H000000050 /04293

July 14, 2004

36026X8J – VOLTAGE CONVERSION FROM 240 TO 208 VOLTS, 3 PHASE

PARTS NEEDED: (1) 09UB25AT71
(6) 09B068
10 feet – 18 gauge wire

In the event that a 240 volt machine, model 36026X8J, is in the field, but needs to have 208 volt, 3 phase applied, the following conversion will make the machine compatible with 208 volt, 3 phase.

Attached are five documents. The first document shows three pictures which show the electrical control box mounted on the rear of the machine (refer to picture 729). Picture 728 shows the approximate location of the control circuit transformer which must be mounted in the machine to boost 208 volts to 230 volts AC.

Picture 730 shows the tag which should be attached to the control box door showing EXHV (in the approximate mounting location). SHO1 is shown in the schematic, but not used in this conversion.

The wiring of the transformer (p/n 09UB25AT71) is shown in the attached schematics. Schematic W7X8JLV shows the transformer – EXHV used for the boosting of 208 volts to 240. Note that the switch has been taken out of the circuit as drawn. Please read and follow the notes shown in this schematic.

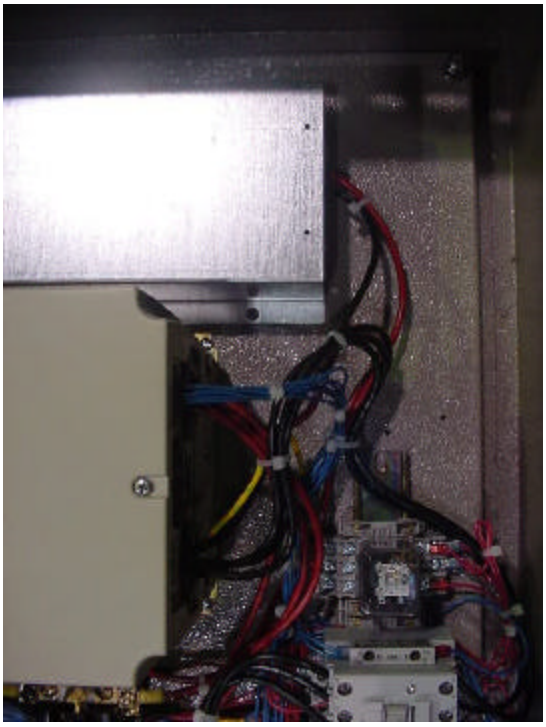
The machine as wired from the factory at 240 volts is connected as shown on W7X8JS+A. These terminals marked in diamonds C & D will be disconnected from L1 and L2 as shown in the note on the schematic.

Schematic W7X8JVPA shows the two connections points at L1 and L2 for the control circuit transformer which must be added. Some wire will be needed to make the transformer connections (use 18 gauge wire or larger for these connections). The transformer is supplied with a number of "white cap" terminals which can be used to make connections at the transformer.

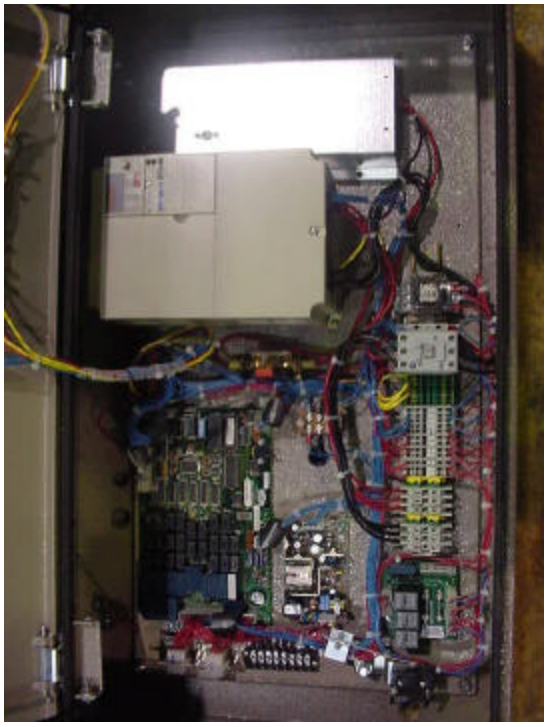
If you have any questions, please contact MILNOR Technical Support.

At you service,
Gary Lazarre

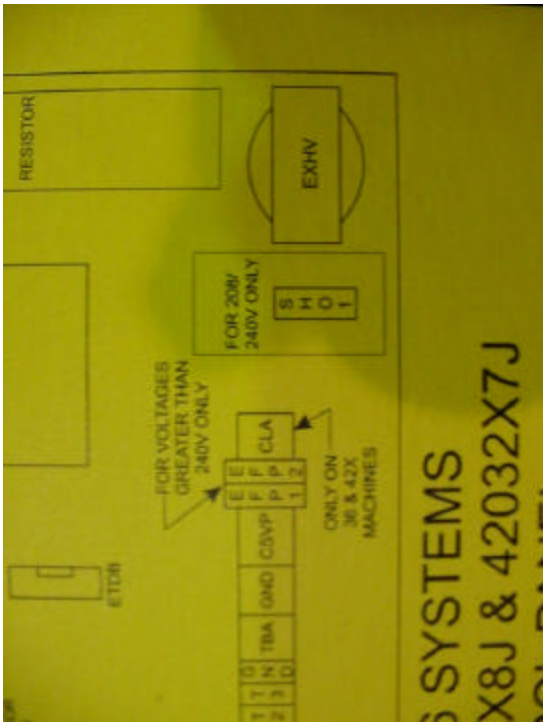
GLL/das
Attachment



MVC-728S



MVC-729S



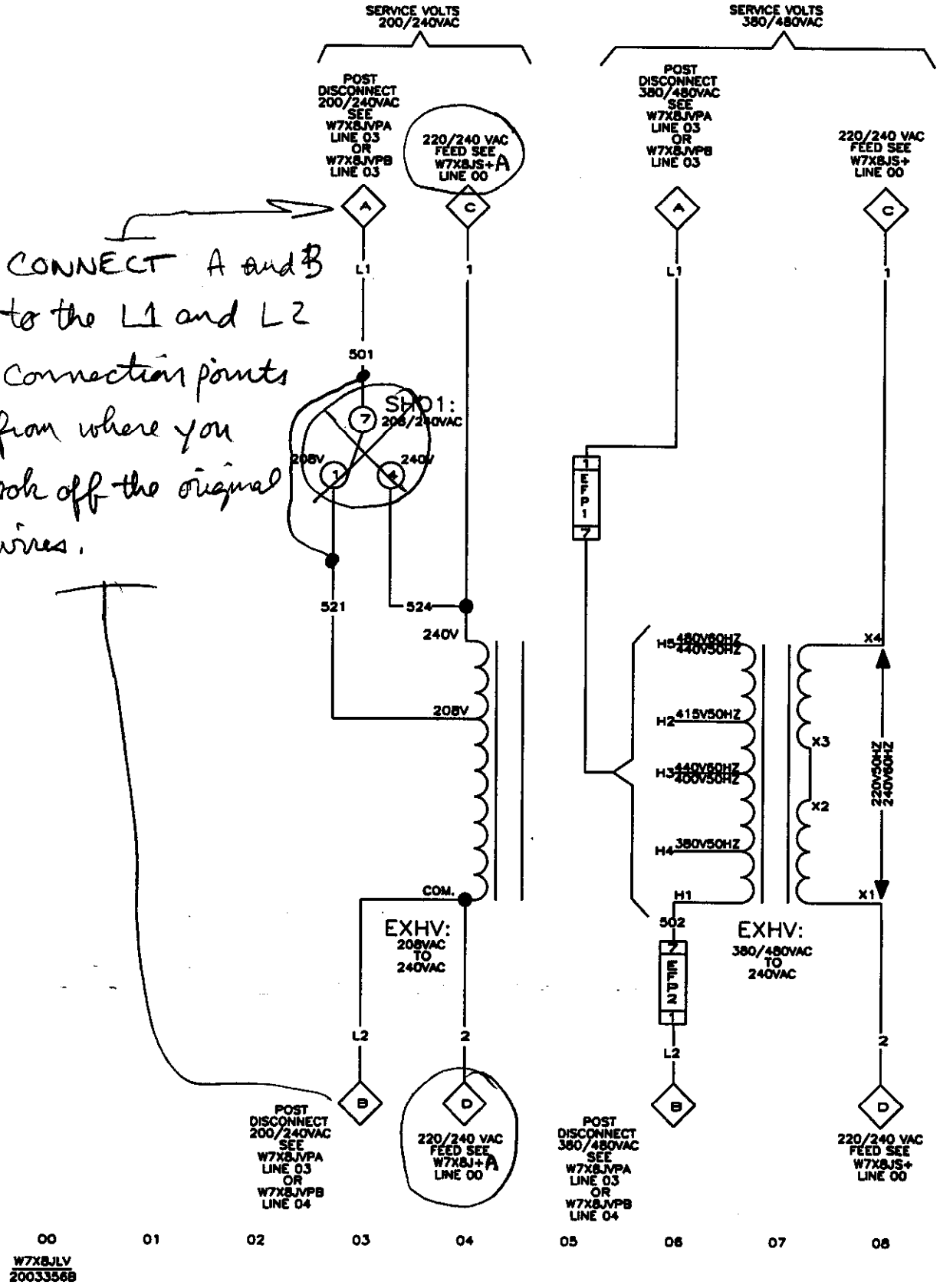
MVC-730S

COMPONENT PARTS LIST

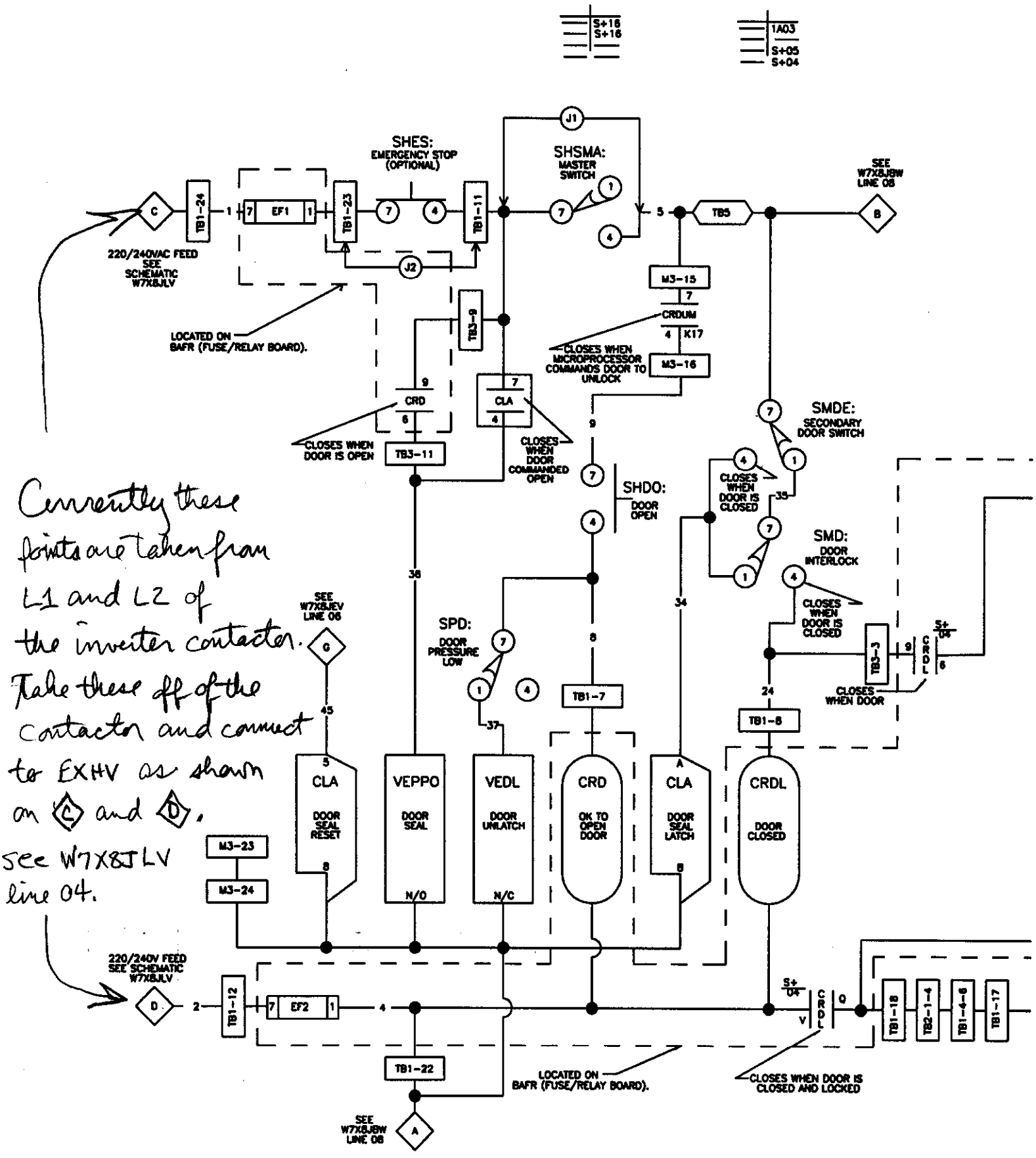
COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
ETDB	OVERLOAD-DYNAMIC BRAKE	W7X8JVPA	09F024A	OL RELAY 1P SZ1 SQD #9065-C01	CONTROL PANEL
ETDB	OVERLOAD-DYNAMIC BRAKE	W7X8JVPB	09F024A	OL RELAY 1P SZ1 SQD #9065-C01	CONTROL PANEL
EX	**>>TRANSFORMERS**				
EXHV	TRANSFORMER-INCOMING VOLT 240VAC	W7X8JLV	MESSAGE EW	SEE EX37-1, -2, OR -3 FOR VOLTAGE	CONTROL PANEL
EXHV-1	TRANSFORMER-208VAC TO 240VAC	W7X8JLV	09UB25AT71	AUTOXFMR 208V-230V 250VA	CONTROL PANEL
EXHV-2	TRANSFORMER-380/480V TO 240V	W7X8JLV	09UA025AAB	XFMR 380-480PRI/120-240SEC250V	CONTROL PANEL
EXHV-3	TRANSFORMER-600V TO 240V	W7X8JLV	09U251AB71	XFMR 600VPRI/240VSC-250VA-3%REG	CONTROL PANEL
MT	**>>>MOTORS**				
MTVP	FAN-INVERTER COOLING	W7X8JS+A	13AF100A71	FAN 92CFM230V60	CONTROL BOX
MTWE	MOTOR-WASHER	W7X8JVPA	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	BELOW SHELL
MTWE	MOTOR-WASHER	W7X8JVPB	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	BELOW SHELL
MV	**>>>MOTOR POWER INVERTERS**				
MVDBR	RESISTOR-DYNAMIC BRAKE	W7X8JVPA	09MV100RES	RESIST 100 OHM 225WATT ADJ	CONTROL PANEL
MVDBR	RESISTOR-DYNAMIC BRAKE	W7X8JVPB	09MV100RES	RESIST 100 OHM 225WATT ADJ	CONTROL PANEL
MVINV	INVERTER-VARI SPEED LOW VOLTAGE	W7X8JVPB	09MV030G74	VARSPEED 3HP 11A 230V GPD305	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HIGH VOLTAGE 3022	W7X8JVPA	09MV050F96	VARSPEED V MACHINES 5HP 460V	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HIGH VOLTAGE 3626	W7X8JVPA	09MV015F96	VARSPEED 460V7.5HP14.8A GPD315	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HIGH VOLTAGE 4226	W7X8JVPA	09MV018F96	VARISPEED 460V 10HP 18A GPD315	CONTROL PANEL
MVINV-L	INVERTER-VARI SPEED LOW VOLTAGE 3022	W7X8JVPA	09MV050F74	VARSPEED V MACHINES 5HP 230V	CONTROL PANEL
MVINV-L	INVERTER-VARI SPEED LOW VOLTAGE 3626	W7X8JVPA	09MV033F74	VARISPEED 33A 230V GPD315	CONTROL PANEL
MVINV-L	INVERTER-VARI SPEED LOW VOLTAGE 4226	W7X8JVPA	09MV036A74	VARSPEED 36 AMPS 230V	CONTROL PANEL
MVINV-L	INVERTER-VARI SPEED LOW VOLTAGE 4232	W7X8JVPA	09MWA04574	F7 INVERTER 45 AMP	CONTROL PANEL
SH	**>>SWITCH-HAND OPERATED**				
SHES	SWITCH-EMERGENCY STOP (OPTIONAL)	W7X8JS+	09N505	SW ASSY EMER STOP	FRONT
SHES	SWITCH-EMERGENCY STOP (OPTIONAL)	W7X8JS+A	09N505	SW ASSY EMER STOP	FRONT
SH01	SWITCH-208/240VAC	W7X8JLV	09N050	TOGSW SPDT NO OFF 10A250V	CONTROL PANEL
SHDO	SWITCH-DOOR OPEN	W7X8JIA	09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W7X8JS+A	09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHWCF	SWITCH-FLUSH CHEMICALS	W7X8JCF	09N405PB10	SWASS PBBK 1NO	SIDE OF MACHINE
SK	**>>SWITCH-KEYLOCK**				
SKPR	SWITCH-RUN/PROGRAM	W7X8JIA	09N127C	KEYSW SPST 7A120VAC SCREW TERM	SWITCH PANEL
SM	**>>SWITCH-MECHANICAL OPERATED**				
SMD	SWITCH-DOOR IS LOCKED	W7X8JS+	09R010D	DOOR LOCK SWITCH	DOOR LATCH

WHITECAP 09B068 - 6ea

SINCE YOU DON'T HAVE A SWITCH, CONNECT L1 TO THE 208V TRANFORMER CONNECTION AND IGNORE SWITCH BELOW.

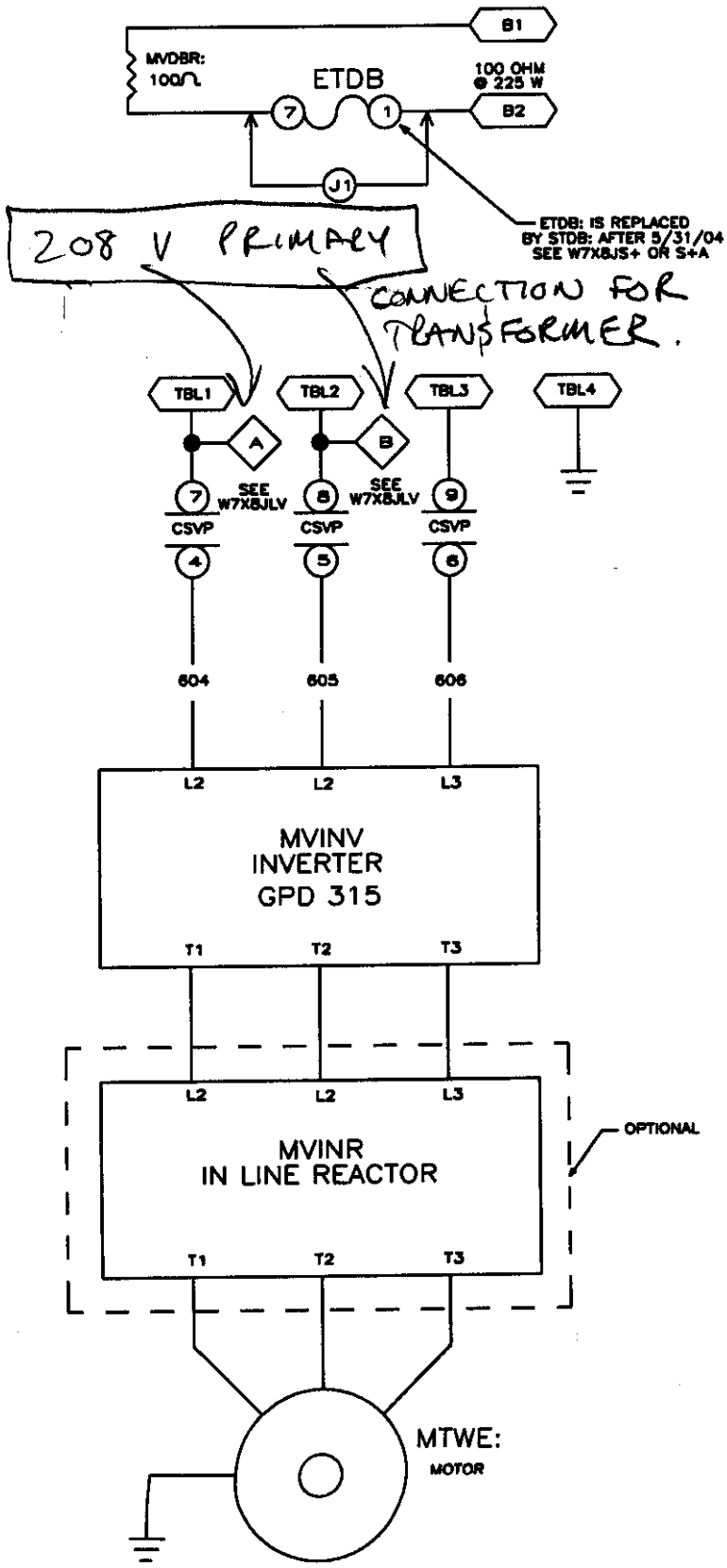


CONNECT A and B to the L1 and L2 connection points from where you took off the original wires.

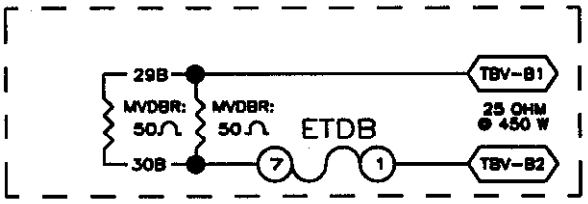


Currently these points are taken from L1 and L2 of the inverter contactor. Take these off of the contactor and connect to EXHV as shown on (C) and (D). see W7X8JLV line 04.

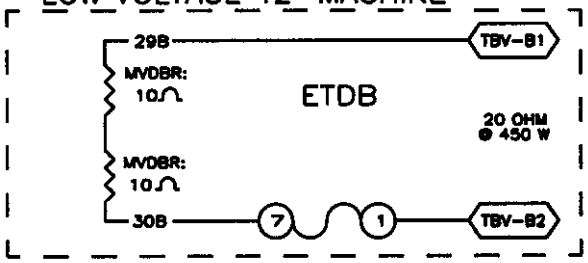
W7X8JS+A
20042038



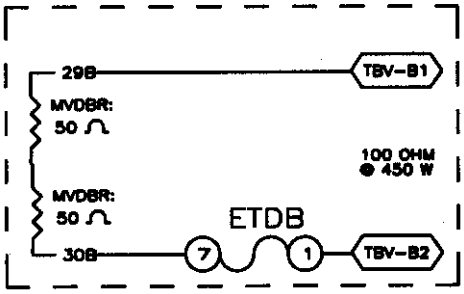
LOW VOLTAGE 36" MACHINE



LOW VOLTAGE 42" MACHINE



HIGH VOLTAGE 36" & 42"



00 01 02 03 04 05 06 07 08 09

W7X8JVPA
2004203B