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

TERMINAL IDENTIFCATION
X – DRIVE TERMINAL
X̊ – CUSTOMER TERMINAL

EARTH GROUND — GRN

INPUT POWER 3 PH, 480V, 60Hz

*CUSTOMER SUPPLIED FEEDER CIRCUIT PROTECTION (SEE NOTE 3)

L1 L2 L3

CB1 CIRCUIT BREAKER

BLK 2L1 / BLK 2L2 / BLK 2L3

EARTH GROUND — GRN

INPUT LINE REACTOR
(U1)(U2) 4L1
(V1)(V2) 4L2
(W1)(W2) 4L3

F16A F16B F16C
DRIVE INPUT FUSES

5L1 / 5L2 / 5L3

L1/R/91
L2/S/92
L3/T/93

EARTH GROUND — GRN

VLT ADJUSTABLE FREQUENCY DRIVE (AFD)

EARTH GROUND — GRN

T1/U/96
T2/V/97
T3/W/98

4T1 (L1) (T1) 2T1
4T2 (L2) (T2) 2T2
4T3 (L3) (T3) 2T3
M2

M3
(L1)(T1)
(L2)(T2)
(L3)(T3)

OL
(L1) T1
(L2) T2
(L3) T3

* AC MOTOR
T1 T2 T3

F13A 600V / F13B

H1 H3 H2 H4

91 — F12 250V — 163 RED X2 — 115VAC T2 — X1 — GRN — 100 WHT

3 TB2 — (12) TS1 (11) — 164 — CR6 (12)(4) — 165 — HEATER (SET: 65°F)

(23) TS1 (24) — 166 — CR6 (9)(5) — 167 — 1 TB2 — FAN 1 (SET: 80°F) 2 TB2

FAN 2

TO SHEET 2   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.

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:
   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

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

REV	ECN	DATE
B		
A	SP10119	11/10
DR	SP10076	09/10

DRN DTM
APR DTM

NAME NEMA 3R,480V,2C ,MAIN CB ,DRIVE FUSE ,3MB1,IR,SINGLE MOTOR,2 FAN

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WIRE COLOR SCHEME

BLACK — LINE VOLTAGE
RED — AC CONTROL
WHITE — AC GROUNDED
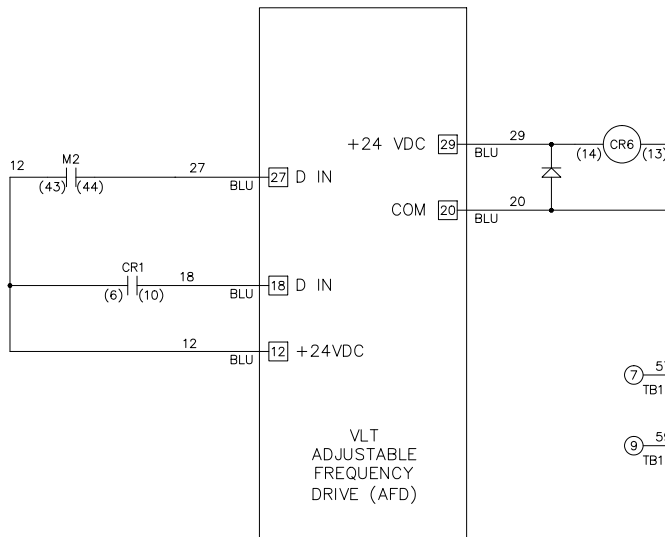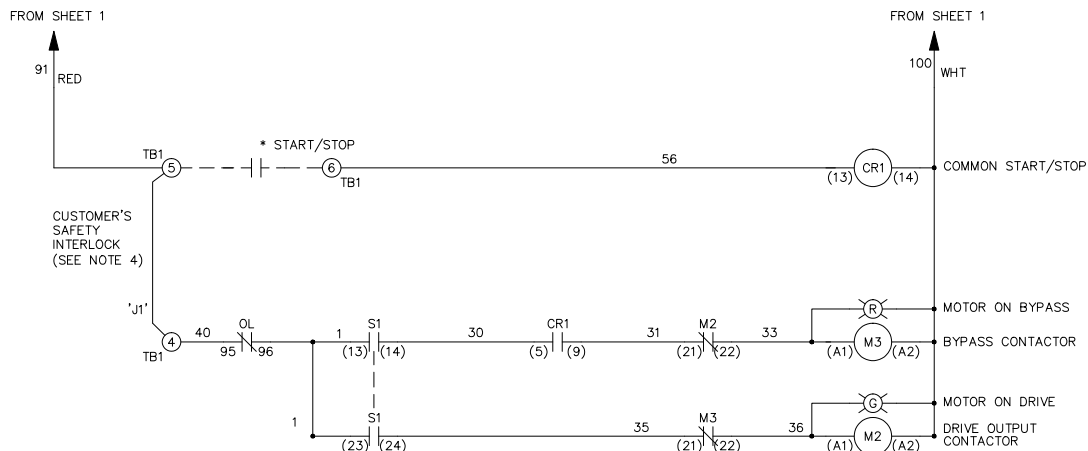CIRCUIT CONDUCTOR
BLUE — DC CONTROL
GREEN — CHASSIS GROUND

TERMINAL IDENTIFCATION

X — DRIVE TERMINAL
(X) — CUSTOMER TERMINAL

CONTACT SEQUENCE CHART FOR S1
X INDICATES CONTACT CLOSED

CONTACT \ POSITION	DRIVE	OFF	BYPASS
13–14			X
23–24	X		

CUSTOMER DRY CONTACT RATINGS

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

FROM SHEET 1
91 RED

FROM SHEET 1
100 WHT

* START/STOP

TB1 5 — 6 TB1 — 56 — (13) CR1 (14) COMMON START/STOP

CUSTOMER'S SAFETY INTERLOCK (SEE NOTE 4)

'J1'
TB1 4 — 40 — OL 95 96 — 1 S1 (13)(14) — 30 — CR1 (5)(9) — 31 — M2 (21)(22) — 33 — (R) MOTOR ON BYPASS / (A1) M3 (A2) BYPASS CONTACTOR

1 — S1 (23)(24) — 35 — M3 (21)(22) — 36 — (G) MOTOR ON DRIVE / (A1) M2 (A2) DRIVE OUTPUT CONTACTOR

+24 VDC [29] BLU — 29 — (14) CR6 (13)
COM [20] BLU — 20

12 — M2 (43)(44) — 27 — BLU [27] D IN

CR1 (6)(10) — 18 — BLU [18] D IN

12 — BLU [12] +24VDC

VLT ADJUSTABLE FREQUENCY DRIVE (AFD)

(7) 57 TB1 (33) M2 (34) 58 (8) TB1 MOTOR ON DRIVE

(9) 59 TB1 (33) M3 (34) 60 (10) TB1 MOTOR ON BYPASS

(2) 52 TB1 (10) CR6 (6) 53 (3) TB1
(10) CR6 (2) 51 (1) TB1 DRIVE RUN

REV	ECN	DATE
B		
A	SP10119	11/10
DR	SP10076	09/10

DRN DTM
APR DTM

NAME NEMA 3R,480V,2C ,MAIN CB ,DRIVE FUSE ,3MB1,IR,SINGLE MOTOR,2 FAN

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