FOR	S2	

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



80 M4 27 (43) (44) M5	BLU	+24 VDC [2
(43) ¹ (44) M5 (43) (44)	BLU	COM [
	BLU	12 +24VDC
* CUSTOMER RUN		-18 D IN
<u> </u>		13 +24VDC
		VLT ADJUSTABLE FREQUENCY DRIVE (AFD)
		1

 $\underbrace{9 \frac{59}{1B1} \frac{\text{M3}}{(33)} \left| \frac{60}{(34)} \underbrace{10}_{TB1} \right\}}_{\text{TB1}} \text{MOTOR ON BYPASS}$ $\bigcirc \frac{71}{\text{TB1}} \frac{\text{M4}}{(33)} \left| \frac{72}{(34)} \bigcirc \right| \\ \boxed{2}_{\text{TB1}} \right\} \text{MOTOR 1 SELECTED}$ $\begin{array}{c|c} \hline \textcircled{3} & & \text{M5} \\ \hline (33) & & \\ \hline (34) & & \\ \hline \end{array} \\ \begin{array}{c} 74 \\ \hline (34) & \\ \hline \end{array} \\ \begin{array}{c} \text{TB1} \end{array} \\ \end{array} \\ \begin{array}{c} \text{MOTOR 2 SELECTED} \\ \end{array}$

В		
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DRN		NAME	
	O T	INVINE	
L	\mathcal{D}/M		. N
			ZMD
A D D			,3MB

DTM

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



MODEL PAGE <u>2</u> OF <u>2</u> VLT