



**Read the
separate
safety
manual
before
installing,
operating,
or servicing**

Published Manual Number/ECN: ME7X8J11AE/2023014A

- Publishing System: TPAS2
- Access date: 01/11/2023
- Document ECNs: Latest

Schematic/Electrical Parts

**30022X8J, 36026X8J, 42026X7J,
42032X7J, 48040F7J/B
E-P Plus Controls**



PELLERIN MILNOR CORPORATION POST OFFICE BOX 400, KENNER, LOUISIANA 70063-0400, U.S.A.

Table of Contents

ME7X8J11AE/23014A

Page	Description	Document
1	Component Parts List	W7X8JPL/2023014N
9	Limited Standard Warranty	BMP720097/2019036
10	How to Get the Necessary Repair Components	BIUUUD19/20081231
11	How to Use Milnor® Electrical Schematic Diagrams	BIUUUK01/20130308
24	Sample Schematic	BMP010012/2018343
26	3 Phase Motor Connection Diagram	BMP850029/1999362B
27	3P Motor Diagram-Multivolt	W80008/2001253A
28	Control Box Layouts 30" through 42"	W7X8JTG1/2006393B
30	Control Box Layouts Sheet 2	W7X8JTG2/2012316B
32	Board to Board Wiring before 12-15-03	W7X8JBW/2003022B
34	Board to Board Wiring after 12-15-03	W7X8JBWA/2012232B
36	Flushing Supplies	W7X8JCF/2012232B
38	Optional 12 Chemical Flushing	W7X8JCM/2012232B
40	Extract Speed Limit	W7X8JEC/2023014B
42	Electric heat	W7X8JEH/2012396B
44	Electric Valves	W7X8JEV/2015205B
46	Electric Valves for 48040F7B only	W7X8JEVA/2012232B
48	Hydraulic Door (48040 Only)	W7X8JHD/2012232B
50	Control Circuit Transformer	W7X8JLV/2021505B
52	Microprocessor Inputs	W7X8JIA/2012233B
54	Raise House 48040F7B	W7X8JRH/2016515B
56	Start & Door Circuit 30022X8J	W7X8JS+/2016432B
58	Start & Door Circuit 36X8J, 42X7J	W7X8JS+A/2016432B
60	Start Circuit 48040F7B	W7X8JS+B/2016432B
62	Start & Door Circuit 4840F7J	W7X8JS+C/2016432B
64	Variable Speed Controller (3PH)	W7X8JVPA/2015163B
66	Variable Speed Controller (1PH)	W7X8JVPB/2015163B
68	Variable Speed Controller (3PH) 48040F7B/J	W7X8JVPC/2021332B

COMPONENT PARTS LIST

W7X8JPL/2023014N

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT NUMBER</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
	>>CONTROL BOX LAYOUTS				
1	DETAILS X8J CONTROL PANEL	W7X8JTG1	B2T2002039	3022.3626X8J CONTROL PANEL	CONTROL PANEL
2	DETAILS X8J CONTROL PANEL	W7X8JTG2	B2T2004035	48040F7J/B WITH H CONTROLS LOW VOLT	CONTROL PANEL
3	DETAILS X8J CONTROL PANEL	W7X8JTG2	B2T2000021	48040F7J/B/N/W HIGH VOLT CONTROL	CONTROL PANEL
BA	>>ACCELEROMETERS				
	BOARD-ACCELEROMETER <7-2022	W7X8JEC	EACCLRM3	ASSY:ACCEL O-5VOC OP STAPH 42	SHELL FRONT
	BOARD-ACCELEROMETER >7-2022	W7X8JEC	EACCLRM8	ASSEMBLY:ACCELROMETER 1VOLT PER G	SHELL FRONT
	>>PRINTED CIRCUIT BOARDS				
BADV	BOARD=DISPLAY/SWITCH PANEL	W7X8JBW	08BHEPSPBT	BD:EP+ SW PANEL VER2->TEST	BEHIND SWPNL
BADV	BOARD=DISPLAY/SWITCH PANEL <MODEL AZ	W7X8JBWA	08BHEPSPCT	EP+ SWPNL VER2 W/LCD>TEST	BEHIND SWPNL
BADV	BOARD=DISPLAY/SWITCH PANEL >MODEL AZ	W7X8JBWA	98CMCR1823	BD:EP PLUS DISPLAY	BEHIND SWPNL
BAFR	BOARD-FUSE / RELAY	W7X8JS+	08BHRCT	BD-TV/X START CIRCUIT->TEST	CONTROL PANEL
BAFR	BOARD-FUSE / RELAY	W7X8JS+A	08BHRCT	BD-TV/X START CIRCUIT->TEST	CONTROL PANEL
BAUP	BOARD=PROCESSOR+I/O	W7X8JBW	08BH18EPDT	188PROCESSOR EP+ 20 MHZ->TEST	CONTROL PANEL
BAUP	BOARD=PROCESSOR+I/O <MODEL AZ	W7X8JBWA	08BH18EPDT	188PROCESSOR EP+ 20 MHZ->TEST	CONTROL PANEL
BAUP	BOARD=PROCESSOR+I/O >MODEL AZ	W7X8JBWA	98CMCR1822	BD:EP PLUS ->TEST	CONTROL PANEL
BBAD-1	BOARD- A TO D CONVERTER	W7X8JEC	08BSBADCTE	SR BALANCE A-D BD EXTACTR-TEST	CONTROL PANEL
CL	>>RELAY-LATCH				
CLA	RELAY-DOOR SEAL	W7X8JS+A	09CL2C-C71	RELAY-LATCH DPDT 240V 2-COIL	CONTROL PANEL
CLA	RELAY-DOOR SEAL	W7X8JS+B	09CL2C-C71	RELAY-LATCH DPDT 240V 2-COIL	CONTROL PANEL
CLA	RELAY-DOOR SEAL	W7X8JS+C	09CL2C-C71	RELAY-LATCH DPDT 240V 2-COIL	CONTROL PANEL
CLA-CHOKE	CHOKE-DOOR SEAL LATCH	W7X8JS+A	10YCLCHOKE	LATCH HARNES: RF CHOKE	CONTROL BOX
CLA-CHOKE	CHOKE-DOOR SEAL LATCH	W7X8JS+B	10YCLCHOKE	LATCH HARNES: RF CHOKE	CONTROL BOX
CLA-CHOKE	CHOKE-DOOR SEAL LATCH	W7X8JS+C	10YCLCHOKE	LATCH HARNES: RF CHOKE	CONTROL BOX
CR	>>RELAY-PILOT OR CONTROL				
CRA	RELAY-DOOR OPEN	W7X8JS+B	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRA	RELAY-DOOR OPEN	W7X8JS+C	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRALT	RELAY-OUT OF BALANCE TOO LARGE	W7X8JEC	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC1	RELAY-FLUSH CHEMICAL #1	W7X8JCM	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC2	RELAY-FLUSH CHEMICAL #2	W7X8JCM	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC3	RELAY-FLUSH CHEMICAL #3	W7X8JCM	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC4	RELAY-FLUSH CHEMICAL #4	W7X8JCM	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC5	RELAY-FLUSH CHEMICAL #5	W7X8JCM	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT NUMBER</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
CR6	RELAY-FLUSH CHEMICAL #6	W7X8JCM	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRD	RELAY-OK TO OPEN DOOR	W7X8JS+	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRD	RELAY-OK TO OPEN DOOR	W7X8JS+A	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRD	RELAY-OK TO OPEN DOOR	W7X8JS+B	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRD	RELAY-OK TO OPEN DOOR	W7X8JS+C	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDB	RELAY-DEFLATE BAGS	W7X8JS+B	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDL	RELAY-DOOR CLOSED AND LOCKED	W7X8JS+	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDL	RELAY-DOOR CLOSED	W7X8JS+A	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDL	RELAY-DOOR CLOSED	W7X8JS+B	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDL	RELAY-DOOR CLOSED	W7X8JS+C	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDRA	RELAY-DOOR FULL OPEN	W7X8JSRH	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRE	RELAY-OK TO LOCK DOOR	W7X8JS+	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CREI	RELAY-OK TO JOG OR TILT	W7X8JS+B	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CREI	RELAY-OK TO JOG	W7X8JS+C	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRFDL	RELAY-FRONT DOWN LEFT	W7X8JSRH	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRFDR	RELAY-FRONT DOWN RIGHT	W7X8JSRH	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRRDL	RELAY-REAR DOWN LEFT	W7X8JSRH	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRRDR	RELAY-REAR DOWN RIGHT	W7X8JSRH	09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CS	>>CONTACTOR-MOTOR STARTER				
CSDO	CONTACTOR-HYDRAULIC PUMP MOTOR	W7X8JHD	09MC08C371	16A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-INVERTER 30022 <MODEL AZ	W7X8JS+	09MC08C371	16A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-INVERTER >30022 MODEL AZ	W7X8JS+	98CMCR3004	3022X CONTACTOR 18A	CONTROL PANEL
CSVS	CONTACTOR- INVERTER 36026 <MODEL AZ	W7X8JS+A	09MC08G371	37A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-INVERTER 36026>MODEL AZ	W7X8JS+A	98CMCR3601	CONTACTOR 3626X 32A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER 42 LV <MODEL AZ	W7X8JS+A	09MC08G371	37A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-INVERTER 42 HV <MODEL AZ	W7X8JS+A	09MC08G371	37A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-INVERTER 42 LV >MODEL AZ	W7X8JS+A	98CMCR4201	CONTACTOR 42X LOW VOLT 38A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER 42 HV >MODEL AZ	W7X8JS+A	98CMCR4202	CONTACTOR 42X HIGH VOLT 25A	CONTROL PANEL
CSVS	CONTACTOR-ENABLE INVERTER	W7X8JS+B	09MC08E371	30A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-ENABLE INVERTER	W7X8JS+C	09MC08E371	30A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-VARIABLE SPEED 3626/4226-32	W7X8J3VPA	09MC08G371	37A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-VARIABLE SPEED	W7X8J3VPB	09MC08C371	16A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-VARIABLE SPEED 4840 (HIGH)	W7X8J3VPC	09MC08G371	37A 3P MCS CONT NR 240V5/6	CONTROL PANEL

COMPONENT PARTS LIST

W7X8JPL/2023014N

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT NUMBER</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
CSVS	CONTACTOR-VARIABLE SPEED 4840 (LOW)	W7X8JVP	09MC08N371	72A 3P MCS CONT NR 240V5/6	CONTROL PANEL
EF	>>FUSE OR FUSE HOLDER				
EF1	FUSE-CONTROL CIRCUIT X-BUS	W7X8JS+	09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT Y-BUS	W7X8JS+	09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT Y-BUS	W7X8JS+A	09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EFP1	FUSE-TRANSFORMER PRIMARY	W7X8JLV	09FF005AWN	FUSE #KTK 5A600V=HPS HOLDER	CONTROL PANEL
EFP2	FUSE-TRANSFORMER PRIMARY	W7X8JLV	09FF005AWN	FUSE #KTK 5A600V=HPS HOLDER	CONTROL PANEL
EM	>>ELECTROMAGNET AND SOLENOID				
EMDL	SOLENOID-DOOR UNLOCK	W7X8JS+	09K063C24	DOOR LOCK SOLENOID 24V	DOOR LATCH
EP1	FUSE-CONTROL CIRCUIT X-BUS	W7X8JS+A	09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
ES	>>POWER SUPPLY-ELECTRONIC				
ESPS	POWER SUPPLY-MICROPROCESSOR	W7X8JBW	08PSS3401T	40 WATT POWER SUPPLY TESTED	CONTROL PANEL
ESPS	POWER SUPPLY-MICROPROCESSOR	W7X8JBWA	08PSS3401T	40 WATT POWER SUPPLY TESTED	CONTROL PANEL
ESPS	POWER SUPPLY-PROCESSOR MODEL AZ>	W7X8JBWA	98CMCR3003	POWER SUPPLY 40 WATT X MACHINES	CONTROL PANEL
ET	OVERLOAD-DYNAMIC BRAKE				
ETDB	OVERLOAD-DYNAMIC BRAKE	W7X8JVP	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
ETDB	OVERLOAD-VARIABLE SPEED (HIGH)	W7X8JVP	09FTD0121T	MCS OL RELAY ADJ.RANGE 12-37	CONTROL PANEL
ETDB	OVERLOAD-VARIABLE SPEED (LOW)	W7X8JVP	09FTD0230T	MCS OL RELAY ADJ.RANGE 23-75	CONTROL PANEL
ETVS	OVERLOAD-VARIABLE SPEED 3022	W7X8JVP	09FTD0120T	MCS OL RELAY ADJ.RANGE 12-32	CONTROL PANEL
ETVS	OVERLOAD-VARIABLE SPEED	W7X8JVP	09FTD0121T	MCS OL RELAY ADJ.RANGE 12-37	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD30 LV >MODEL AZ	W7X8JVP	98CMCR3005	3022XOVERLOAD LOW VOLT 12-18A	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD30 HV >MODEL AZ	W7X8JVP	98CMCR3006	3022XOVERLOAD HI VOLT 7-10A	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD36 LV >MODEL AZ	W7X8JVP	98CMCR3602	3626XOVERLOAD LOW VOLT 30-38A	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD36 HV >MODEL AZ	W7X8JVP	98CMCR3603	3626XOVERLOAD HI VOLT 12-18A	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD42 LV >MODEL AZ	W7X8JVP	98CMCR4203	42XOVERLOAD LOW VOLT 30-38A	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD42 HV >MODEL AZ	W7X8JVP	98CMCR4204	42XOVERLOAD HI VOLT 30-38A	CONTROL PANEL
ETVS	OVERLOAD-VARIABLE SPEED	W7X8JVPB	09FTD0120T	MCS OL RELAY ADJ.RANGE 16-24A	CONTROL PANEL
EX	>>TRANSFORMERS				
EXHV	TRANSFORMER-INCOMING VOLT 240VAC	W7X8JLV	MESSAGE EW	SEE EX37-1, -2, OR -3 FOR VOLTAGE	CONTROL PANEL
EXHV-1	TRANSFORMR-208/240VAC 30-42 <MODEL AZ	W7X8JLV	09UB25AT71	AUTOXFMR 208V-230V 250VA	CONTROL PANEL
EXHV-1	TRANSFORMR-208/240VAC 30-42 >MODEL AZ	W7X8JLV	98CMCR0902	AUTOXFMR 208V/230V 250VA	CONTROL PANEL
EXHV-2	TRANSFORMER-380/480V TO 240V	W7X8JLV	09UA025AAB	XFMR 380-480PRI/120-240SEC250V	CONTROL PANEL

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT NUMBER</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
EXHV-3	TRANSFORMER-600V TO 240V	W7X8JLV	09U251AB71	XFMR 600VPR/240VSC-250VA-3%REG	CONTROL PANEL
MT	>>> MOTORS				
MTVP	FAN-INVERTER COOLING	W7X8JS+A	13AF100A71	FAN 92CFM230V/60	CONTROL BOX
MTVP	FAN-INVERTER COOLING	W7X8JS+B	13AF100A71	FAN 92CFM230V/60	CONTROL BOX
MTVP	FAN-INVERTER COOLING	W7X8JS+C	13AF100A71	FAN 92CFM230V/60	CONTROL BOX
MTWE	MOTOR-WASHER	W7X8JVPB	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	BELOW SHELL
MTWE	MOTOR-WASHER	W7X8JVPB	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	BELOW SHELL
MTWE	MOTOR-WASHER	W7X8JVPC	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	BELOW SHELL
MV	>>> MOTOR POWER INVERTERS				
MVDBR	RESISTOR-DYNAMIC BRAKE (3022)	W7X8JVPB	09MV100RES	RESIST 100 OHM 225WATT ADJ	CONTROL PANEL
MVDBR	RESISTOR-DYNAMIC BRAKE (36-42 HIGH)	W7X8JVPB	09MV050REV	RESISTOR 50OHM 225W #FVT200-50	CONTROL PANEL
MVDBR	RESISTOR-DYNAMIC BRAKE (42 LOW)	W7X8JVPB	09MV010REV	RESISTOR 100HM 225W #FVT200-10	CONTROL PANEL
MVDBR	RESISTOR-DYNAMIC BRAKE	W7X8JVPB	09MV100RES	RESIST 100 OHM 225WATT ADJ	CONTROL PANEL
MVDBR	RESISTOR UNIT-DYNAMIC BRAKE (48 LOW)	W7XRJVPC	09MV11DBRL	RESTR UNIT 12.5OHM 900W LOW VL	CONTROL PANEL
MVDBR	RESISTOR UNIT-DYNAMIC BRAKE (48 HIGH)	W7XRJVPC	09MV11DBRH	RESTR UNIT 33OHM 675W HIGH VOLT	CONTROL PANEL
MVINV	INVERTER-VARI SPEED LOW VOLTAGE	W7X8JVPB	MESSAGE EW	SEE BELOW	
MVINV	INVERTER-VARI SPEED LOW VOLTAGE	W7X8JVPB	MESSAGE EW	SEE BELOW	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HIGH VOLTAGE 3022	W7X8JVPB	09MMWB00996	V1000 INVERTER 9.2AMP 460V	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HIGH VOLTAGE 3626	W7X8JVPB	09MMWB01896	V1000 INVERTER 18AMP 460V	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HIGH VOLTAGE 4226	W7X8JVPB	09MMWB02496	V1000 INVERTER 24AMP 460V	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HIGH VOLTAGE 4232	W7X8JVPB	09MMWB02496	V1000 INVERTER 24AMP 460V	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HIGH VOLTAGE 4840	W7X8JVPB	09MMWE03996	GA800 INVERTER 39 AMP 460V	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HIGH VOLTAGE 4840	W7X8JVPB	09MMWC03996	A1000 INVERTER 39 AMP	CONTROL PANEL
MVINV-L	INVERTER-VARI SPEED LOW VOLTAGE 3022	W7X8JVPB	09MMWB01774	V1000 INVERTER 17.5AMP 230V	CONTROL PANEL
MVINV-L	INVERTER-VARI SPEED LOW VOLTAGE 3626	W7X8JVPB	09MMWB03374	V1000 INVERTER 33AMP 230V	CONTROL PANEL
MVINV-L	INVERTER-VARI SPEED LOW VOLTAGE 4226	W7X8JVPB	09MMWB04774	V1000 INVERTER 47AMP 230V	CONTROL PANEL
MVINV-L	INVERTER-VARI SPEED LOW VOLTAGE 4232	W7X8JVPB	09MMWB04774	V1000 INVERTER 47AMP 230V	CONTROL PANEL
MVINV-L	INVERTER-VARI SPEED LOW VOLTAGE 4840	W7X8JVPB	09MMWE07574	GA800 INVERTER 75 AMP 230V	CONTROL PANEL
MVINV-L	INVERTER-VARI SPEED LOW VOLTAGE 4840	W7X8JVPC	09MMWC07574	A1000 INVERTER 75 AMP	CONTROL PANEL
PX	>>> PROX SWITCHES				
PXDO	PROX SWITCH-DOOR FULL OPEN	W7X8JRH	09RPS18CAS	PRXSW QKCO 18M NO-AC SHLD	CONTROL PANEL
PXFDL	PROX SWITCH-FRONT DOWN LEFT	W7X8JRH	09RPS12AAS	PROXSW QD CONN 12M NO-AC SHLD	CONTROL PANEL
PXFDR	PROX SWITCH-FRONT DOWN RIGHT	W7X8JRH	09RPS12AAS	PROXSW QD CONN 12M NO-AC SHLD	CONTROL PANEL

COMPONENT PARTS LIST

W7X8JPL/2023014N

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT NUMBER</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
PXRDL	PROX SWITCH-REAR DOWN LEFT	W7X8JRH	09RPS12AAS	PROXSW QD CONN 12M NO-AC SHLD	CONTROL PANEL
PXRDR	PROX SWITCH-REAR DOWN RIGHT	W7X8JRH	09RPS12AAS	PROXSW QD CONN 12M NO-AC SHLD	CONTROL PANEL
SH	>>SWITCH-HAND OPERATED				
SH01	SWITCH-208/240VAC	W7X8JLV	09N050	TOGSW SPDT NO OFF 10A250V	CONTROL PANEL
SHCW	SWITCH-JOG	W7X8JVPC	09N405M320	SWASS M3W 2NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W7X8JIA	09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W7X8JS+	09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W7X8JS+A	09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W7X8JS+B	09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W7X8JS+C	09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHES	SWITCH-EMERGENCY STOP (OPTIONAL)	W7X8JS+	09N508A	SW ASSY EMER STOP VERSION 3-2POLE	FRONT
SHES	SWITCH-EMERGENCY STOP (OPTIONAL)	W7X8JS+A	09N508A	SW ASSY EMER STOP VERSION 3-2POLE	FRONT
SHES	SWITCH-EMERGENCY STOP (4840)	W7X8JS+B	09N508A	SW ASSY EMER STOP VERSION 3-2POLE	SWITCH PANEL
SHES	SWITCH-EMERGENCY STOP (4840)	W7X8JS+C	09N508A	SW ASSY EMER STOP VERSION 3-2POLE	SWITCH PANEL
SHFR	SWITCH-FRONT/REAR	W7X8JRH	09N405M320	SWASS M3W 2NO	SWITCH PANEL
SHMF	SWITCH-MANUAL FLUSH	W7X8JEV	09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHMF	SWITCH-MANUAL FLUSH	W7X8JEVA	09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHSMA	SWITCH-MASTER SWITCH	W7X8JS+	09N405M220	SWASS M2W 2NO	SWITCH PANEL
SHSMA	SWITCH-MASTER SWITCH	W7X8JS+A	09N405M220	SWASS M2W 2NO	SWITCH PANEL
SHSMA	SWITCH-MASTER SWITCH	W7X8JS+B	09N405M220	SWASS M2W 2NO	SWITCH PANEL
SHSMA	SWITCH-MASTER SWITCH	W7X8JS+C	09N405M220	SWASS M2W 2NO	SWITCH PANEL
SHU	SWITCH-UP/DOWN	W7X8JRH	09N405S320	SWASS M3W 2NO	SWITCH PANEL
SHWCF	SWITCH-FLUSH CHEMICALS	W7X8JCF	09N405PB10	SWASS PBBK 1NO	SIDE OF MACHINE
SHWDO	SWITCH-HYDRAULIC DOOR OPEN/CLOSE	W7X8JHD	09N405S320	SWASS M3W 2NO	SWITCH PANEL
SHWDO	SWITCH-DOOR OPEN/CLOSE	W7X8JS+B	09N405S320	SWASS M3W 2NO	SWITCH PANEL
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
SMD	SWITCH-DOOR INTERLOCK	W7X8JS+A	09R014A	MINI-SW SPDT STAKON #V15G1C26K	DOOR LATCH
SMD	SWITCH-DOOR INTERLOCK	W7X8JS+B	09R014A	MINI-SW SPDT STAKON #V15G1C26K	DOOR LATCH
SMD	SWITCH-DOOR INTERLOCK	W7X8JS+C	09R014A	MINI-SW SPDT STAKON #V15G1C26K	DOOR LATCH
SMDE	SWITCH-DOOR SECONDARY SWITCH	W7X8JS+A	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR LATCH

COMPONENT PARTS LIST

W7X8JPL/2023014N

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT NUMBER</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
SMDE	SWITCH-DOOR SECONDARY SWITCH	W7X8JS+B	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR LATCH
SMDE	SWITCH-DOOR SECONDARY SWITCH	W7X8JS+C	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR LATCH
SME	SWITCH-DOOR IS LOCKED	W7X8JS+	09R010D	DOOR LOCK SWITCH	DOOR LATCH
SMEX	SWITCH-EXCURSION	W7X8J/A	09R008ASTD	09R008A+MOUNTING HDWRE+INST	SIDE OF SHELL
SMWVB	SWITCH-VIBRATION	W7X8J/A	SAE03 151	ASSY-VIBRATION SWT=LG CONTR	CONTROL PANEL
SP	>>>SWITCH-PRESSURE				
SPA	SWITCH-AIR PRESSURE AVAILABLE	W7X8JS+A	09N082A	PRESSW NASON CLOSE @ 62 LB	CONTROL PANEL
SPBP	SWITCH-BEARING SEAL	W7X8J/A	09N082B05	PRESSW NASON CLOSE @ 5 LB	AIR VALVE BOX
SPBS	SWITCH-BRAKE PRESSURE	W7X8J/A	09N082A	PRESSW NASON CLOSE @ 62 LB	AIR VALVE BOX
SPD	SWITCH-DOOR PRESSURE LOW	W7X8JS+A	09N082B10	PRESSW NASON CLOSE @ 10 LB	AIR VALVE BOX
SPD	SWITCH-DOOR PRESSURE LOW	W7X8JS+B	09N082B10	PRESSW NASON CLOSE @ 10 LB	AIR VALVE BOX
SPD	SWITCH-DOOR PRESSURE LOW	W7X8JS+C	09N082B10	PRESSW NASON CLOSE @ 10 LB	AIR VALVE BOX
ST	>>>SWITCH-TEMPERATURE				
STDB	SWITCH-THERMOSTAT DYNAMIC BRAKE	W7X8JS+	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST
STDB	SWITCH-THERMOSTAT DYNAMIC BRAKE	W7X8JS+A	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST
STDB	SWITCH-THERMOSTAT DYNAMIC BRAKE	W7X8JS+B	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST
STDB	SWITCH-THERMOSTAT DYNAMIC BRAKE	W7X8JS+C	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST
VE	>>VALVE-ELECTRIC OPERATED				
VEBP	VALVE-BEARING PRESSURE	W7X8JS+A	96TBC2BA71	1/4" N/C 2WAY 220V50/60C VALVE	VALVE BOX
VEBP	VALVE-BEARING PRESSURE	W7X8JS+B	96TBC2BA71	1/4" N/C 2WAY 220V50/60C VALVE	VALVE BOX
VEBP	VALVE-BEARING PRESSURE	W7X8JS+C	96TBC2BA71	1/4" N/C 2WAY 220V50/60C VALVE	VALVE BOX
VEBR	VALVE-BRAKE RELEASE	W7X8JS+A	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEBR	VALVE-BRAKE RELEASE	W7X8JS+B	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEBR	VALVE-BRAKE RELEASE	W7X8JS+C	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEC01	VALVE-CHEMICAL #1 FLUSH	W7X8JCF	96P013B71	3/4" 2WAYPLASTICVAL 240V60C	5 CMPMT SUPPLY
VEC02	VALVE-CHEMICAL #2 FLUSH	W7X8JCF	96P013B71	3/4" 2WAYPLASTICVAL 240V60C	5 CMPMT SUPPLY
VEC03	VALVE-CHEMICAL #3 FLUSH	W7X8JCF	96P013B71	3/4" 2WAYPLASTICVAL 240V60C	5 CMPMT SUPPLY
VEC04	VALVE-CHEMICAL #4 FLUSH	W7X8JCF	96P013B71	3/4" 2WAYPLASTICVAL 240V60C	5 CMPMT SUPPLY
VEC05	VALVE-CHEMICAL #5 FLUSH	W7X8JCF	96P013B71	3/4" 2WAYPLASTICVAL 240V60C	5 CMPMT SUPPLY
VECD	VALVE-COOLDOWN WATER 30022	W7X8JEV	96P057A71	1/2"NPT X 1/2"ORIFICE 240V 5/6	REAR OF MACH
VECD	VALVE-COOLDOWN WATER 36026	W7X8JEV	96P056A71	3/4" NC 230V50/60 W/LEADS BURK	REAR OF MACH
VECD	VALVE-COOLDOWN WATER 42026&42032	W7X8JEV	96P152A71	1+1/4"NC 240V W/LEADS BURK	REAR OF MACH
VECD	VALVE-COOLDOWN WATER 48040	W7X8JEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX

COMPONENT PARTS LIST

W7X8JPL/2023014N

<u>COMPONENT</u>	<u>FUNCTION OF THIS</u>	<u>WHERE TO FIND</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
<u>NUMBER</u>	<u>COMPONENT NUMBER</u>	<u>THIS COMPONENT</u>			
VEDC	VALVE-COOLDOWN WATER 48040	W7X8JEVA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VED	VALVE-DOWN	W7X8JRH	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEDL	VALVE-DOOR UNLATCH 36+42 <MODEL AZ	W7X8JS+A	96R301B71	1/8" AIRPILOT 3W NC 240V	VALVE BOX
VEDL	VALVE-DOOR UNLATCH 36+42>MODEL AZ	W7X8JS+A	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VEDL	VALVE-DOOR UNLATCH	W7X8JS+B	96R301B71	1/8" AIRPILOT 3W NC 240V	VALVE BOX
VEDL	VALVE-DOOR UNLATCH	W7X8JS+C	96R301B71	1/8" AIRPILOT 3W NC 240V	VALVE BOX
VEDR	VALVE-DRAIN ALL EXCEPT 48040	W7X8JEV	96D350A71	DRINVAL 3"N/O MTRDR240V 50/60C	LOWER REAR
VEDR	VALVE-DRAIN 48040F7J	W7X8JEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEDR	VALVE-DRAIN 48040F7B	W7X8JEVA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEDRR	VALVE-DRAIN TO REUSE ALL EXCEPT 48040	W7X8JEV	96D350B71	DRINVAL 3"N/C MTRDR240V 50/60	LOWER REAR
VEDRR	VALVE-DRAIN TO REUSE 48040F7J	W7X8JEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEDRR	VALVE-DRAIN TO REUSE 48040F7B	W7X8JEVA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEF	VALVE-FRONT	W7X8JRH	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEFL	VALVE-FLUSH-30022	W7X8JEV	96P057A71	1/2"NPT X 1/2"ORIFICE 240V 5/6	REAR OF MACH
VEFL	VALVE-FLUSH-36026,42026, & 42032	W7X8JEV	96P056A71	3/4" NC 230V50/60 W/LEADS BURK	REAR OF MACH
VEFL	VALVE-FLUSH 48040F7J	W7X8JEVA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEFL	VALVE-FLUSH 48040F7B	W7X8JEVA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEFLS	VALVE-FLUSH SOAP	W7X8JEV	96P013G71	3/4" 2WAY PLAS-VAL 240V/60C	SOAP CHUTE
VEFLS	VALVE-FLUSH SOAP	W7X8JEVA	96P013G71	3/4" 2WAY PLAS-VAL 240V/60C	SOAP CHUTE
VEHDC	VALVE-DOOR CLOSED	W7X8JHD	96RH706E71	VLVPARKER 220V50/240V60 7GPM	HYDDRAULIC UNIT
VEHDL	VALVE-TILT DOOR UNLATCH	W7X8JS+B	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEHDO	VALVE-DOOR OPEN	W7X8JHD	96RH706E71	VLVPARKER 220V50/240V60 7GPM	HYDDRAULIC UNIT
VEPPO	VALVE-DOOR SEAL 36+42 <MODEL AZ	W7X8JS+A	96R302B71	1/8" AIRPILOT 3W NO 240V	VALVE BOX
VEPPO	VALVE-DOOR SEAL 36+42 >MODEL AZ	W7X8JS+A	98CMCR3002	PILOT VALVE GANG N.O. X MACHINE	REAR RT LEG
VEPPO	VALVE-DOOR SEAL	W7X8JS+B	96R302B71	1/8" AIRPILOT 3W NO 240V	VALVE BOX
VEPPO	VALVE-DOOR SEAL	W7X8JS+C	96R302B71	1/8" AIRPILOT 3W NO 240V	VALVE BOX
VESTM	VALVE-STEAM-36026,42026&32 <MODEL AZ	W7X8JEV	96P040A71	3/4"STEAMVAL240V50/60C 150PSI	STEAM LINE
VESTM	VALVE-STEAM-36026,42026&32 >MODEL AZ	W7X8JEV	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VESTM	VALVE STEAM 48040F7J	W7X8JEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VESTM	VALVE STEAM 48040F7B	W7X8JEVA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEU	VALVE-UP	W7X8JRH	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEWC	VALVE-COLD WATER 30022	W7X8JEV	96P057A71	1/2"NPT X 1/2"ORIFICE 240V 5/6	REAR OF MACH
VEWC	VALVE-COLD WATER 36026 <MODEL AZ	W7X8JEV	96P056A71	3/4" NC 230V50/60 W/LEADS BURK	REAR OF MACH

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT NUMBER</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
VEWC	VALVE-COLD WATER 36026 >MODEL AZ	W7X8JEV	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VEWC	VALVE-COLD WATER 4226&32 <MODEL AZ	W7X8JEV	96P152A71	1+1/4"NC 240V W/LEADS BURK	REAR OF MACH
VEWC	VALVE-COLD WATER 4226&32 >MODEL AZ	W7X8JEV	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VEWC	VALVE-COLD WATER 48040F7J	W7X8JEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEWC	VALVE-COLD WATER 48040F7B	W7X8JEVA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEWH	VALVE-HOT WATER 30022	W7X8JEV	96P057A71	1/2"NPT X 1/2"ORIFICE 240V 5/6	REAR OF MACH
VEWH	VALVE-HOT WATER 36026 <MODEL AZ	W7X8JEV	96P056A71	3/4" NC 230V50/60 W/LEADS BURK	REAR OF MACH
VEWC	VALVE-HOT WATER 36026 >MODEL AZ	W7X8JEV	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VEWH	VALVE-HOT WATER 4226&32 <MODEL AZ	W7X8JEV	96P152A71	1+1/4"NC 240V W/LEADS BURK	REAR OF MACH
VEWC	VALVE-HOT WATER 4226&32 >MODEL AZ	W7X8JEV	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VEWH	VALVE-HOT WATER 48040F7J	W7X8JEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEWH	VALVE-HOT WATER 48040F7B	W7X8JEVA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEVWX	VALVE-EXTRA WATER 30022	W7X8JEV	96P057A71	1/2"NPT X 1/2"ORIFICE 240V 5/6	REAR OF MACH
VEVWX	VALVE-EXTRA WATER 36026	W7X8JEV	96P056A71	3/4" NC 230V50/60 W/LEADS BURK	REAR OF MACH
VEVWX	VALVE-EXTRA WATER 42026 & 42032	W7X8JEV	96P152A71	1+1/4"NC 240V W/LEADS BURK	REAR OF MACH
VEVWX	VALVE-EXTRA WATER 48040F7J	W7X8JEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEVWX	VALVE-EXTRA WATER 48040F7B	W7X8JEVA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX

PELLERIN MILNOR CORPORATION

LIMITED STANDARD WARRANTY

We warrant to the original purchaser that MILNOR machines including electronic hardware/software (hereafter referred to as "equipment"), will be free from defects in material and workmanship for a period of one year from the date of shipment (unless the time period is specifically extended for certain parts pursuant to a specific MILNOR published extended warranty) from our factory with no operating hour limitation. This warranty is contingent upon the equipment being installed, operated and serviced as specified in the operating manual supplied with the equipment, and operated under normal conditions by competent operators.

Providing we receive written notification of a warranted defect within 30 days of its discovery, we will—at our option—repair or replace the defective part or parts, EX Factory (labor and freight specifically NOT included). We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is repaired or altered in any way without MILNOR's written consent.

Parts damaged by exposure to weather, to aggressive water, or to chemical attack are not covered by this warranty. For parts which require routine replacement due to normal wear—such as gaskets, contact points, brake and clutch linings, belts, hoses, and similar parts—the warranty time period is 90 days.

We reserve the right to make changes in the design and/or construction of our equipment (including purchased components) without obligation to change any equipment previously supplied.

ANY SALE OR FURNISHING OF ANY EQUIPMENT BY MILNOR IS MADE ONLY UPON THE EXPRESS UNDERSTANDING THAT MILNOR MAKES NO EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE OR ANY OTHER WARRANTY IMPLIED BY LAW INCLUDING BUT NOT LIMITED TO REDHIBITION. MILNOR WILL NOT BE RESPONSIBLE FOR ANY COSTS OR DAMAGES ACTUALLY INCURRED OR REQUIRED AS A RESULT OF: THE FAILURE OF ANY OTHER PERSON OR ENTITY TO PERFORM ITS RESPONSIBILITIES, FIRE OR OTHER HAZARD, ACCIDENT, IMPROPER STORAGE, MIS-USE, NEGLIGENCE, POWER OR ENVIRONMENTAL CONTROL MALFUNCTIONS, DAMAGE FROM LIQUIDS, OR ANY OTHER CAUSE BEYOND THE NORMAL RANGE OF USE. REGARDLESS OF HOW CAUSED, IN NO EVENT SHALL MILNOR BE LIABLE FOR SPECIAL, INDIRECT, PUNITIVE, LIQUIDATED, OR CONSEQUENTIAL COSTS OR DAMAGES, OR ANY COSTS OR DAMAGES WHATSOEVER WHICH EXCEED THE PRICE PAID TO MILNOR FOR THE EQUIPMENT IT SELLS OR FURNISHES.

THE PROVISIONS ON THIS PAGE REPRESENT THE ONLY WARRANTY FROM MILNOR AND NO OTHER WARRANTY OR CONDITIONS, STATUTORY OR OTHERWISE, SHALL BE IMPLIED.

WE NEITHER ASSUME, NOR AUTHORIZE ANY EMPLOYEE OR OTHER PERSON TO ASSUME FOR US, ANY OTHER RESPONSIBILITY AND/OR LIABILITY IN CONNECTION WITH THE SALE OR FURNISHING OF OUR EQUIPMENT TO ANY BUYER.

BMP720097/19036

How to Get the Necessary Repair Components



This document uses Simplified Technical English.
Learn more at <http://www.asd-ste100.org>.

You can get components to repair your machine from the approved supplier where you got this machine. Your supplier will usually have the necessary components in stock. You can also get components from the Milnor® factory.

Tell the supplier the machine model and serial number and this data for each necessary component:

- The component number from this manual
- The component name if known
- The necessary quantity
- The necessary transportation requirements
- If the component is an electrical component, give the schematic number if known.
- If the component is a motor or an electrical control, give the nameplate data from the used component.

To write to the Milnor factory:

Pellerin Milnor Corporation
Post Office Box 400
Kenner, LA 70063-0400
UNITED STATES

Telephone: 504-467-2787
Fax: 504-469-9777
Email: parts@milnor.com

— End of BIUUUD19 —

BIUUUK01 (Published) Book specs- Dates: 20130308 / 20130308 / 20130308 Lang: ENG01 Applic: PCR UUU

How to Use Milnor® Electrical Schematic Diagrams

Milnor® electrical schematic manuals contain a table of contents/component list and a set of schematic drawings. These documents are cross referenced and must be used together.

The table of contents/components list shows, for every component on every schematic in the manual, the component item number (explained in detail below), statement of function, parent schematic number, part number, description and electric box location. In older manuals, two component lists are provided: List 1 sorts the components by function, and List 2 by type of component. Newer schematic manuals include only the list sorted by component number.

The schematic drawings use symbols for each electromechanical component, and indicate the function of each. Integrated circuits are not shown, but the function of each microprocessor input and output is stated. Certain electrical components not pertinent to circuit logic, such as wire connectors, are not represented on the schematic.

Most machines require several schematics to describe the complete control system and all the options available on the included models. In most manuals there are some schematic pages that don't apply to your specific machine because certain options and configurations are mutually exclusive or are not necessary in all markets. You may find it helpful to mark or remove such pages. A schematic page that only applies to a subset of machines will normally state, in the title, which models and/or options it covers. Compare this with the nameplate on your machine and with your purchase records.

Each schematic is devoted to circuits with common functions (e.g., microprocessor inputs, motor contactors). Schematics appear in the manual in alphanumeric order.

1. Component Prefix Classifications and Descriptions

Component item numbers consist of up to six characters and appear as part of a component's symbol on the schematic. The first two characters indicate the general class of component, and the remaining characters are a mnemonic for the function. For example, "CD" is the code for all time delay relays, and "SR" stands for safety reset. Thus, CDSR is a time delay relay that serves as a safety reset.

The following are descriptions of electrical components used in Milnor® machines. Descriptions are in alphabetical order by the component class code (two character prefix).

Note 1: Some component class codes do not have a corresponding symbol, but are represented by a box and an accompanying note describing the component. Examples of such codes are BA (printed circuit board), ED (electronic display), and ES (electronic power supply).

BA=Printed Circuit Board—Insulating substrate on which a thin pattern of copper conductors has been formed to connect discrete electronic components also mounted on the board.

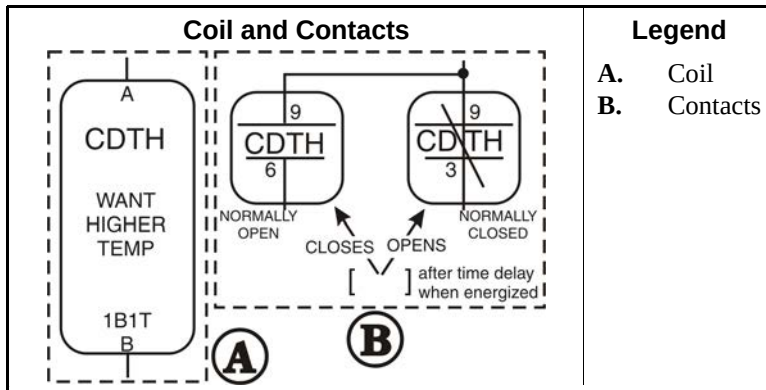
CB=Circuit Breaker (Figure 1)—Automatic switch that opens an electric circuit in abnormal current conditions (e.g., an overload).

Figure 1: Circuit Breaker (CB)



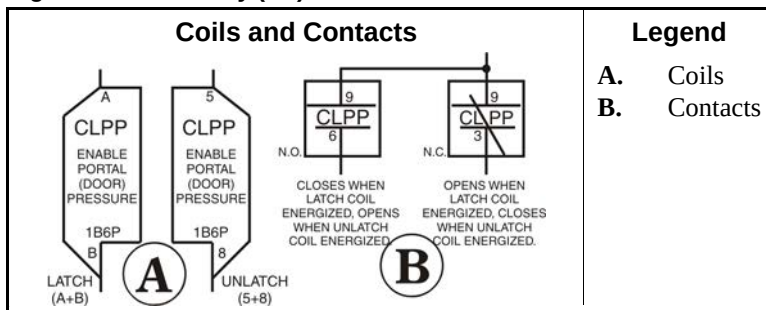
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



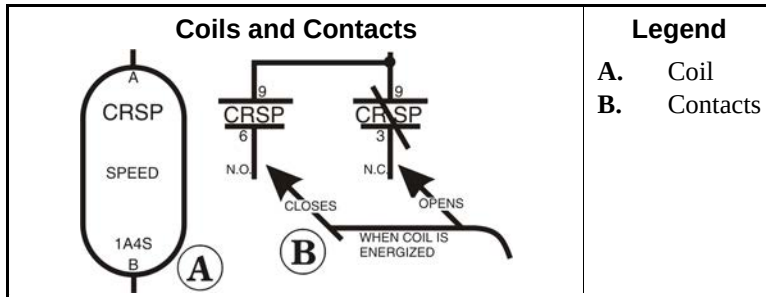
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



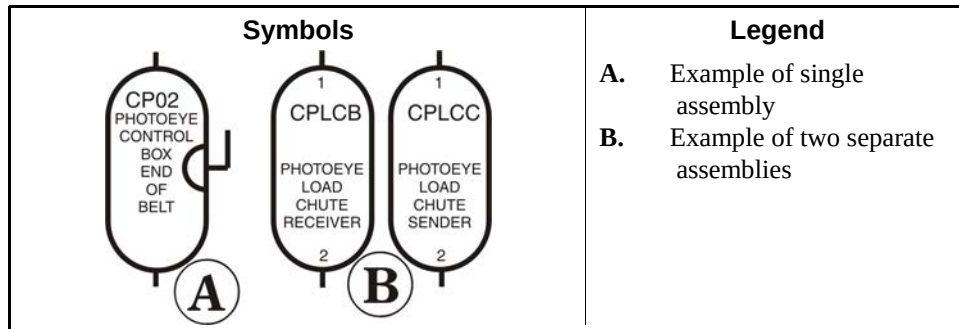
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



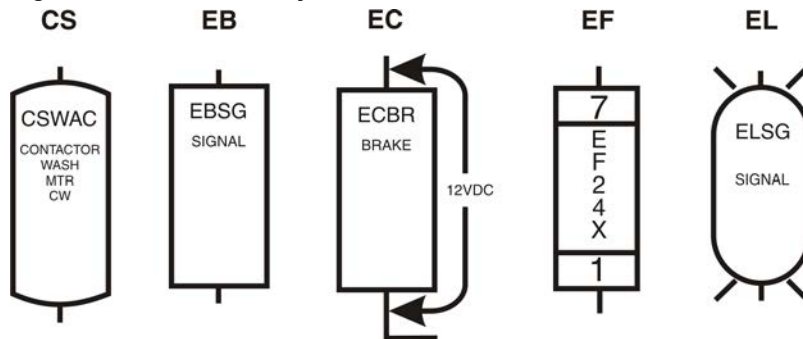
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these components can be housed in two separate assemblies with the transmitter pointed directly at the receiver. The photo-eye can be set to turn on its output either when the light beam becomes blocked (dark operate) or when it becomes un-blocked (light operate).

Figure 5: Photo-eye (CP)



CS=Control, Contactor/Motor Starter (Figure 6)—A relay capable of handling heavier electrical loads, usually a motor.

Figure 6: Other Control Symbols



EB=Electric Buzzer (Figure 6)—An audible signaling device.

EC=Electric Clutch (Figure 6)—A clutch consists of a coil and a rotor. The rotor has two separate rotating plates. These plates are free to rotate independent of each other until the coil is energized. Once energized the two plates turn as one.

ED=Electronic Display—A visual presentation of data, such as an LCD (liquid crystal display), LED (light emitting diode) display, or VFD (vacuum florescent display).

EF=Electric Fuse (Figure 6)—A fuse is an over-current safety device with a circuit opening fusible member which is heated and severed by the passage of over-current through it.

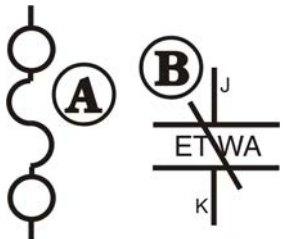
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

EM=Electro Magnet Solenoid—A device consisting of a core surrounded by a wire coil through which an electric current is passed. While current is flowing, iron is attracted to the core (e.g., a pinch tube drain valve solenoid).

ES=Electronic Power Supply—A device that converts AC (alternating current) to filtered and regulated DC (direct current). The input voltage to the power supply is usually 120 or 240 VAC. The output is +5, +12, and -12 VDC.

ET=Thermal Overload (Figure 7)—A safety device designed to protect a motor. A thermal overload consists of an overload block, heaters, and an auxiliary contact. The auxiliary contact is normally installed in a safety (three-wire) circuit that stops power to the motor contactor coil when a motor overload occurs.

Figure 7: Thermal Overload (ET)

Schematic Symbol	Legend
	A. Heater (one per phase) B. Overload relay; contacts open if overload condition exists

EX=Electrical Transformer (Figure 8)—A device that transfers electrical energy from one isolated circuit to another, often raising or lowering the voltage in the process.

KB=Keyboard—Device similar to a typewriter for making entries to a computer.

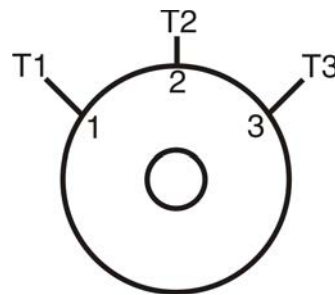
MN=Electronic Monitor (CRT)—A cathode ray tube used for visual presentation of data.

MR=Motors (Figure 9)—Electromechanical device that converts electrical energy into mechanical energy.

Figure 8: Transformer (EX)



Figure 9: Electric Motor (MR)

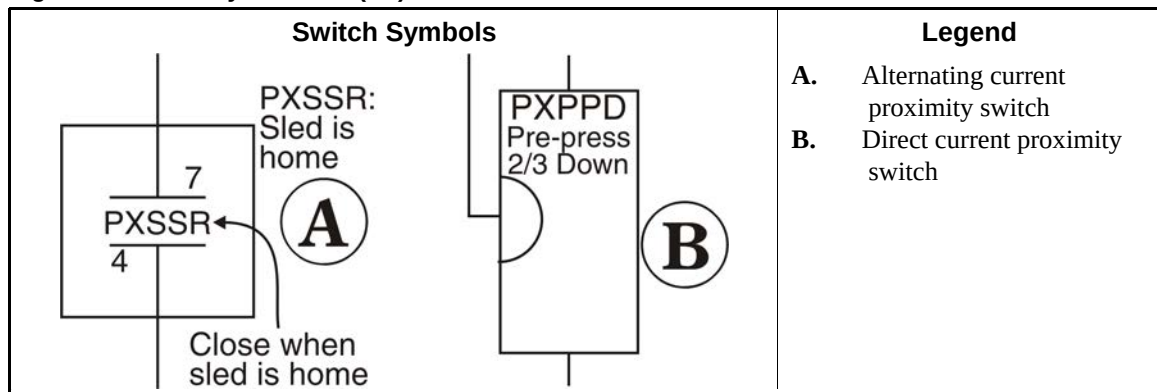


MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the proper voltage and frequency for the commanded speed.

Note 2: Switch symbols used in the schematics and described below always depict the switch in its un-actuated state.

PX=Proximity Switch (Figure 10)—A device which reacts to the proximity of a target without physical contact or connection. The actuator or target causes a change in the inductance of the proximity switch which causes the switch to operate. Proximity switches can be two-wire (AC) or three-wire (DC) devices.

Figure 10: Proximity Switches (PX)



SC=Switch, Cam Operated (Figure 11)—A switch in which the electrical contacts are opened and/or closed by the mechanical action of a cam(s). Applications include 35-50 pound timer operated machines, Autospot, timer reversing motor assembly, and some balancing systems.

SH=Switch, Hand Operated (Figure 12)—A switch that is manually operated (e.g., *Start button*, *Master switch*, etc.).

Figure 11: Cam Switch (SC)

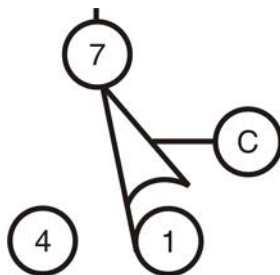
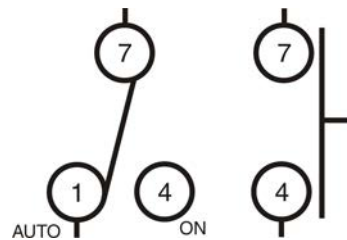


Figure 12: Hand Operated Switch (SH)



SK=Switch, Key Lock (Figure 13)—A switch that requires a key to operate. This prevents unauthorized personnel from gaining access to certain functions (e.g., the *Program menu*).

SL=Switch, Level Operated (Figure 14)—A switch connected to a float that causes the switch to open and close as the level changes.

Figure 13: Key Switch (SK)

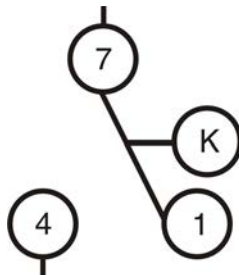
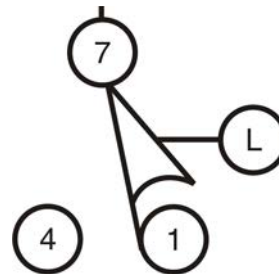


Figure 14: Level Switch (SL)



SM=Switch, Mechanically Operated (Figure 15)—A switch that is mechanically operated by a part of or the motion of the machine (e.g., door closed switch, tilt limit switches, etc.)

SP=Switch, Pressure Operated (Figure 16)—A switch in which a diaphragm presses against a switch actuator.

Figure 15: Mechanical Switch (SM)

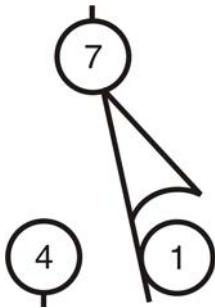
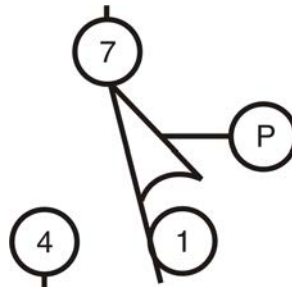


Figure 16: Pressure Switch (SP)



ST=Switch, Temperature Operated (Figure 17)—A switch that is actuated at a preset temperature (e.g., dryer safety probes) or has adjustable set points (e.g., Motometers or Combistats).

TB=Terminal Board (Figure 18)—A strip or block for attaching or terminating wires.

Figure 17: Temperature Switch (ST)

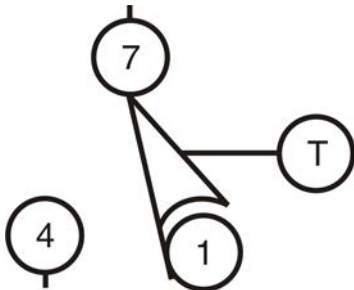
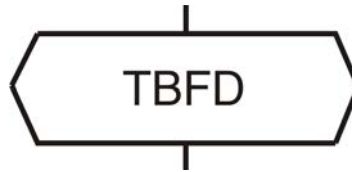


Figure 18: Terminal Board (TB)



VE=Valve, Electric Operated (Figure 19)—A valve operated by an electric coil to control the flow of fluid. The fluid can be air, water or hydraulic.

Figure 19: Electrically Operated Valve (VE)



ZF=Rectifier (Figure 20)—A solid state device that converts alternating current to direct current.

Figure 20: Bridge Rectifier (ZF)

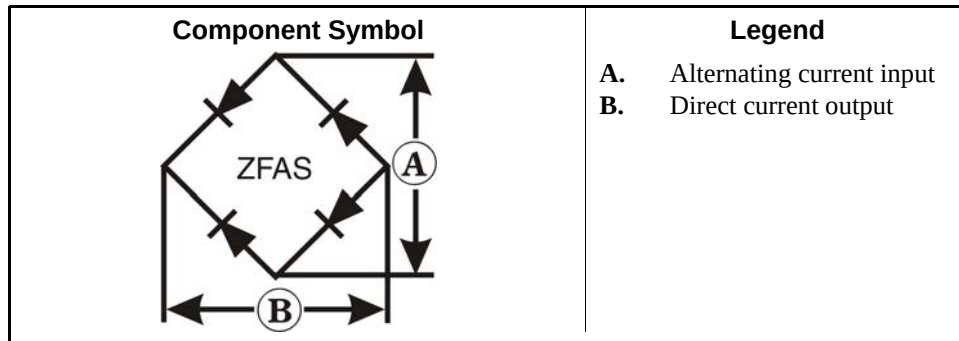
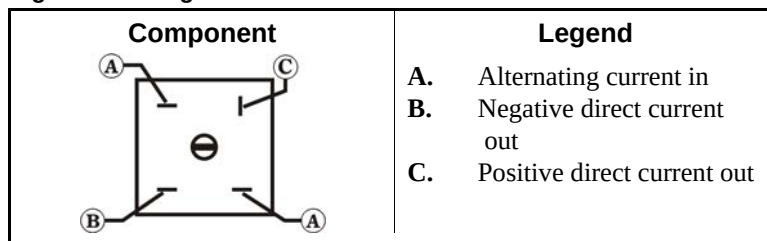


Figure 21: Bridge Rectifier



WC=Wiring Connector—A coupling device for joining two cables or connecting a cable to an electronic circuit or piece of equipment. Connectors are male or female, according to whether they plug into or receive the mating connector.

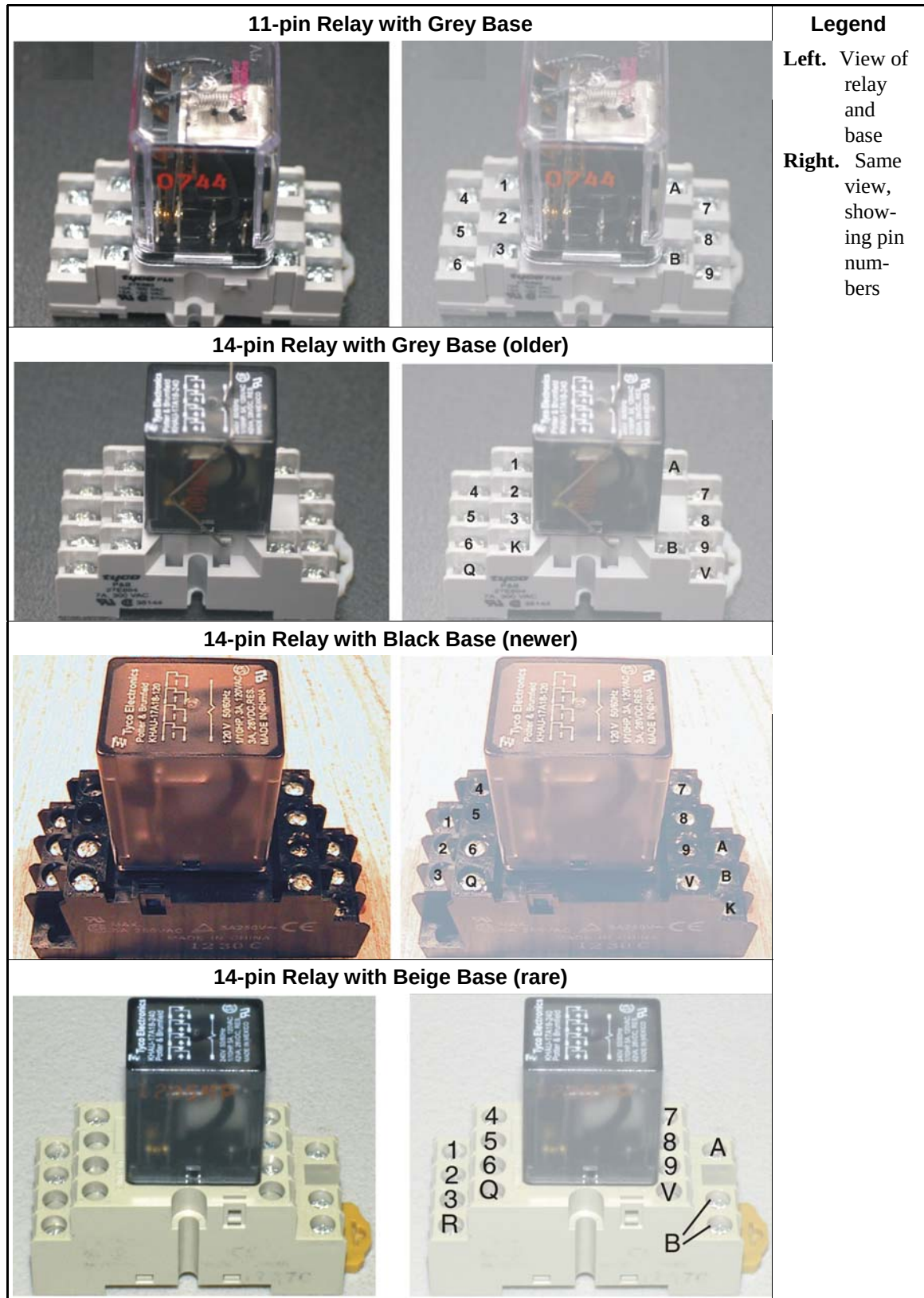
2. Component Terminal Numbering



CAUTION 1: Risk of Mis-wiring—Due to electrical component manufacturing inconsistencies, the pin numbers imprinted on components such as connectors and relay bases used on Milnor machines often do not correspond to the pin numbers shown in the schematics.

- Ignore pin numbers imprinted on in-line connectors (e.g., Molex connectors) and relay bases.
- Use the pin identification illustrations herein to identify pins on these components.

Figure 22: Plug-in Relays



Note 3: Relay functional names ending with the letter "M" (e.g., CRxxM) are not discrete components but are a component of a printed circuit board. They are usually not individually replaceable.

Figure 23: AMP Connector Pin Locations

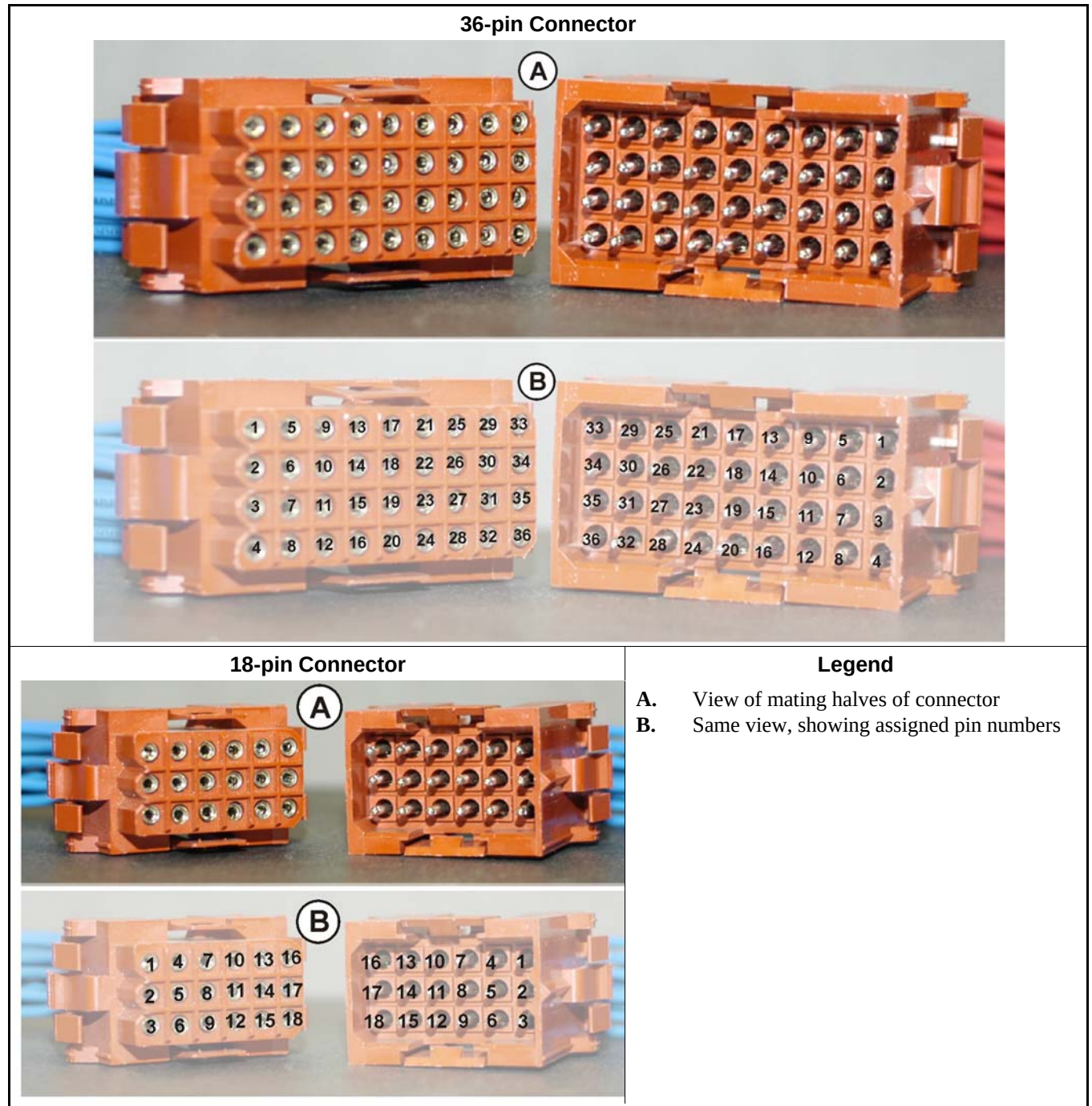


Figure 24: Molex Connector Pin Locations

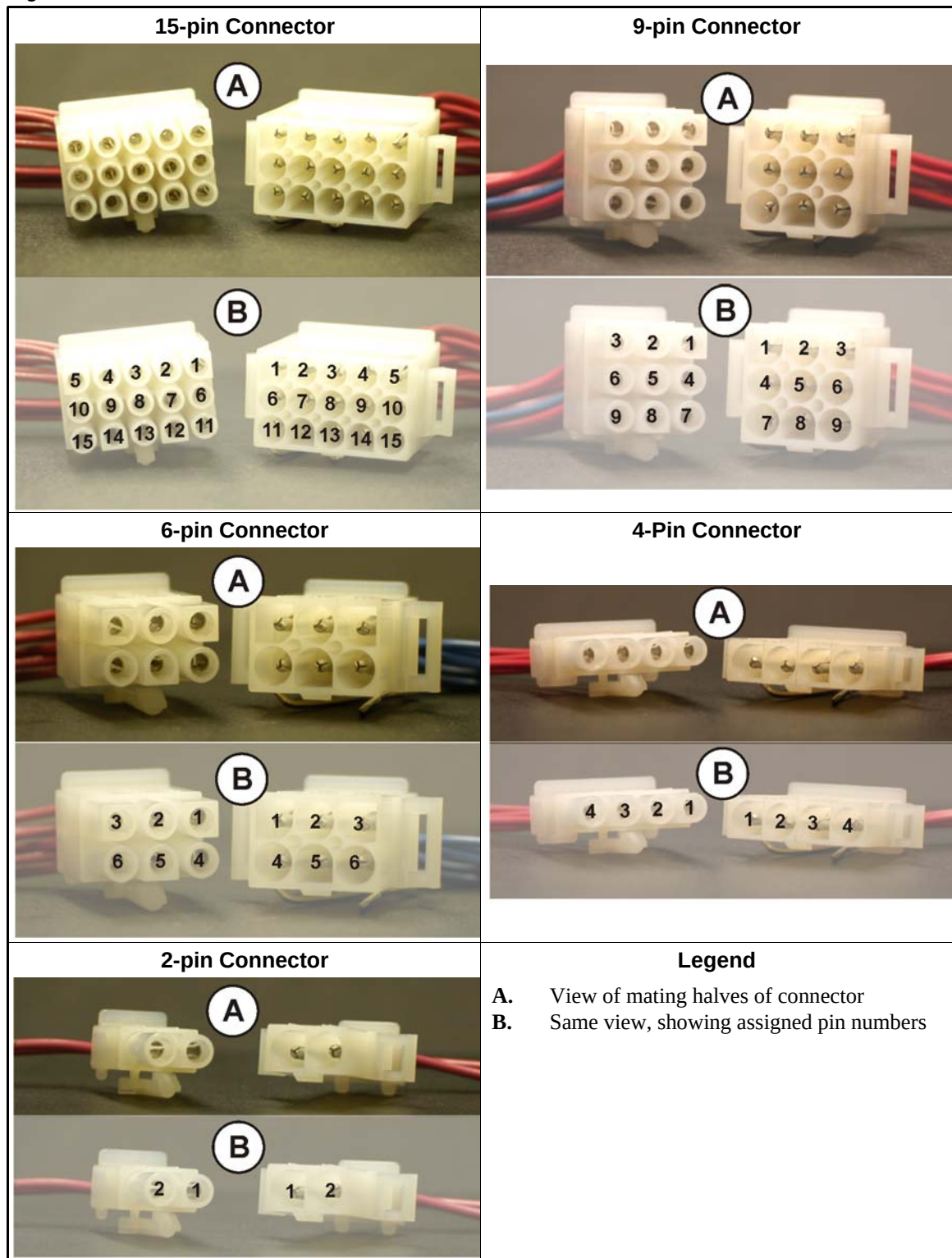


Figure 25: Pressure Switch

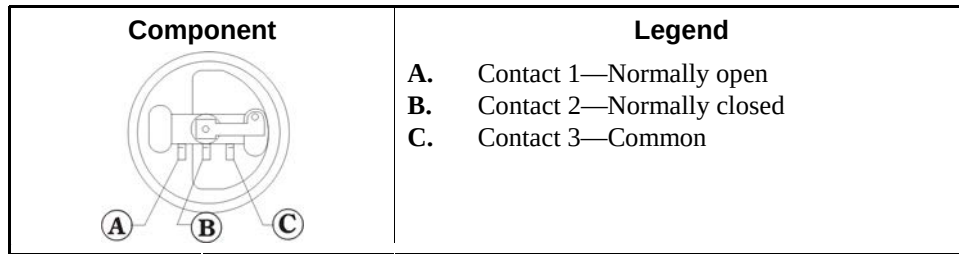


Figure 26: Toggle Switch

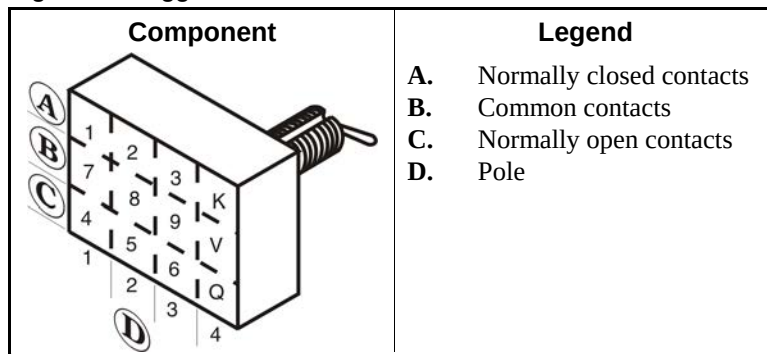
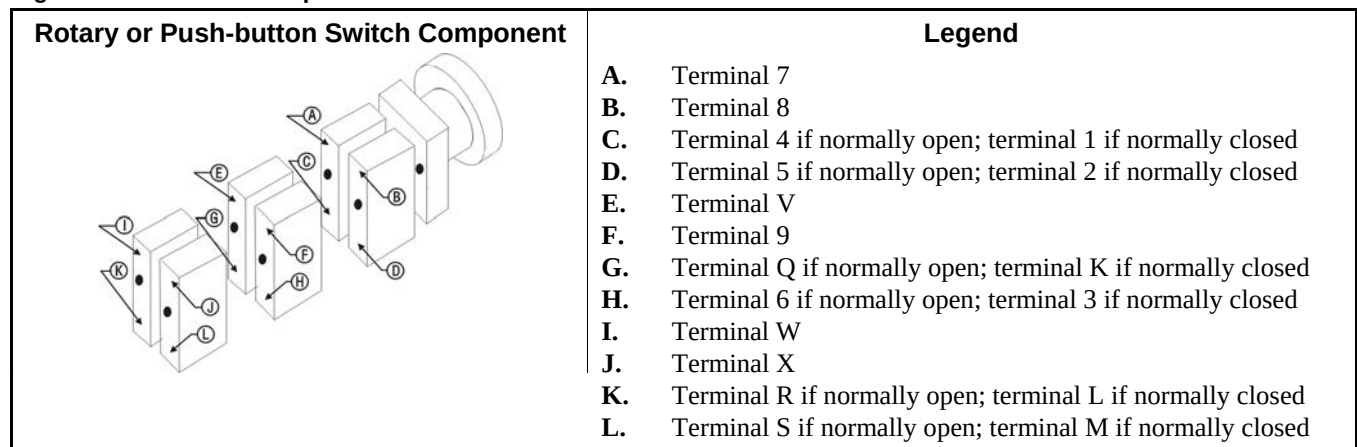


Figure 27: Switch with Replaceable Contact Blocks



3. Features of Milnor® Electrical Schematic Diagrams

Document BMP010012 (following this section) is a sample schematic, based on a schematic diagram for the Milnor® gas dryer. For the purposes of this exercise, the schematic is shown gray and explanations of the items on the schematic are shown black.

The item numbers below correspond to the circled item numbers shown on the drawing.

1. The first six characters of the drawing number (W6DRYG) indicate that this is a wiring diagram (W), identify the generation of controls (6), and identify the type of machine (DRYG=Gas Dryer). These characters appear in the drawing number of every schematic in the set.

The characters following the first six are unique to each drawing. The two characters identified as the page number are an abbreviation for the function performed by the depicted

circuitry (S+=three-wire circuit) and establish the order in which the schematic occurs in the manual (schematics are arranged in alpha-numeric order in the manual).

Whenever circuitry changes are significant enough to warrant publishing a new schematic drawing, the new drawing number will be the same as the old except for the major revision letter (A in the example).

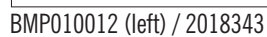
2. Included in the drawing title are the class of control system, the title of this circuit, and the circuit voltage.
3. Line numbers are provided along the bottom edge of the drawing. These permit service personnel in the field and at the Milnor® factory to quickly relate circuit locations when discussing troubleshooting over the phone. Page and line numbers are referenced on the drawing as explained in items five and six below.
4. Relay contacts show the page and line number on which the relay coil may be found. This is the type of cross referencing most frequently used in troubleshooting.
5. Relay coils show the page and line number on which its associated contacts are located.
6. Relay contacts and relay coils show the physical location of the relay.
7. The designation MTA applies to electronic circuit board connections. Typically, a control system will contain several different types of circuit boards and one or more boards of each type. A numerical suffix identifies the board type and a numerical prefix identifies which one of several boards of a given type is being depicted. For example, the designation 1MTA5 identifies this as the first I/O board (8 output, 16 input board) in the control system. As shown on the drawing, a pin number follows the board number, separated by a dash. Thus, 1MTA5-9 is pin 9 on this board. The numerical designations for board types vary from one control system to another. Some of the board types commonly encountered on the Mark V and Mark VI washer-extractor control and their designations are as follows:
 - MTM1-MTM8 = Mother board
 - MTA1-MTA5 = 8 output, 16 input (8/16) boards
 - MTA11-MTA14 = 24 output boards
 - MTA30-MTA40 = processor boards
 - MTA41-MTA43 = digital to analog (D/A) boards
 - MTA51-MTA55 = analog to digital (A/D) boards
 - MTA81-MTA85 = balance A-D board

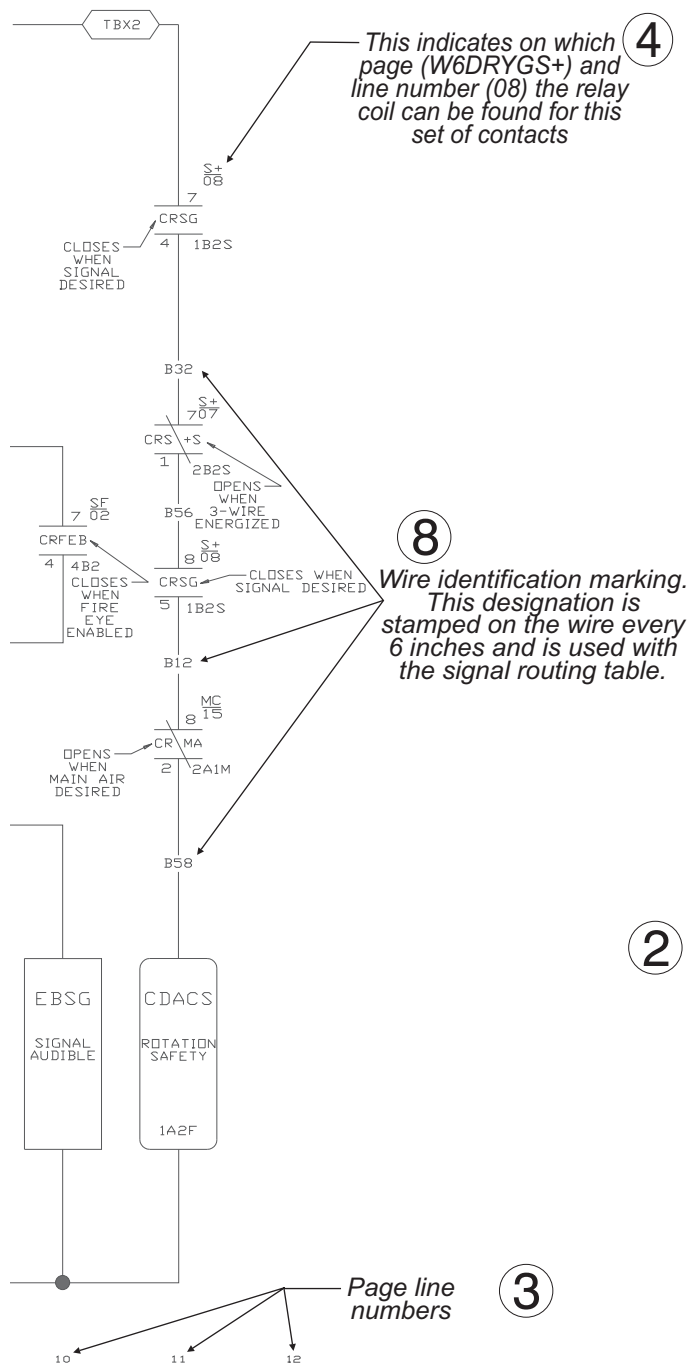
The complete listing of the boards utilized in a given control system can be found in the component list for that system.

8. Wire numbers, as described earlier in this section, are shown at appropriate locations on the schematic drawing.
9. Where diamond symbols appear at the end of a conductor, these are match points for continuing the schematic on another drawing. The page and line number that continues the circuit is printed adjacent to the diamond symbol. Where more than one match point appears on the referenced page, match diamonds containing corresponding letters.

— End of BIUUUK01 —

This page intentionally left blank.





Major revision (letter)

1 Page number (S+)

Machine type (Gas fired dryer)

6th generation of controls

W = Wiring

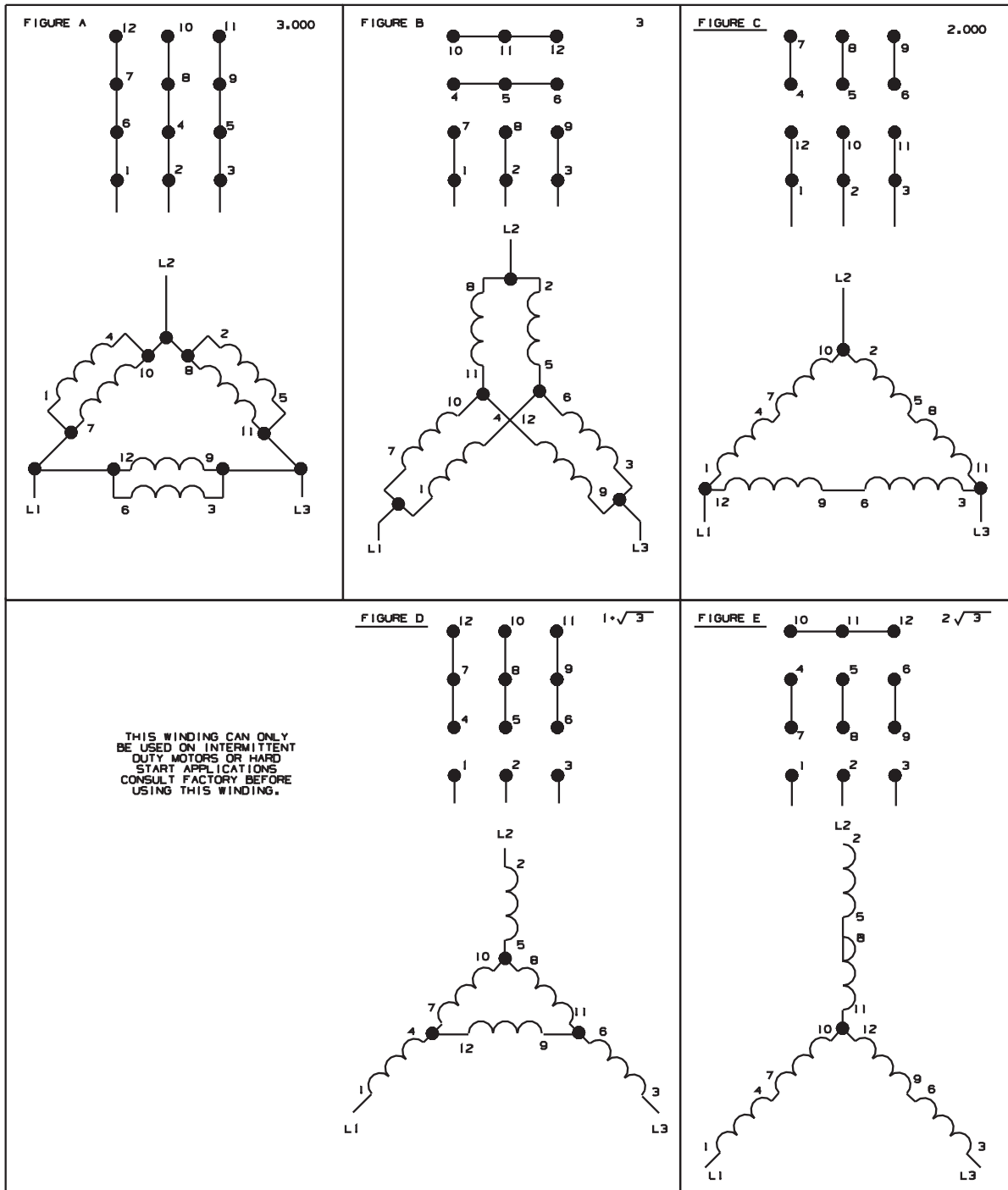
Class of control system

Title of this circuit
Voltage of this circuit

NOTES:

1. TBL IS LOCATED IN LEFT CONTROL BOX.
2. TBA IS LOCATED IN RIGHT CONTROL BOX.
3. TBX IS LOCATED IN LEFT CONTROL BOX.
4. 1MTA5 IS LOCATED ON BID1 (8 OUTPUT-16 INPUT BOARD).
5. REMOVE (J1) IF DRYER HAS VALVE SET SHUT OPTION.

FIGURE	ELECTRICAL VALUES	SUFFIXES							
		B		H		M		T	
		50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ
A	1,000	208	230			200	220	220	240
B	$\sqrt{3}$			208	240	346	380	380	
C	2,000	416	460	220	240	400	440	440	480
D	$1 + \sqrt{3}$						600		
E	$2\sqrt{3}$			380					



06

07

08

09

10

11

12

13

14

15

16

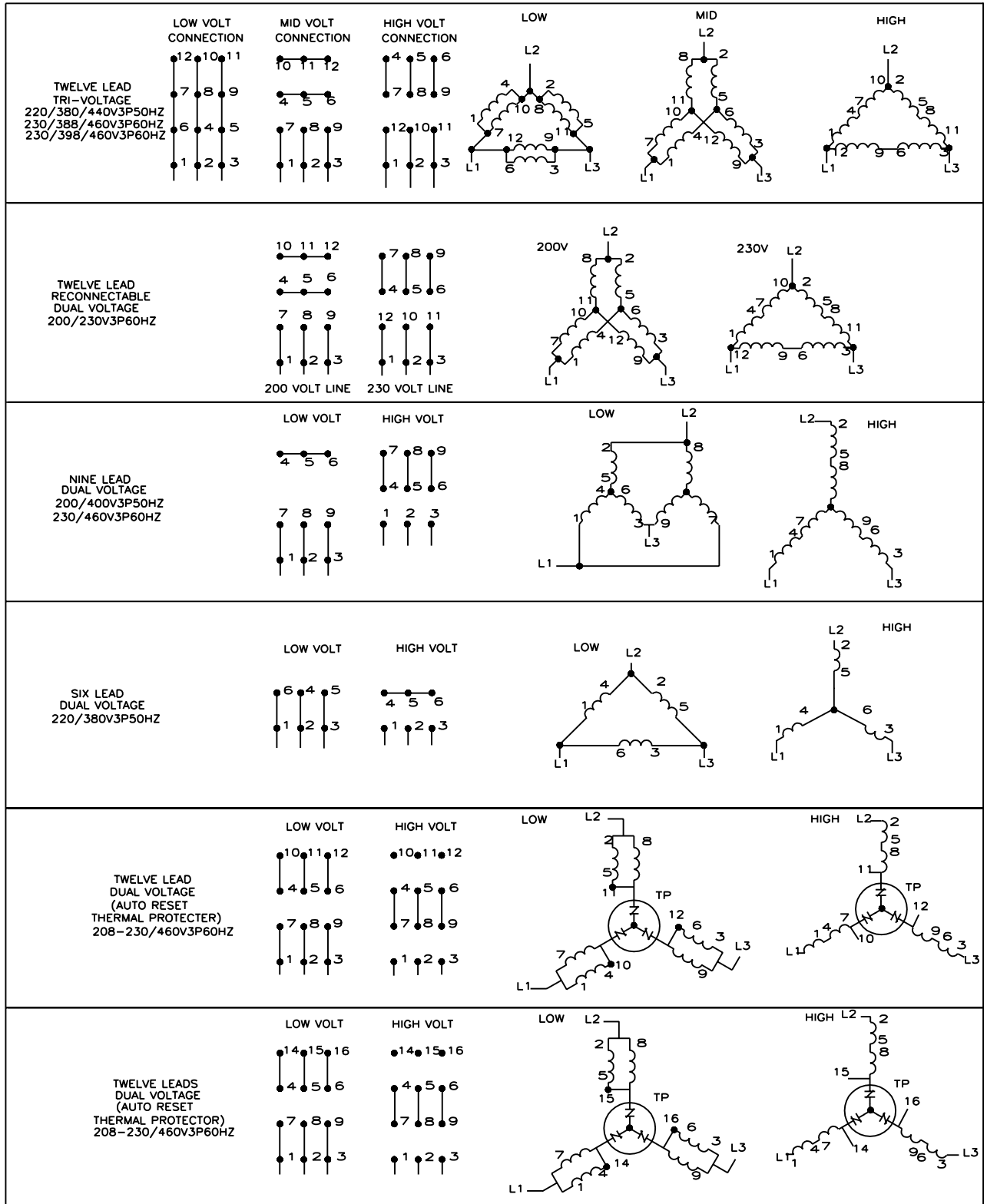
17

BMP850029

MOTOR CONNECTION DIAGRAMS

THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
(ONLY FOR MOTOR SUFFIXES LISTED)

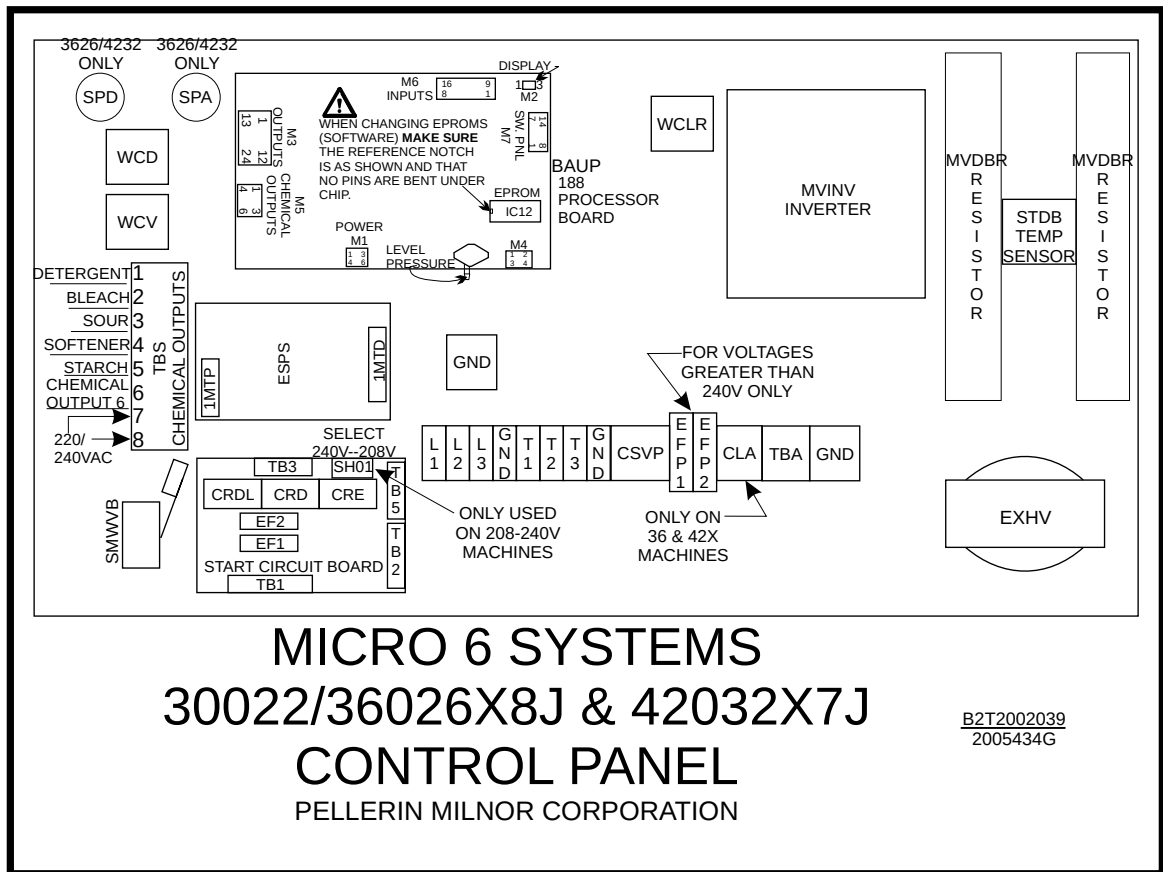
PELLERIN MILNOR CORPORATION



W80008

THREE PHASE
MOTOR CONNECTION DIAGRAMS
SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
PELLERIN MILNOR CORPORATION

W80008
2001253A



MICRO 6 SYSTEMS

30022/36026X8J & 42032X7J

CONTROL PANEL

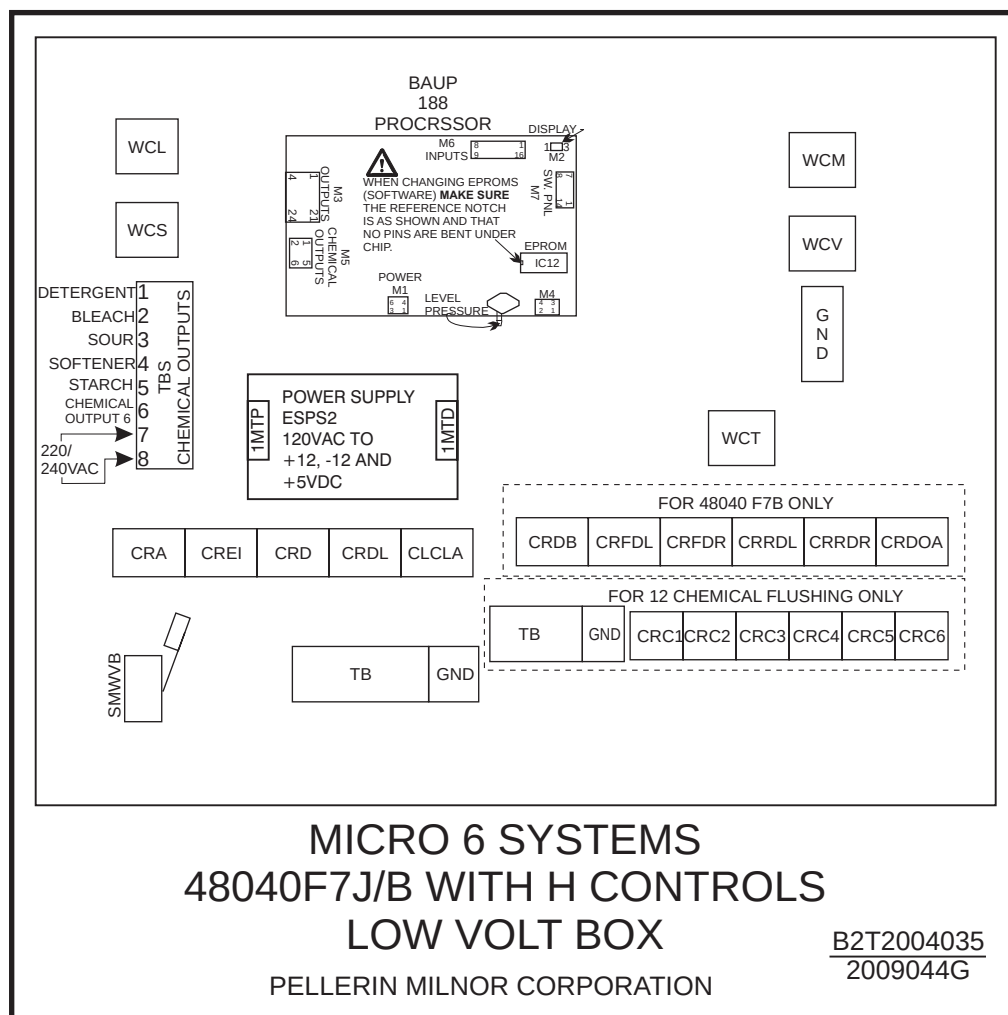
PELLERIN MILNOR CORPORATION

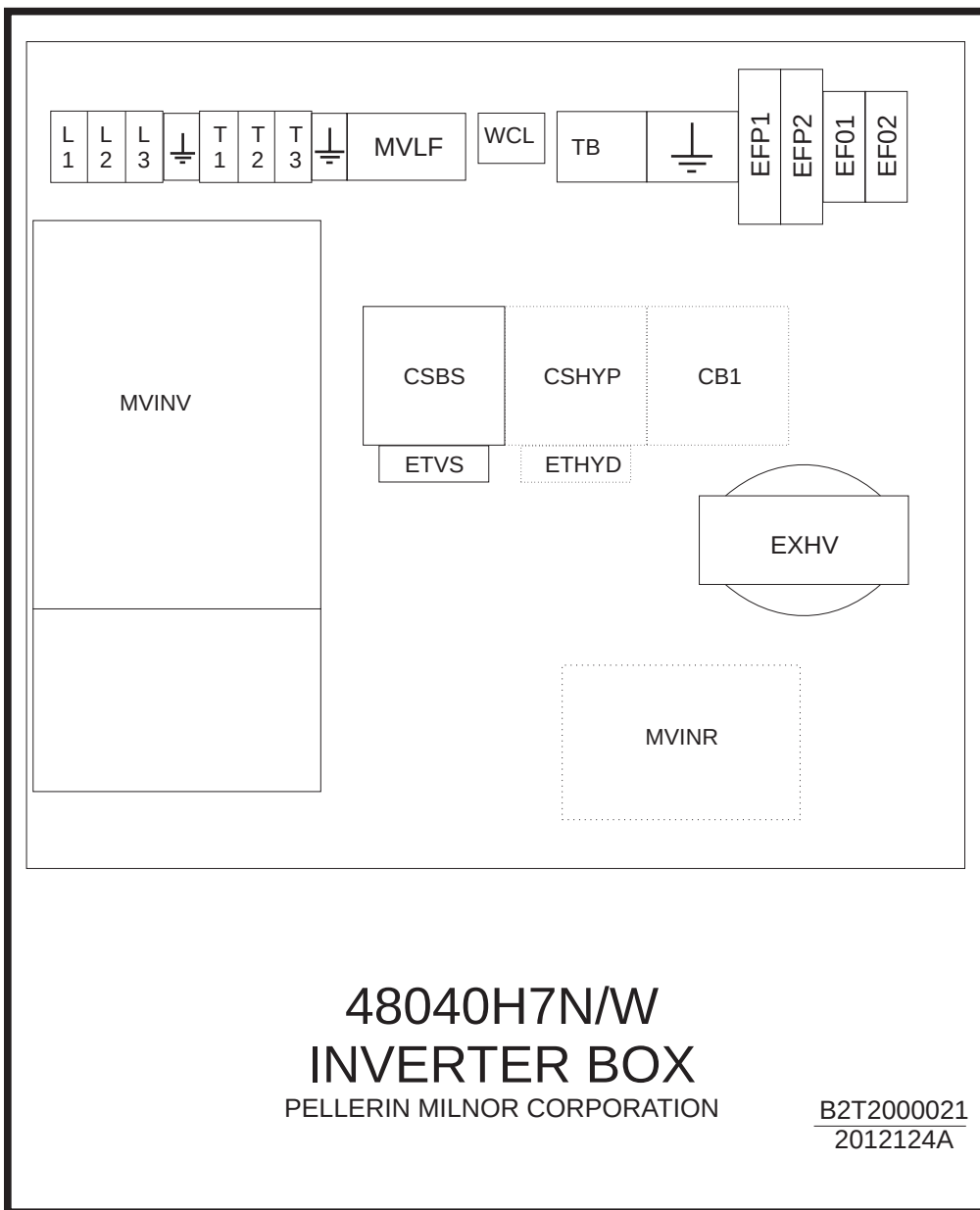
B2T2002039
2005434G

W7X8JTG1
30022,3626X8J, 4226,4232X7J
CONTROL BOX LAYOUTS
PELLERIN MILNOR CORPORATION

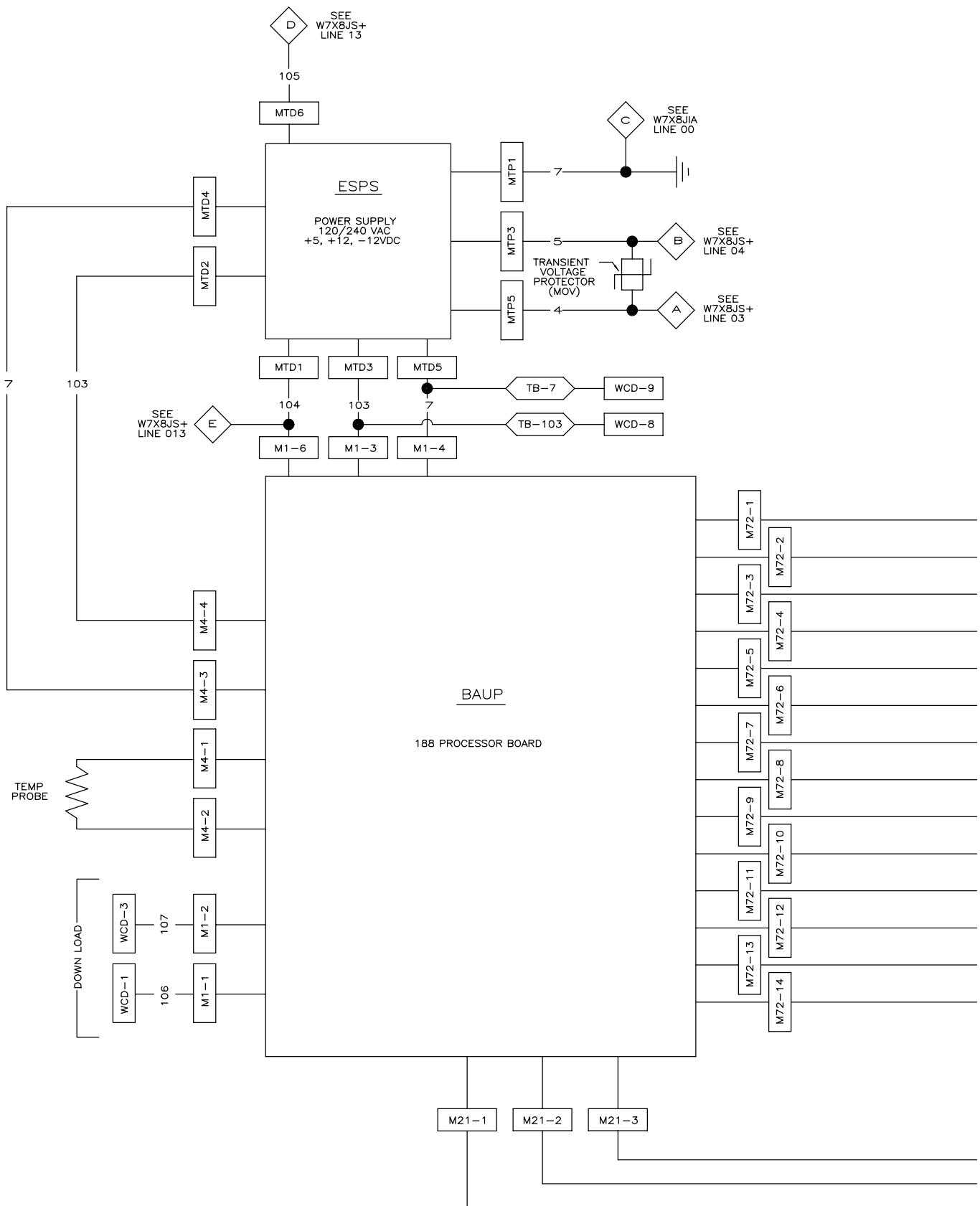
W7X8JTG1
2006393B

W7X8JTG1
2006393B





W7X8JTG2
48040F7J/F7B
CONTROL BOX LAYOUTS
PELLERIN MILNOR CORPORATION



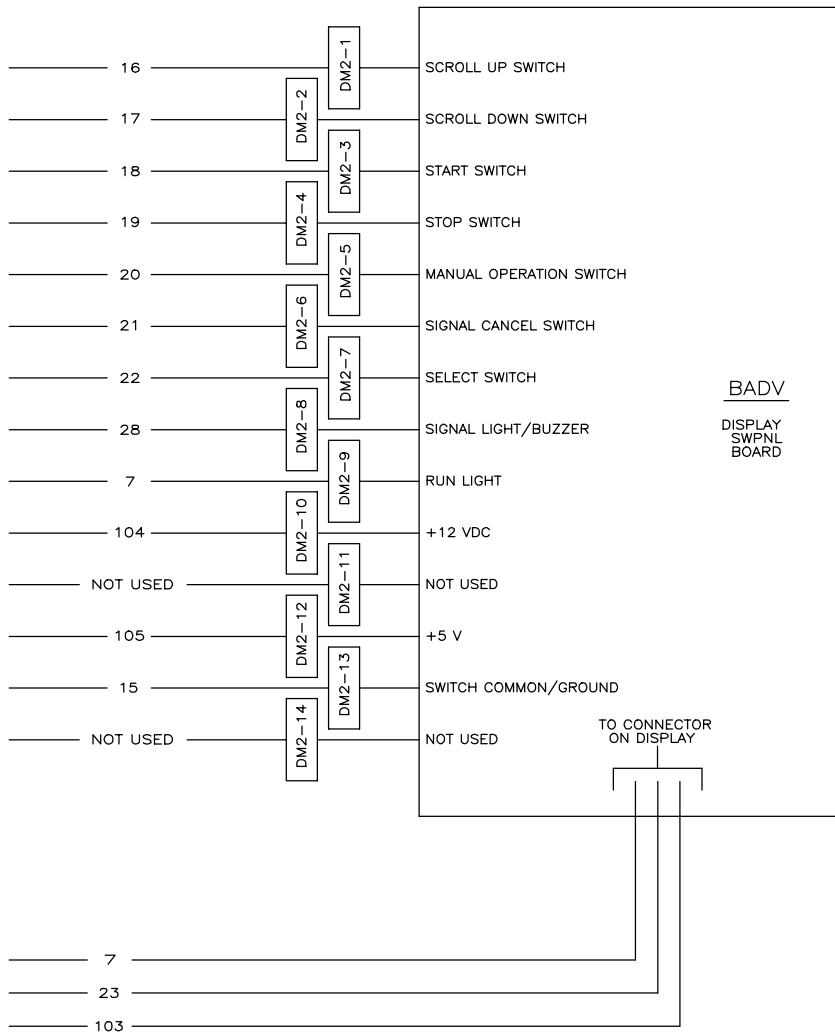
00 01 02 03 04 05 06 07 08 09

WIRE COLOR CODE

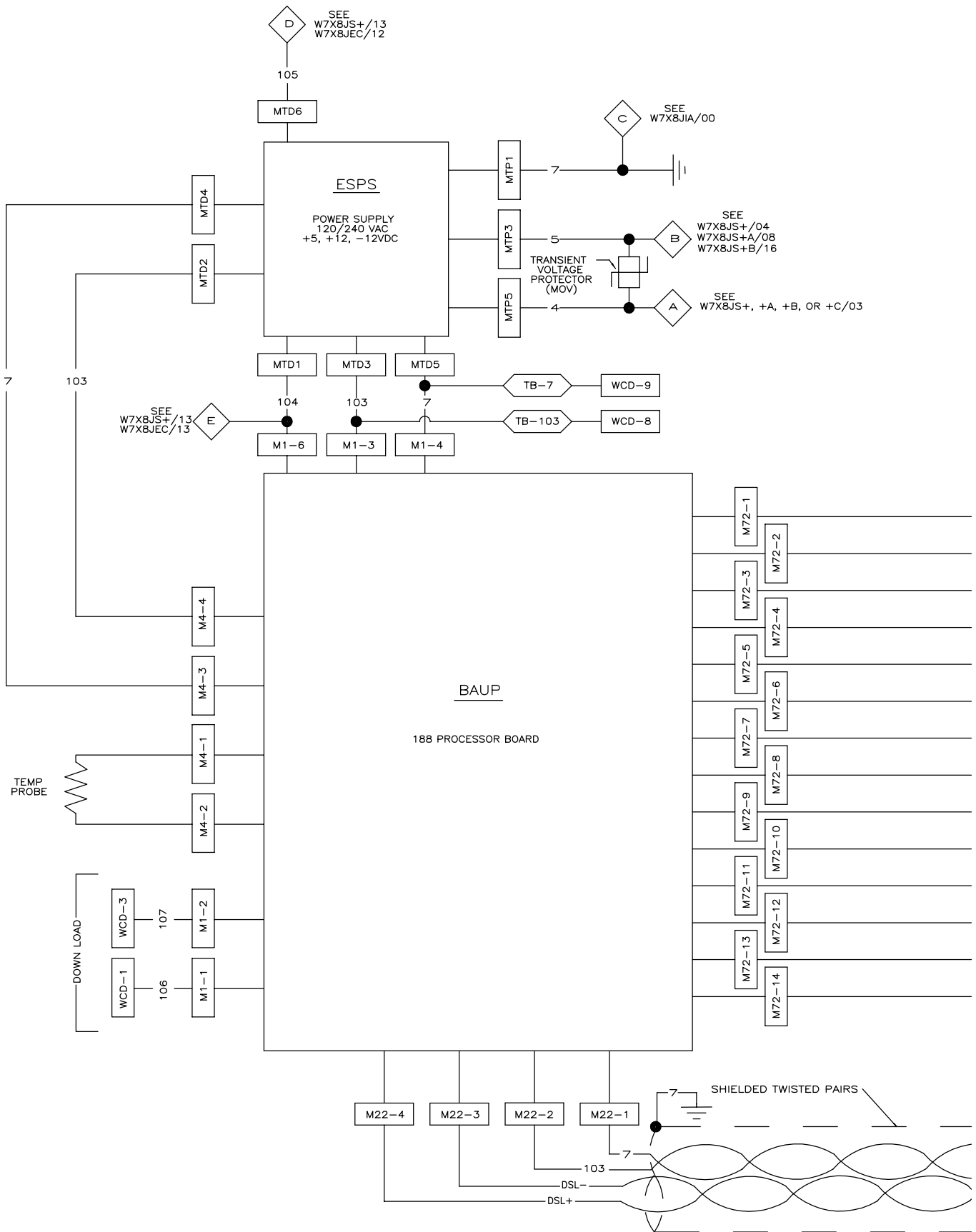
WIRE COLOR	APPLICATION
RED	A.C. CONTROL
RED/WHITE	A.C. COMMON
BLUE	+5 VDC
BLUE/ORANGE -103	+12VDC
BLUE/BLACK -104	-12VDC
BLUE/WHITE -105	GROUND
YELLOW/GREEN	D.C. GROUND
BLUE/WHITE -7	D.C. CONTROL SIGNALS
BLUE/BLACK	

NOTES

1. M1, M2, M4, AND M72 ARE LOCATED ON BAUP 188 PROCESSOR BOARD.
2. DM2 IS LOCATED ON BADV DISPLAY SWPNL BOARD.
3. WCD IS THE DOWNLOAD CONNECTOR LOCATED ON THE REAR CONTROL PANEL.



W7X8JBW MICRO 7 SYSTEMS SCHEMATIC: BOARD TO BOARD WIRING PELLERIN MILNOR CORPORATION



00

01

02

03

04

05

06

07

08

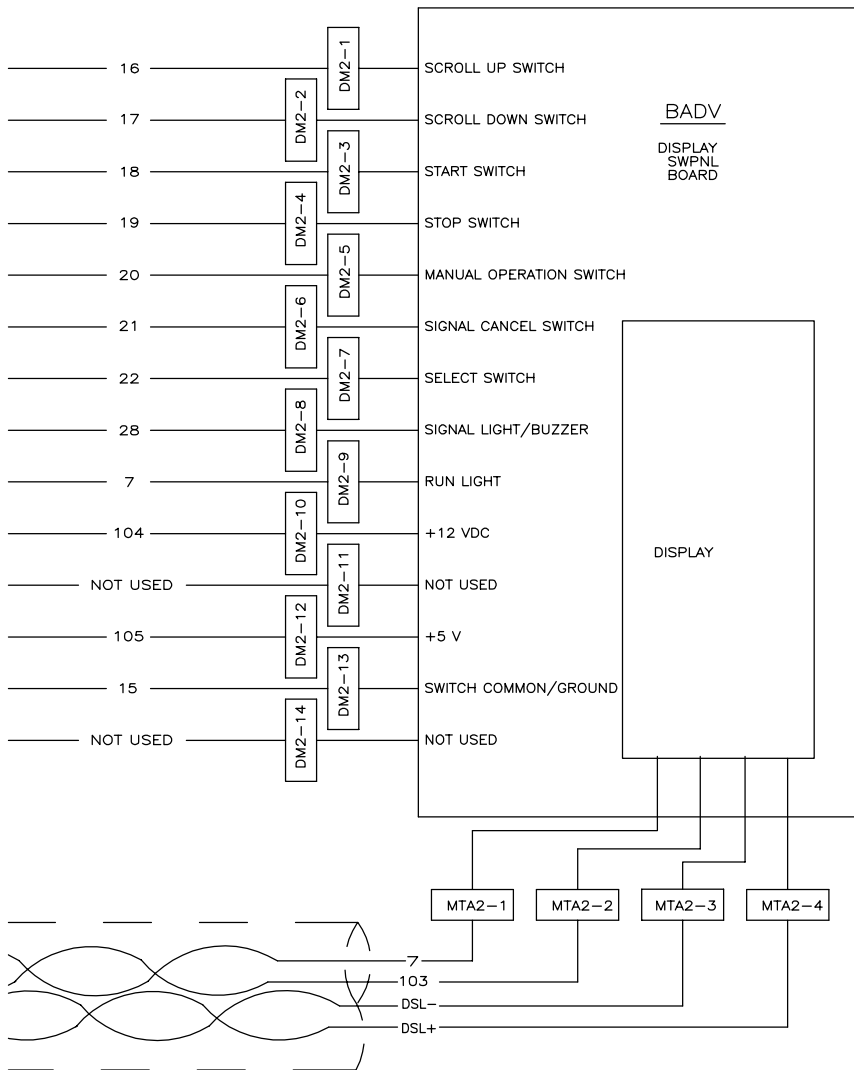
09

WIRE COLOR CODE

WIRE COLOR	APPLICATION
RED	A.C. CONTROL
RED/WHITE	A.C. COMMON
BLUE	+5 VDC
BLUE/ORANGE -103	+12VDC
BLUE/BLACK -105	-12VDC
YELLOW/GREEN	GROUND
BLUE/WHITE -7	D.C. GROUND
BLUE/BLACK	D.C. CONTROL SIGNALS

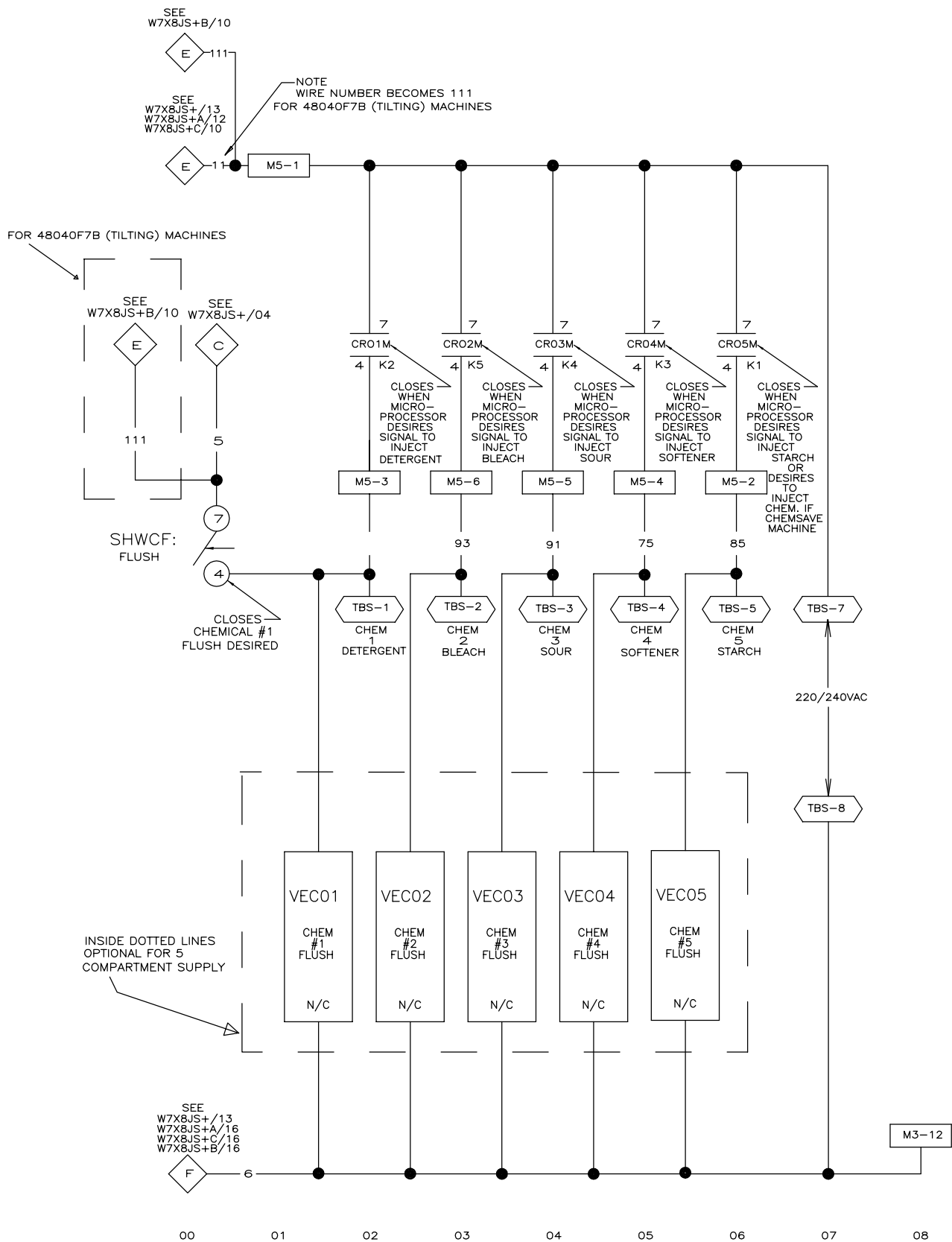
NOTES

1. M1, M2, M4, AND M72 ARE LOCATED ON BAUP 188 PROCESSOR BOARD.
2. DM2 IS LOCATED ON BADV DISPLAY SWPNL BOARD.
3. WCD IS THE DOWNLOAD CONNECTOR LOCATED ON THE REAR CONTROL PANEL.



NOTE
THIS SCHEMATIC REPLACES W7X8JBW
FOR MACHINES MANUFACTURED AFTER
DECEMBER 12, 2003.

W7X8JBWA
MICRO 7 SYSTEMS
SCHEMATIC: BOARD TO BOARD WIRING
PELLERIN MILNOR CORPORATION



LITHO IN U.S.A.

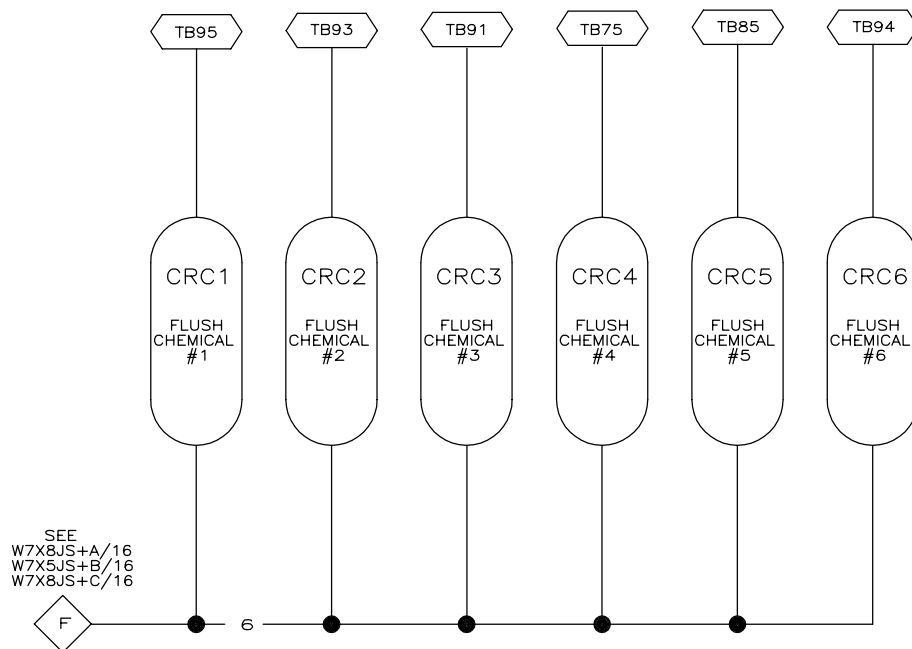
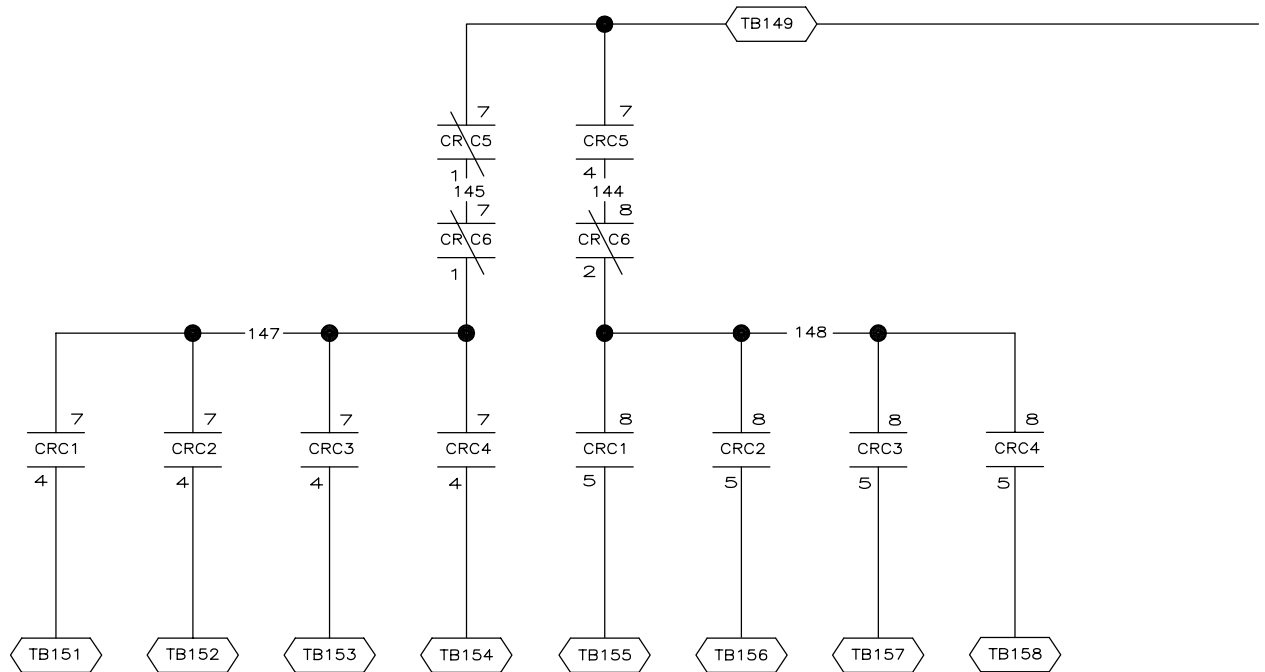
NOTES:

1. M 5 IS LOCATED ON THE PROCESSOR BOARD.
2. TBS LOCATED IN THE REAR CONTROL PANEL.

W7X8JCF
SCHEMATIC: FLUSHING SUPPLIES
220V1P50HZ/240V1P60HZ
PELLERIN MILNOR CORPORATION

~~W7X8JCF~~
~~2012232A~~

~~W7X8JCF~~
~~2012232A~~



00

01

02

03

04

05

06

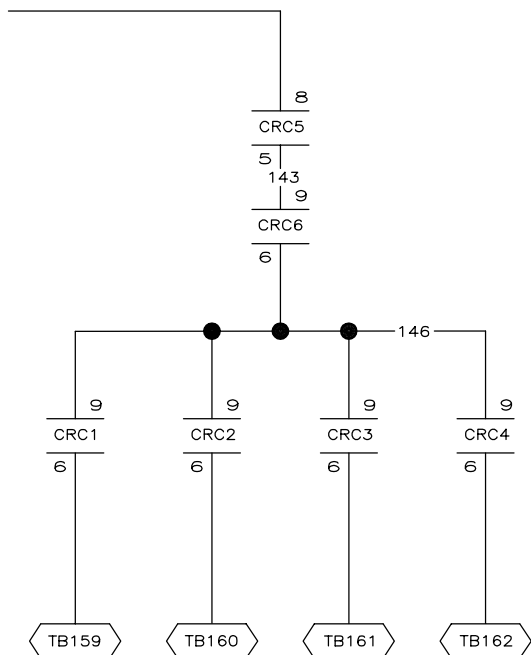
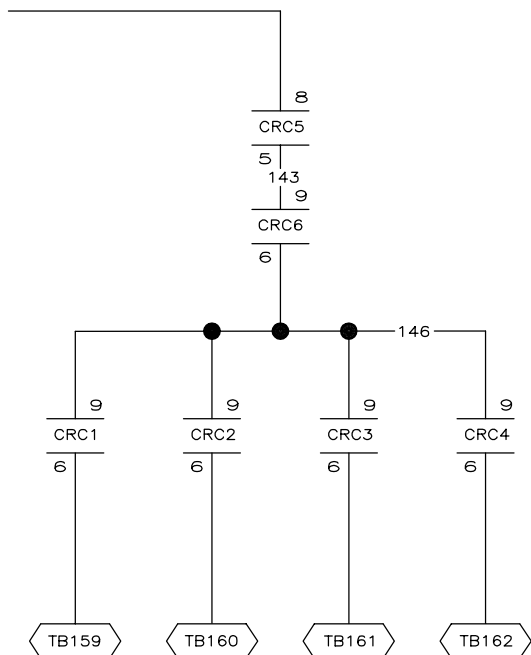
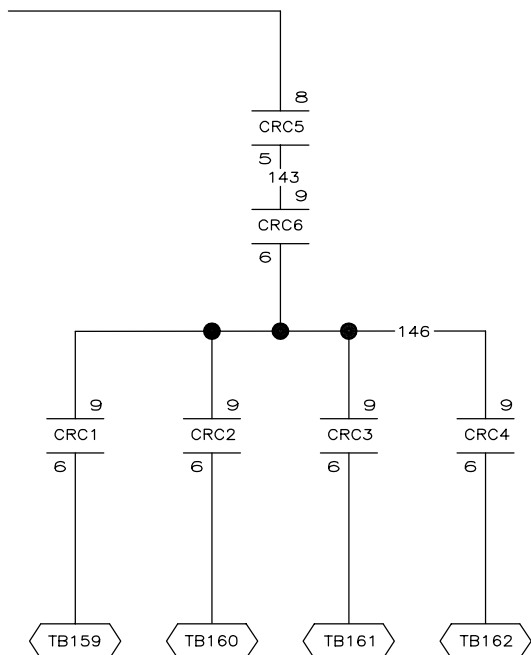
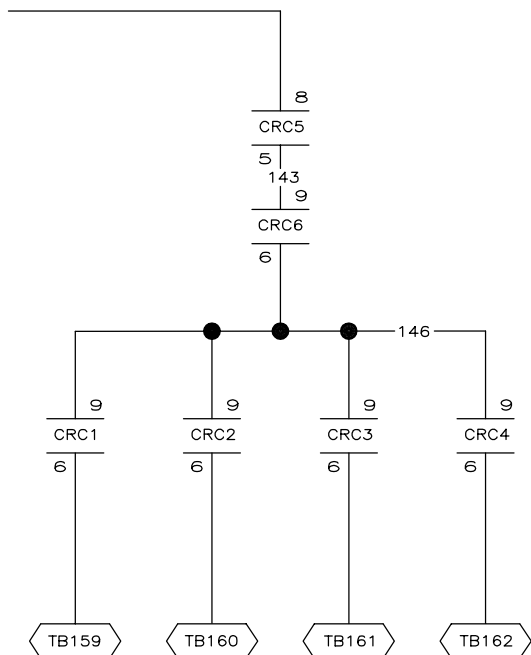
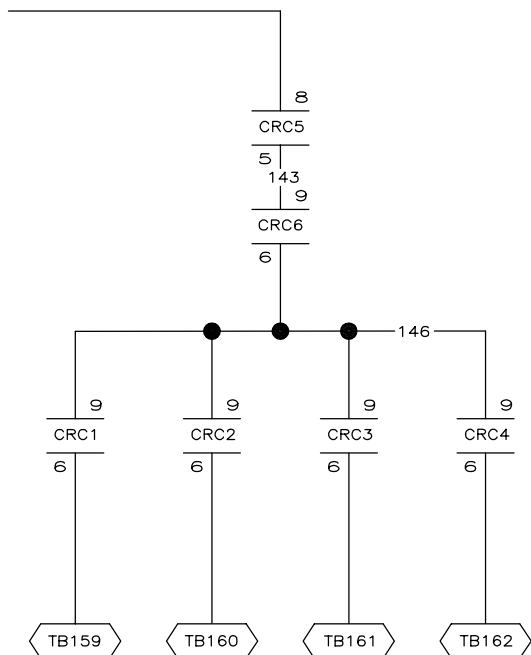
07

08

09

W7X8JCM
2012232A

LITHO IN U.S.A.



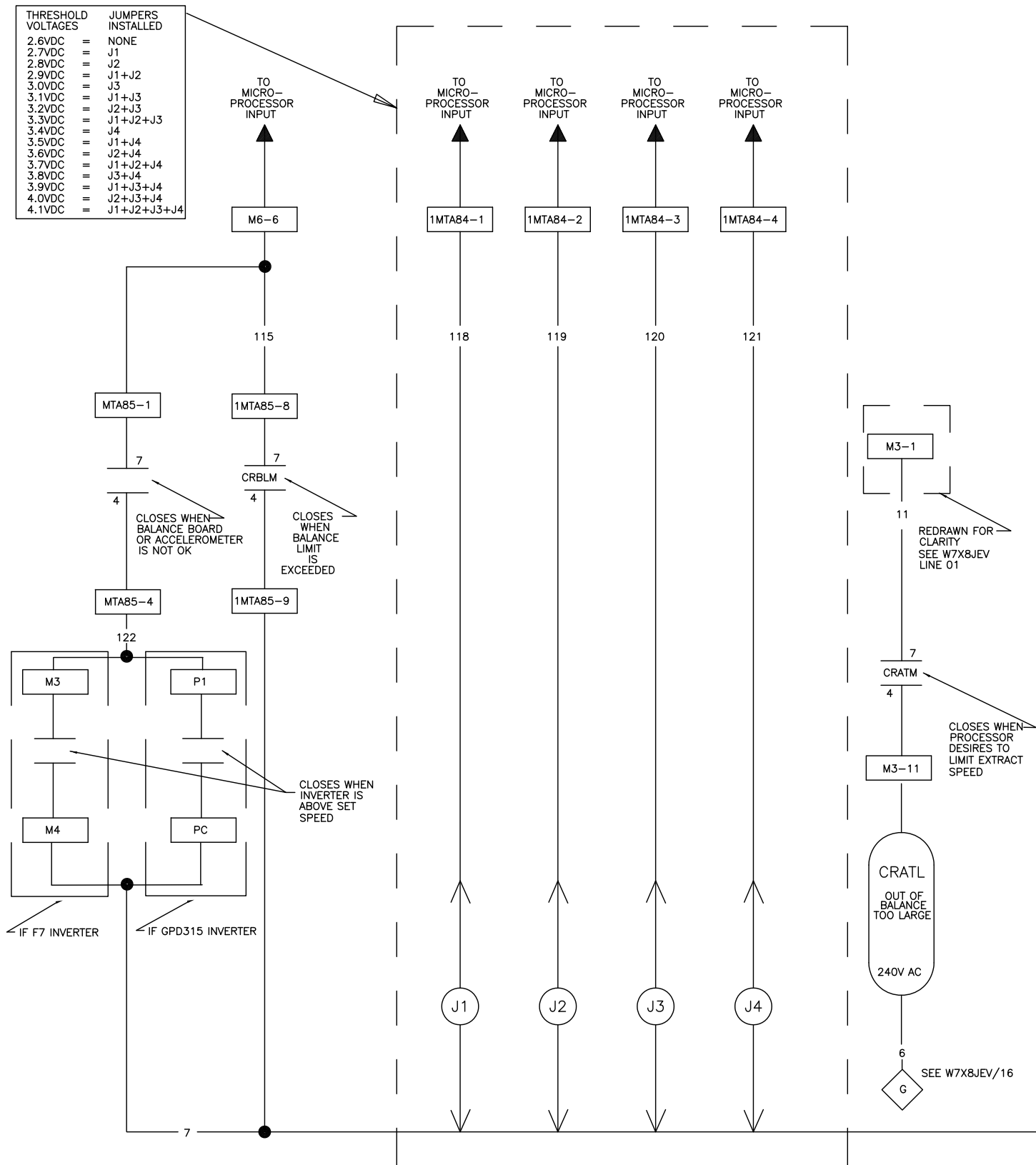
W7X8JCM
MICRO 7 SYSTEMS MARK V
SCHEMATIC: OPTIONAL 12 CHEMICAL FLUSHING
PELLERIN MILNOR CORPORATION

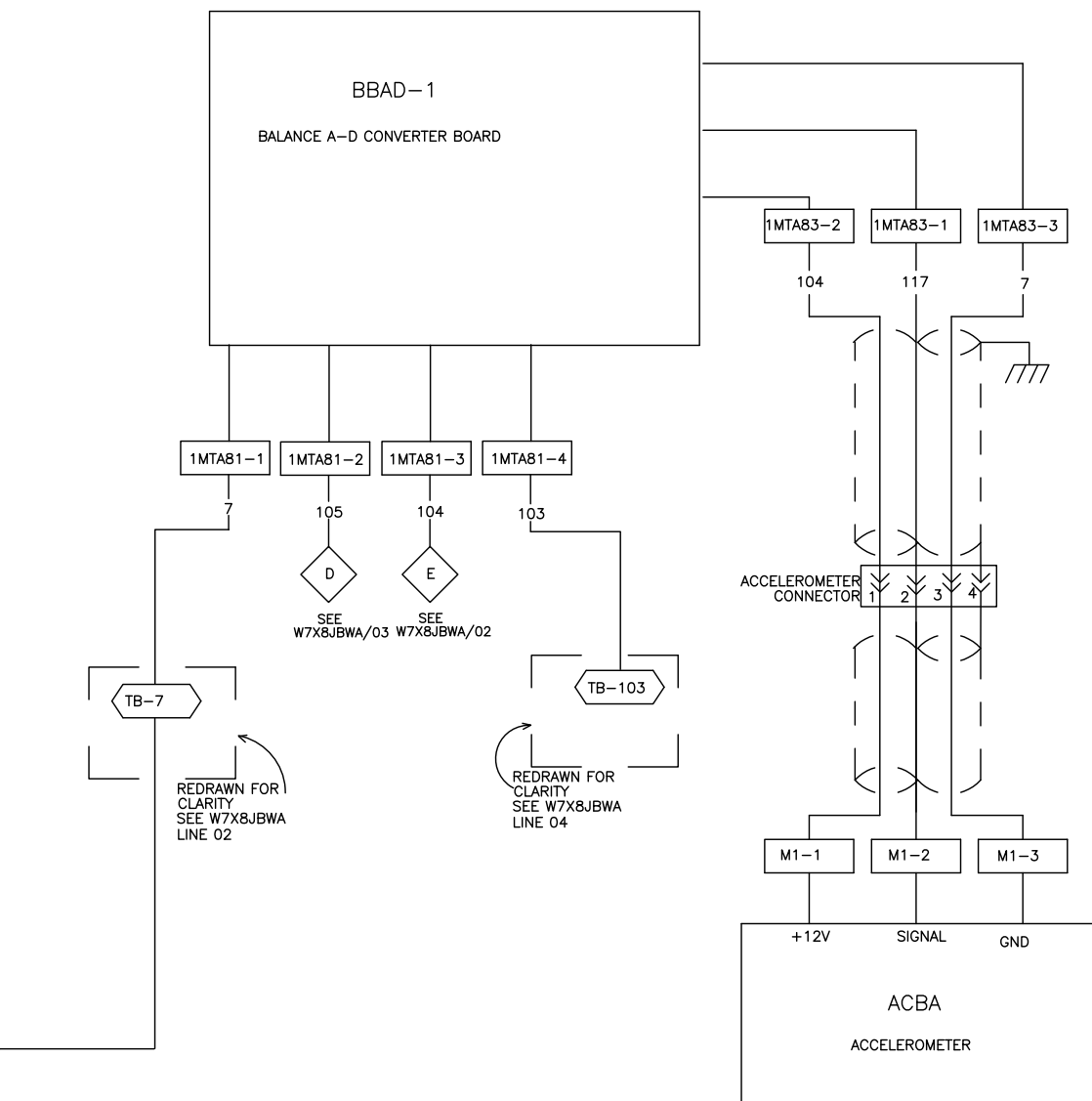
W7X8JCM
2012232A

W7X8JCM
2012232A

SPEED LIMIT THRESHOLD
INPUTS ARE TO LIMIT
SPEED IN EXTRACT WHEN
THE MACHINE IS OUT OF BALANCE.
JUMPERS ARE ADDED AT THE
FACTORY TO ADJUST FOR VARIATIONS
IN ACCELEROMETERS.

THRESHOLD VOLTAGES	JUMPERS INSTALLED
2.6VDC =	NONE
2.7VDC =	J1
2.8VDC =	J2
2.9VDC =	J1+J2
3.0VDC =	J3
3.1VDC =	J1+J3
3.2VDC =	J2+J3
3.3VDC =	J1+J2+J3
3.4VDC =	J4
3.5VDC =	J1+J4
3.6VDC =	J2+J4
3.7VDC =	J1+J2+J4
3.8VDC =	J3+J4
3.9VDC =	J1+J3+J4
4.0VDC =	J2+J3+J4
4.1VDC =	J1+J2+J3+J4





11

12

13

14

W7X8JEC

MICRO 6 SYSTEMS

MARK V

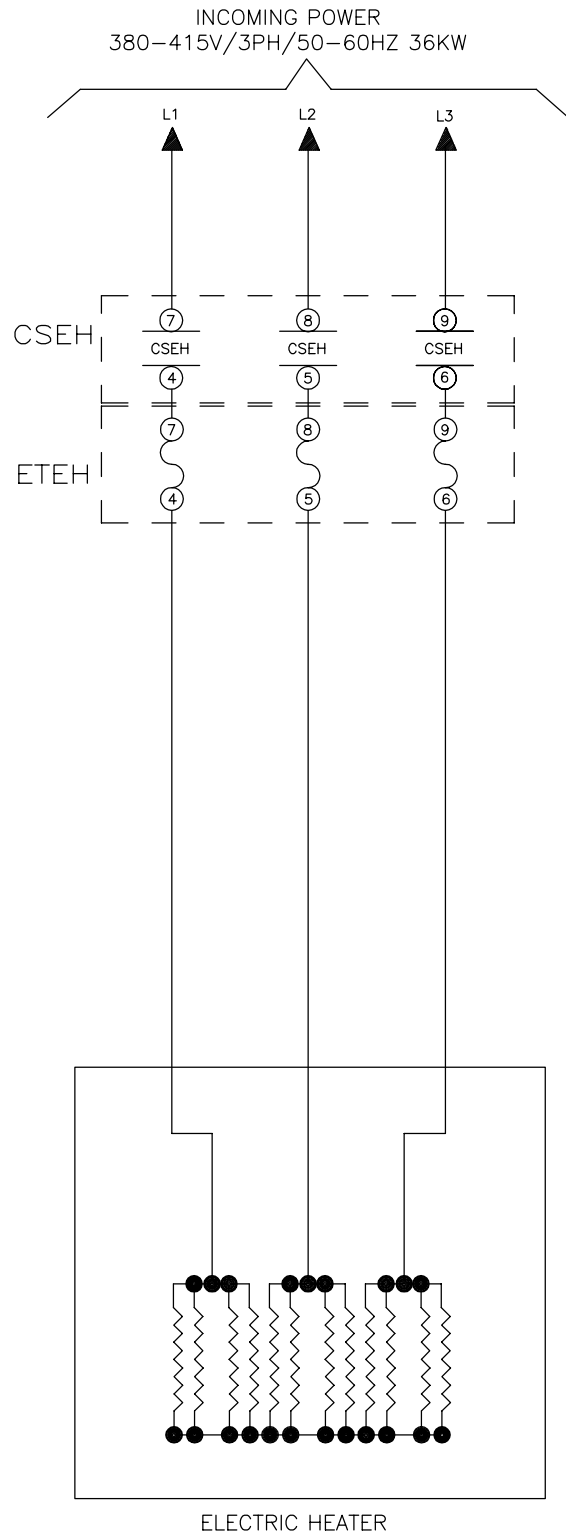
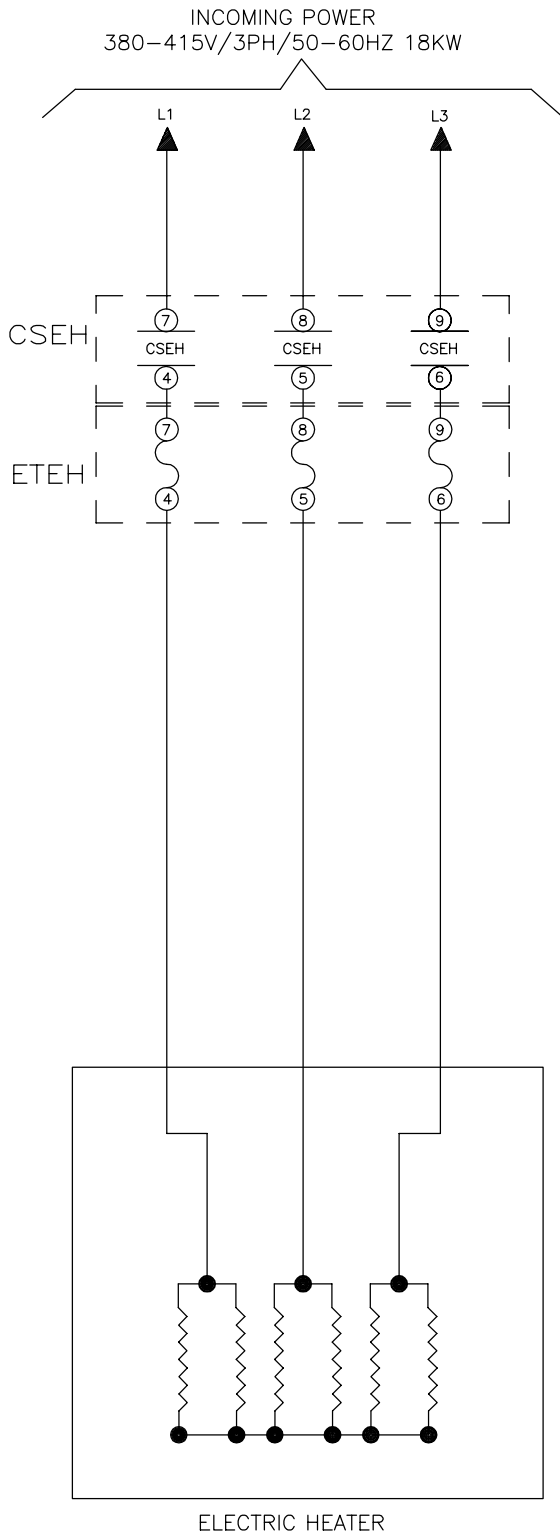
SCHEMATIC: ELECTRONIC BALANCE

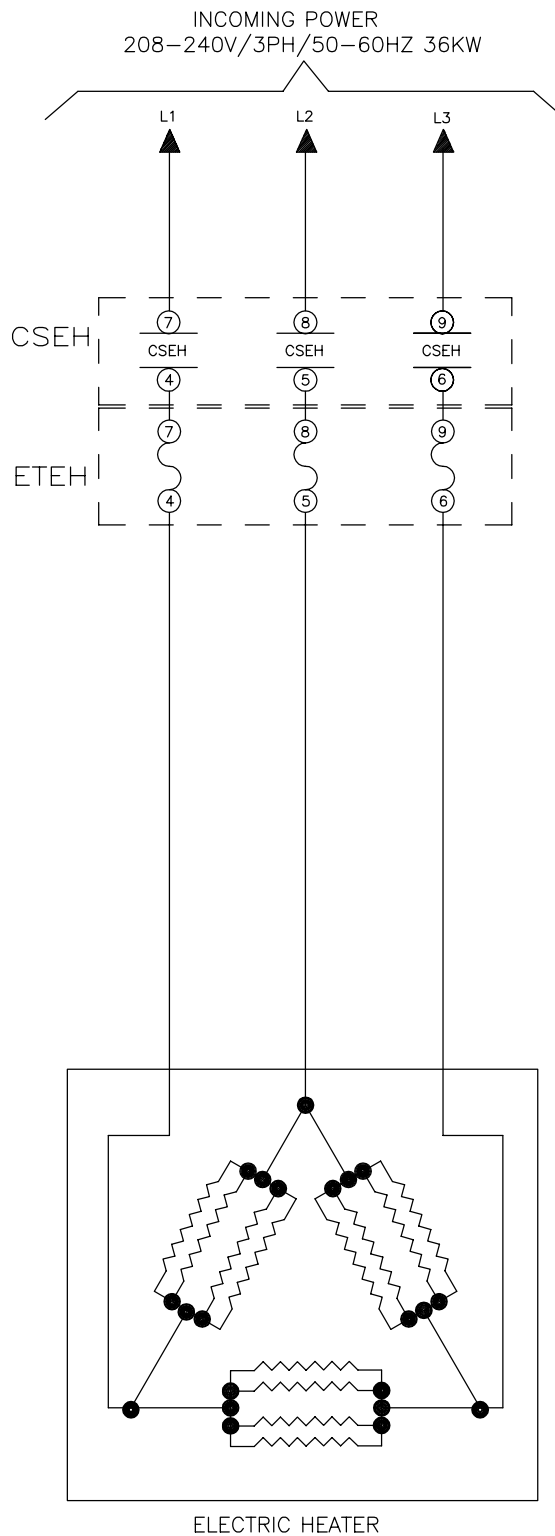
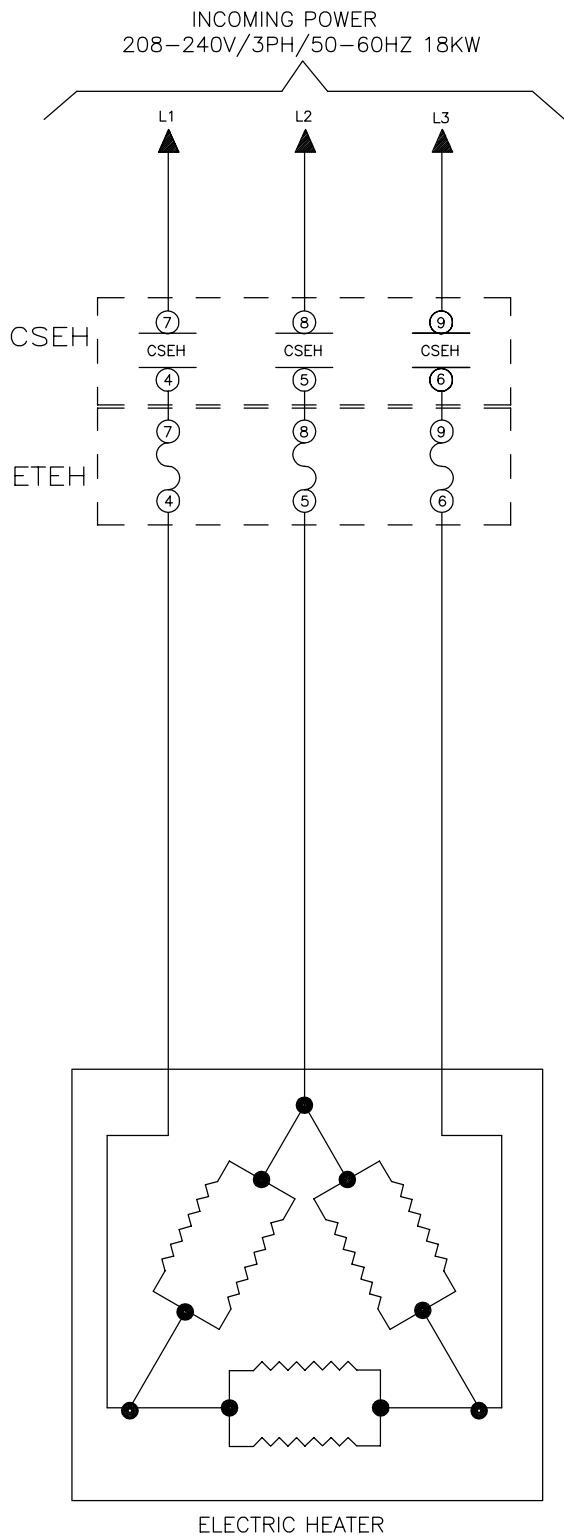
FOR 36/42X MACHINES ONLY

PELLERIN MILNOR CORPORATION

W7X8JEC
2023014B

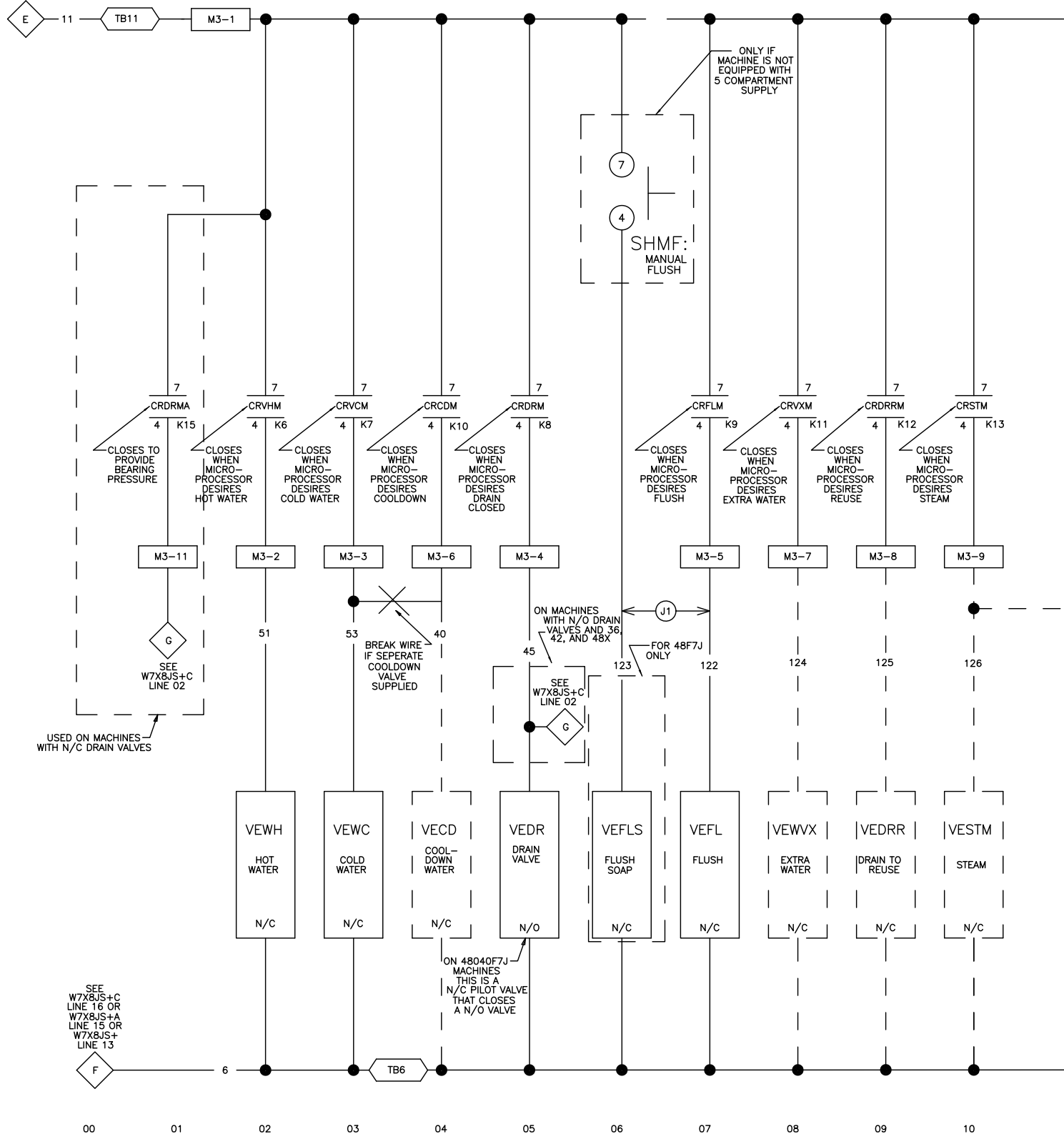
W7X8JEC
2023014B



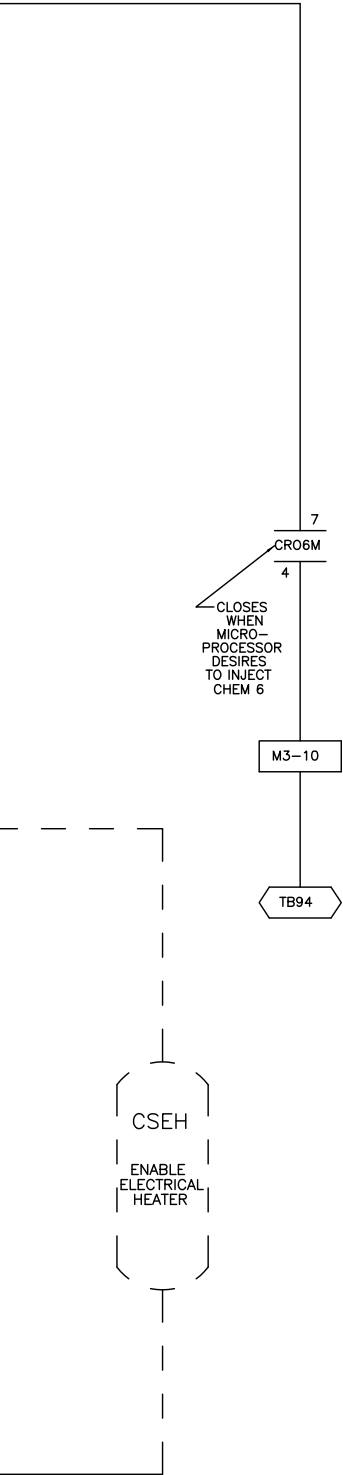


W7X8JEH
MICRO 7 SYSTEMS
SCHEMATIC: ELECTRIC HEAT
220V1P50HZ/240V1P60HZ
PELLERIN MILNOR CORPORATION

W7X8JEH
2012396B

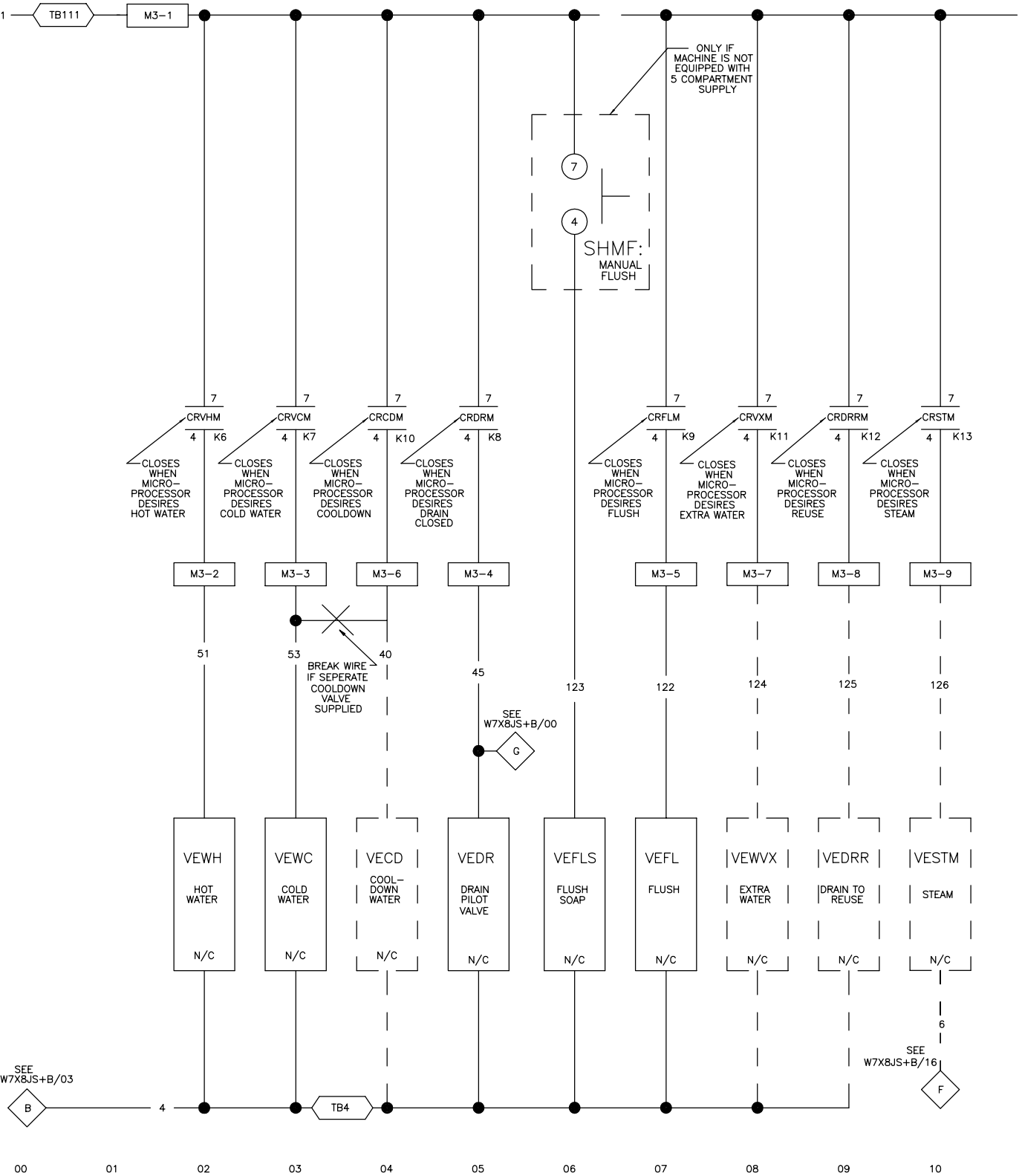


W7X8JEV
SCHEMATIC: ELECTRIC VALVES
220V1P50HZ/240V1P60HZ
PELLERIN MILNOR CORPORATION



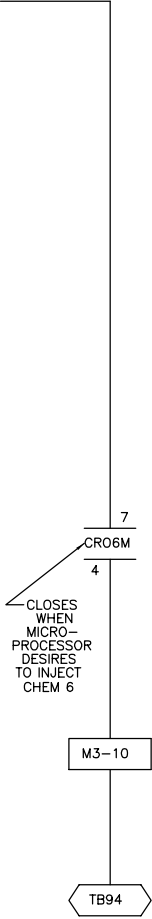
NOTES:
1. M3 IS LOCATED ON THE
BAUP (188 PROCESSOR BOARD).
REMOVE (J1) FOR 48F7J

SEE
W7X8JS+B/10



SEE
W7X8JS+B/03

SEE
W7X8JS+B/16



W7X8JEVA

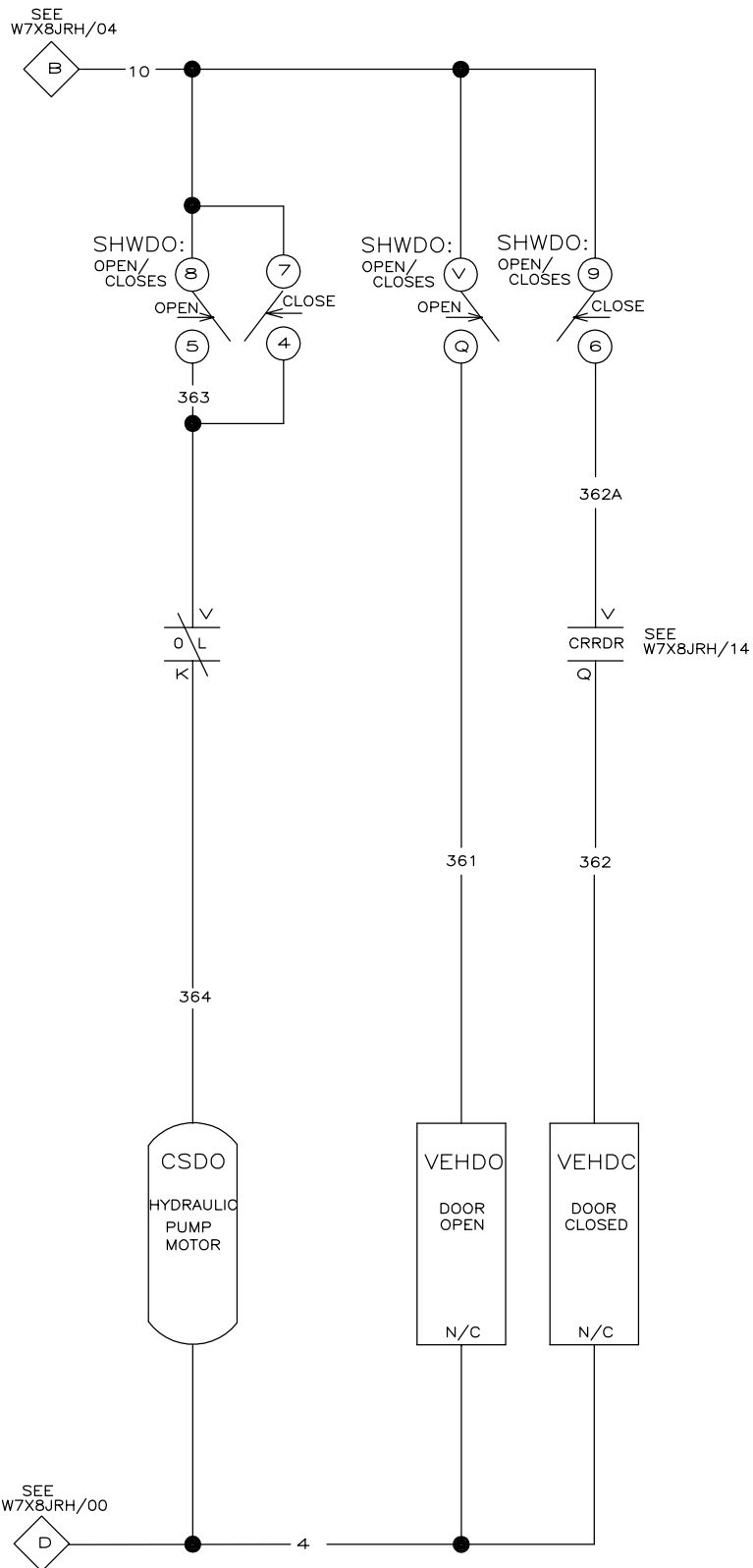
SCHEMATIC: ELECTRIC VALVES
FOR 4840F7B ONLY
220V1P50HZ/240V1P60HZ

PELLERIN MILNOR CORPORATION

NOTES:

1. M3 IS LOCATED ON THE
BAUP (188 PROCESSOR BOARD).

W7X8JEVA
2012232A



00

01

02

03

04

05

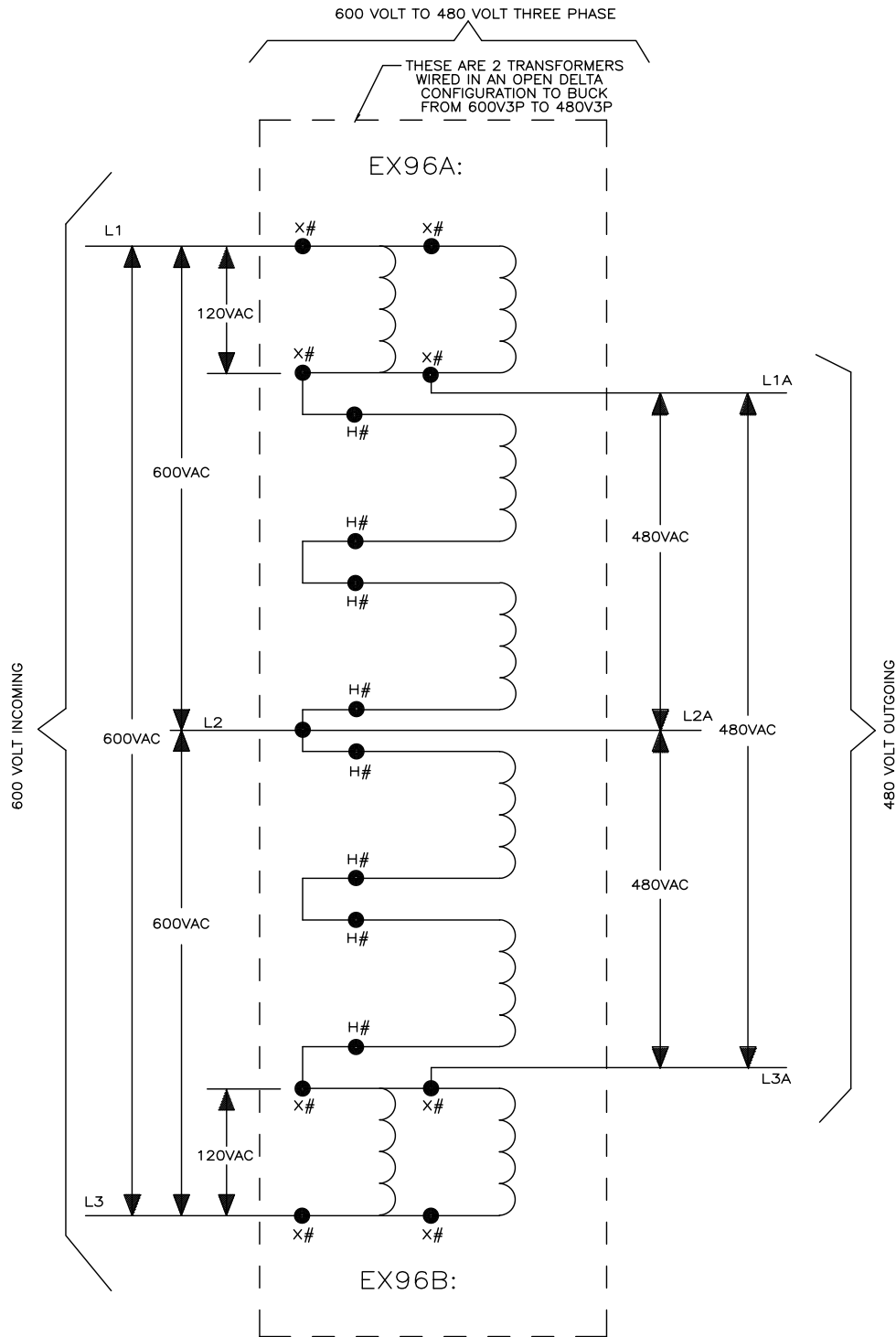
06

07

08

09

W7X8JHD
MICRO 6 SYSTEMS
MARK V CONTROLS
SCHEMATIC; HYDRAULIC DOOR
FOR 48040F7B/J
220V1P50HZ/240V1P60HZ
PELLERIN MILNOR CORPORATION



W7X8JLV
2021505B

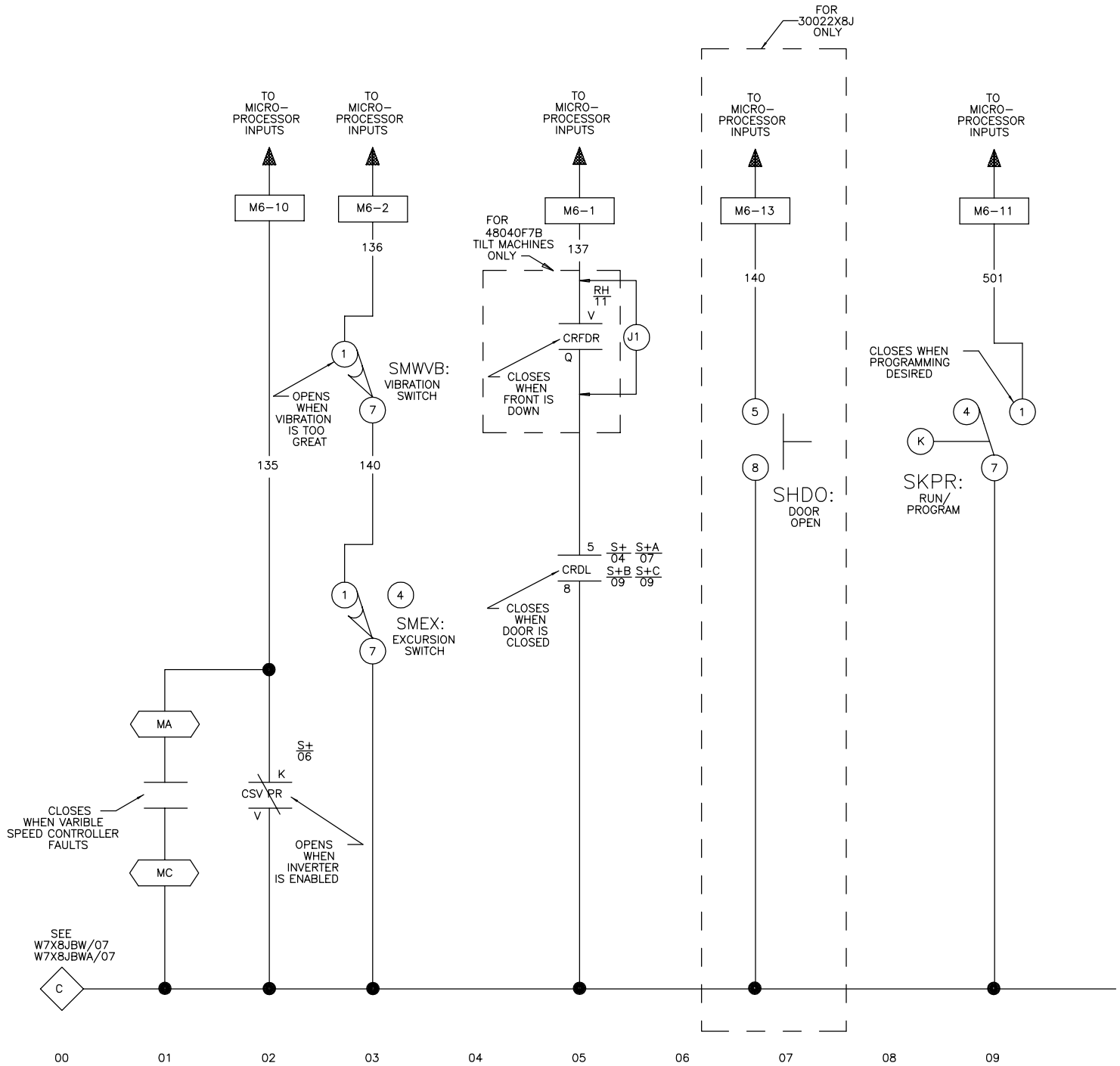
W7X8JLV SCHEMATIC: CONTROL CIRCUIT TRANSFORMER 220V1P50HZ/240V1P60HZ

PELLERIN MILNOR CORPORATION

REFER TO TRANSFORMER WIRING DIAGRAM FOR APPROPRIATE WIRE NUMBERS.

THE PRIMARY OF EACH TRANSFORMER NOTED BY H# MUST BE WIRED FOR 480 VOLTS. THE SECONDARY OF EACH TRANSFORMER NOTED BY X# MUST BE WIRED FOR 120 VOLTS.

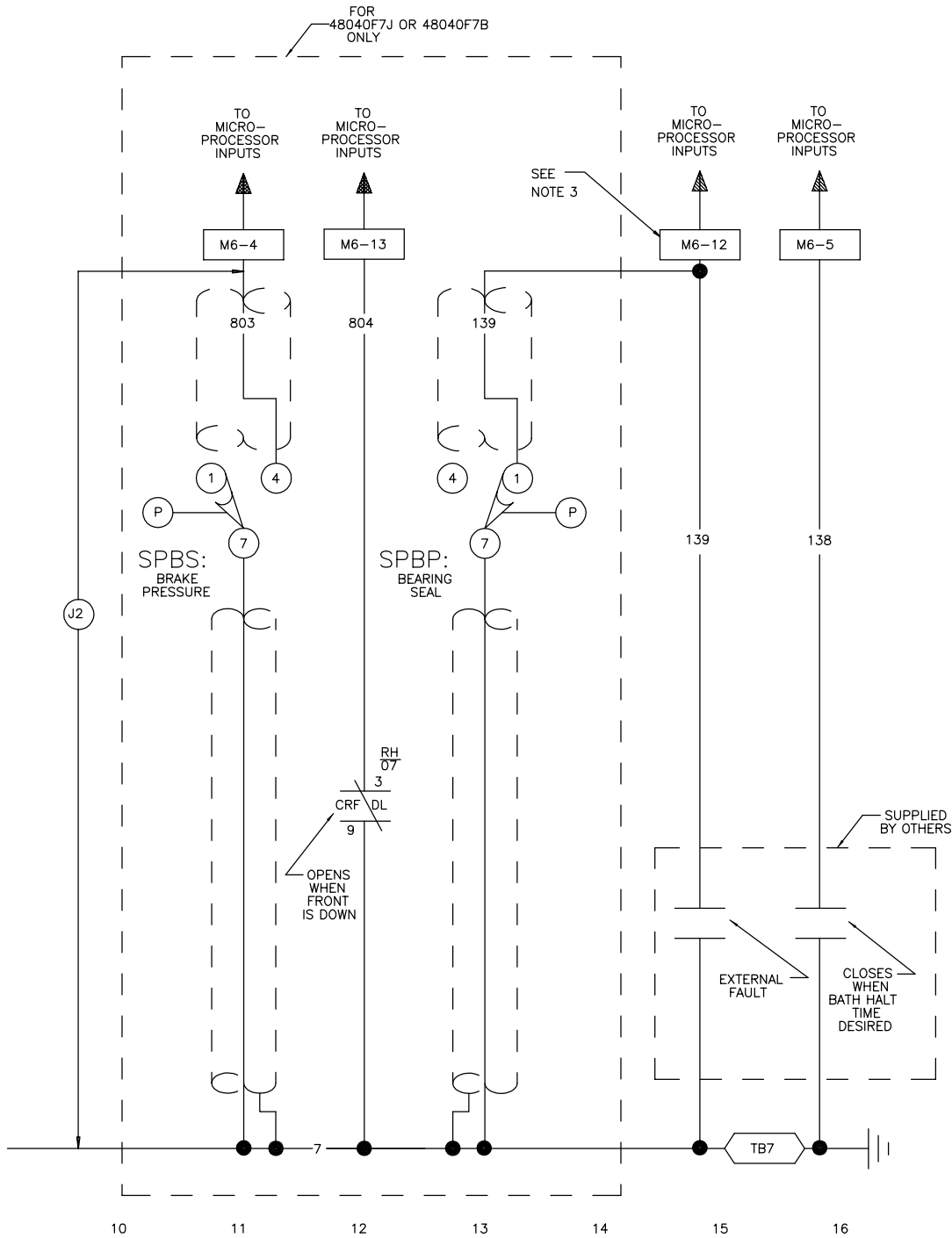
INPUT (SUPPLY SYSTEM)	DESIRED OUTPUT CONNECTION	
DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
OPEN DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
WYE 3 OR 4 WIRE	CLOSED DELTA 3 WIRE	DO NOT USE
WYE 4 WIRE	WYE 3 OR 4 WIRE	OK
WYE 3 OR 4 WIRE	OPEN DELTA 3 WIRE	OK
CLOSED DELTA 3 WIRE	OPEN DELTA 3 WIRE	OK



W7X8JIA

SCHEMATIC: MICROPROCESSOR INPUTS

PELLERIN MILNOR CORPORATION

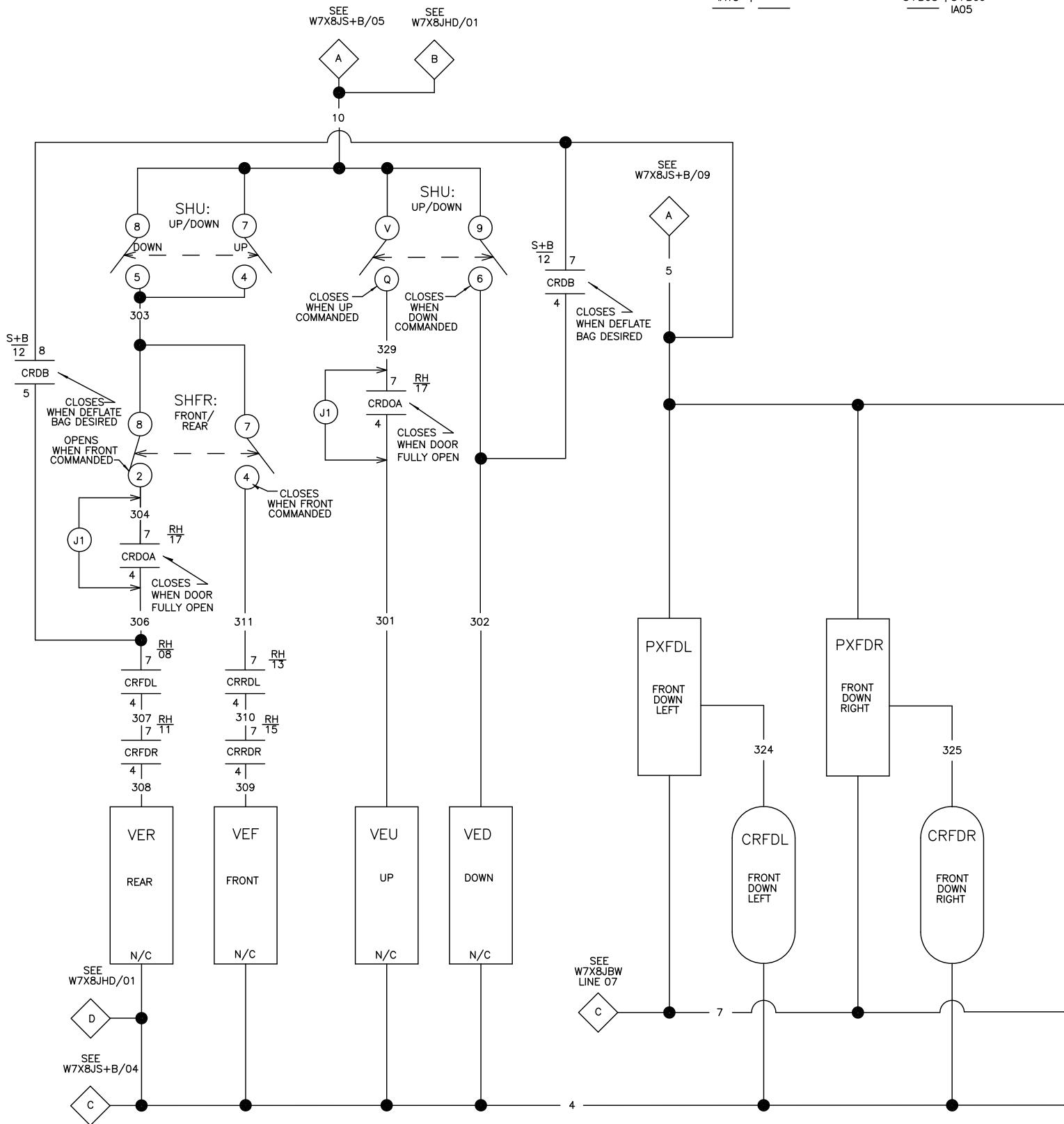


NOTES

1. M6 IS LOCATED ON THE PROCESSOR BOARD.
2. REMOVE (J1) FOR TILT MACHINE
3. REMOVE (J2) FOR ALL 48" MACHINES
4. FOR 48040F7J OR B THE BEARING LOW PRESSURE INPUT SHARES THE EXTERNAL FAULT INPUT (M6-12). WHEN LOW BEARING PRESSURE OCCURS "EXTERNAL FAULT" WILL BE DISPLAYED.

==	RH01
==	S+B11
==	IA13

==	RH01
==	S+B11
==	S+B08
==	S+B09
==	IA05



00

01

02

03

04

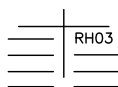
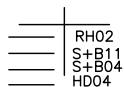
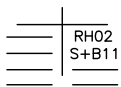
05

06

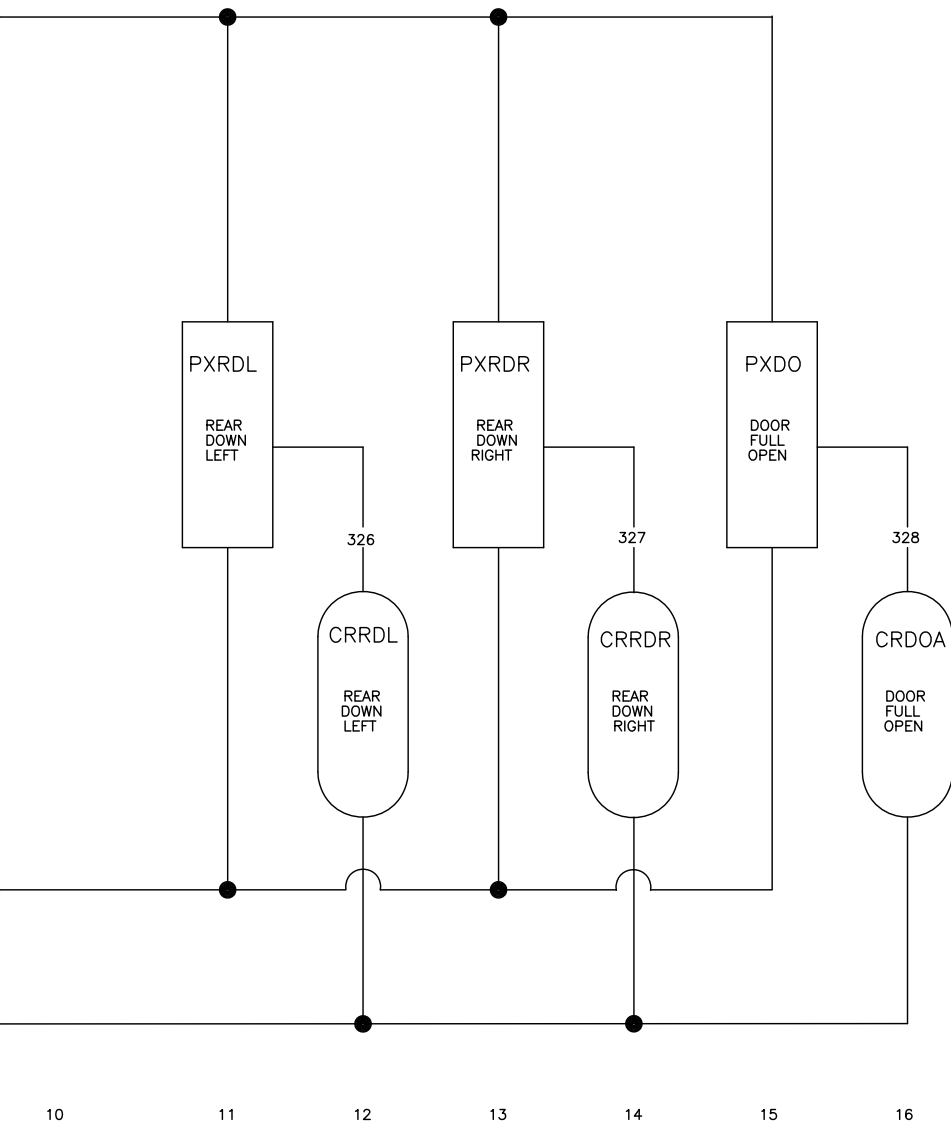
07

08

09



W7X8JRH
2016515B

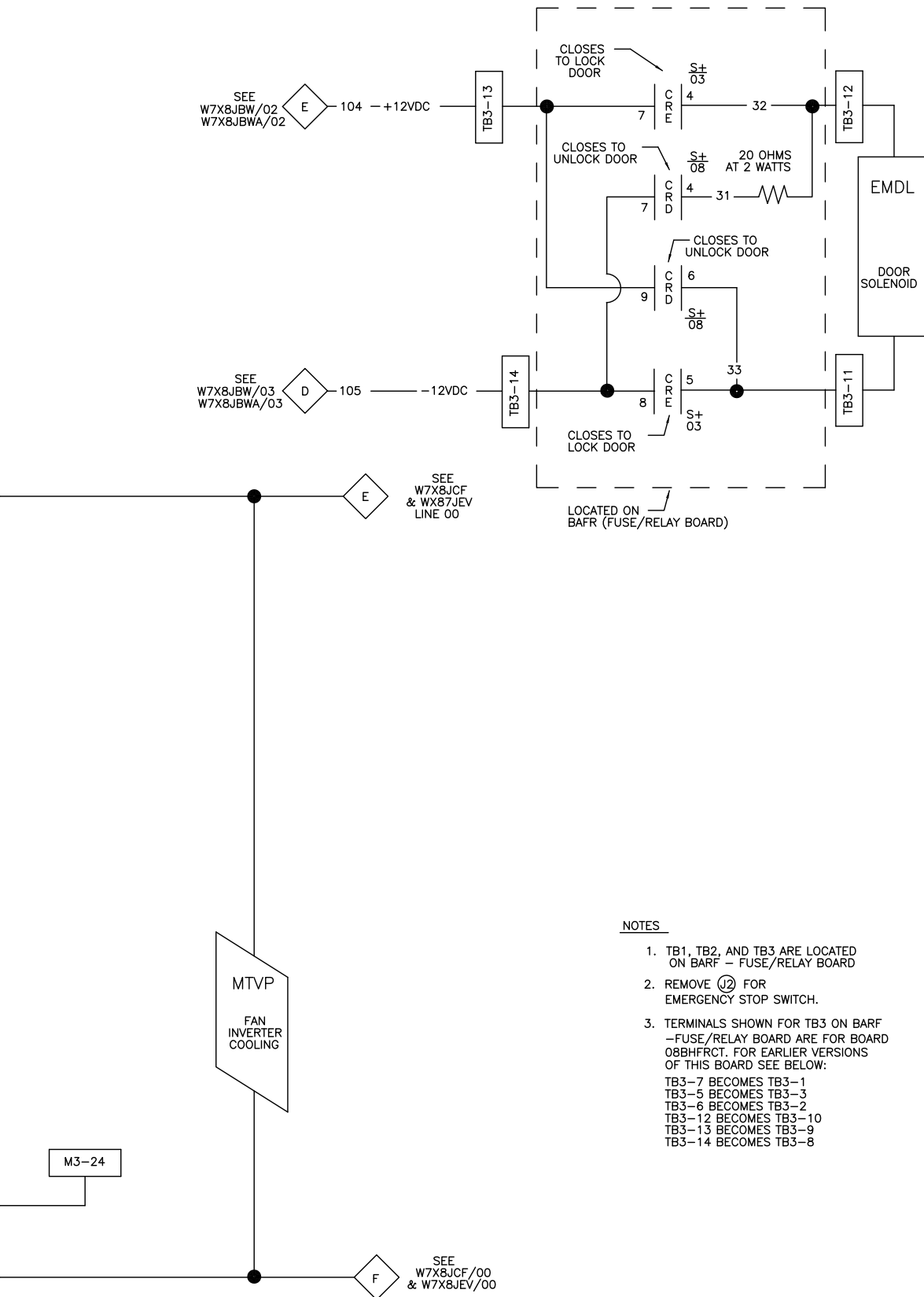


REMOVE (J1)
FOR AUTO DOOR OPTION

W7X8JRH
MICRO 7 SYSTEMS
MARK V CONTROLS
SCHEMATIC; RAISE HOUSE
FOR 48040 F7B ONLY
220V1P50HZ/240V1P60HZ
PELLERIN MILNOR CORPORATION

W7X8JRH
2016515B

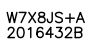




NOTES

1. TB1, TB2, AND TB3 ARE LOCATED ON BARF - FUSE/RELAY BOARD
2. REMOVE J2 FOR EMERGENCY STOP SWITCH.
3. TERMINALS SHOWN FOR TB3 ON BARF -FUSE/RELAY BOARD ARE FOR BOARD 08BHFRCT. FOR EARLIER VERSIONS OF THIS BOARD SEE BELOW:
TB3-7 BECOMES TB3-1
TB3-5 BECOMES TB3-3
TB3-6 BECOMES TB3-2
TB3-12 BECOMES TB3-10
TB3-13 BECOMES TB3-9
TB3-14 BECOMES TB3-8

W7X8JS+
SCHEMATIC: START CIRCUIT & DOOR INTERLOCK
FOR 30022 X8J
220V,1P,50HZ/240V,1P,60HZ
PELLERIN MILNOR CORPORATION



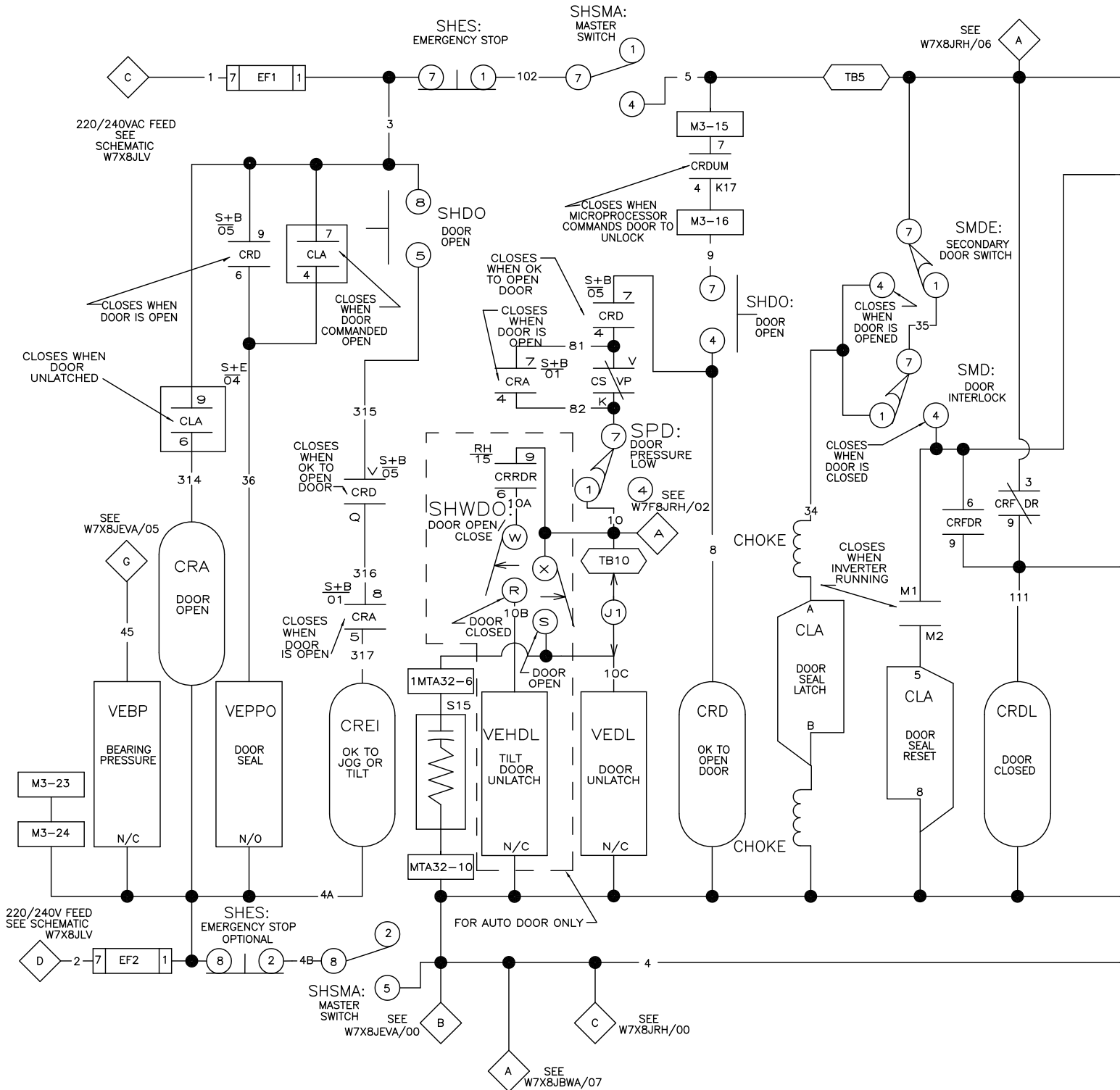
S+B04
S+B02

S+B13 S+B14
S+B12 VPC12
S+B14 S+B15

S+B10 S+B05
S+B01 S+B02

S+B02
S+B01

1A05



00

01

02

03

04

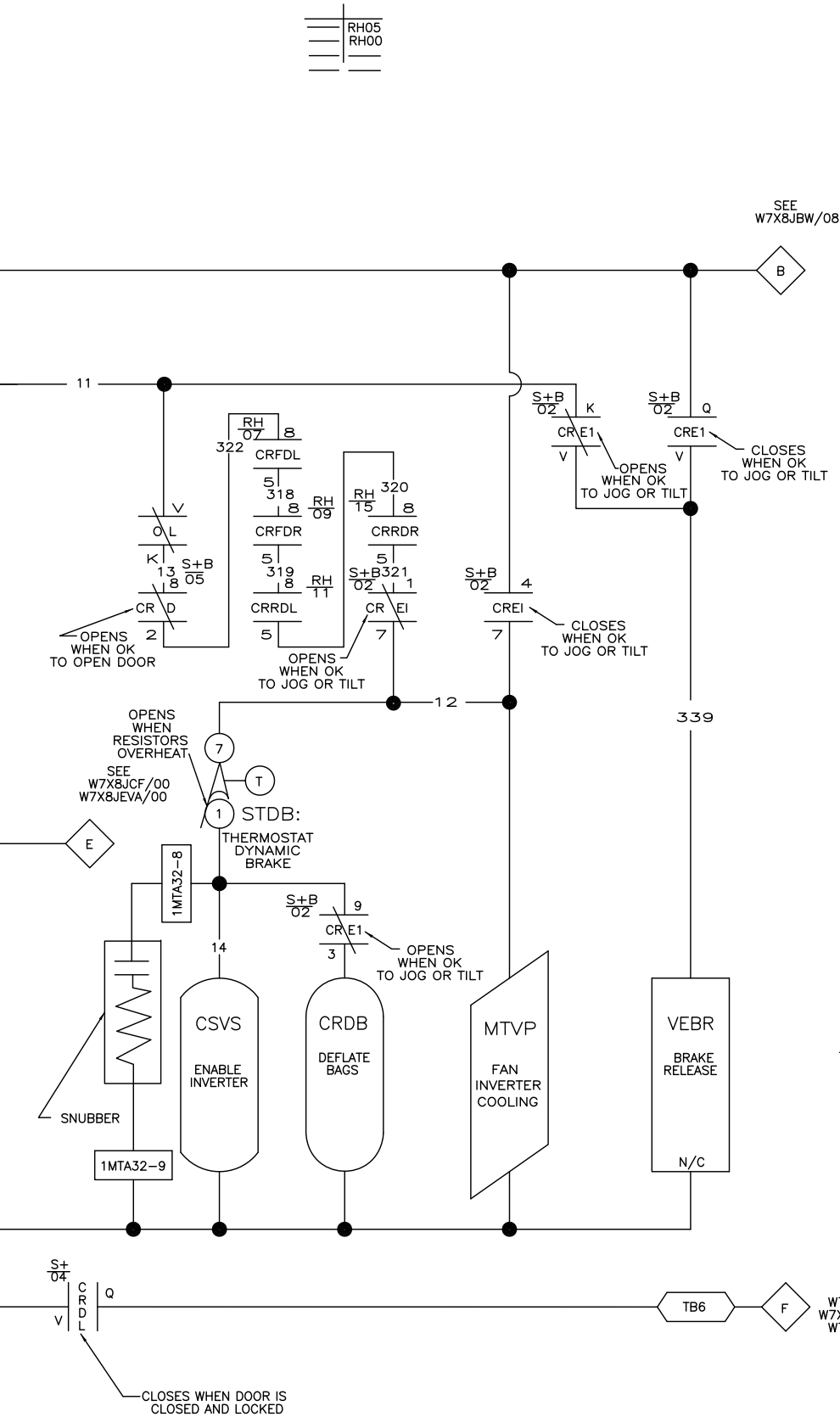
05

06

07

08

09



NOTES

1. TB1, TB2, AND TB3 ARE LOCATED ON BARF - FUSE/RELAY BOARD
2. REMOVE (J1) IF EQUIPPED WITH AUTO DOOR.

W7X8JS+B

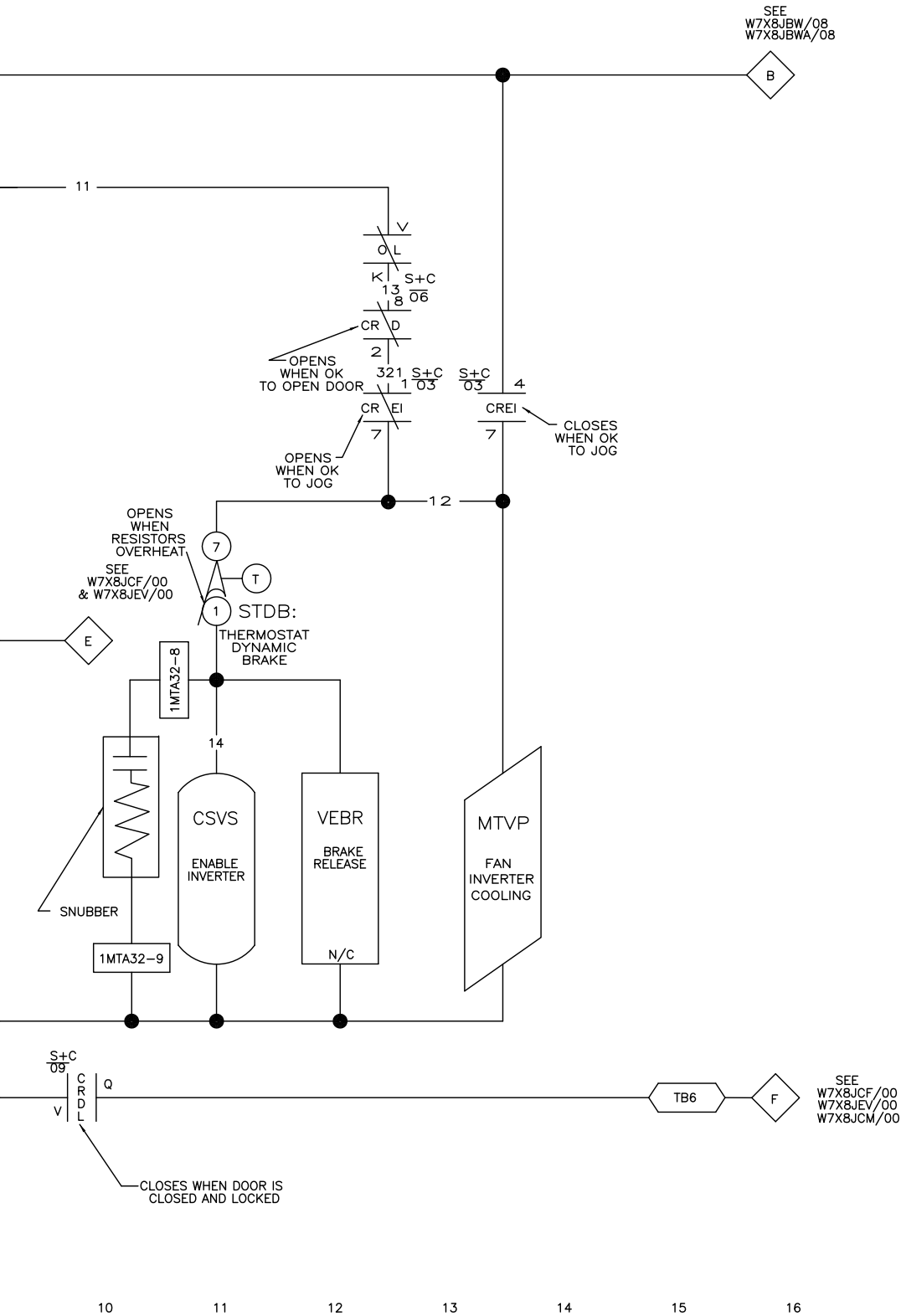
SCHEMATIC: START CIRCUIT & DOOR INTERLOCK

FOR 4840F7B

220V, 1P, 50HZ/240V, 1P, 60HZ

PELLERIN MILNOR CORPORATION





W7X8JS+C

SCHEMATIC: START CIRCUIT & DOOR INTERLOCK

FOR 4840F7J

220V, 1P, 50HZ/240V, 1P, 60HZ
PELLERIN MILNOR CORPORATION

ETDB: IS REPLACED —
BY STDB: AFTER 5/31/04
SEE W7X8JS+ OR S+A



29B

MVDBR: 50Ω

MVDBR: 50Ω

ETDB

7

1

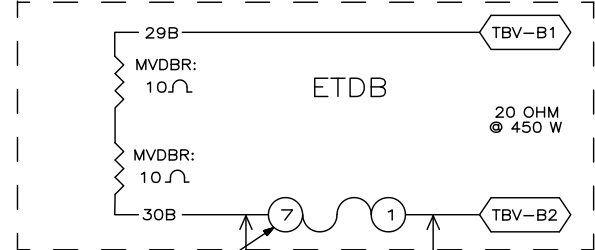
TBV-B1

25 OHM
450 W

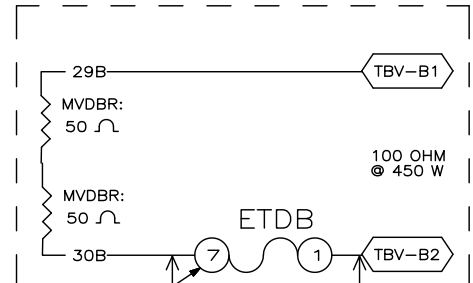
30B

TBV-B2

LOW VOLTAGE 42" MACHINE



HIGH VOLTAGE 36" & 42"

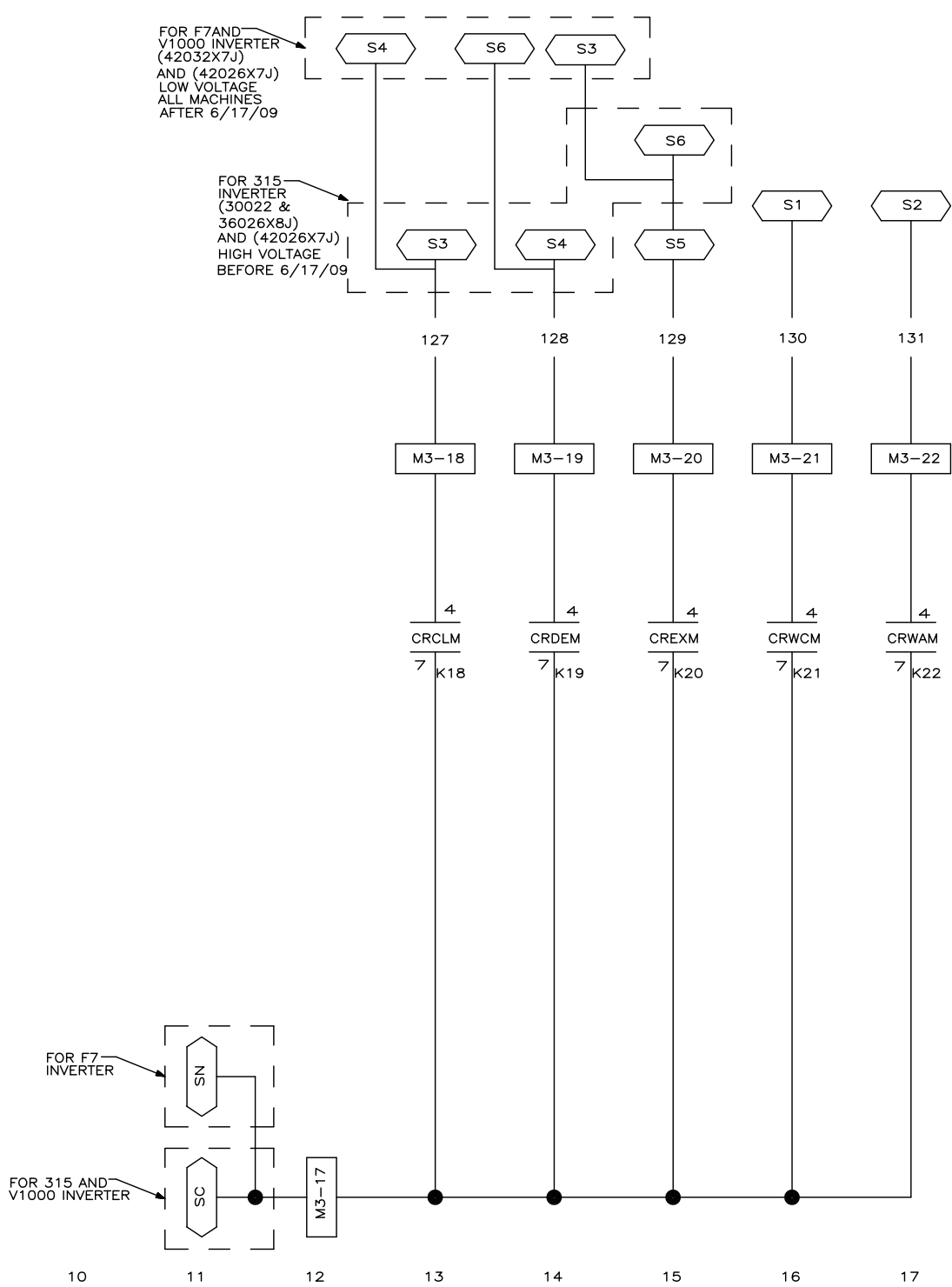


ETDB: IS REPLACED —
BY STDB: AFTER 5/31/04
SEE W7X8JS+ OR S+A



W7X8JVPA
2015163B

	CW		CCW		
	K21	K22	K18	K19	K20
WASH 1	X				
WASH 2	X		X		
DRAIN	X			X	
EXTRACT 1	X				X
EXTRACT 2	X		X		X
EXTRACT 3	X			X	X
OUT OF EXTRACT					X

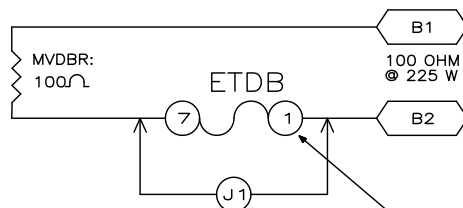


W7X8JVPA

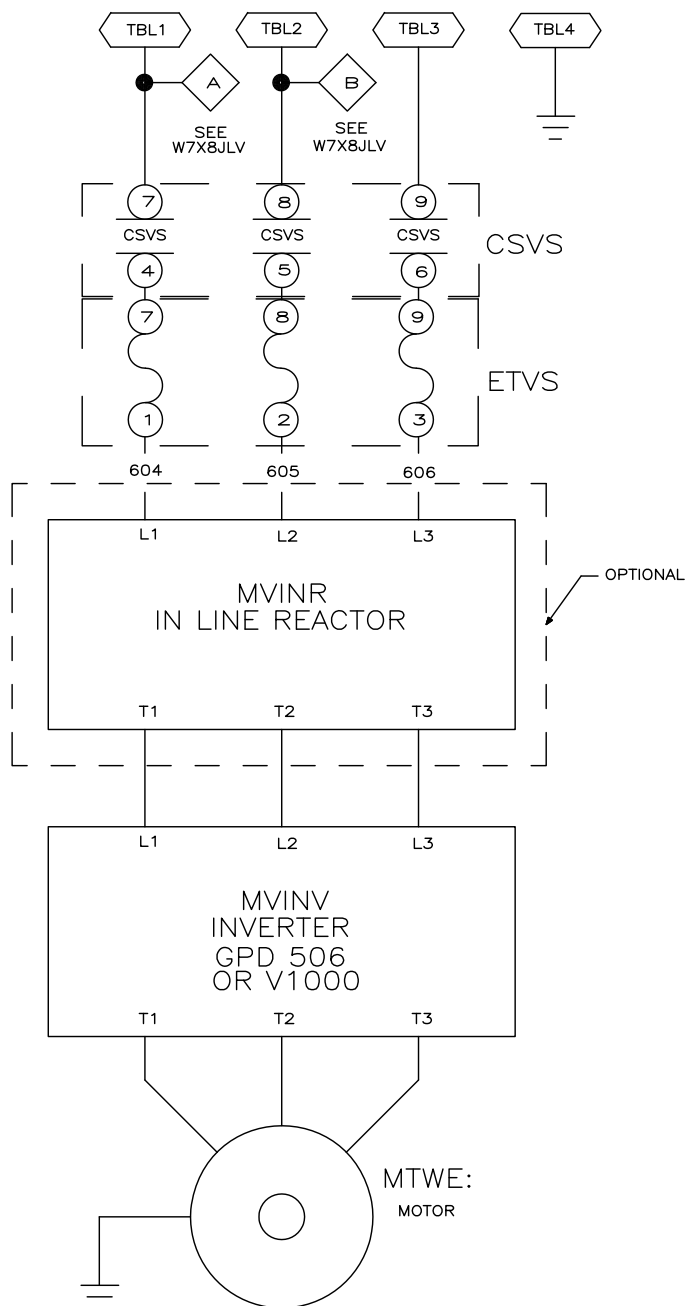
SCHEMATIC: VARIABLE SPEED CONTROLLER

3-PHASE POWER

PELLERIN MILNOR CORPORATION



ETDB: IS REPLACED
BY STDB: AFTER 5/31/04
SEE W7X8JS+ OR S+A.



127



4

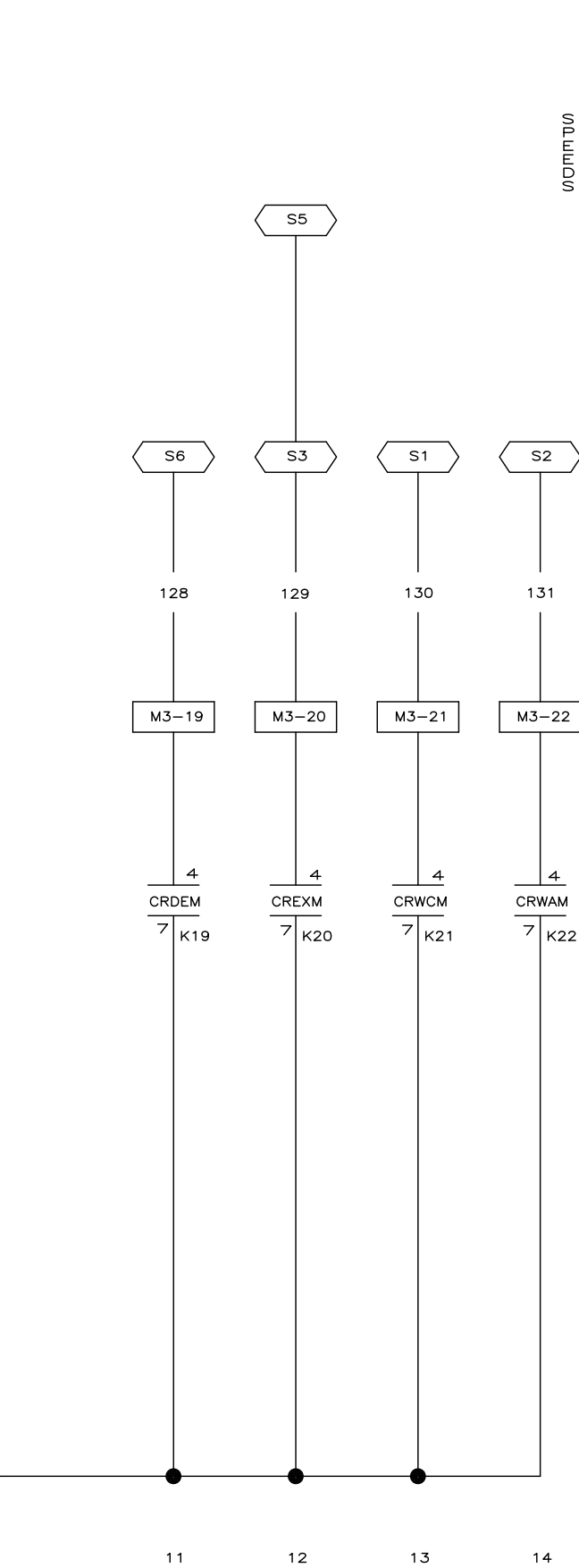


10

LITHO IN U.S.A.

00 01 02 03 04 05 06 07 08 09 10

W7X8JVPB
2015163B

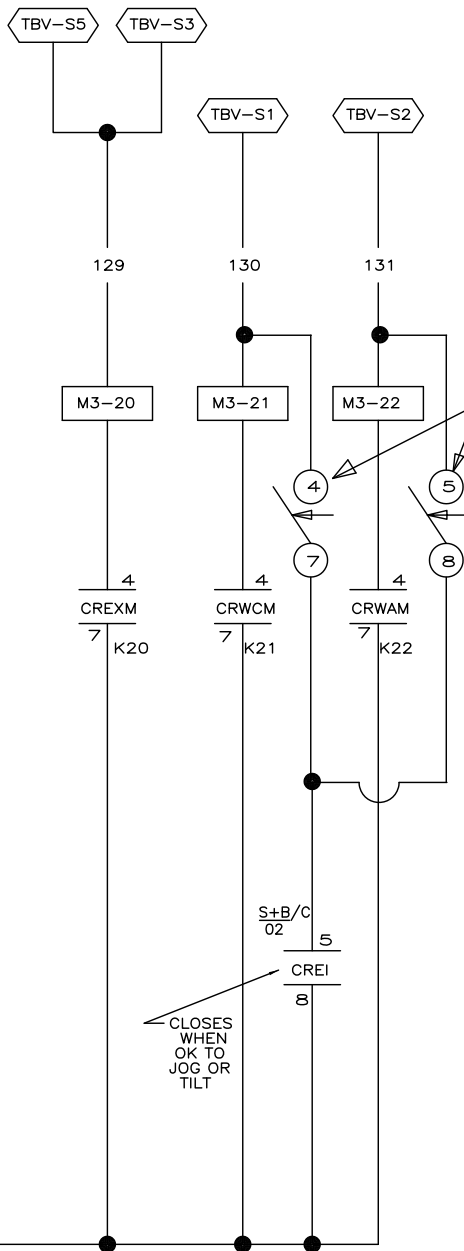
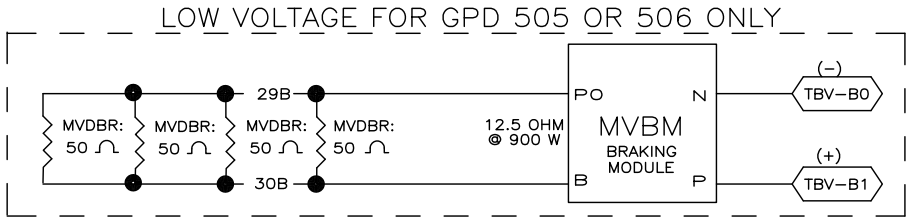
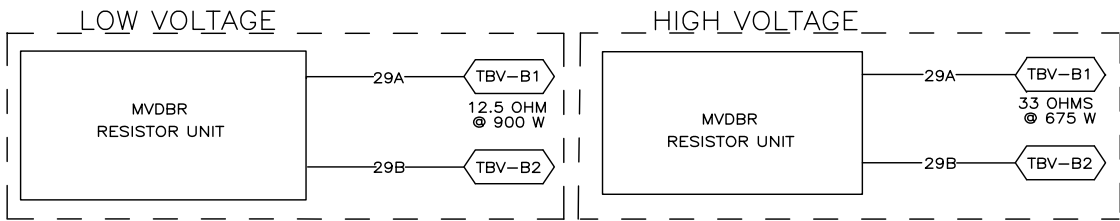


	CW		CCW		
	K21	K22	K18	K19	K20
WASH 1	X				
WASH 2	X		X		
DRAIN	X			X	
EXTRACT 1	X				X
EXTRACT 2	X		X		X
EXTRACT 3	X			X	X
OUT OF EXTRACT					X

W7X8JVPB

SCHEMATIC: VARIABLE SPEED CONTROLLER
SINGLE PHASE POWER GPD506 OR V1000

PELLERIN MILNOR CORPORATION



SHCW:
CLOCKWISE—
COUNTER
CLOCKWISE

	CW		CCW		
	K21	K22	K18	K19	K20
WASH 1	X				
WASH 2	X		X		
DRAIN	X			X	
EXTRACT 1	X				X
EXTRACT 2	X		X		X
EXTRACT 3	X			X	X
OUT OF EXTRACT					X

NOTES:

1. TBV IS LOCATED ON VARIABLE SPEED CONTROLLER CONTROLLER.

W7X8JVPC

MICRO 7 SYSTEMS MARK V

FOR 48040 F7J OR F7B ONLY WITH H CONTROL

FOR GPD505, 506, A1000, V1000, F7, GA500, GA800 INVERTERS

SCHEMATIC: VARIABLE SPEED CONTROLLER

PELLERIN MILNOR CORPORATION

W7X8JVPC
2021332B

W7X8JVPC
2021332B