



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

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Schematic/Electrical Parts

MWF18/27/45J8,

MWF63/77/100/125J7/C7

E-P Plus® Controls



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

Table of Contents

ME7MWFJ1AE/25104A

Page	Description	Document
1	Component Parts List	W7MWFJPL/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 Layouts	W7MWFJTG1/2020395B
30	Board to Board Wiring	W7MWFJBW/2019335B
32	Flushing Supplies	W7MWFJCF/2017314B
34	Optional 12 Chemical Flushing	W7MWFJCM/2017314B
36	Extract Speed Limit	W7MWFJEC/2023014B
38	Electric heat	W7MWFJEH/2017314B
40	Electric Valves	W7MWFJEV/2017314B
42	Control Circuit Transformers	W7MWFJLV/2017314B
44	Microprocessor Inputs	W7MWFJIA/2020394B
46	Raise House 48040F7B	W7MWFJRH/2020394B
48	Raise House MWF63/77C7/100C7/125C7	W7MWFJRHA/2020394B
50	Start & Door Circuit MWF2J8	W7MWFJS+/2025104B
52	Start & Door Circuit MWF45/63/77/100J8/7	W7MWFJS+A/2017314B
54	Start & Door Circuit MWF63/77/100C7	W7MWFJS+B/2020394B
56	Start & Door Circuit MWF18/27 J8 No Fuse Board	W7MWFJS+C/2025104B
58	Start & Door Circuit MWF45J8, 63J7, 77J7, 100J7 & 125J7 No Fuse Board	W7MWFJS+D/2020394B
60	Start & Door Circuit 48040F7B, MWF63C7, 77C7, 100C7 & 125C7 No Fuse Board	W7MWFJS+E/2020394B
62	Variable Speed Controller MWF18-77J8/7	W7MWFJVPA/2021072B
64	Variable Speed Controller MWF27J8 1-PH	W7MWFJVPB/2020424B
66	MWF63/77/100J7/C7/125J7/C7 Variable Speed Controller	W7MWFJVPC/2020424B

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT				
	>>CONTROL BOX LAYOUTS					
01	DETAIL-CNTL PNL MW100J/C7 & MW125J/C7	W7MWFJTG1		B2T2020012	TAG MW100J/C7, 125J/C7 CONTROL PANEL	SEE FUNCTION
02	DETAIL-CNTL PNL MW127, 45J8, 63&77J7 NON	W7MWFJTG1		B2T2020010	TAG MW127, 45J8, 63 & 77J7 NON TILT CP	SEE FUNCTION
03	DETAIL-CNTL PNL MW163 & 77C7 TILT	W7MWFJTG1		B2T2020011	TAG MW163 & 77C7 TILT CNTRL PNL	SEE FUNCTION
AC	>>ACCELEROMETERS					
ACBA	BOARD-ACCELEROMETER < 7-2022	W7MWFJEC		EACCLRM3	ASSY:ACCEL O-5VOC OP STAPH 42	REAR OF MACH
ACBA	BOARD-ACCELEROMETER > 7-2022	W7MWFJEC		EACCLRM8	ASSMBLY:ACCELEROMETER 1 VOLT PER G	REAR OF MACH
BA	>>PRINTED CIRCUIT BOARDS					
BADV	BOARD=DISPLAY/SWITCH PANEL	W7MWFJBW		98CMCR1823	BD:EP PLUS DISPLAY	BEHIND SWPNL
BAFR	BOARD-FUSE / RELAY	W7MWFJS+		08BHFRC1	BD-TN/X START CIRCUIT->TEST	CONTROL PANEL
BAFR	BOARD-FUSE / RELAY	W7MWFJS+A		08BHFRC1	BD-TN/X START CIRCUIT->TEST	CONTROL PANEL
BAFR	BOARD-FUSE / RELAY	W7MWFJS+B		08BHFRC1	BD-TN/X START CIRCUIT->TEST	CONTROL PANEL
BAUP	BOARD=PROCESSOR+I/O	W7MWFJBW		98CMCR1822	BD:EP PLUS ->TEST	CONTROL PANEL
BBAD-1	BOARD-A TO D CONVERTER	W7MWFJEC		08BSBADCTE	SR BALANCE A-D BD EXTACTR-TEST	CONTROL BOX
CL	>>RELAY-LATCH					
CLA	RELAY-DOOR SEAL	W7MWFJS+A		09CL2C-C71	RELAY-LATCH DPDT 240V 2-COIL	CONTROL PANEL
CLA	RELAY-DOOR SEAL	W7MWFJS+B		09CL2C-C71	RELAY-LATCH DPDT 240V 2-COIL	CONTROL PANEL
CLA	RELAY-DOOR SEAL	W7MWFJS+D		09CL2C-C71	RELAY-LATCH DPDT 240V 2-COIL	CONTROL PANEL
CLA	RELAY-DOOR SEAL	W7MWFJS+E		09CL2C-C71	RELAY-LATCH DPDT 240V 2-COIL	CONTROL PANEL
CLA-CHOKE	CHOKE-DOOR SEAL LATCH	W7MWFJS+A		10YCLCHOKE	LATCH HARNES: RF CHOKE	CONTROL BOX
CLA-CHOKE	CHOKE-DOOR SEAL LATCH	W7MWFJS+B		10YCLCHOKE	LATCH HARNES: RF CHOKE	CONTROL BOX
CLA-CHOKE	CHOKE-DOOR SEAL LATCH	W7MWFJS+D		10YCLCHOKE	LATCH HARNES: RF CHOKE	CONTROL BOX
CLA-CHOKE	CHOKE-DOOR SEAL LATCH	W7MWFJS+E		10YCLCHOKE	LATCH HARNES: RF CHOKE	CONTROL BOX
CR	>>RELAY-PILOT OR CONTROL					
CRALT	RELAY-OUT OF BALANCE TOO LARGE	W7MWFJEC		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC1	RELAY-FLUSH CHEMICAL #1	W7MWFJCM		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC2	RELAY-FLUSH CHEMICAL #2	W7MWFJCM		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC3	RELAY-FLUSH CHEMICAL #3	W7MWFJCM		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC4	RELAY-FLUSH CHEMICAL #4	W7MWFJCM		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC5	RELAY-FLUSH CHEMICAL #5	W7MWFJCM		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRC6	RELAY-FLUSH CHEMICAL #6	W7MWFJCM		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRD	RELAY-OK TO OPEN DOOR	W7MWFJS+		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRD	RELAY-OK TO OPEN DOOR	W7MWFJS+A		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT				
CRD	RELAY-OK TO OPEN DOOR	W7MWFJS+B		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRD	RELAY-OK TO OPEN DOOR	W7MWFJS+C		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRD	RELAY-OK TO OPEN DOOR	W7MWFJS+D		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRD	RELAY-OK TO OPEN DOOR	W7MWFJS+E		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDB	RELAY-DEFLATE BAG	W7MWFJS+B		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDB	RELAY-DEFLATE BAG	W7MWFJS+E		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDL	RELAY-DOOR CLOSED AND LOCKED	W7MWFJS+		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDL	RELAY-DOOR CLOSED	W7MWFJS+A		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDL	RELAY-DOOR CLOSED	W7MWFJS+B		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDL	RELAY-DOOR CLOSED AND LOCKED	W7MWFJS+C		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDL	RELAY-DOOR CLOSED	W7MWFJS+D		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDL	RELAY-DOOR CLOSED	W7MWFJS+E		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRDOA	RELAY-DOOR FULL OPEN	W7MWFJRHA		09C024D71	RELAY 4PDT DIFGLD 14PN 240V W/LED	CONTROL PANEL
CRDOA	RELAY-DOOR FULL OPEN	W7MWFJRH		09C024D71	RELAY 4PDT DIFGLD 14PN 240V W/LED	CONTROL PANEL
CRE	RELAY-OK TO LOCK DOOR	W7MWFJS+		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRE	RELAY-OK TO LOCK DOOR	W7MWFJS+C		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRE1	RELAY-OK TO TILT	W7MWFJS+B		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRE1	RELAY-OK TO JOG	W7MWFJS+D		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRE1	RELAY-OK TO TILT	W7MWFJS+E		09C024D71	RELAY 4PDT DIFGLD 14PN 240V	CONTROL PANEL
CRFDL	RELAY-FRONT DOWN LEFT	W7MWFJRH		09C024D71	RELAY 4PDT DIFGLD 14PN 240V W/LED	CONTROL PANEL
CRFDR	RELAY-FRONT DOWN RIGHT	W7MWFJRH		09C024D71	RELAY 4PDT DIFGLD 14PN 240V W/LED	CONTROL PANEL
CRRDL	RELAY-REAR DOWN LEFT	W7MWFJRHA		09C024D71	RELAY 4PDT DIFGLD 14PN 240V W/LED	CONTROL PANEL
CRRDL	RELAY-REAR DOWN LEFT	W7MWFJRH		09C024D71	RELAY 4PDT DIFGLD 14PN 240V W/LED	CONTROL PANEL
CRRDR	RELAY-REAR DOWN RIGHT	W7MWFJRHA		09C024D71	RELAY 4PDT DIFGLD 14PN 240V W/LED	CONTROL PANEL
CRRDR	RELAY-REAR DOWN RIGHT	W7MWFJRH		09C024D71	RELAY 4PDT DIFGLD 14PN 240V W/LED	CONTROL PANEL
CS	>>CONTACTOR-MOTOR STARTER					
CSVS	CONTACTOR-INVERTER >MW/F27J7	W7MWFJS+		98CMCR3004	3022X CONTACTOR 18A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER MW/F45J7	W7MWFJS+A		98CMCR3601	CONTACTOR 3626X 32A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER MW/F63.77,100 LV	W7MWFJS+A		98CMCR4201	CONTACTOR 42X LOW VOLT 38A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER MW/F63.77 100HV	W7MWFJS+A		98CMCR4202	CONTACTOR 42X HIGH VOLT 25A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER MW/F63.77,100 LV	W7MWFJS+B		98CMCR4201	CONTACTOR 42X LOW VOLT 38A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER MW/F63.77 100HV	W7MWFJS+B		98CMCR4202	CONTACTOR 42X HIGH VOLT 25A	CONTROL PANEL
CSVS	CONTACTOR-VARIABLE SPEED	W7MWFJVPB		09MC08C371	16A 3P MCS CONT NR 240V5/6	CONTROL PANEL

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT	THIS COMPONENT			
CSVS	CONTACTOR-VARIABLE SPEED WWF100J7 (HIGH)	W7MWFJVPC		09MC08G371	37A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-VARIABLE SPEED WWF100J7 (LOW)	W7MWFJVPC		09MC08N371	72A 3P MCS CONT NR 240V5/6	CONTROL PANEL
CSVS	CONTACTOR-INVERTER >WWF27J7		W7MWFJS+C	98CMCR3004	3022X CONTACTOR 18A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER WWF45J7		W7MWFJS+D	98CMCR3601	CONTACTOR 3626X 32A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER WWF63,77,100 LV		W7MWFJS+D	98CMCR4201	CONTACTOR 42X LOW VOLT 38A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER WWF63,77 100HV		W7MWFJS+D	98CMCR4202	CONTACTOR 42X HIGH VOLT 25A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER WWF63,77,100 LV		W7MWFJS+E	98CMCR4201	CONTACTOR 42X LOW VOLT 38A	CONTROL PANEL
CSVS	CONTACTOR-INVERTER WWF63,77 100HV		W7MWFJS+E	98CMCR4202	CONTACTOR 42X HIGH VOLT 25A	CONTROL PANEL
EF	>>FUSE OR FUSE HOLDER					
EF1	FUSE-CONTROL CIRCUIT X-BUS	W7MWFJS+		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF1	FUSE-CONTROL CIRCUIT X-BUS	W7MWFJS+C		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT Y-BUS	W7MWFJS+		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT X-BUS	W7MWFJS+A		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT Y-BUS	W7MWFJS+A		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT X-BUS	W7MWFJS+B		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT Y-BUS	W7MWFJS+B		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT Y-BUS	W7MWFJS+C		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT X-BUS	W7MWFJS+D		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT Y-BUS	W7MWFJS+D		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT X-BUS	W7MWFJS+E		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EF2	FUSE-CONTROL CIRCUIT Y-BUS	W7MWFJS+E		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONTROL PANEL
EFP1	FUSE-TRANSFORMER PRIMARY	W7MWFJLV		09FF005AWN	FUSE #KTK 5A600V=HPS HOLDER	CONTROL PANEL
EFP2	FUSE-TRANSFORMER PRIMARY	W7MWFJLV		09FF005AWN	FUSE #KTK 5A600V=HPS HOLDER	CONTROL PANEL
EM	>>ELECTROMAGNET AND SOLENOID					
EMDL	SOLENOID-DOOR UNLOCK	W7MWFJS+		09K063C24	DOOR LOCK SOLENOID 24V	DOOR LATCH
EMDL	SOLENOID-DOOR UNLOCK	W7MWFJS+C		09K063C24	DOOR LOCK SOLENOID 24V	DOOR LATCH
ES	>>POWER SUPPLY-ELECTRONIC					
ESPS	POWER SUPPLY-PROCESSOR	W7MWFJBW		98CMCR3003	POWER SUPPLY 40 WATT X MACHINES	CONTROL PANEL
ET	OVERLOAD-DYNAMIC BRAKE					
ETDB	OVERLOAD-DYNAMIC BRAKE	W7MWFJVPB		09F024A	OL RELAY 1P SZ1 SQD #9065-C01	CONTROL PANEL
ETDB	OVERLOAD-VARIABLE SPEED (HIGH)	W7MWFJVPC		09FTD0121T	MCS OL RELAY ADJ.RANGE 12-37	CONTROL PANEL
ETDB	OVERLOAD-VARIABLE SPEED (LOW)	W7MWFJVPC		09FTD0230T	MCS OL RELAY ADJ.RANGE 23-75	CONTROL PANEL
ETVS	OVERLOAD-VARIABLE SPEED 3022	W7MWFJVPA		09FTD0120T	MCS OL RELAY ADJ.RANGE 12-32	CONTROL PANEL

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND			MIL NOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT					
ETVS	OVERLOAD-VARIABLE SPEED	W7MWFJVPA			09FTD0121T	MCS OL RELAY ADJ.RANGE 12-37	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD MMF27J7 LV	W7MWFJVPA			98CMCR3005	3022XOVERLOAD LOW VOLT 12-18A	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD MMF27J7 HV	W7MWFJVPA			98CMCR3006	3022XOVERLOAD HI VOLT 7-10A	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD MMF45J7 LV	W7MWFJVPA			98CMCR3602	3626XOVERLOAD LOW VOLT 30-38A	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD MMF45J7 HV	W7MWFJVPA			98CMCR3603	3626XOVERLOAD HI VOLT 12-18A	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD MMF63,77J7 LV	W7MWFJVPA			98CMCR4203	42XOVERLOAD LOW VOLT 30-38A	CONTROL PANEL
ETVS	O'LOAD-VARIABLE SPD MMF63,77J7 HV	W7MWFJVPA			98CMCR4204	42XOVERLOAD HI VOLT 30-38A	CONTROL PANEL
ETVS	OVERLOAD-VARIABLE SPEED	W7MWFJVPB			09FTD0120T	MCS OL RELAY ADJ.RANGE 16-24A	CONTROL PANEL
EX	>>TRANSFORMERS						
EXHV	TRANSFORMER-INCOMING VOLT 240VAC	W7MWFJLV			MESSAGE EW	SEE EX37-1, -2, OR -3 FOR VOLTAGE	CONTROL PANEL
EXHV-1	TRANSFORMR-208/240VAC	W7MWFJLV			98CMCR0902	AUTOXFMR 208V/230V 250VA	CONTROL PANEL
EXHV-2	TRANSFORMER-380/480V TO 240V	W7MWFJLV			09UA025AAB	XFMR 380-480PRI/120-240SEC250V	CONTROL PANEL
EXHV-3	TRANSFORMER-600V TO 240V	W7MWFJLV			09U251AB71	XFMR 600VPRI/240VSC-250VA-3%REG	CONTROL PANEL
MT	>>>MOTORS						
MTVP	FAN-INVERTER COOLING	W7MWFJS-A			13AF100A71	FAN 92CFM230V/60	CONTROL BOX
MTVP	FAN-INVERTER COOLING	W7MWFJS-B			13AF100A71	FAN 92CFM230V/60	CONTROL BOX
MTVP	FAN-INVERTER COOLING	W7MWFJS+D			13AF100A71	FAN 92CFM230V/60	CONTROL BOX
MTVP	FAN-INVERTER COOLING	W7MWFJS+E			13AF100A71	FAN 92CFM230V/60	CONTROL BOX
MTWE	MOTOR-WASHER	W7MWFJVPA			MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	BELOW SHELL
MTWE	MOTOR-WASHER	W7MWFJVPB			MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	BELOW SHELL
MTWE	MOTOR-WASHER	W7MWFJVPC			MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	BELOW SHELL
MV	>>>MOTOR POWER INVERTERS						
MVDBR	RESISTOR-DYNAMIC BRAKE (MMF27J7)	W7MWFJVPA			09MV100RES	RESIST 100 OHM 225WATT ADJ	CONTROL PANEL
MVDBR	RESISTOR-DYNAMIC BRAKE (MMF45,63,77 HIG)	W7MWFJVPA			09MV050REV	RESISTOR 50OHM 225W #FVT200-50	CONTROL PANEL
MVDBR	RESISTOR-DYNAMIC BRAKE (MMF63,77 LOW)	W7MWFJVPA			09MV010REV	RESISTOR 100HM 225W #FVT200-10	CONTROL PANEL
MVDBR	RESISTOR-DYNAMIC BRAKE	W7MWFJVPB			09MV100RES	RESIST 100 OHM 225WATT ADJ	CONTROL PANEL
MVDBR	RESISTOR UNIT-DYNAMIC BRAKE (MMF100 LV)	W7MWFJVPC			09MV11DBRL	RESTR UNIT 12.5OHM 900W LOW VL	CONTROL PANEL
MVDBR	RESISTOR UNIT-DYNAMIC BRAKE (MMF100 HV)	W7MWFJVPC			09MV10DBRJ	3-RESISTOR UNIT	CONTROL PANEL
MVINV	INVERTER-VARI SPEED LOW VOLTAGE	W7MWFJVPA			MESSAGE EW	SEE BELOW	CONTROL PANEL
MVINV	INVERTER-VARI SPEED LOW VOLTAGE	W7MWFJVPB			MESSAGE EW	SEE BELOW	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HV MMF27J7	W7MWFJVPA			09MMWB00996	V1000 INVERTER 9.2AMP 460V	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEED HV MMF45J7	W7MWFJVPA			09MMWB01896	V1000 INVERTER 18AMP 460V	CONTROL PANEL
MVINV-H	INVERTER-VARI SPEEDHV MMF63J7	W7MWFJVPA			09MMWB02496	V1000 INVERTER 24AMP 460V	CONTROL PANEL

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS		WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
	COMPONENT NUMBER		THIS COMPONENT				
M/INV-H	INVERTER-VARI SPEED HV MW77J7		W7MWFJVPA		09MMWB02496	V1000 INVERTER 24AMP 460V	CONTROL PANEL
M/INV-H	INVERTER-VARI SPEED HV MW7100J7		W7MWFJVPB		09MMWC03996	A1000 INVERTER 39 AMP	CONTROL PANEL
M/INV-L	INVERTER-VARI SPEED LV MW727J7		W7MWFJVPA		09MMWB01774	V1000 INVERTER 17.5AMP 230V	CONTROL PANEL
M/INV-L	INVERTER-VARI SPEED LV MW745J7		W7MWFJVPA		09MMWB03374	V1000 INVERTER 33AMP 230V	CONTROL PANEL
M/INV-L	INVERTER-VARI SPEED LV MW763J7		W7MWFJVPA		09MMWB04774	V1000 INVERTER 47AMP 230V	CONTROL PANEL
M/INV-L	INVERTER-VARI SPEED LV MW777J7		W7MWFJVPA		09MMWB04774	V1000 INVERTER 47AMP 230V	CONTROL PANEL
M/INV-L	INVERTER-VARI SPEED LV MW7100J7		W7MWFJVPB		09MMWC07574	A1000 INVERTER 75 AMP	CONTROL PANEL
PX	>>>PROX SWITCHES						
PXDO	PROX SWITCH-DOOR FULL OPEN		W7MWFJRHA		09RPS18CAS	PRXSW QKCO 18M NO-AC SHLD	SHELL FRONT
PXDO	PROX SWITCH-DOOR FULL OPEN		W7MWFJRH		09RPS18CAS	PRXSW QKCO 18M NO-AC SHLD	SHELL FRONT
PXFDL	PROX SWITCH-FRONT DOWN LEFT		W7MWFJRHA		09RPS12AAS	PROXSW QD CONN 12M NO-AC SHLD	MACHINE BASE
PXFDL	PROX SWITCH-FRONT DOWN LEFT		W7MWFJRH		09RPS12AAS	PROXSW QD CONN 12M NO-AC SHLD	MACHINE BASE
PXFDL	PROX SWITCH-FRONT DOWN RIGHT		W7MWFJRH		09RPS12AAS	PROXSW QD CONN 12M NO-AC SHLD	MACHINE BASE
PXRDL	PROX SWITCH-REAR DOWN LEFT		W7MWFJRH		09RPS12AAS	PROXSW QD CONN 12M NO-AC SHLD	MACHINE BASE
PXRDL	PROX SWITCH-REAR DOWN RIGHT		W7MWFJRHA		09RPS12AAS	PROXSW QD CONN 12M NO-AC SHLD	MACHINE BASE
PXRDR	PROX SWITCH-REAR DOWN RIGHT		W7MWFJRH		09RPS12AAS	PROXSW QD CONN 12M NO-AC SHLD	MACHINE BASE
SH	>>SWITCH-HAND OPERATED						
SH01	SWITCH-208/240VAC		W7MWFJLV		08BHFRCF	BD-TV/X START CIRCUIT->TEST	CONTROL PANEL
SHCW	SWITCH-JOG		W7MWFJVPC		09N405M320	SWASS M3W 2NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN		W7MWFJJA		09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN		W7MWFJS+		09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN		W7MWFJS+A		09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN		W7MWFJS+B		09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN		W7MWFJS+C		09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN		W7MWFJS+D		09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN		W7MWFJS+E		09N405PB10	SWASS PBBK 1NO	SWITCH PANEL
SHES	SWITCH-EMERGENCY STOP (OPTIONAL)		W7MWFJS+		09N508A	SW ASSY EMER STOP VERSION 3-2POLE	FRONT
SHES	SWITCH-EMERGENCY STOP (OPTIONAL)		W7MWFJS+A		09N508A	SW ASSY EMER STOP VERSION 3-2POLE	FRONT
SHES	SWITCH-EMERGENCY STOP (OPTIONAL)		W7MWFJS+B		09N508A	SW ASSY EMER STOP VERSION 3-2POLE	FRONT
SHES	SWITCH-EMERGENCY STOP (OPTIONAL)		W7MWFJS+C		09N508A	SW ASSY EMER STOP VERSION 3-2POLE	FRONT
SHES	SWITCH-EMERGENCY STOP (OPTIONAL)		W7MWFJS+D		09N508A	SW ASSY EMER STOP VERSION 3-2POLE	FRONT
SHES	SWITCH-EMERGENCY STOP (OPTIONAL)		W7MWFJS+E		09N508A	SW ASSY EMER STOP VERSION 3-2POLE	FRONT
SHMF	SWITCH-MANUAL FLUSH		W7MWFJEV		09N405PB10	SWASS PBBK 1NO	SWITCH PANEL

COMPONENT PARTS LIST

COMPONENT		FUNCTION OF THIS		WHERE TO FIND			
NUMBER	COMPONENT NUMBER	THIS COMPONENT	MIL NOR P/N	DESCRIPTION	LOCATION		
SHSMA	SWITCH-MASTER SWITCH	W7MWFJS+	09N405M220	SWASS M2W 2NO	SWITCH PANEL		
SHSMA	SWITCH-MASTER SWITCH	W7MWFJS+A	09N405M220	SWASS M2W 2NO	SWITCH PANEL		
SHSMA	SWITCH-MASTER SWITCH	W7MWFJS+B	09N405M220	SWASS M2W 2NO	SWITCH PANEL		
SHSMA	SWITCH-MASTER SWITCH	W7MWFJS+C	09N405M220	SWASS M2W 2NO	SWITCH PANEL		
SHSMA	SWITCH-MASTER SWITCH	W7MWFJS+D	09N405M220	SWASS M2W 2NO	SWITCH PANEL		
SHSMA	SWITCH-MASTER SWITCH	W7MWFJS+E	09N405M220	SWASS M2W 2NO	SWITCH PANEL		
SHU	SWITCH-UP/DOWN	W7MWFJRHA	09N405S320	SWASS M3W 2NO	SWITCH PANEL		
SHU	SWITCH-UP/DOWN	W7MWFJRH	09N405S320	SWASS M3W 2NO	SWITCH PANEL		
SHWCF	SWITCH-FLUSH CHEMICALS	W7MWFJCF	09N405PB10	SWASS PBBK 1NO	SIDE OF MACHINE		
SK	>>SWITCH-KEYLOCK						
SKPR	SWITCH-RUN/PROGRAM	W7MWFJJA	09N127C	KEYSW SPST 7A120VAC SCREW TERM	SWITCH PANEL		
SM	>>SWITCH-MECHANICAL OPERATED						
SMD	SWITCH-DOOR IS LOCKED	W7MWFJS+	09R010D	DOOR LOCK SWITCH	DOOR LATCH		
SMD	SWITCH-DOOR INTERLOCK	W7MWFJS+A	09R014A	MINI-SW SPDT STAKON #V15G1C26K	DOOR LATCH		
SMD	SWITCH-DOOR INTERLOCK	W7MWFJS+B	09R014A	MINI-SW SPDT STAKON #V15G1C26K	DOOR LATCH		
SMD	SWITCH-DOOR IS LOCKED	W7MWFJS+C	09R010D	DOOR LOCK SWITCH	DOOR LATCH		
SMD	SWITCH-DOOR INTERLOCK	W7MWFJS+D	09R014A	MINI-SW SPDT STAKON #V15G1C26K	DOOR LATCH		
SMD	SWITCH-DOOR INTERLOCK	W7MWFJS+E	09R014A	MINI-SW SPDT STAKON #V15G1C26K	DOOR LATCH		
SMDE	SWITCH-DOOR SECONDARY SWITCH	W7MWFJS+A	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR LATCH		
SMDE	SWITCH-DOOR SECONDARY SWITCH	W7MWFJS+B	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR LATCH		
SMDE	SWITCH-DOOR SECONDARY SWITCH	W7MWFJS+D	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR LATCH		
SMDE	SWITCH-DOOR SECONDARY SWITCH	W7MWFJS+E	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR LATCH		
SME	SWITCH-DOOR IS LOCKED	W7MWFJS+	09R010D	DOOR LOCK SWITCH	DOOR LATCH		
SME	SWITCH-DOOR IS LOCKED	W7MWFJS+C	09R010D	DOOR LOCK SWITCH	DOOR LATCH		
SMEX	SWITCH-EXCURSION	W7MWFJJA	09R008ASTD	09R008A+MOUNTING HDWRE+INST	SIDE OF SHELL		
SMWVB	SWITCH-VIBRATION	W7MWFJJA	SAE03 151	ASSY-VIBRATION SWT=LG CONTR	CONTROL PANEL		
SP	>>>SWITCH-H-PRESSURE						
SPA	SWITCH-AIR PRESSURE AVAILABLE	W7MWFJS+A	09N082A	PRESSW NASON CLOSE @ 62 LB	CONTROL PANEL		
SPA	SWITCH-AIR PRESSURE AVAILABLE	W7MWFJS+B	09N082A	PRESSW NASON CLOSE @ 62 LB	CONTROL PANEL		
SPA	SWITCH-AIR PRESSURE AVAILABLE	W7MWFJS+D	09N082A	PRESSW NASON CLOSE @ 62 LB	CONTROL PANEL		
SPA	SWITCH-AIR PRESSURE AVAILABLE	W7MWFJS+E	09N082A	PRESSW NASON CLOSE @ 62 LB	CONTROL PANEL		
SPBP	SWITCH-BEARING SEAL	W7MWFJJA	09N082B05	PRESSW NASON CLOSE @ 5 LB	AIR VALVE BOX		
SPBS	SWITCH-BRAKE PRESSURE	W7MWFJJA	09N082A	PRESSW NASON CLOSE @ 62 LB	AIR VALVE BOX		

COMPONENT PARTS LIST

COMPONENT		FUNCTION OF THIS		WHERE TO FIND		LOCATION
NUMBER	COMPONENT NUMBER	THIS COMPONENT	MIL NOR P/N	DESCRIPTION		
SPD	SWITCH-DOOR PRESSURE LOW	W7MWFJS+A	09N082B10	PRESSW NASON CLOSE @ 10 LB	AIR VALVE BOX	
SPD	SWITCH-DOOR PRESSURE LOW	W7MWFJS+B	09N082B10	PRESSW NASON CLOSE @ 10 LB	AIR VALVE BOX	
SPD	SWITCH-DOOR PRESSURE LOW	W7MWFJS+D	09N082B10	PRESSW NASON CLOSE @ 10 LB	AIR VALVE BOX	
SPD	SWITCH-DOOR PRESSURE LOW	W7MWFJS+E	09N082B10	PRESSW NASON CLOSE @ 10 LB	AIR VALVE BOX	
ST	>>>SWITCH-TEMPERATURE					
STDB	SWITCH-THERMOSTAT DYNAMIC BRAKE	W7MWFJS+	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST	
STDB	SWITCH-THERMOSTAT DYNAMIC BRAKE	W7MWFJS+A	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST	
STDB	SWITCH-THERMOSTAT DYNAMIC BRAKE	W7MWFJS+C	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST	
STDB	SWITCH-THERMOSTAT DYNAMIC BRAKE	W7MWFJS+D	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST	
STDB	SWITCH-THERMOSTAT DYNAMIC BRAKE	W7MWFJS+E	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST	
VE	>>VALVE-ELECTRIC OPERATED					
VEBP	VALVE-BEARING PRESSURE	W7MWFJS+A	96TBC2BA71	1/4" N/C 2WAY 220V50/60C VALVE	VALVE BOX	
VEBP	VALVE-BEARING PRESSURE	W7MWFJS+B	96TBC2BA71	1/4" N/C 2WAY 220V50/60C VALVE	VALVE BOX	
VEBR	VAVL-BRAKE RELEASE	W7MWFJS+A	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX	
VEBR	VAVL-BRAKE RELEASE	W7MWFJS+B	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX	
VEC01	VALVE-CHEMICAL #1 FLUSH	W7MWFJCF	96P013B71	3/4" 2WAYPLASTICVAL 240V60C	5 CMPMT SUPPLY	
VEC02	VALVE-CHEMICAL #2 FLUSH	W7MWFJCF	96P013B71	3/4" 2WAYPLASTICVAL 240V60C	5 CMPMT SUPPLY	
VEC03	VALVE-CHEMICAL #3 FLUSH	W7MWFJCF	96P013B71	3/4" 2WAYPLASTICVAL 240V60C	5 CMPMT SUPPLY	
VEC04	VALVE-CHEMICAL #4 FLUSH	W7MWFJCF	96P013B71	3/4" 2WAYPLASTICVAL 240V60C	5 CMPMT SUPPLY	
VEC05	VALVE-CHEMICAL #5 FLUSH	W7MWFJCF	96P013B71	3/4" 2WAYPLASTICVAL 240V60C	5 CMPMT SUPPLY	
VECD	VALVE-COOLDOWN WATER MMWF27J7	W7MWFJEV	96P057A71	1/2"NPT X 1/2"ORIFICE 240V 5/6	REAR OF MACH	
VECD	VALVE-COOLDOWN WATER MMWF45J7	W7MWFJEV	96P056A71	3/4" NC 230V50/60 W/LEADS BURK	REAR OF MACH	
VECD	VALVE-COOLDOWN WATER MMWF63,77J7	W7MWFJEV	96P152A71	1+1/4"NC 240V W/LEADS BURK	REAR OF MACH	
VECD	VALVE-COOLDOWN WATER MMWF100J7	W7MWFJEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX	
VED	VALVE-DOWN	W7MWFJSHA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX	
VED	VALVE-DOWN	W7MWFJRH	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX	
VEDL	VALVE-DOOR UNLATCH MMWF45,63,77,100J7	W7MWFJS+A	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG	
VEDL	VALVE-DOOR UNLATCH MMWF45,63,77,100J7	W7MWFJS+B	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG	
VEDL	VALVE-DOOR UNLATCH MMWF45,63,77,100J7	W7MWFJS+D	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG	
VEDL	VALVE-DOOR UNLATCH MMWF45,63,77,100J7	W7MWFJS+E	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG	
VEDR	VALVE-DRAIN ALL EXCEPT MMWF100J7	W7MWFJEV	96D350A71	DRINVAL 3"N/O MTRDR240V 50/60C	LOWER REAR	
VEDR	VALVE-DRAIN MMWF100J7	W7MWFJEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX	
VEDRR	VALVE-DRAIN TO REUSE ALL EXCEPT MMWF100J7	W7MWFJEV	96D350B71	DRINVAL 3"N/C MTRDR240V 50/60	LOWER REAR	

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS		WHERE TO FIND		
	COMPONENT NUMBER	THIS COMPONENT	MIL NOR P/N	DESCRIPTION	LOCATION
VEDRR	VALVE-DRAIN TO REUSE MMWF100J6	W7MWFJEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEF	VALVE-FRONT	W7MWFJRH	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEFL	VALVE-FLUSH-MMWF27J7	W7MWFJEV	96P057A71	1/2"NPT X 1/2"ORIFICE 240V 5/6	REAR OF MACH
VEFL	VALVE-FLUSH-MMWF45,63,77J7	W7MWFJEV	96P056A71	3/4" NC 230V50/60 W/LEADS BURK	REAR OF MACH
VEFLS	VALVE-FLUSH SOAP	W7MWFJEV	96P013G71	3/4" 2WAY PLAS-VAL 240V/60C	SOAP CHUTE
VEPPO	VALVE-DOOR SEAL MMWF45,63,77,100J7	W7MWFJS+A	98CMCR3002	PILOT VALVE GANG N.O. X MACHINE	REAR RT LEG
VEPPO	VALVE-DOOR SEAL MMWF45,63,77,100J7	W7MWFJS+B	98CMCR3002	PILOT VALVE GANG N.O. X MACHINE	REAR RT LEG
VEPPO	VALVE-DOOR SEAL MMWF45,63,77,100J7	W7MWFJS+D	98CMCR3002	PILOT VALVE GANG N.O. X MACHINE	REAR RT LEG
VEPPO	VALVE-DOOR SEAL MMWF45,63,77,100J7	W7MWFJS+E	98CMCR3002	PILOT VALVE GANG N.O. X MACHINE	REAR RT LEG
VER	VALVE-REAR	W7MWFJRH	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VESTM	VALVE-STEAM-MMWF45,63,77J7	W7MWFJEV	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VESTM	VALVE STEAM MMWF100J7	W7MWFJEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEU	VALVE-UP	W7MWFJRHA	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEU	VALVE-UP	W7MWFJRH	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEWC	VALVE-COLD WATER MMWF27J7	W7MWFJEV	96P057A71	1/2"NPT X 1/2"ORIFICE 240V 5/6	REAR OF MACH
VEWC	VALVE-COLD WATER MMWF45J7	W7MWFJEV	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VEWC	VALVE-COLD WATER MMWF63,77J	W7MWFJEV	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VEWC	VALVE-COLD WATER MMWF100J7	W7MWFJEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEWC	VALVE-HOT WATER MMWF45J7	W7MWFJEV	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VEWC	VALVE-HOT WATER MMWF63,77J7	W7MWFJEV	98CMCR3001	PILOT VALVE GANG N.C. X MACHINE	REAR RT LEG
VEWH	VALVE-HOT WATER MMWF27J7	W7MWFJEV	96P057A71	1/2"NPT X 1/2"ORIFICE 240V 5/6	REAR OF MACH
VEWH	VALVE-HOT WATER MMWF100J7	W7MWFJEV	96R301B71	1/8" AIRPILOT 3W NC 240V50/60	VALVE BOX
VEWVX	VALVE-EXTRA WATER MMWF27J7	W7MWFJEV	96P057A71	1/2"NPT X 1/2"ORIFICE 240V 5/6	REAR OF MACH
VEWVX	VALVE-EXTRA WATER MMWF45J7	W7MWFJEV	96P056A71	3/4" NC 230V50/60 W/LEADS BURK	REAR OF MACH
VEWVX	VALVE-EXTRA WATER MMWF63,77J7	W7MWFJEV	96P152A71	1+1/4"NC 240V W/LEADS BURK	REAR OF MACH
VEWVX	VALVE-EXTRA WATER MMWF100J7	W7MWFJEV	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.

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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.

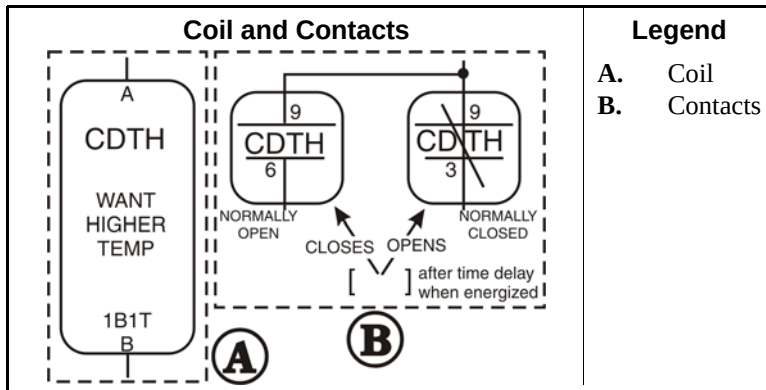
CB=Circuit Breaker (Figure 1)—Automatic switch that opens an electric circuit in abnormal current conditions (e.g., an overload).

Figure 1: Circuit Breaker (CB)



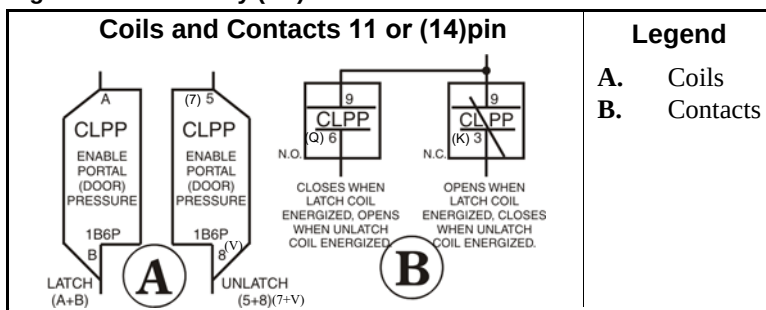
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



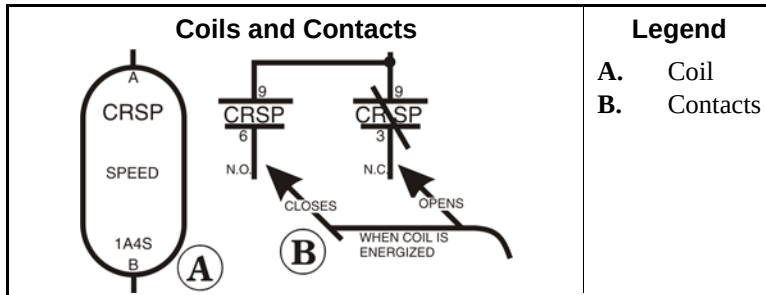
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



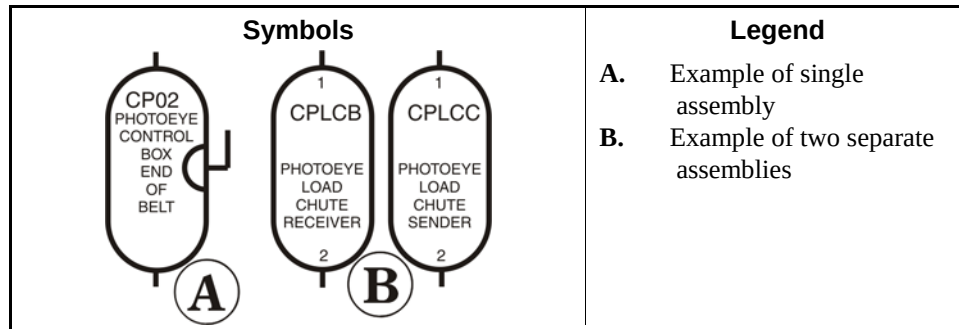
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



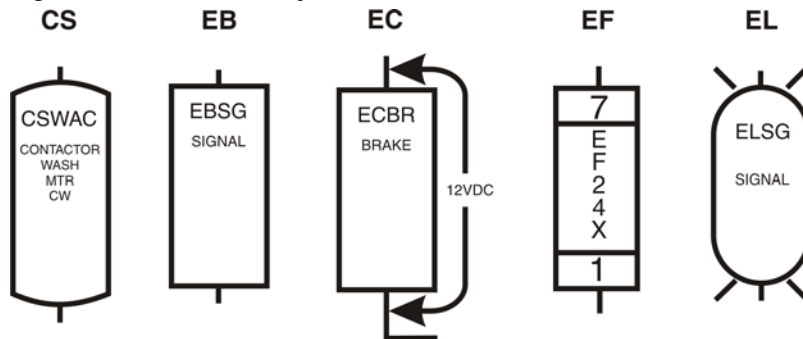
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these 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.

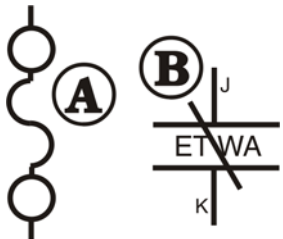
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

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.

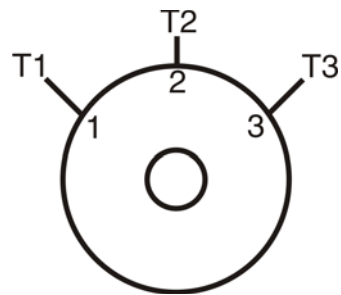
MN=Electronic Monitor (CRT)—A cathode ray tube used for visual presentation of data.

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

Figure 8: Transformer (EX)



Figure 9: Electric Motor (MR)

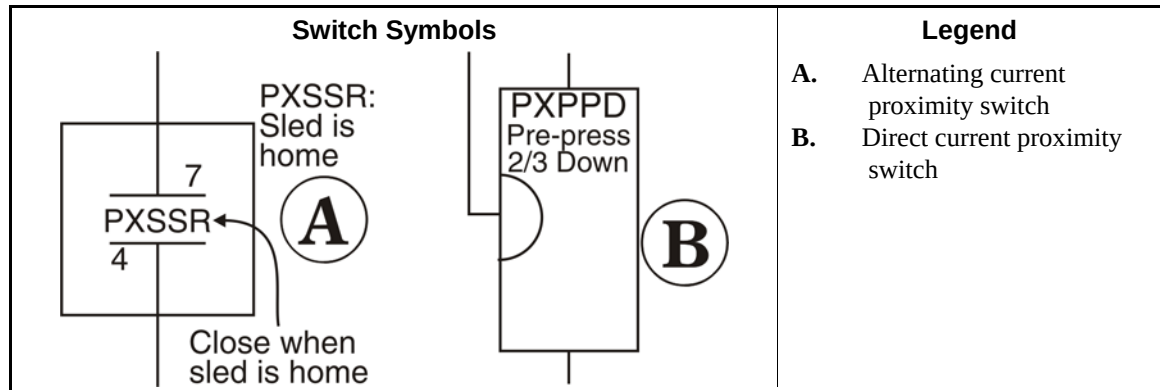


MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the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

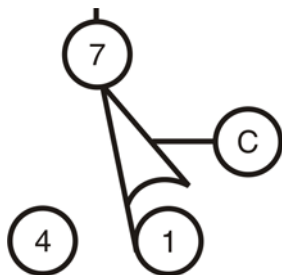
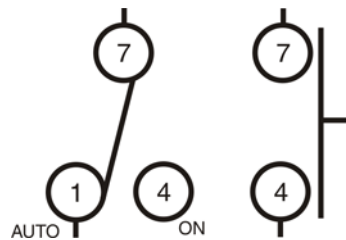


Figure 12: Hand Operated Switch (SH)



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)

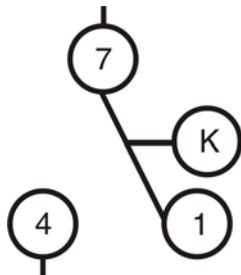
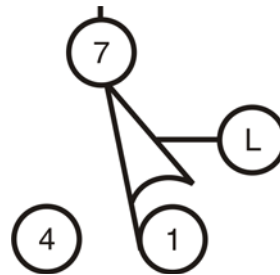


Figure 14: Level Switch (SL)



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)

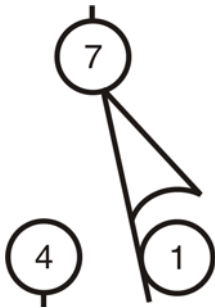
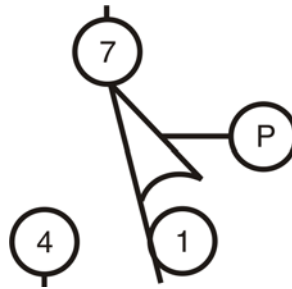


Figure 16: Pressure Switch (SP)



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)

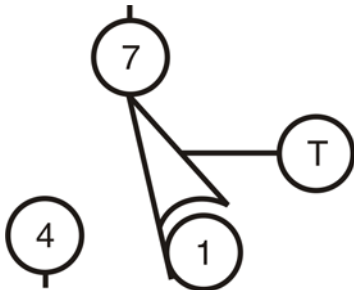
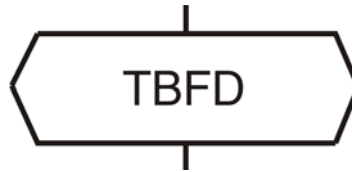


Figure 18: Terminal Board (TB)



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)

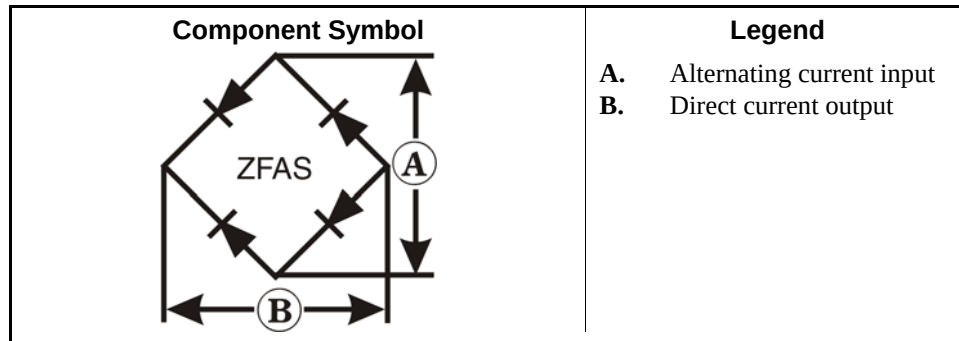
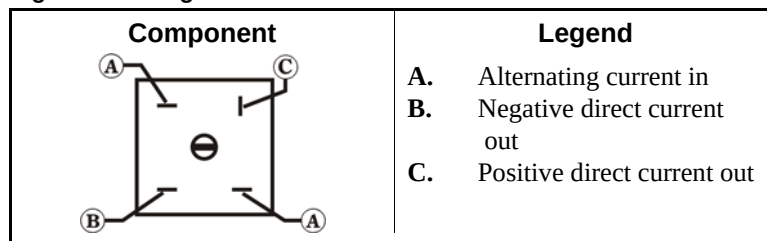


Figure 21: Bridge Rectifier



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.

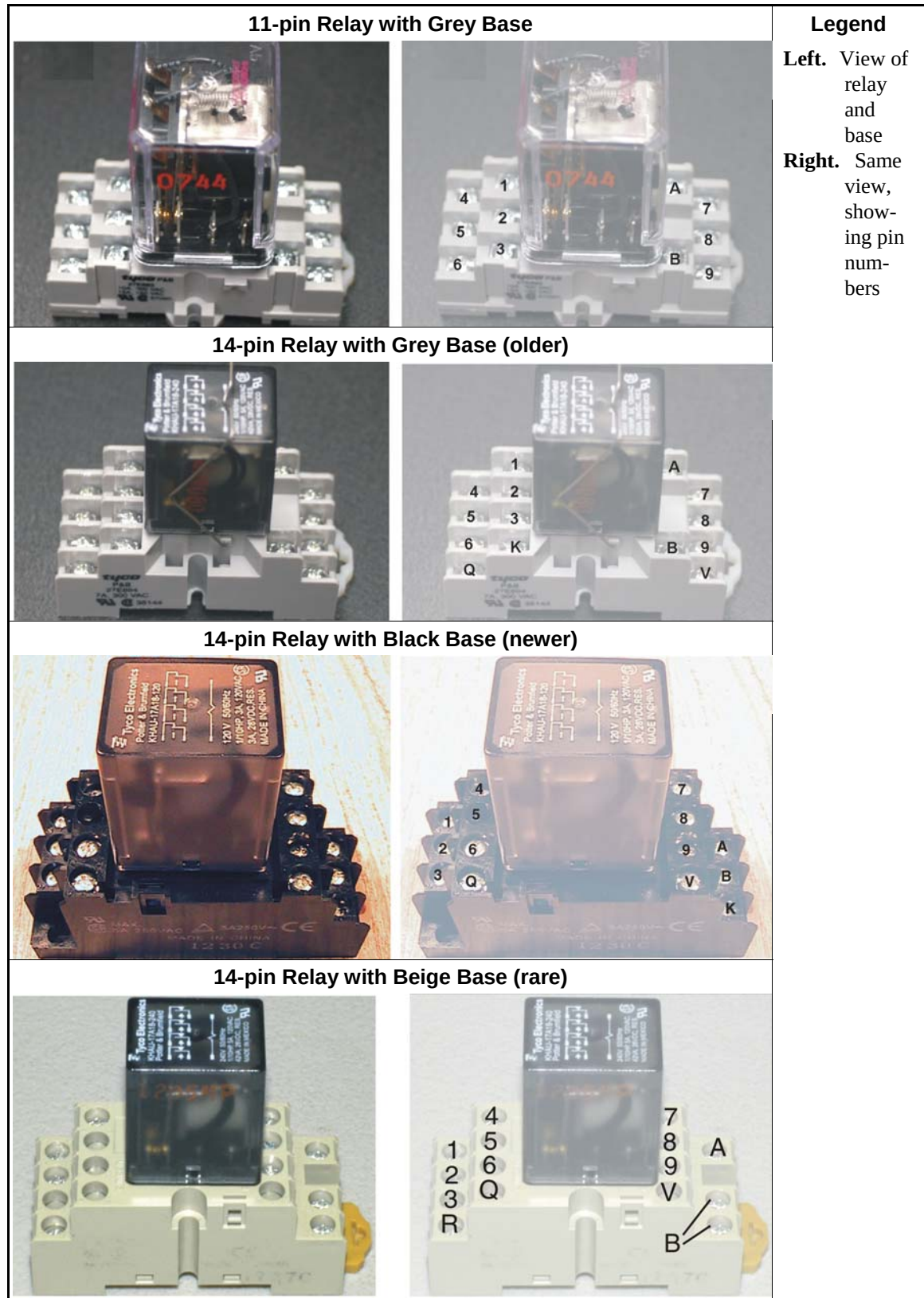
2. Component Terminal Numbering



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

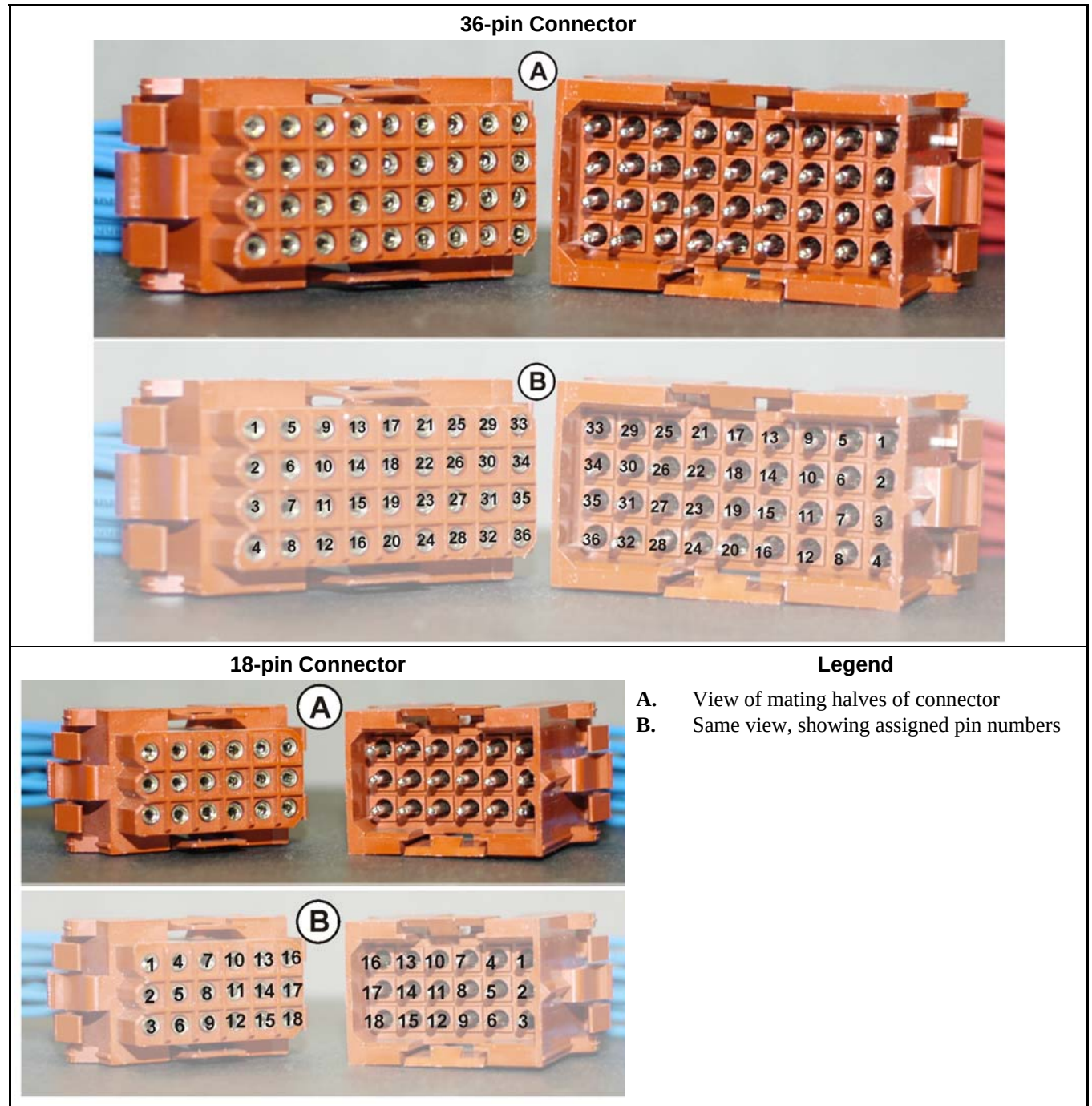


Figure 24: Molex Connector Pin Locations

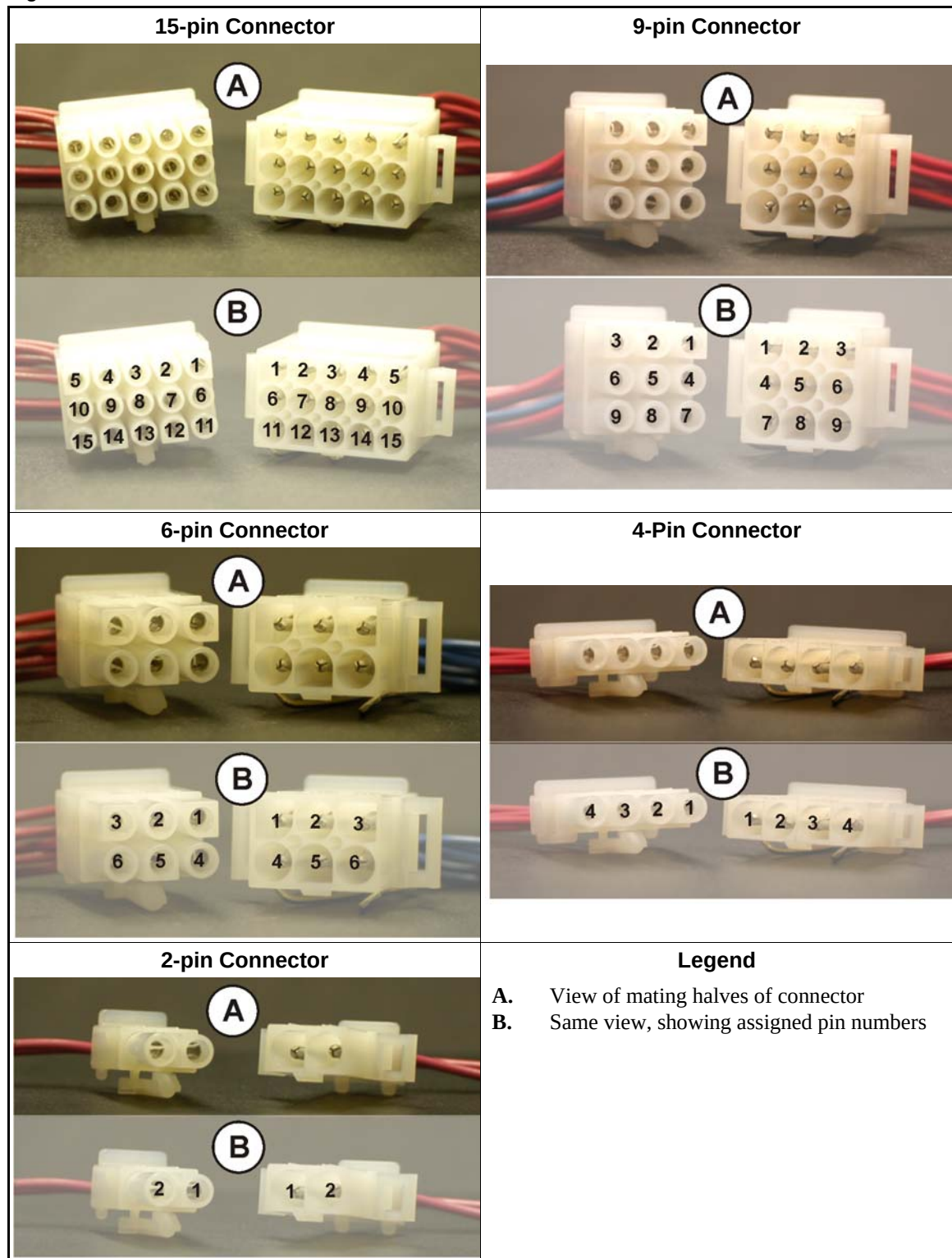


Figure 25: Pressure Switch

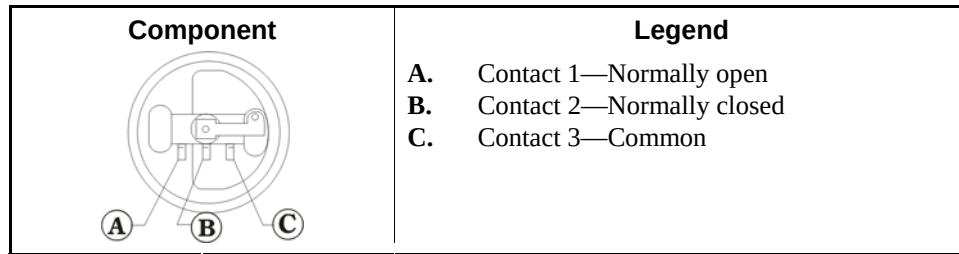


Figure 26: Toggle Switch

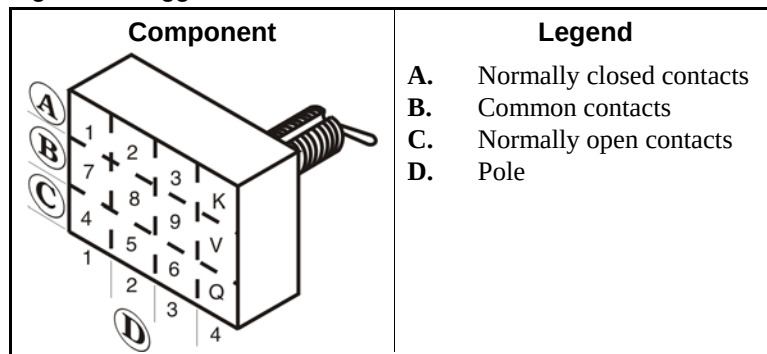
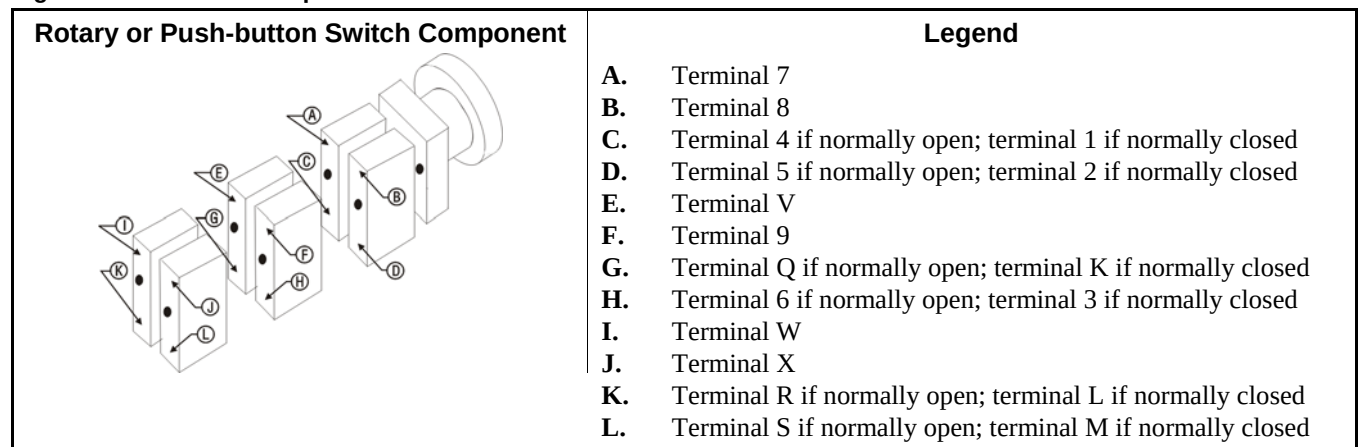


Figure 27: Switch with Replaceable Contact Blocks



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 —

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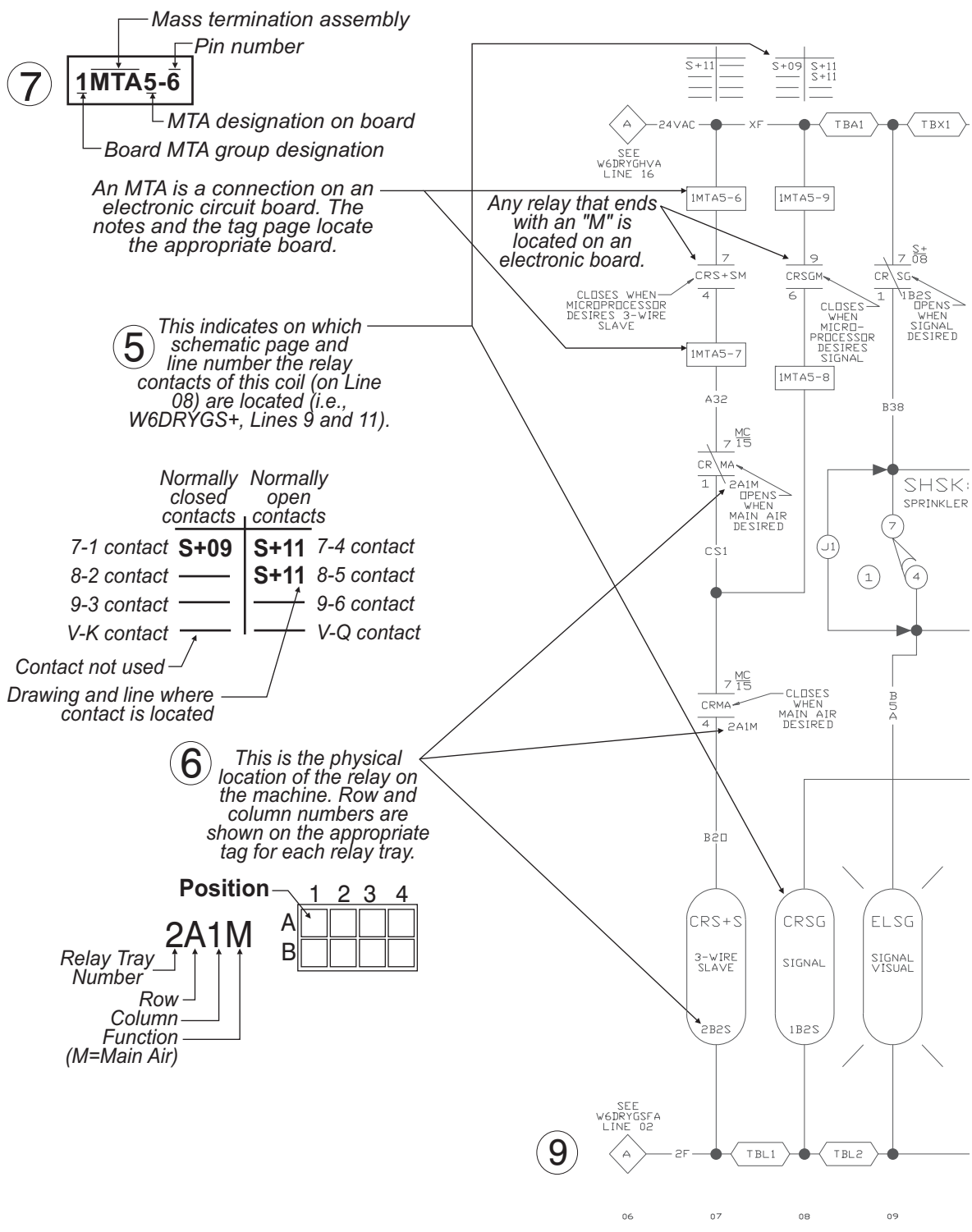
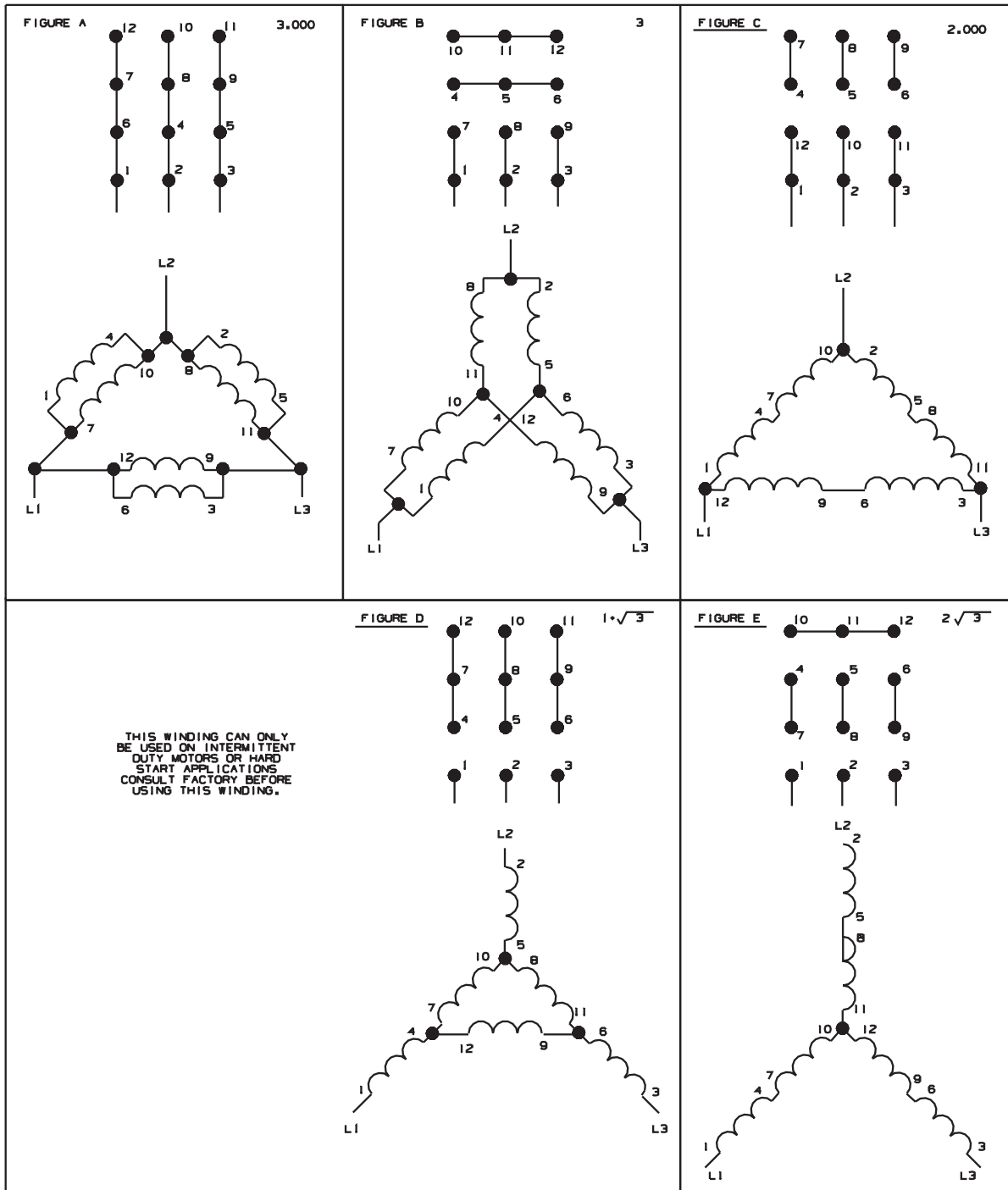


FIGURE	ELECTRICAL VALUES	SUFFIXES							
		B		H		M		T	
		50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ
A	1,000	208	230			200	220	220	240
B	$\sqrt{3}$			208	240	346	380	380	
C	2,000	416	460	220	240	400	440	440	480
D	$1 + \sqrt{3}$						600		
E	$2\sqrt{3}$			380					



06 07 08 09 10 11 12 13 14 15 16 17

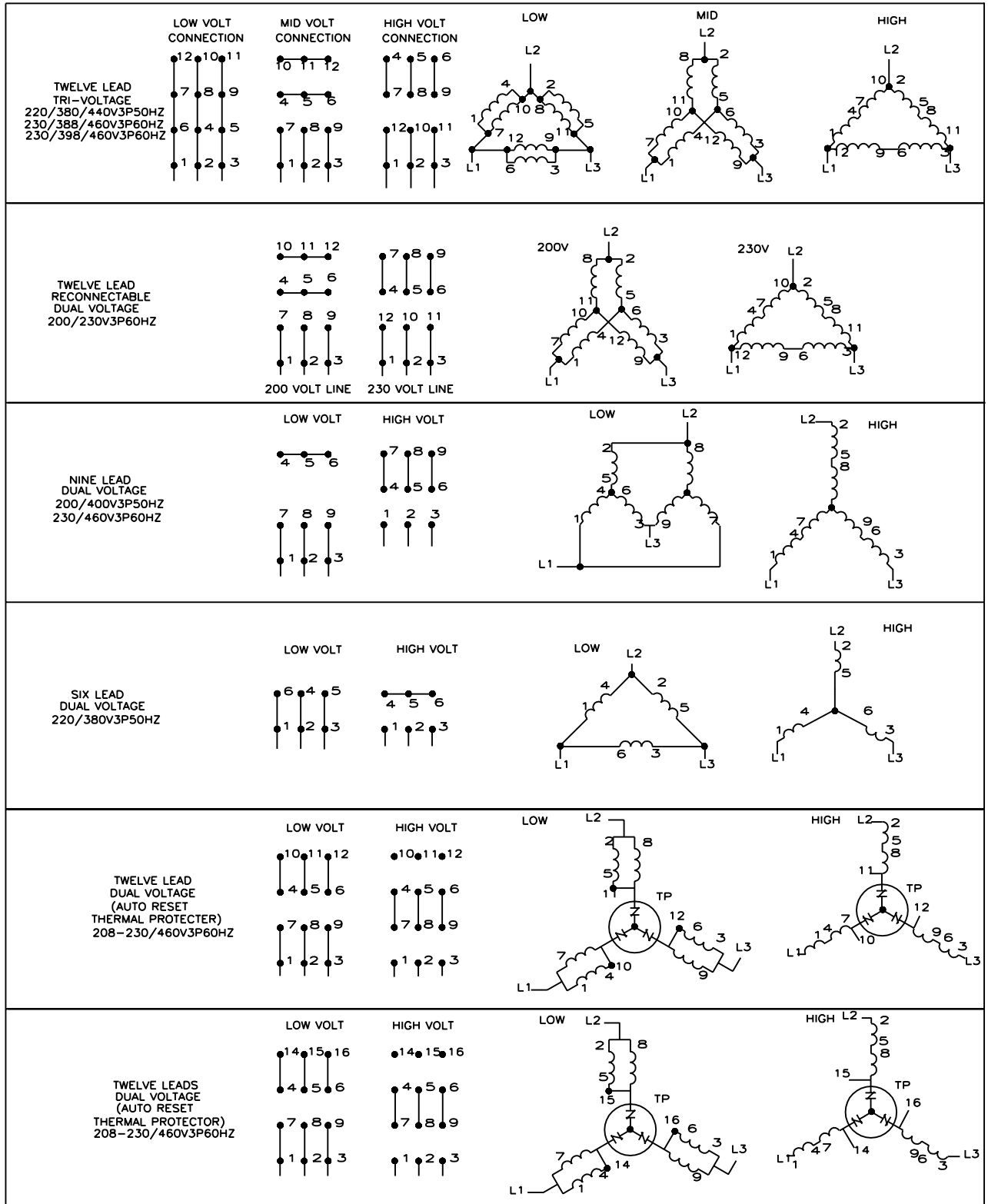
BMP850029

MOTOR CONNECTION DIAGRAMS

THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS

(ONLY FOR MOTOR SUFFIXES LISTED)

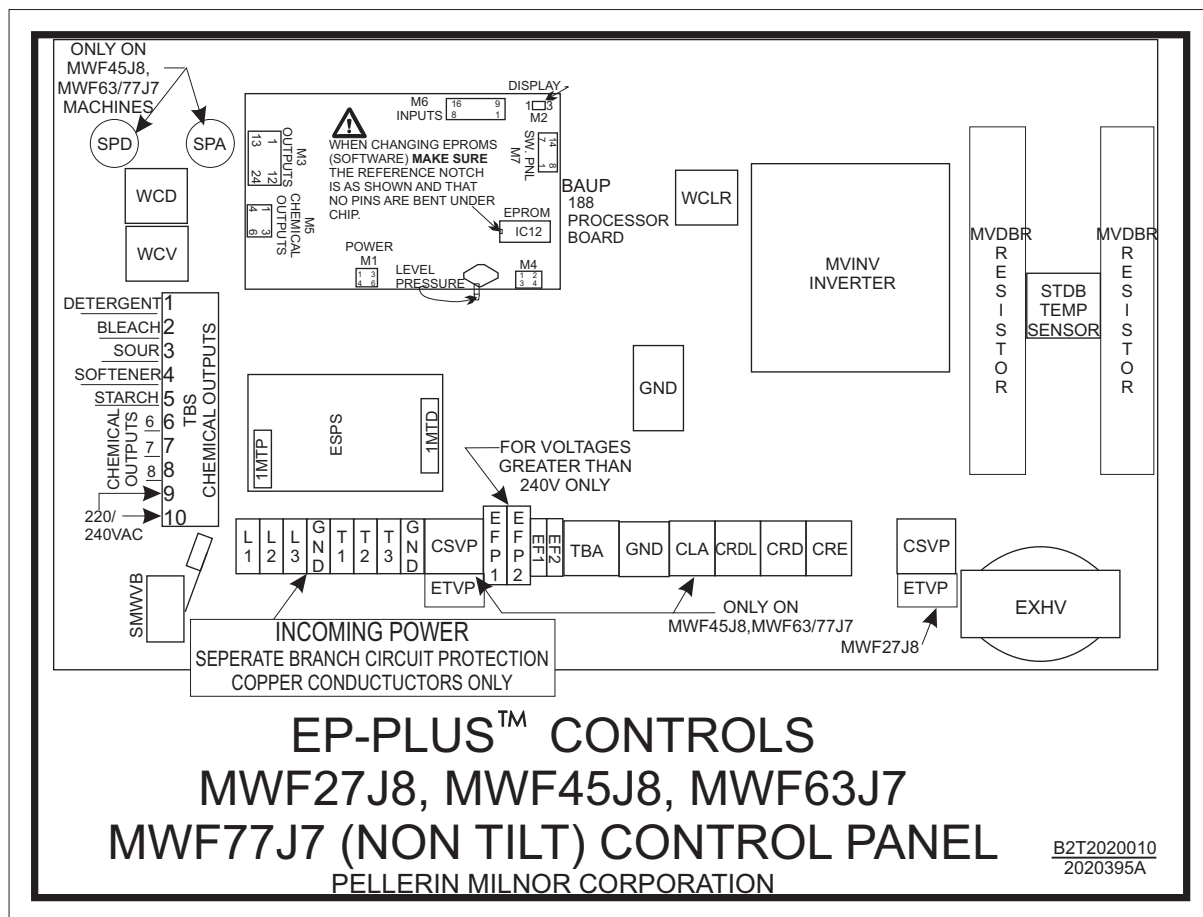
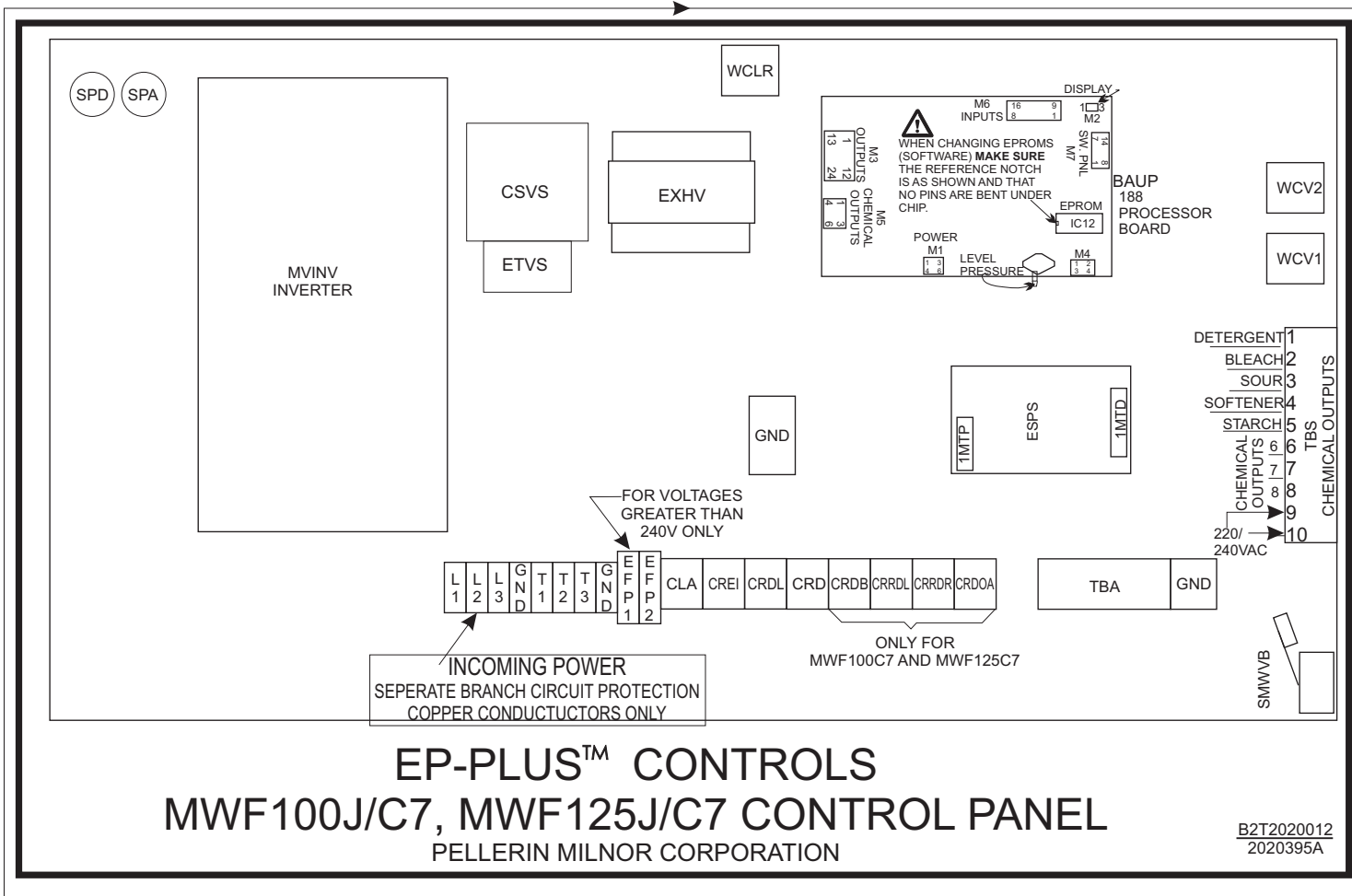
PELLERIN MILNOR CORPORATION

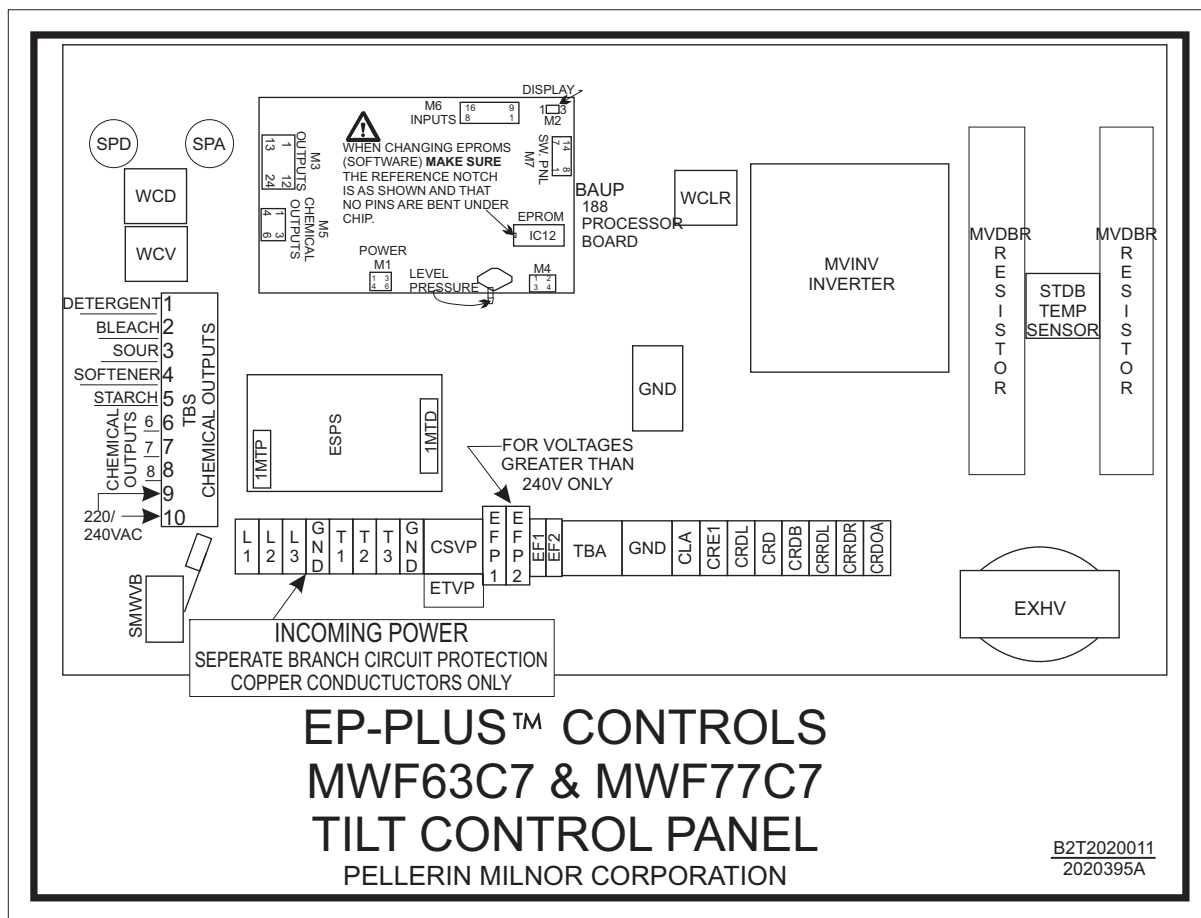


W80008

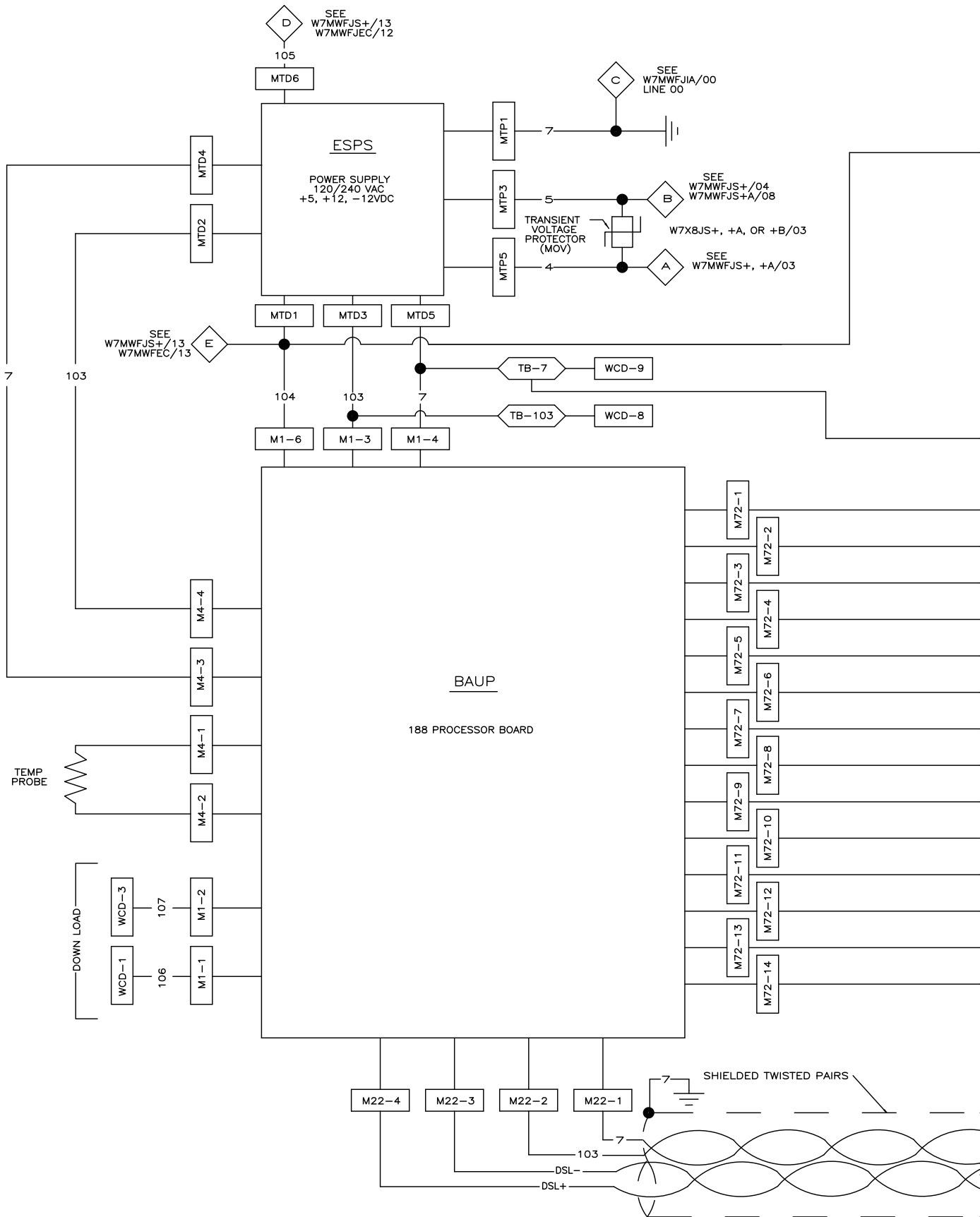
THREE PHASE
MOTOR CONNECTION DIAGRAMS
SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
PELLERIN MILNOR CORPORATION

W80008
2001253A





W7MWFJTG1
EP-PLUS™ CONTROLS
MWF27/45J8, MWF63/77/100/125J7/C7
CONTROL BOX LAYOUTS
PELLERIN MILNOR CORPORATION



00

01

02

03

04

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08

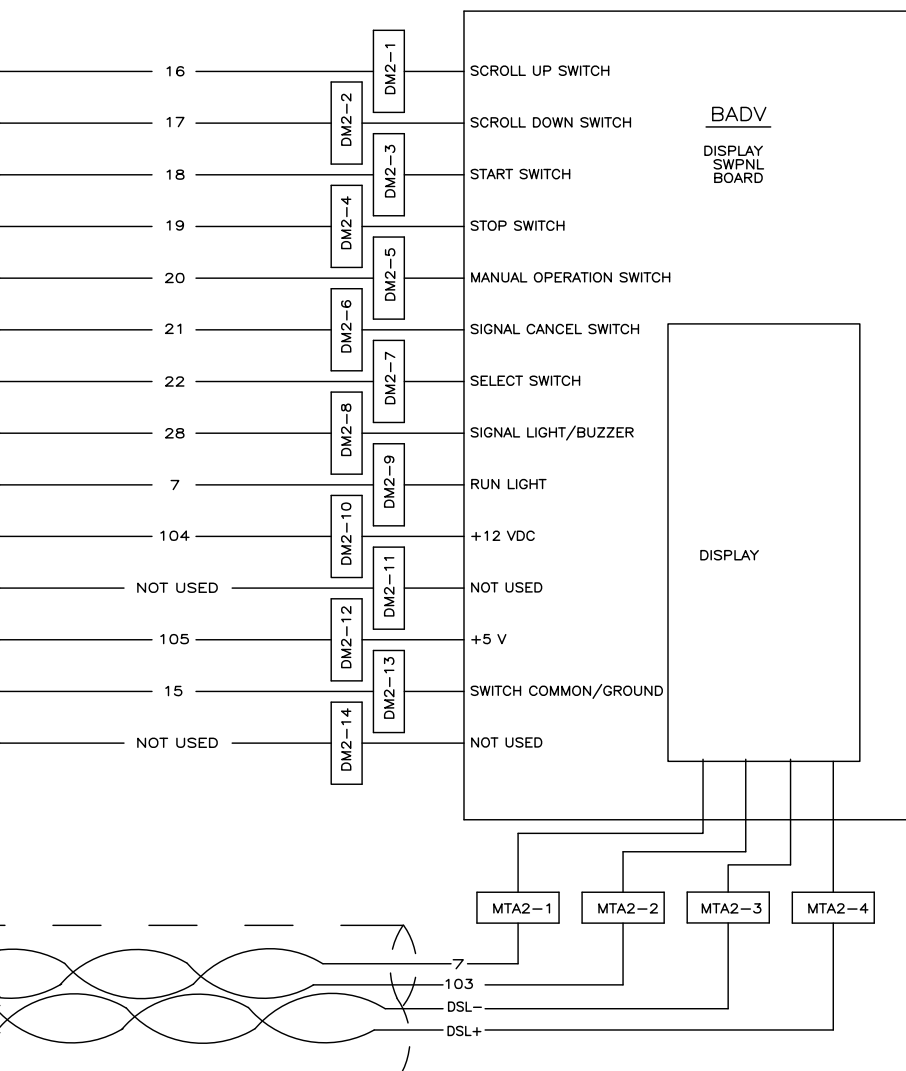
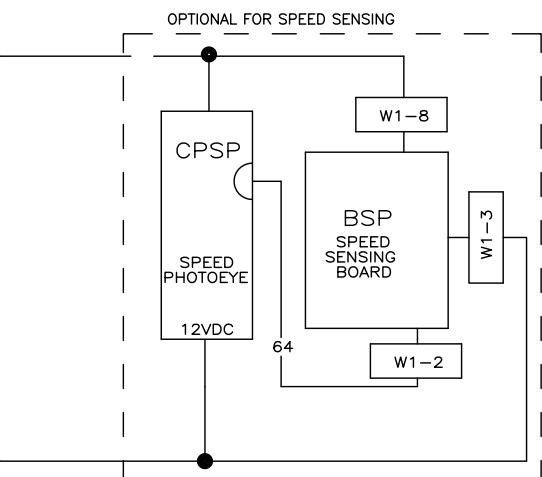
09

WIRE COLOR CODE

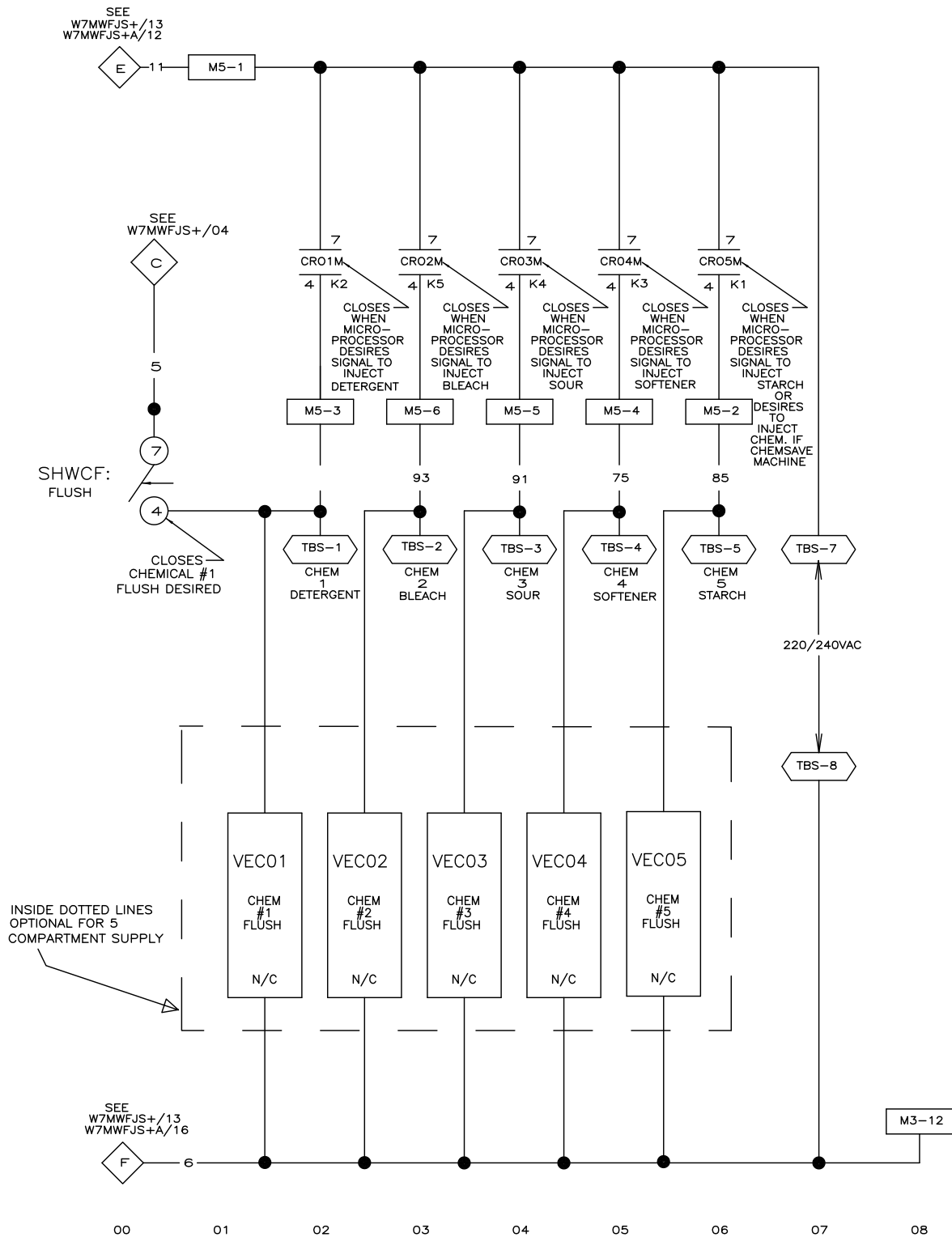
WIRE COLOR	APPLICATION
RED	A.C. CONTROL
RED/WHITE	A.C. COMMON
BLUE	+5 VDC
BLUE/ORANGE -103	+12VDC
BLUE/BLACK -105	-12VDC
YELLOW/GREEN	GROUND
BLUE/WHITE -7	D.C. GROUND
BLUE/BLACK	D.C. CONTROL SIGNALS

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.



W7MWFJBW MICRO 7 SYSTEMS SCHEMATIC: BOARD TO BOARD WIRING PELLERIN MILNOR CORPORATION



LITHO IN U.S.A.

W7MWFJCF
2017314B

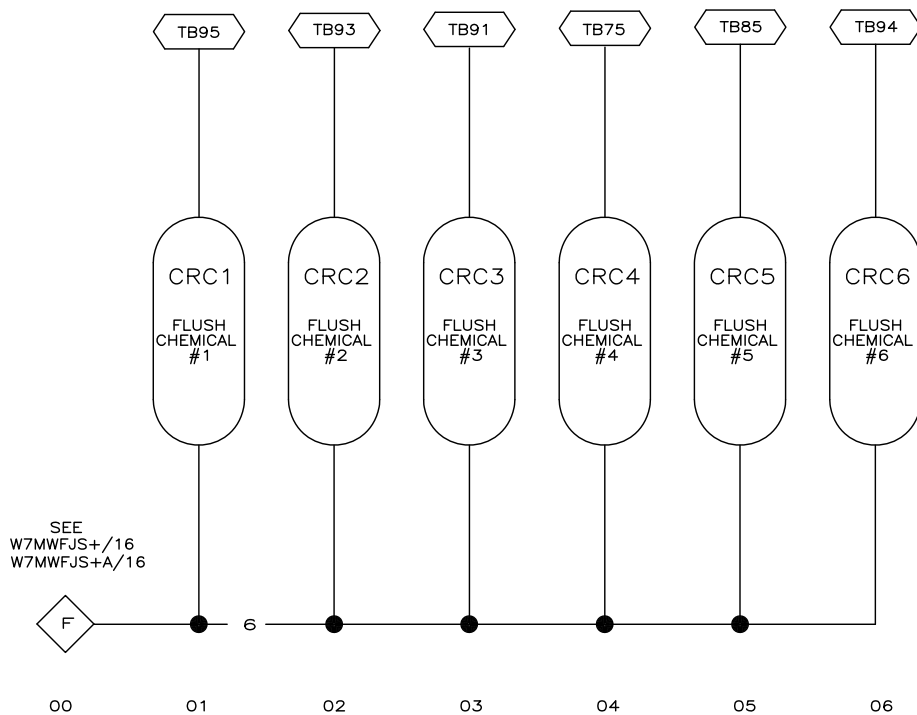
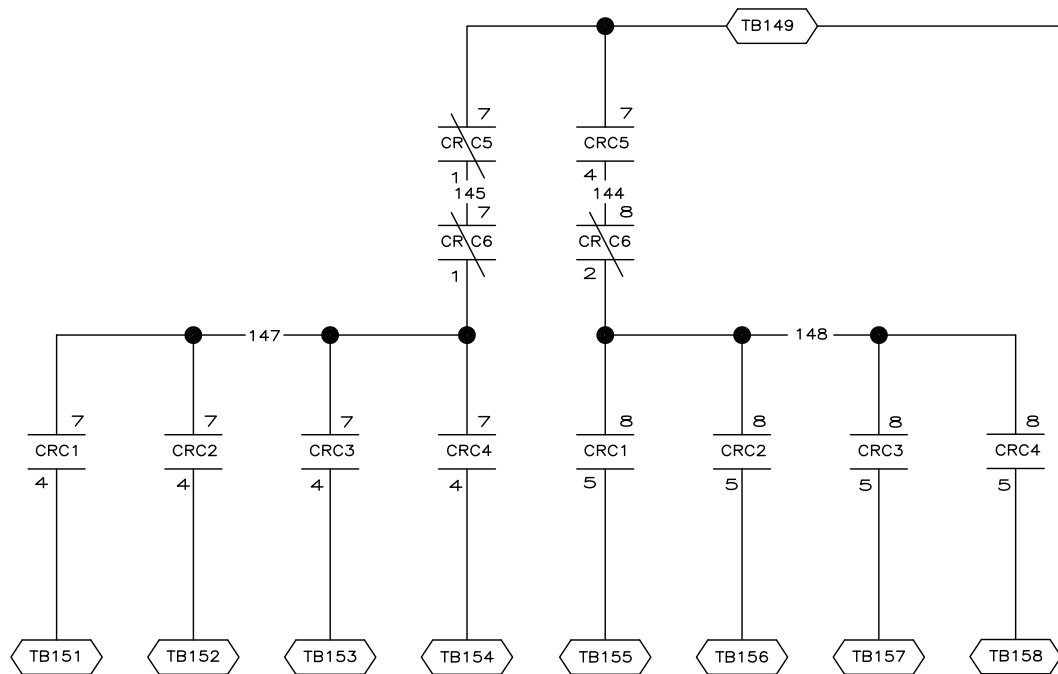
NOTES:

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

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

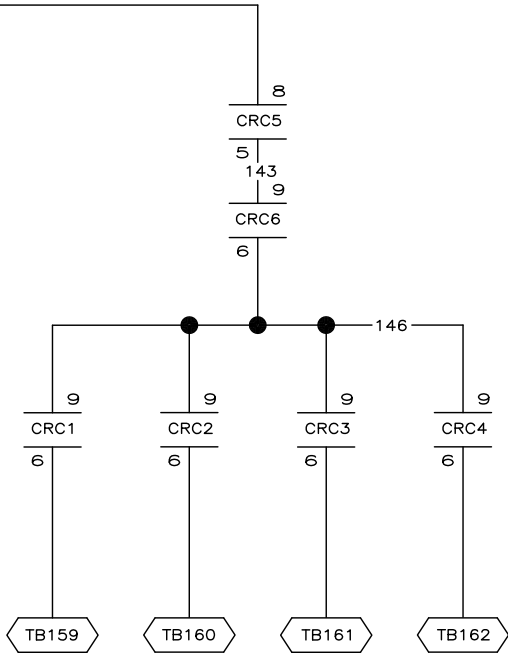
~~W7MWFJCF~~
~~2017314B~~

~~W7MWFJCF~~
~~2017314B~~



W7MWFJCM
2017314B

LITHO IN U.S.A.



10

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W7MW FJCM

MICRO 7 SYSTEMS MARK V

SCHEMATIC: OPTIONAL 12 CHEMICAL FLUSHING

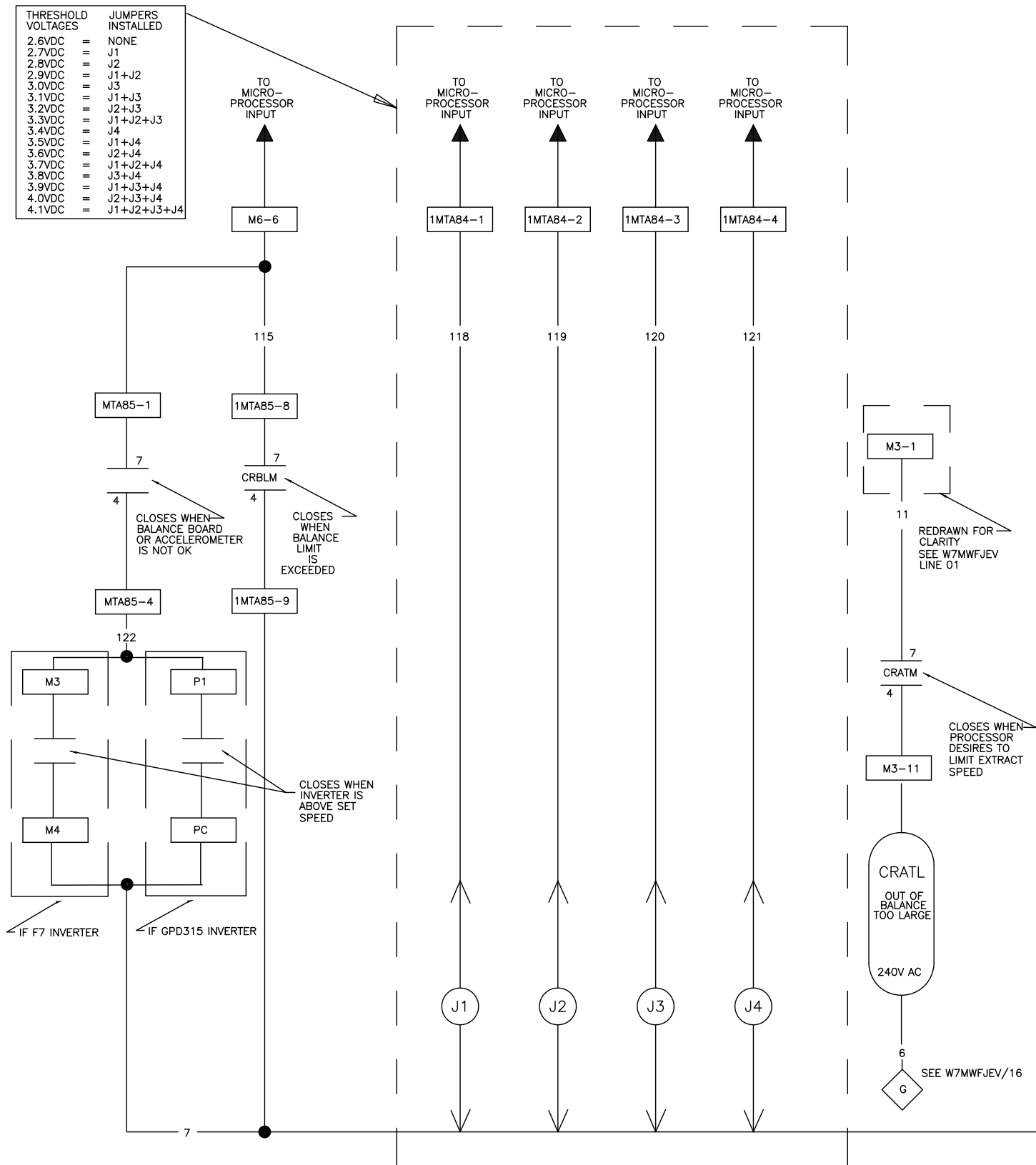
PELLERIN MILNOR CORPORATION

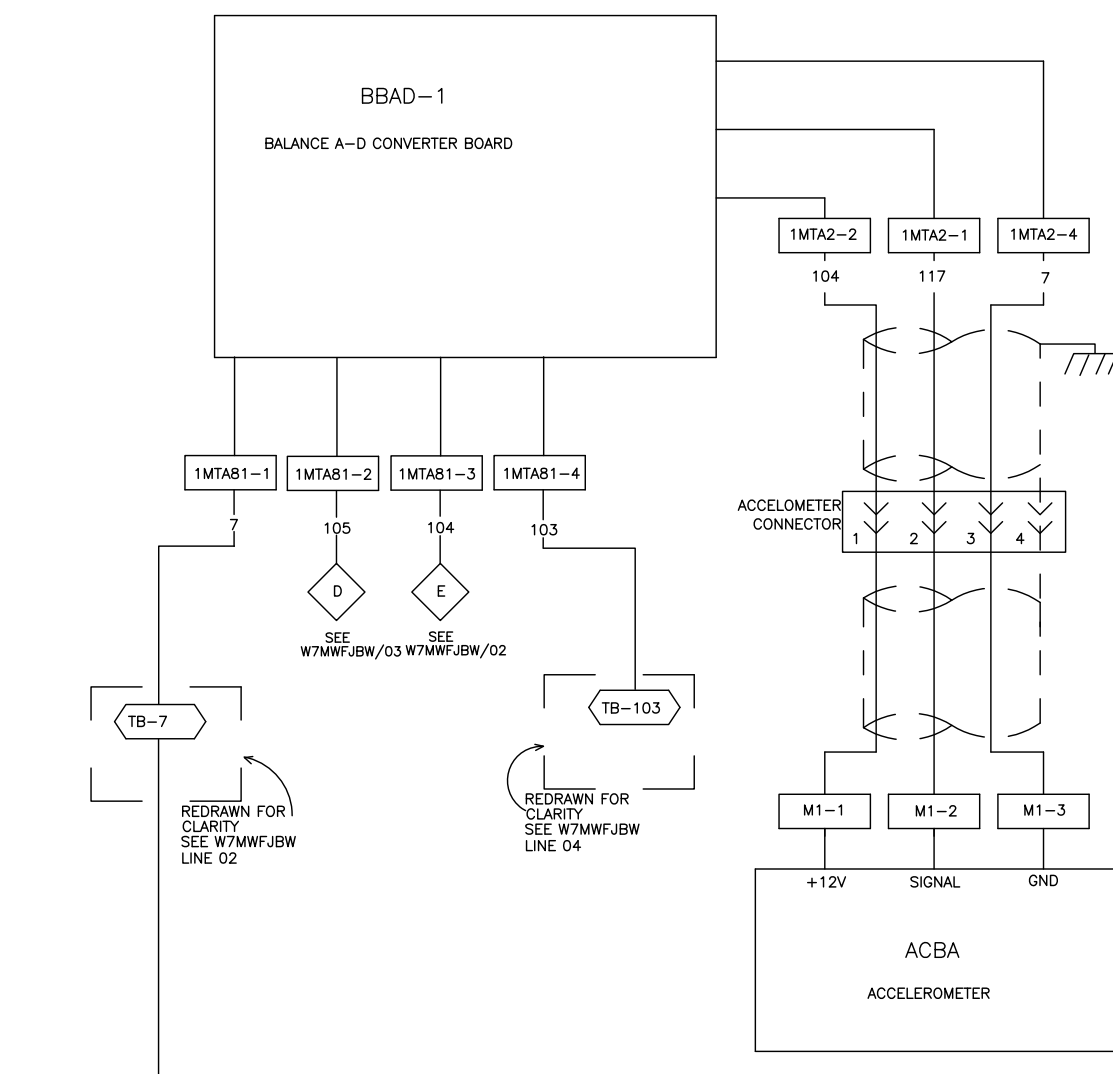
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2017314B

W7MW FJCM
2017314B

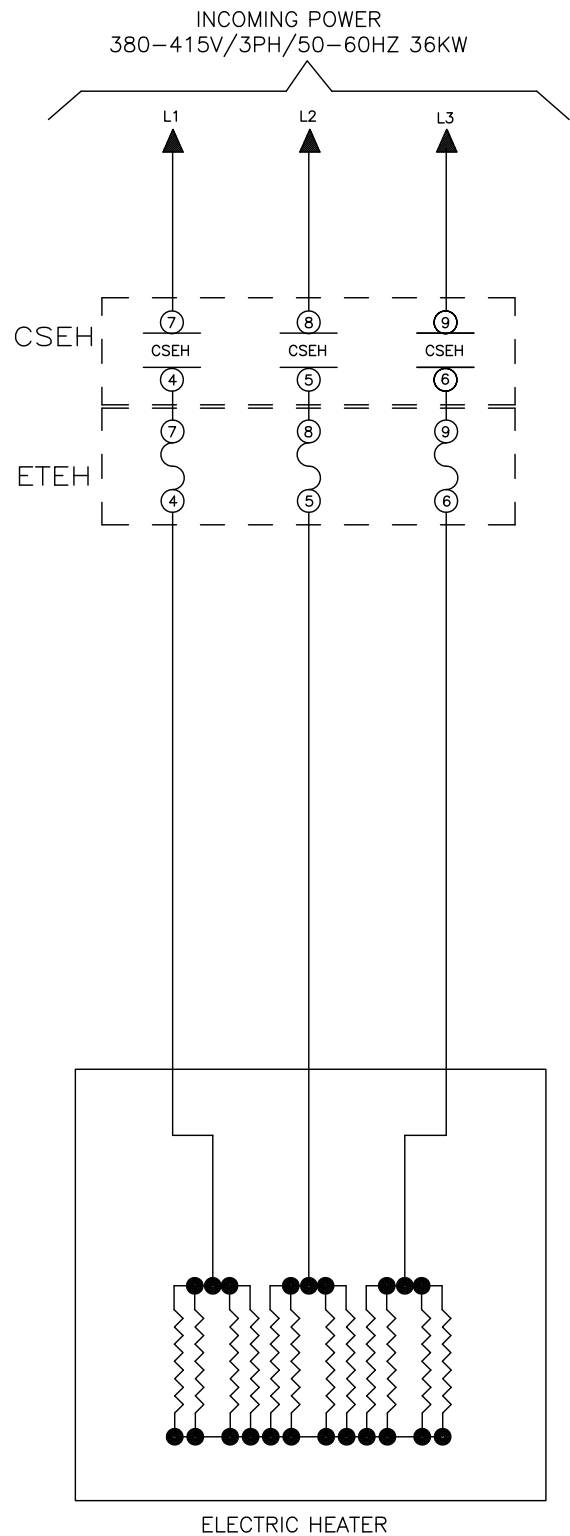
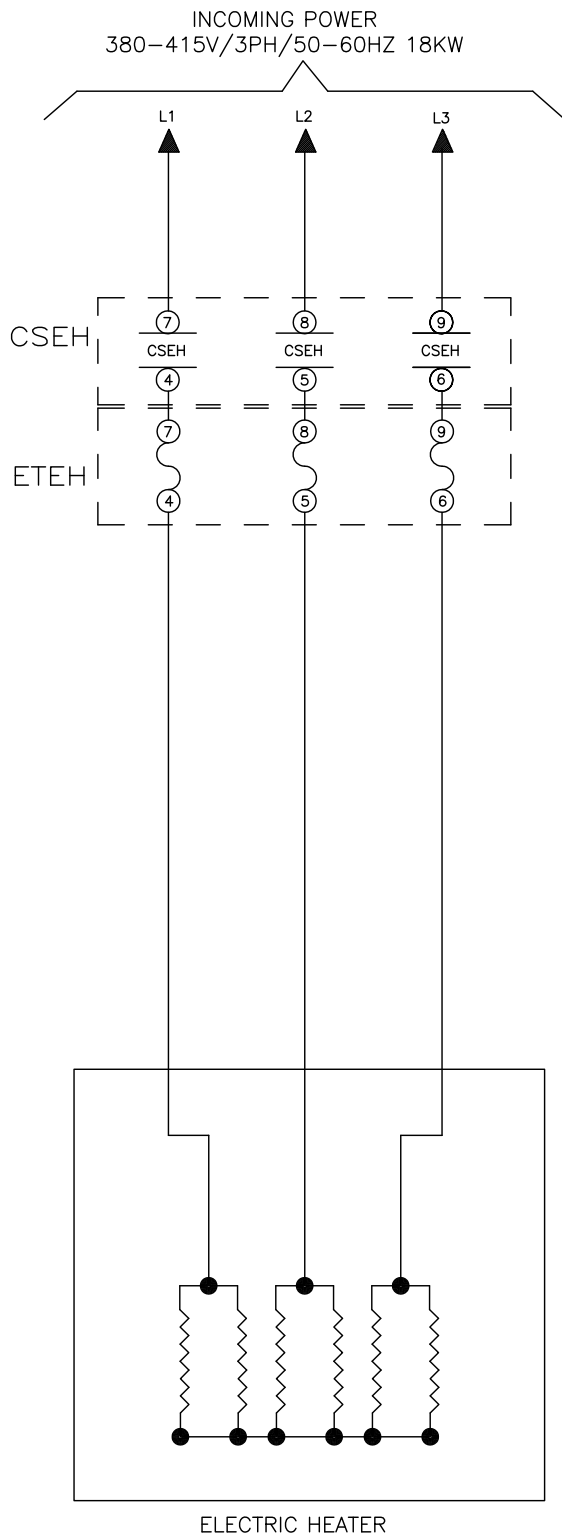
SPEED LIMIT THRESHOLD
INPUTS ARE TO LIMIT
SPEED IN EXTRACT WHEN
THE MACHINE IS OUT OF BALANCE.
JUMPERS ARE ADDED AT THE
FACTORY TO ADJUST FOR VARIATIONS
IN ACCELEROMETERS.

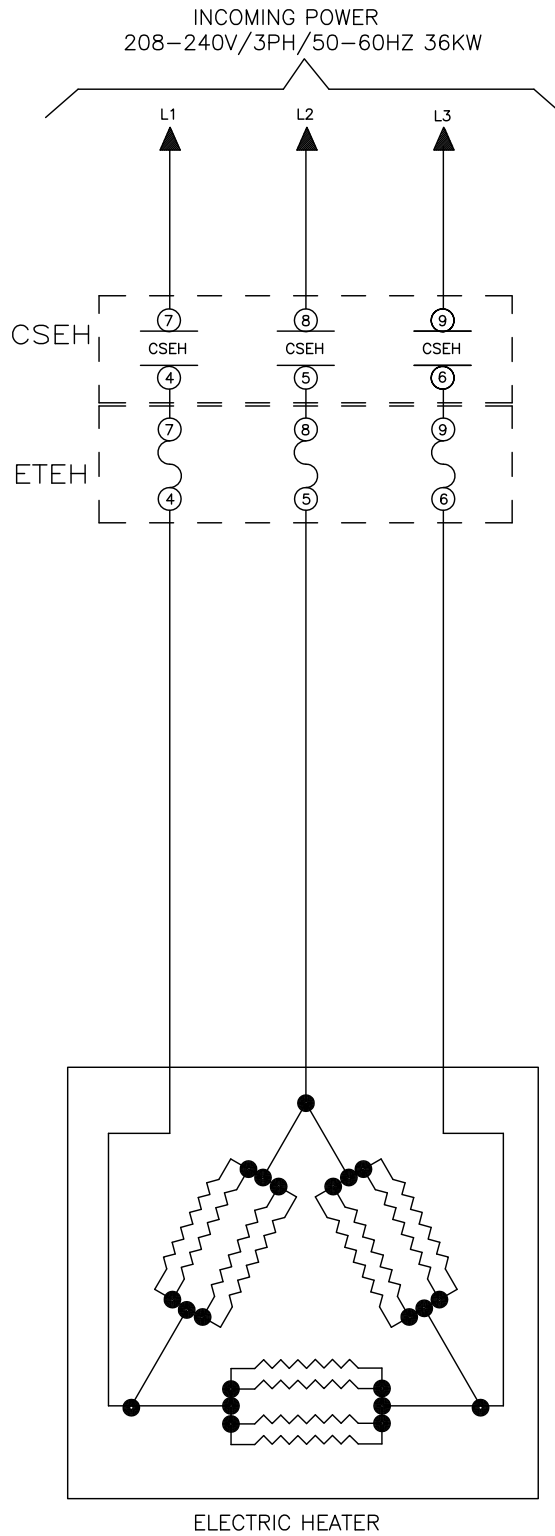
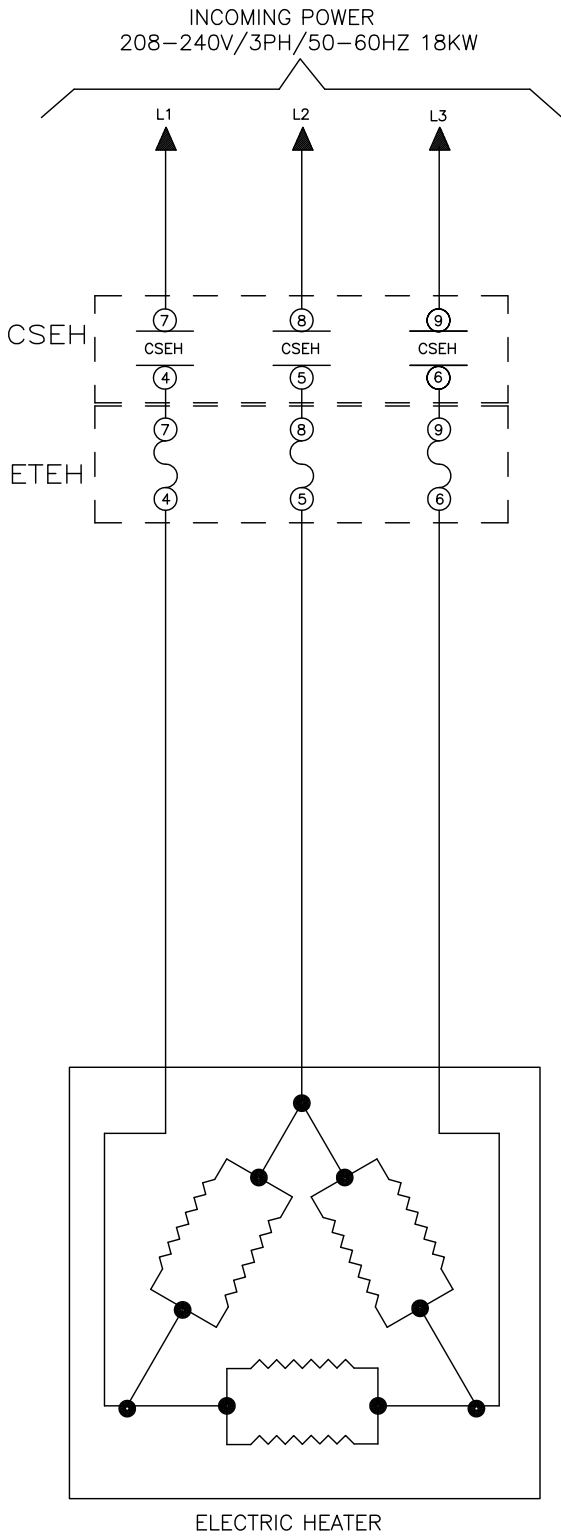
THRESHOLD VOLTAGES	JUMPERS INSTALLED
2.6VDC =	NONE
2.7VDC =	J1
2.8VDC =	J2
2.9VDC =	J1+J2
3.0VDC =	J3
3.1VDC =	J1+J3
3.2VDC =	J2+J3
3.3VDC =	J1+J2+J3
3.4VDC =	J4
3.5VDC =	J1+J4
3.6VDC =	J2+J4
3.7VDC =	J1+J2+J4
3.8VDC =	J3+J4
3.9VDC =	J1+J3+J4
4.0VDC =	J2+J3+J4
4.1VDC =	J1+J2+J3+J4





W7MWFJEC
MICRO 6 SYSTEMS
MARK V
SCHEMATIC: ELECTRONIC BALANCE
FOR MWF 45-100 MACHINES ONLY
PELLERIN MILNOR CORPORATION

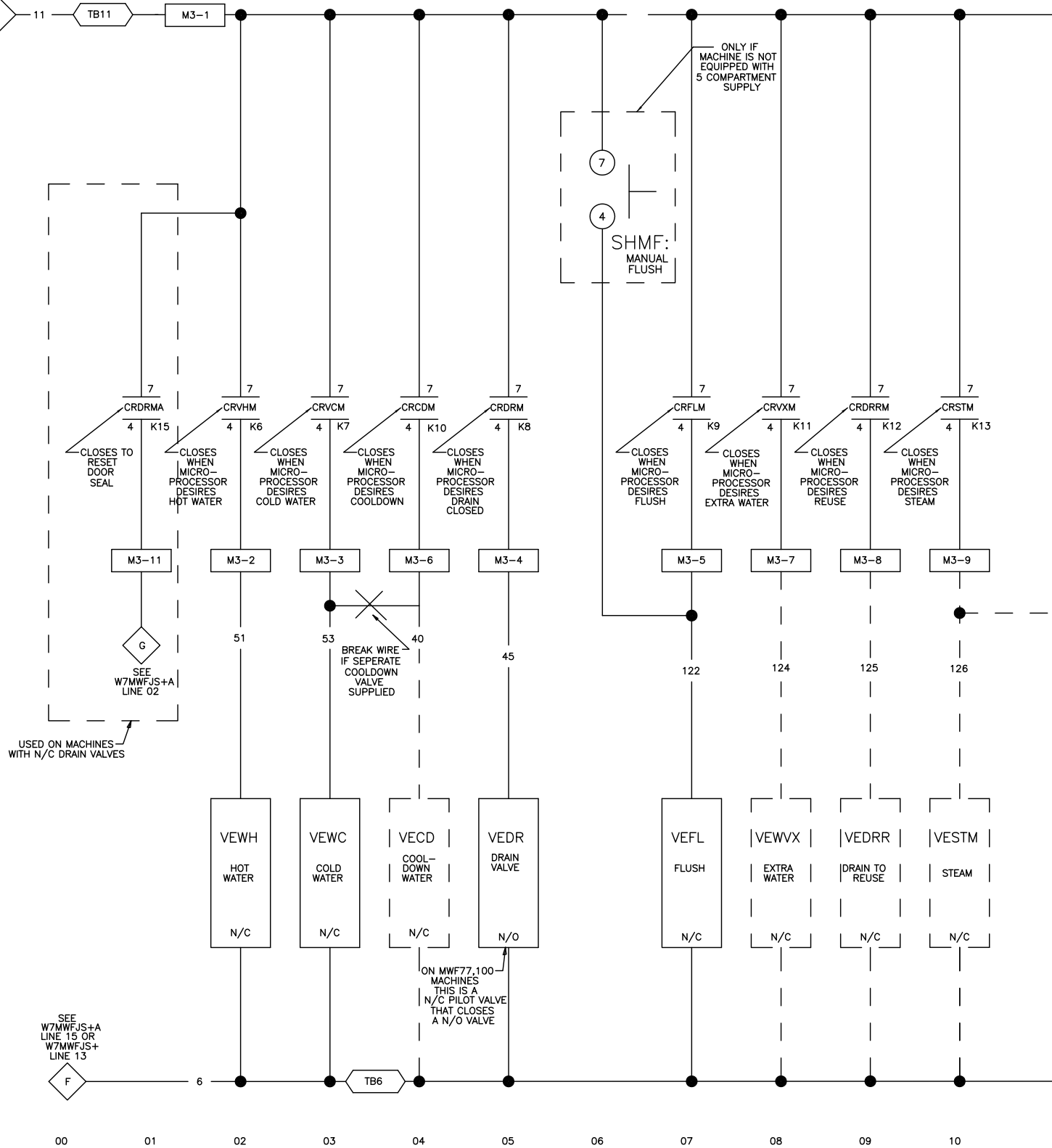




W7MWFJEH
MICRO 7 SYSTEMS
SCHEMATIC: ELECTRIC HEAT
220V1P50HZ/240V1P60HZ
PELLERIN MILNOR CORPORATION

W7MWFJEH
2017314B

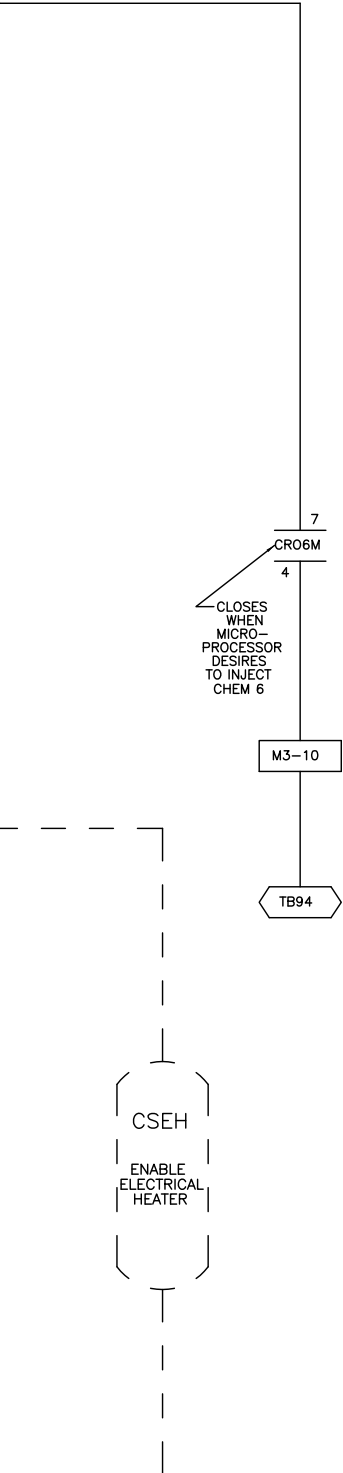
SEE
W7MWFJS+, S+A
LINE 11



W7MWFJEV
SCHEMATIC: ELECTRIC VALVES
220V1P50HZ/240V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

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



11

12

13

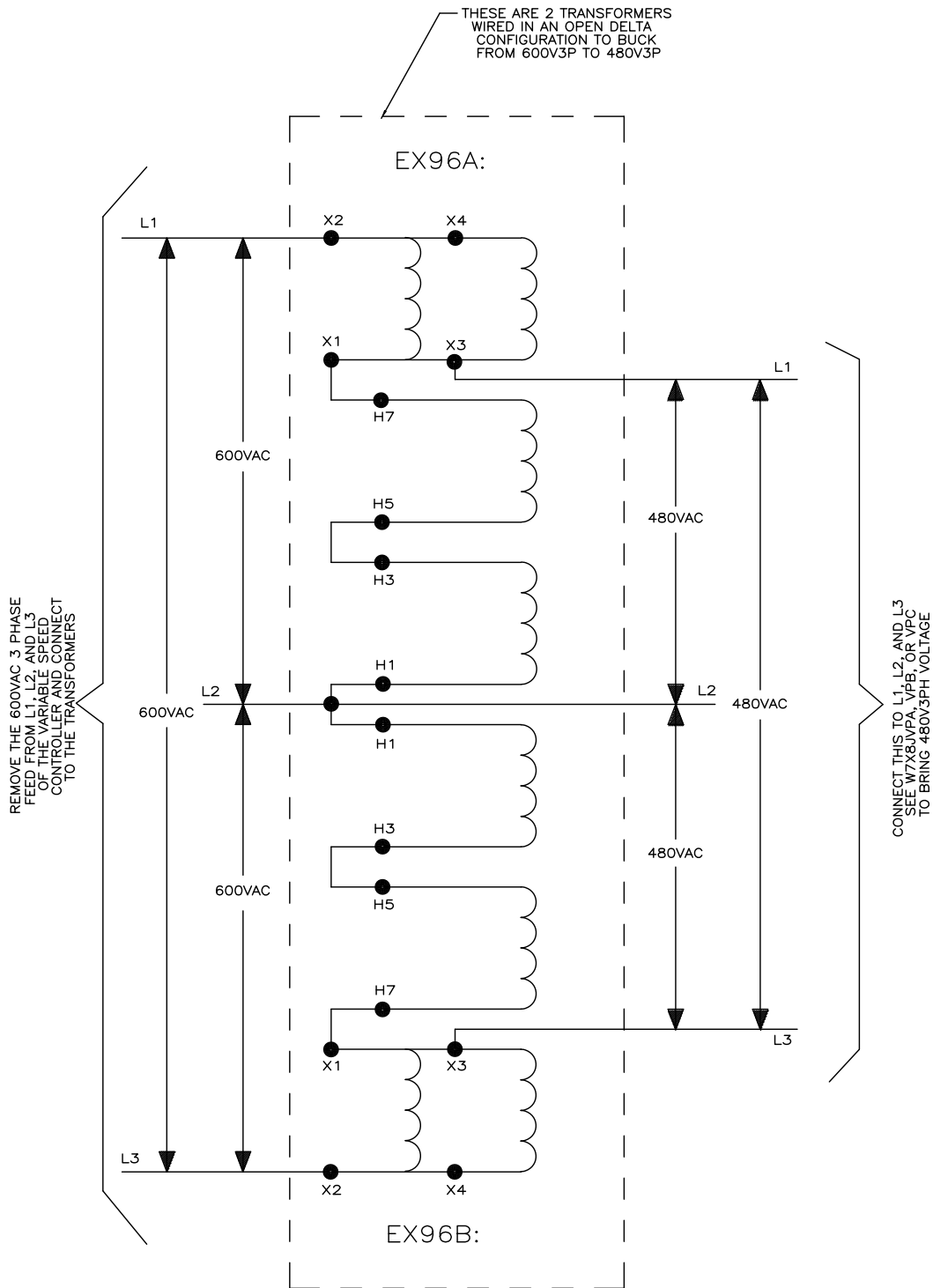
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15

16

17

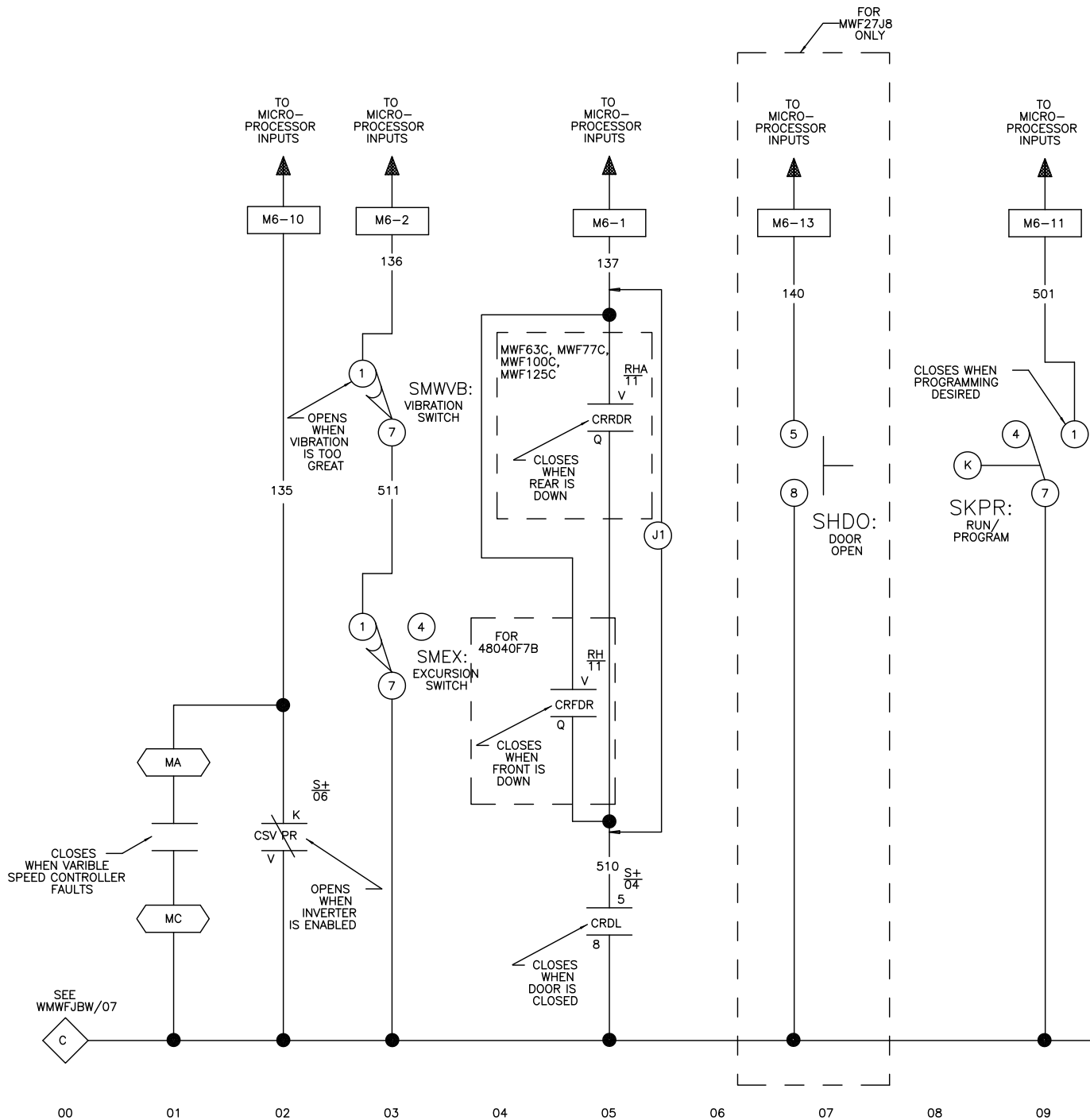
18



W7MWFJLV SCHEMATIC: CONTROL CIRCUIT TRANSFORMER 220V1P50HZ/240V1P60HZ

PELLERIN MILNOR CORPORATION

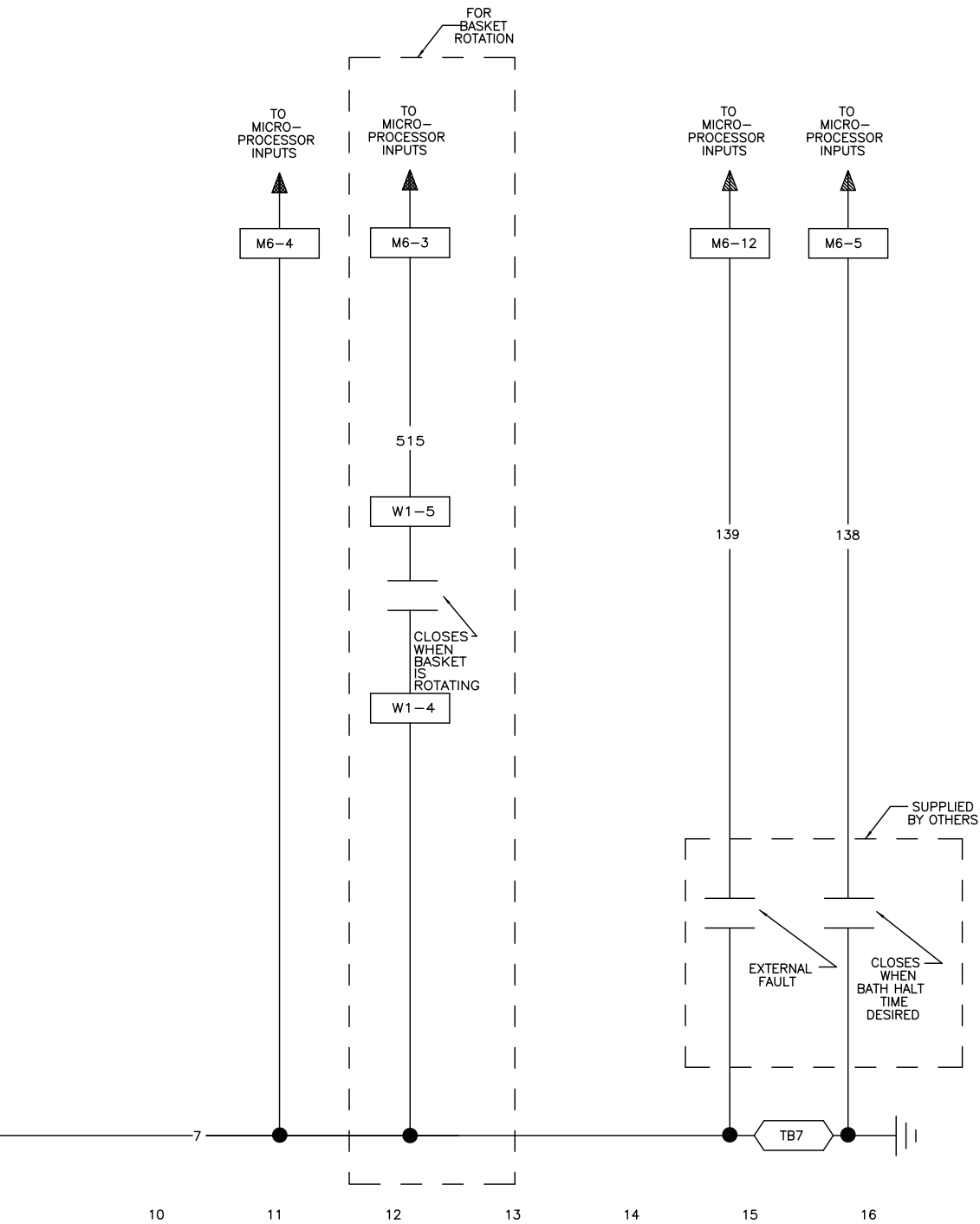
INPUT (SUPPLY SYSTEM)	DESIRED OUTPUT CONNECTION	
DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
OPEN DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
WYE 3 OR 4 WIRE	CLOSED DELTA 3 WIRE	DO NOT USE
WYE 4 WIRE	WYE 3 OR 4 WIRE	OK
WYE 3 OR 4 WIRE	OPEN DELTA 3 WIRE	OK
CLOSED DELTA 3 WIRE	OPEN DELTA 3 WIRE	OK



W7MWFJIA

SCHEMATIC: MICROPROCESSOR INPUTS

PELLERIN MILNOR CORPORATION

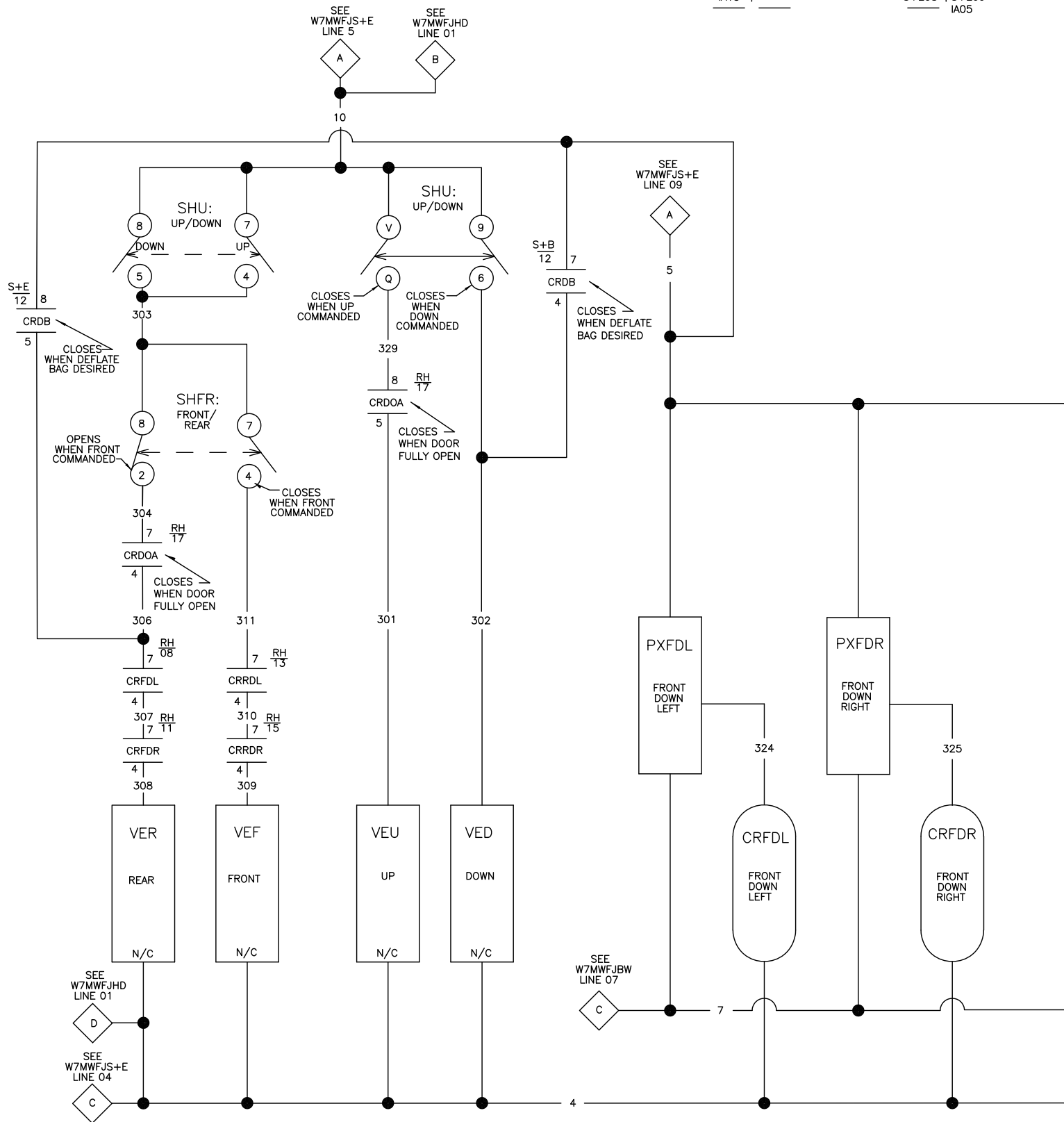


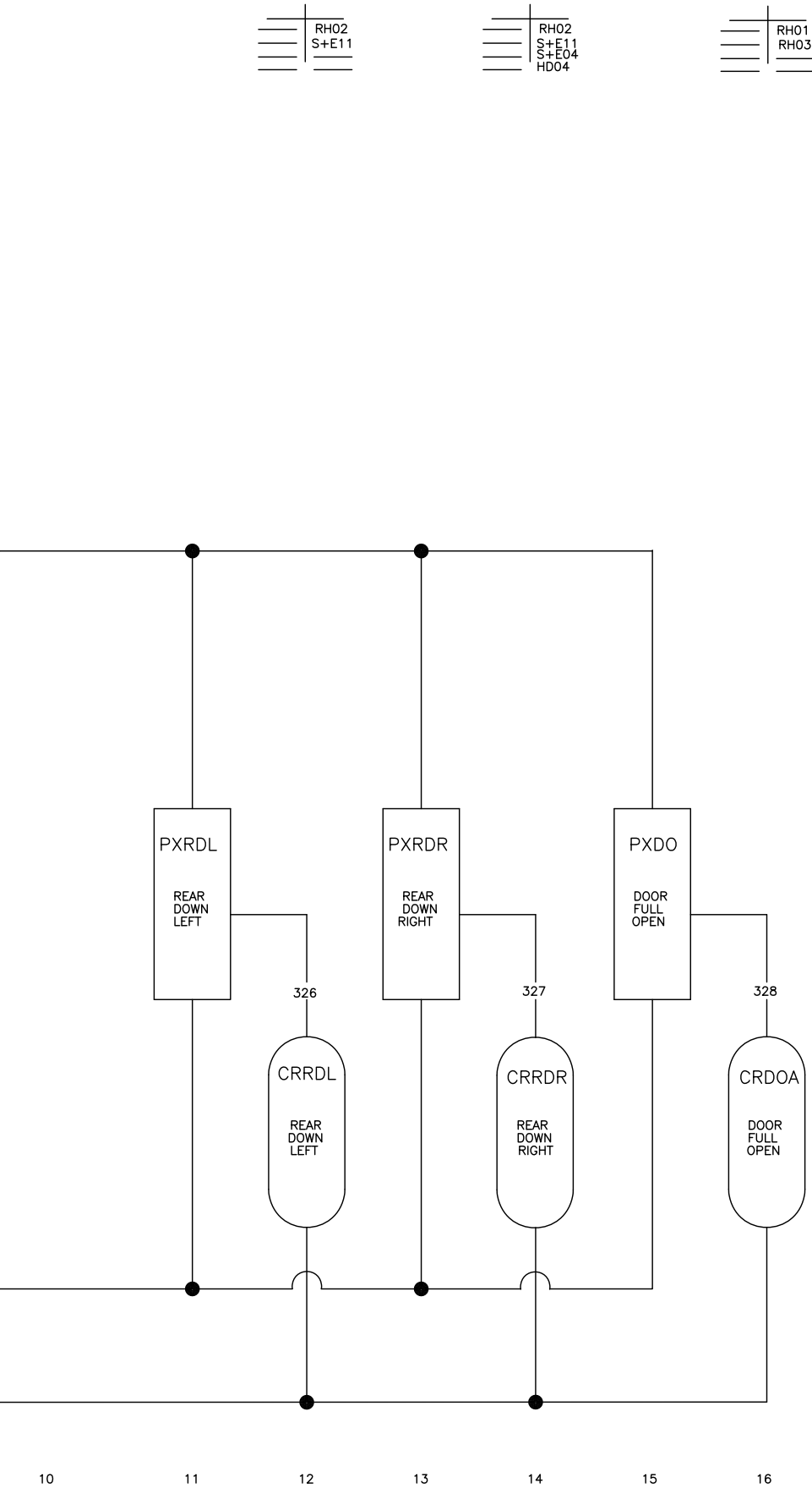
NOTES

1. M6 IS LOCATED ON THE PROCESSOR BOARD.
2. REMOVE J1 FOR TILTING

—	RH01
—	S+E11
—	IA13

—	RH01
—	S+E11
—	S+E08
—	IA05



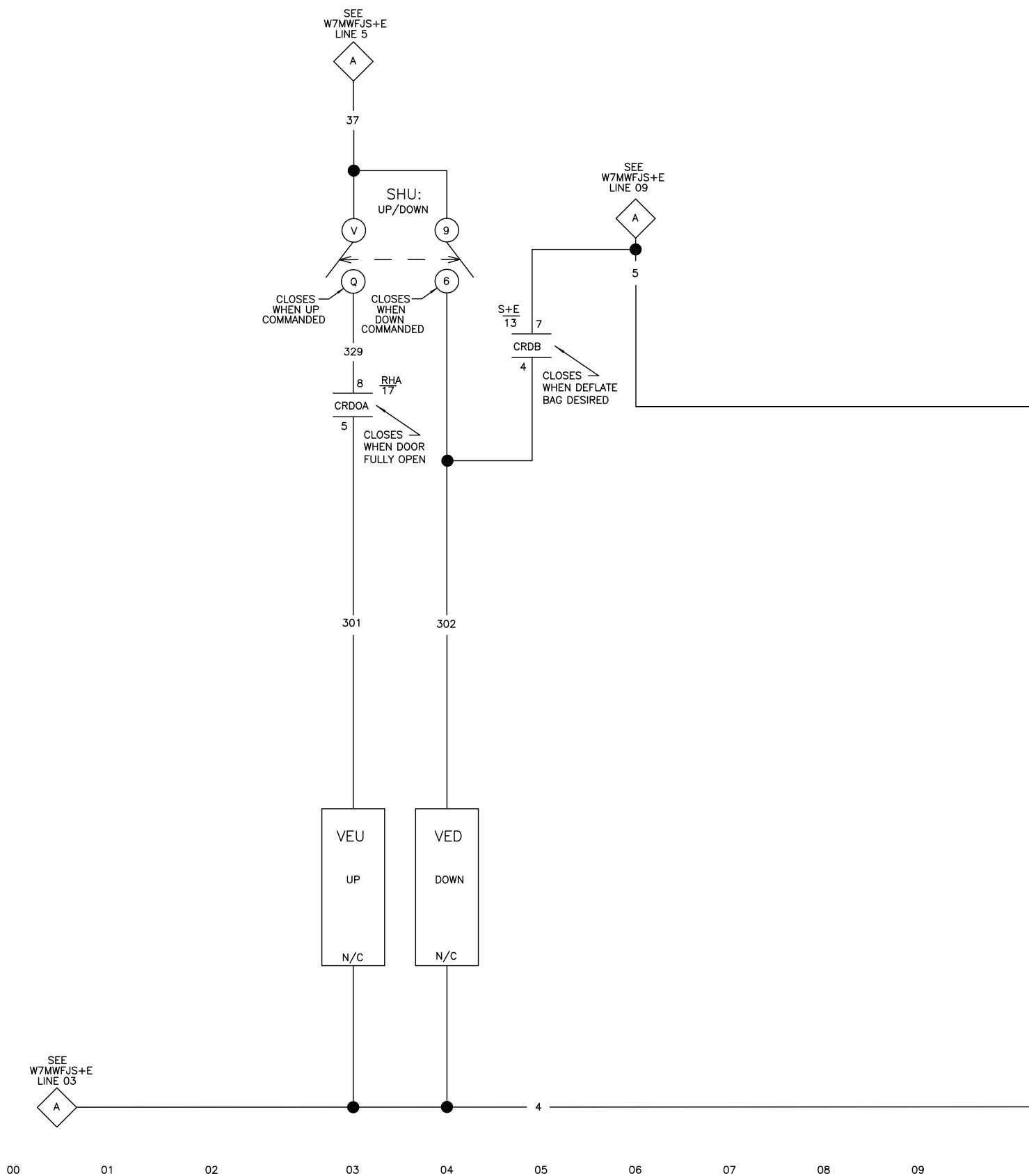


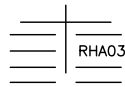
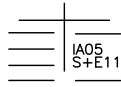
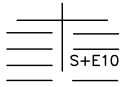
W7MWFJRH

SCHEMATIC: RAISE HOUSE

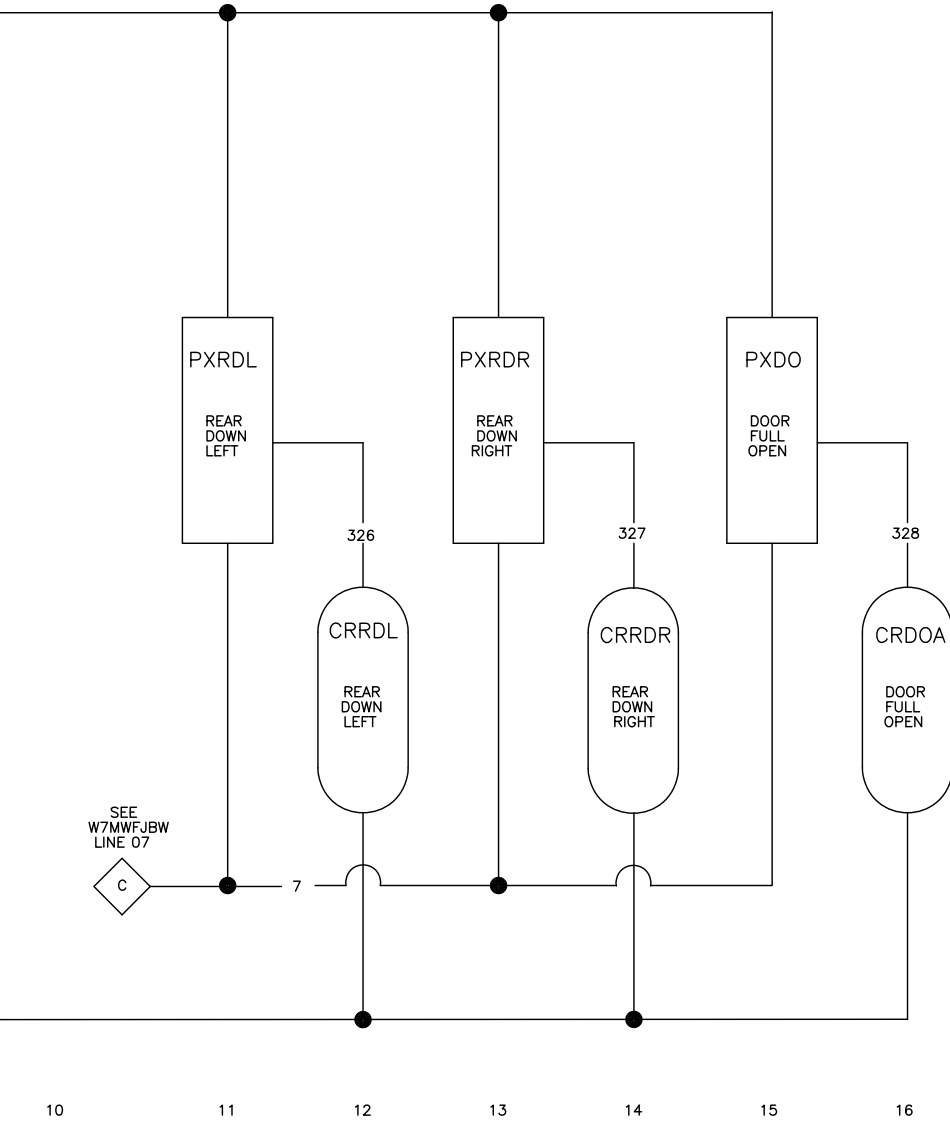
FOR 48040F7B AIR TILT ONLY

220V1P50HZ/240V1P60HZ
PELLERIN MILNOR CORPORATION





W7MWFJRHA
2020394B



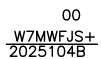
W7MWFJRHA

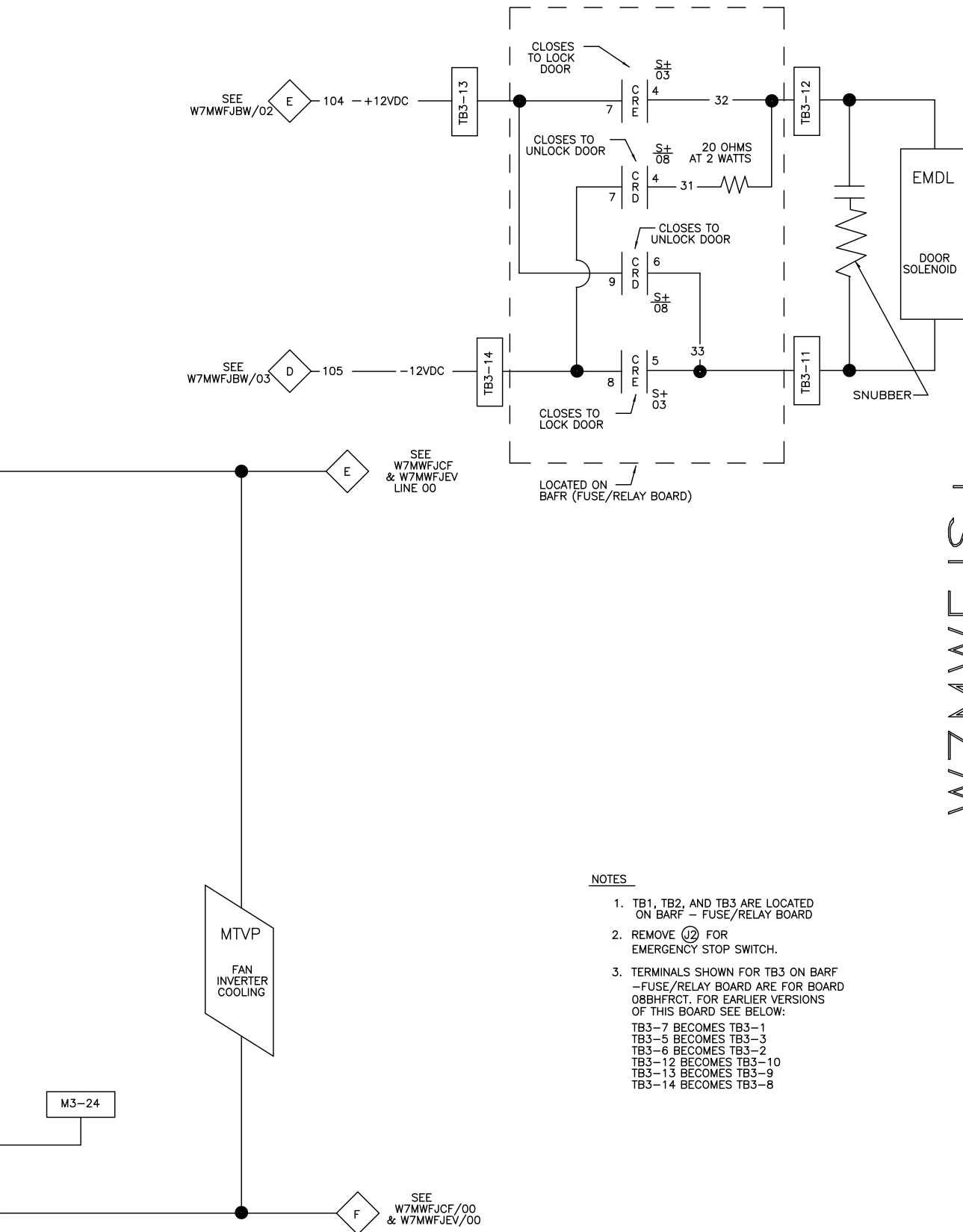
SCHEMATIC; RAISE HOUSE

FOR MWF63C7, 77C7, 100C7, 125C7 AIR TILT ONLY

220V1P50HZ/240V1P60HZ
PELLERIN MILNOR CORPORATION

W7MWFJRHA
2020394B

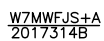


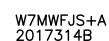


NOTES

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

W7MWFJS+
SCHEMATIC: START CIRCUIT & DOOR INTERLOCK
FOR MWF27J8
220V,1P,50HZ/240V,1P,60HZ
PELLERIN MILNOR CORPORATION

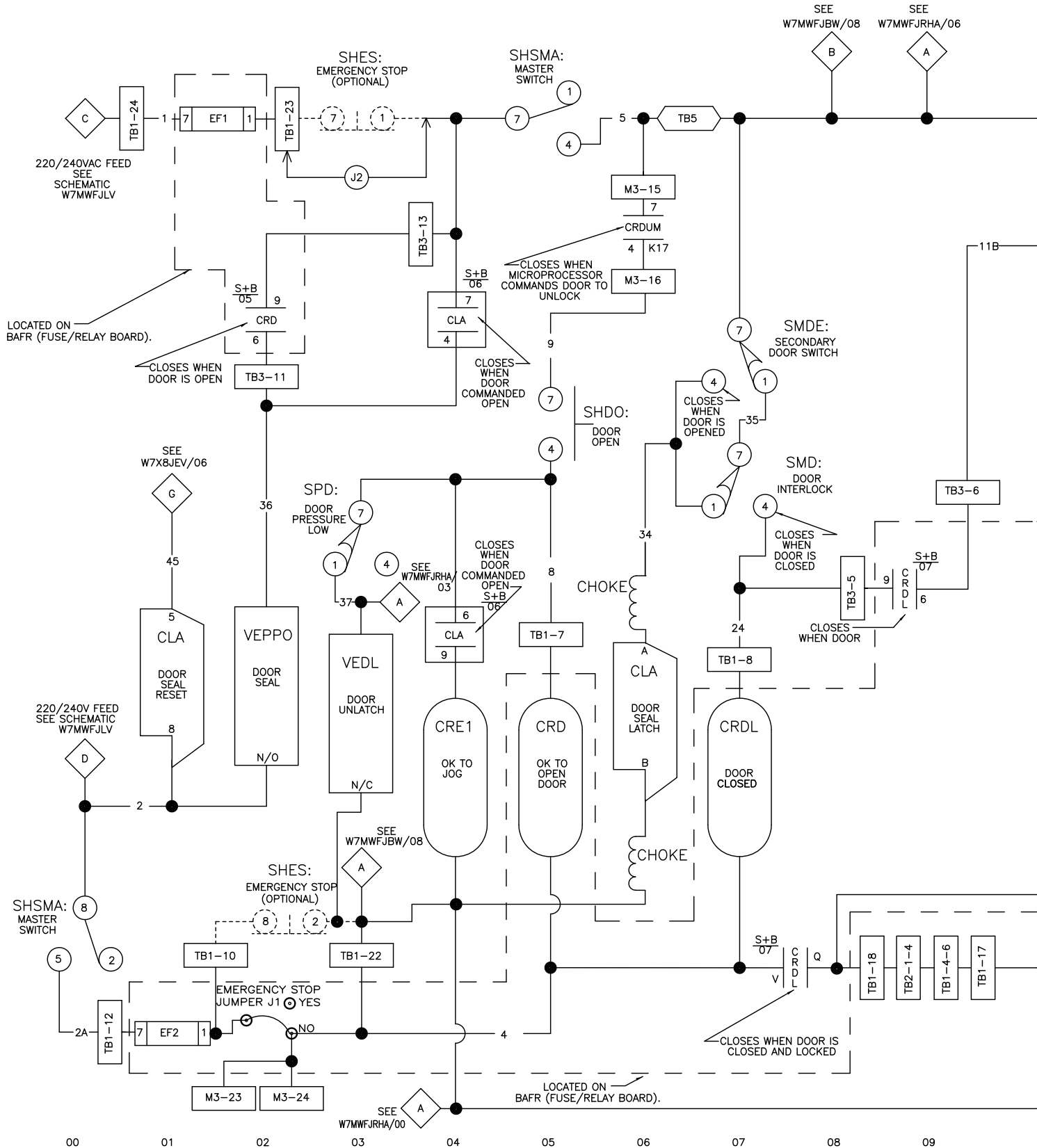


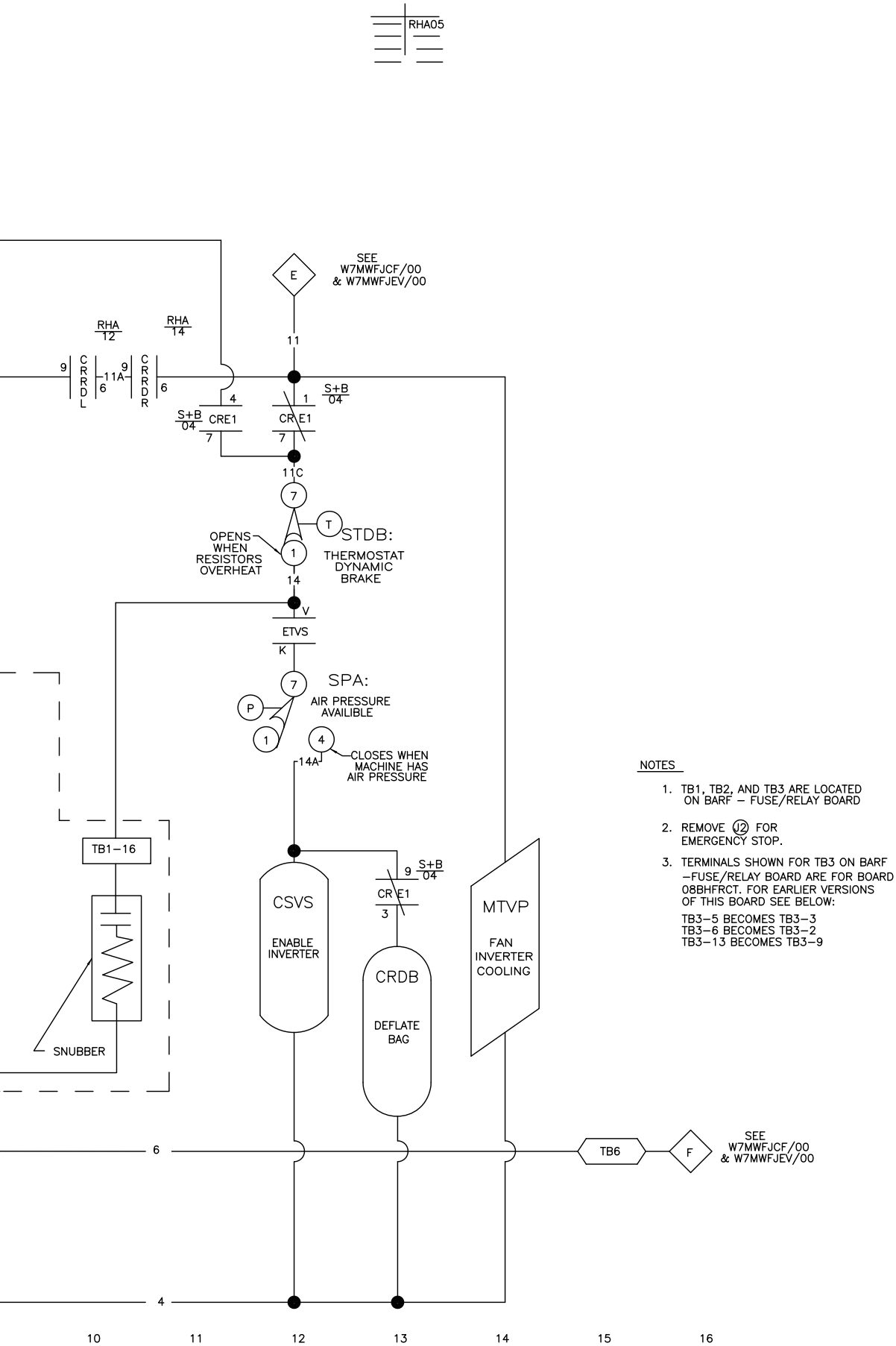


S+B11
S+B12
S+B13
VP13

S+B16
S+B16
S+B16

1A03
S+B05
S+A04





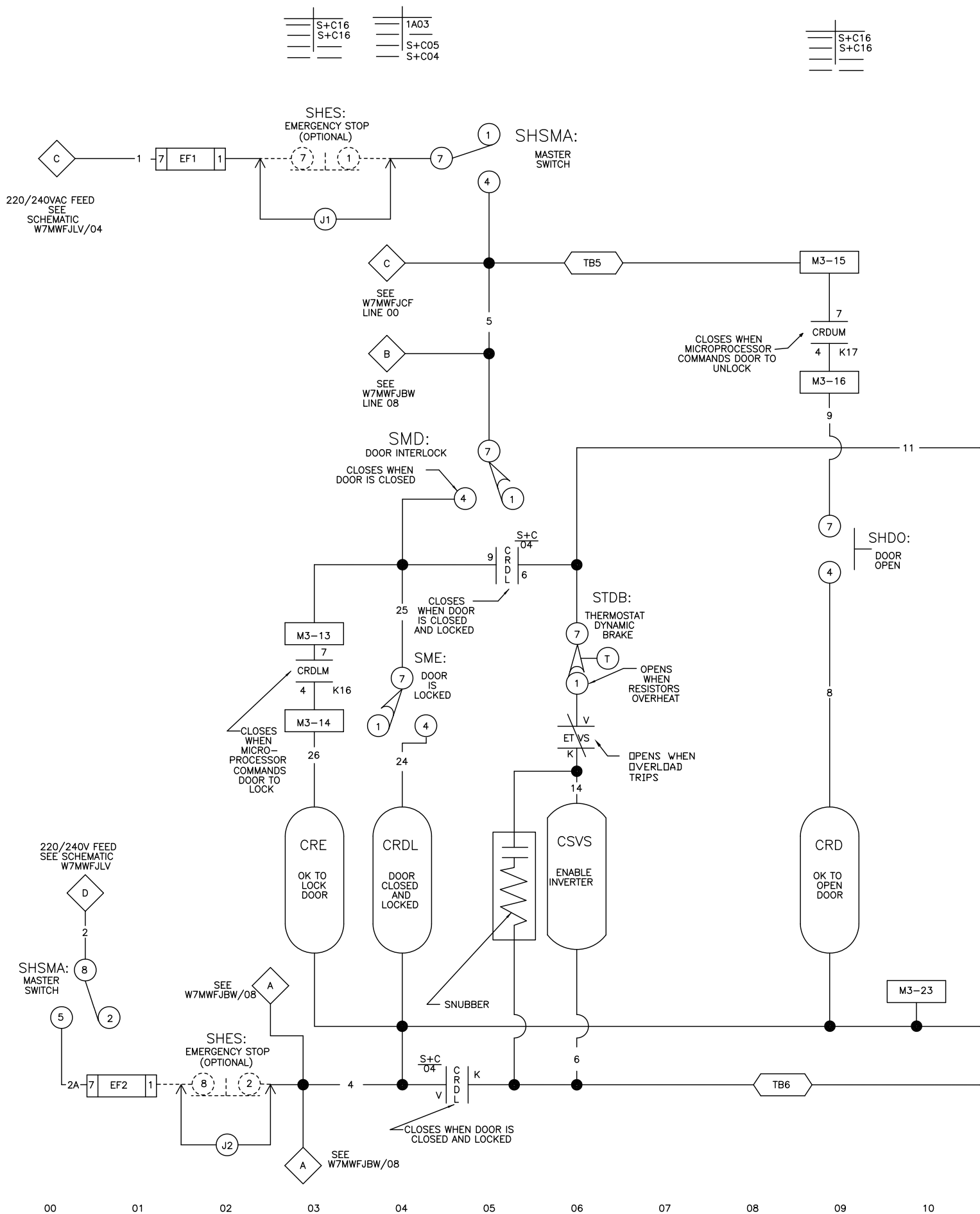
W7MWFJS+B

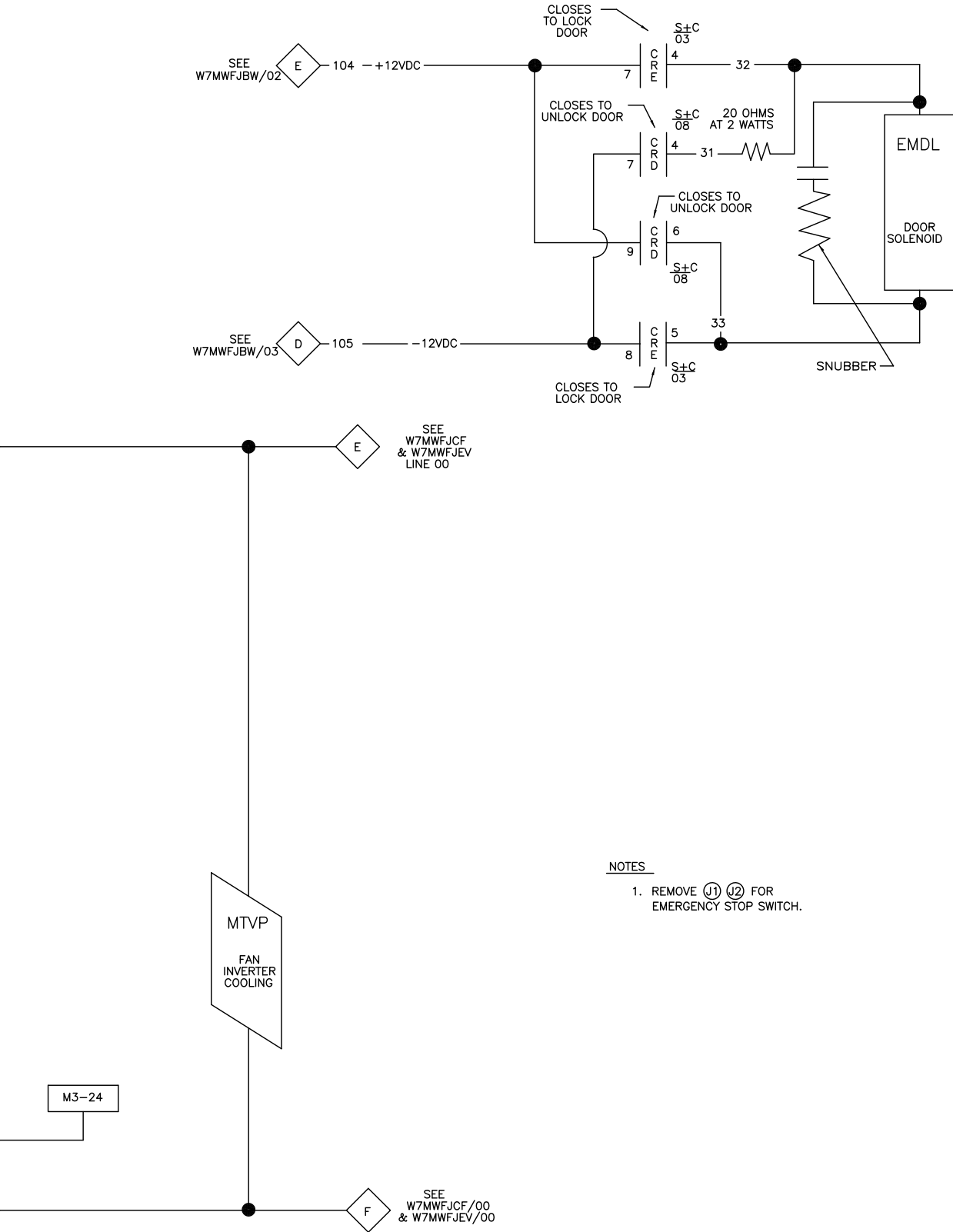
SCHEMATIC: START CIRCUIT & DOOR INTERLOCK

FOR MWF63C7, 77C7 & 100C7

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

PELLERIN MILNOR CORPORATION





NOTES

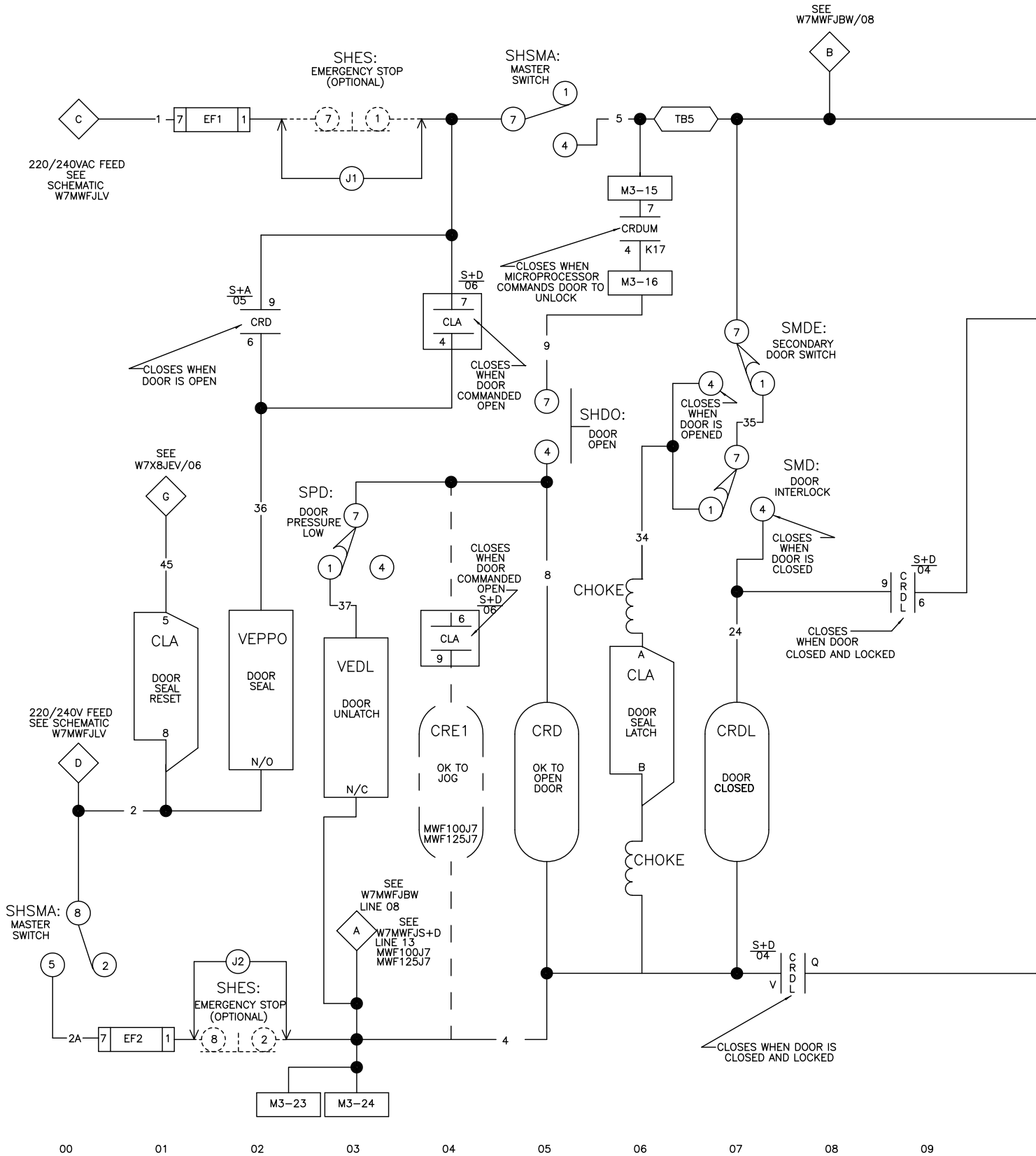
1. REMOVE J1 J2 FOR EMERGENCY STOP SWITCH.

W7MWFJS+C
SCHEMATIC: START CIRCUIT & DOOR INTERLOCK
FOR MWF18/27J8 NO FUSE BOARD
220V, 1P, 50HZ/240V, 1P, 60HZ
PELLERIN MILNOR CORPORATION

S+D11
S+D12

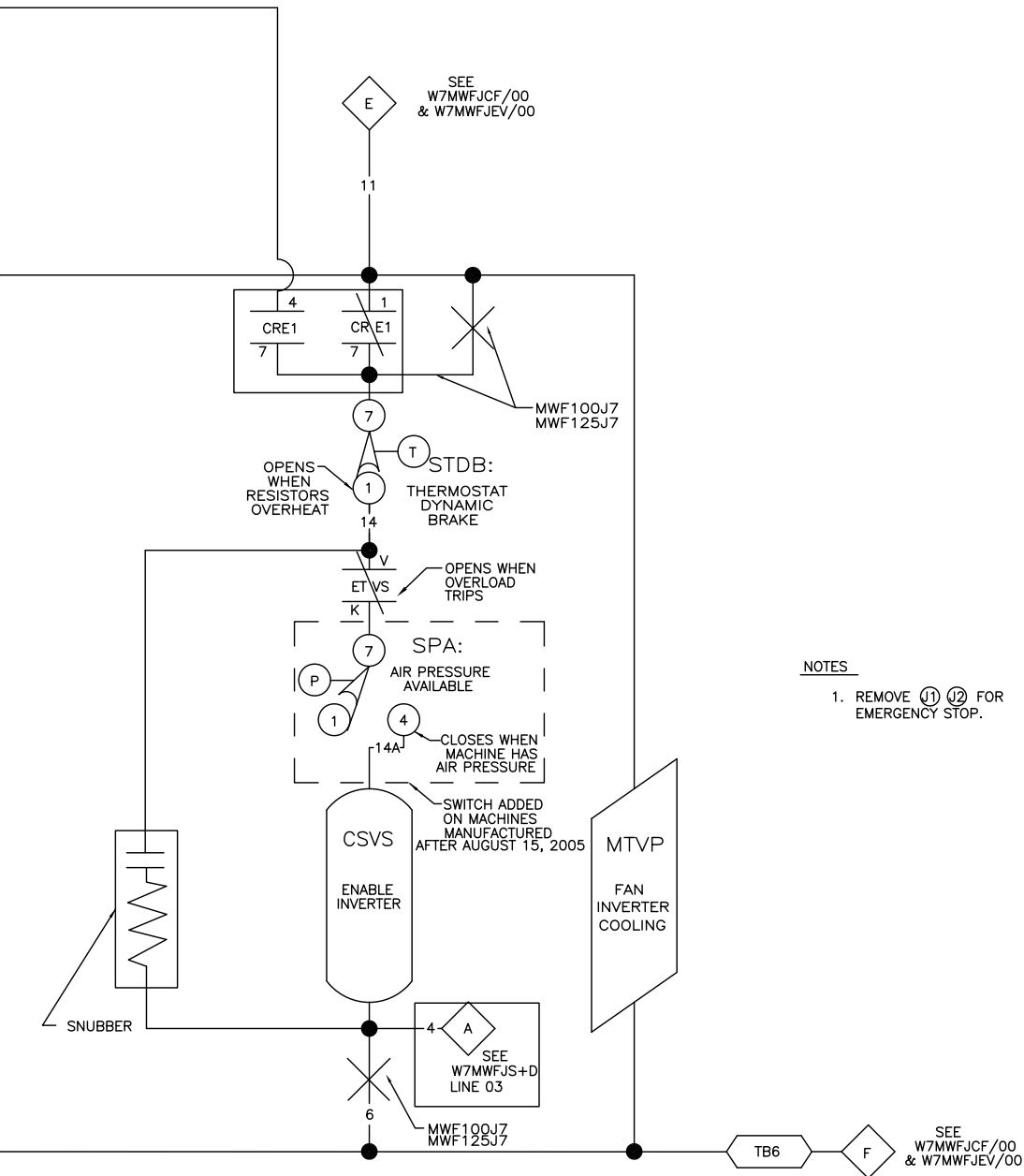
S+D16
S+D16

1A03
S+D05
S+D04



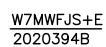
W7MWFJS+D

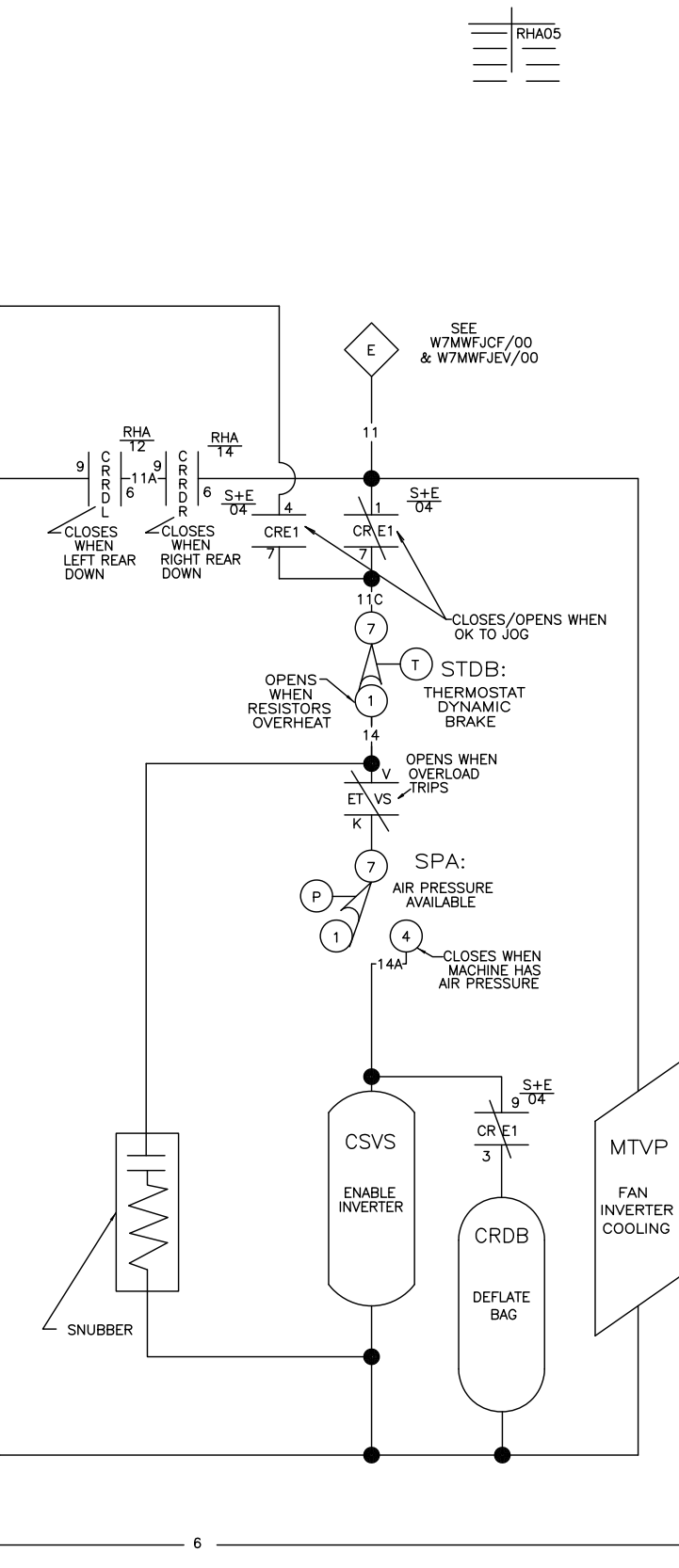
SCHEMATIC: START CIRCUIT & DOOR INTERLOCK
FOR MWF45J8, 63J7, 77J7, 100J7 & 125J7 NO FUSE BOARD
220V, 1P, 50HZ/240V, 1P, 60HZ
PELLERIN MILNOR CORPORATION



NOTES

1. REMOVE ⑪ ⑫ FOR EMERGENCY STOP.





NOTES

1. REMOVE ⑪ ⑫ FOR EMERGENCY STOP.

W7MWFJS+E

SCHEMATIC: START CIRCUIT & DOOR INTERLOCK

FOR 48040F7B MWF63C7, 77C7, 100C7 & 125C7 NO FUSE BOARD

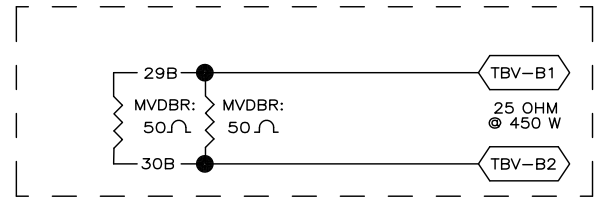
220V, 1P, 50HZ/240V, 1P, 60HZ

PELLERIN MILNOR CORPORATION

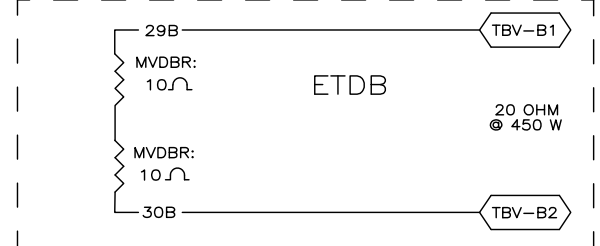
MWF27J8 – ALL



LOW VOLTAGE MWF45J7



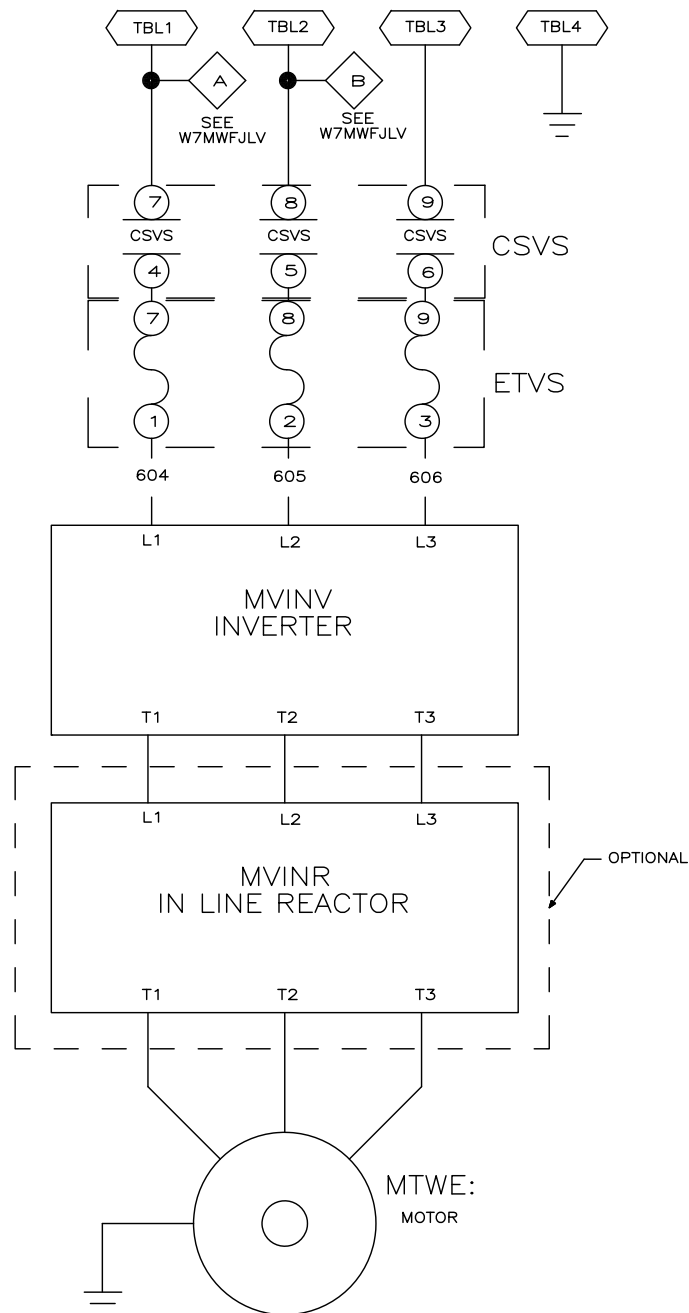
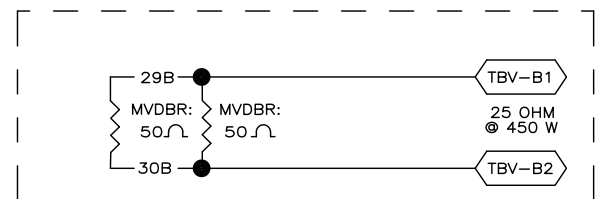
LOW VOLTAGE MWF63&77J7



HIGH VOLTAGE MWF45



HIGH VOLTAGE MWF63/77Z7/8



00 01 02 03 04 05 06 07 08 09

10

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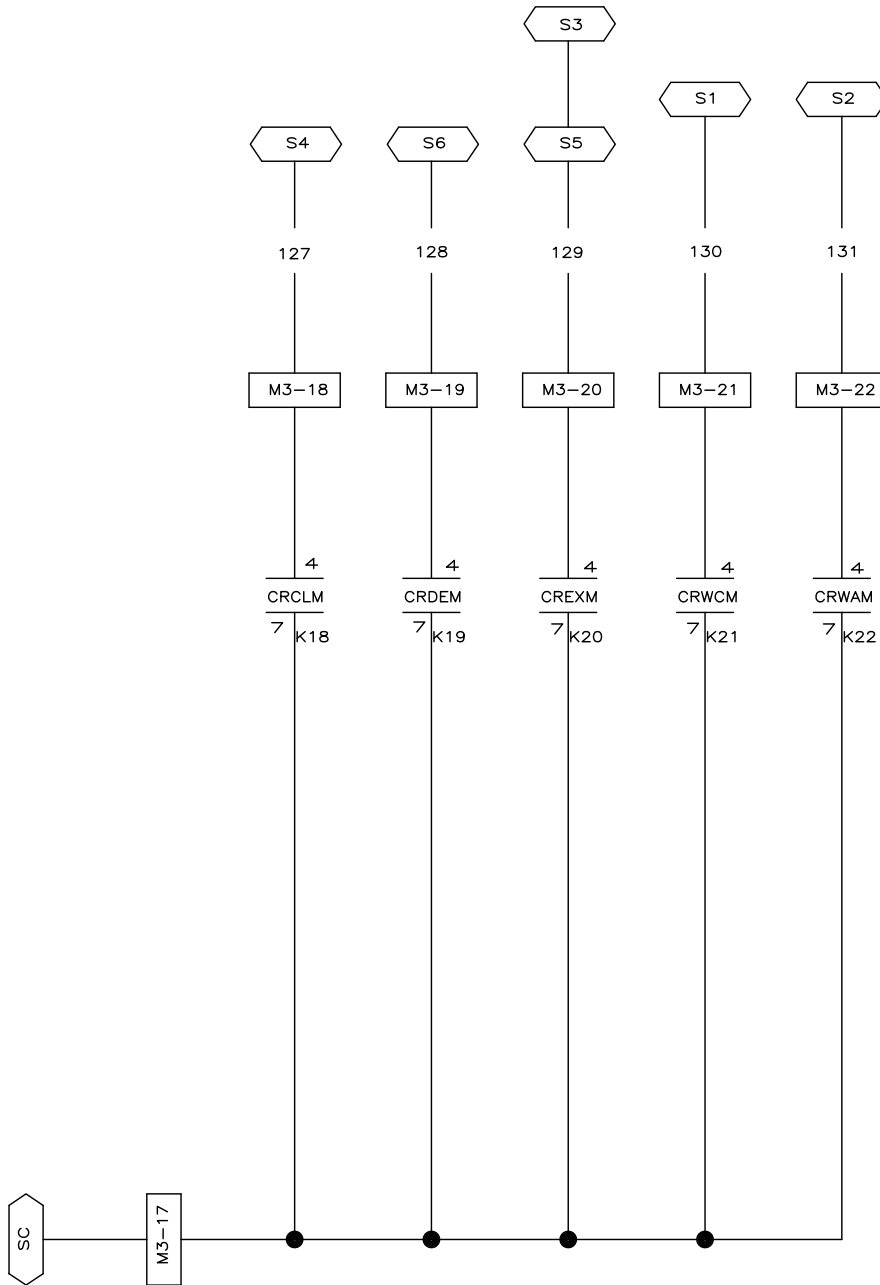
15

16

17

18

19



00000000

	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

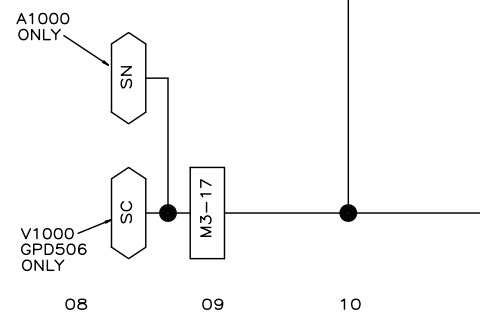
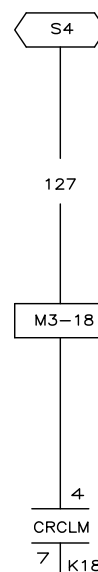
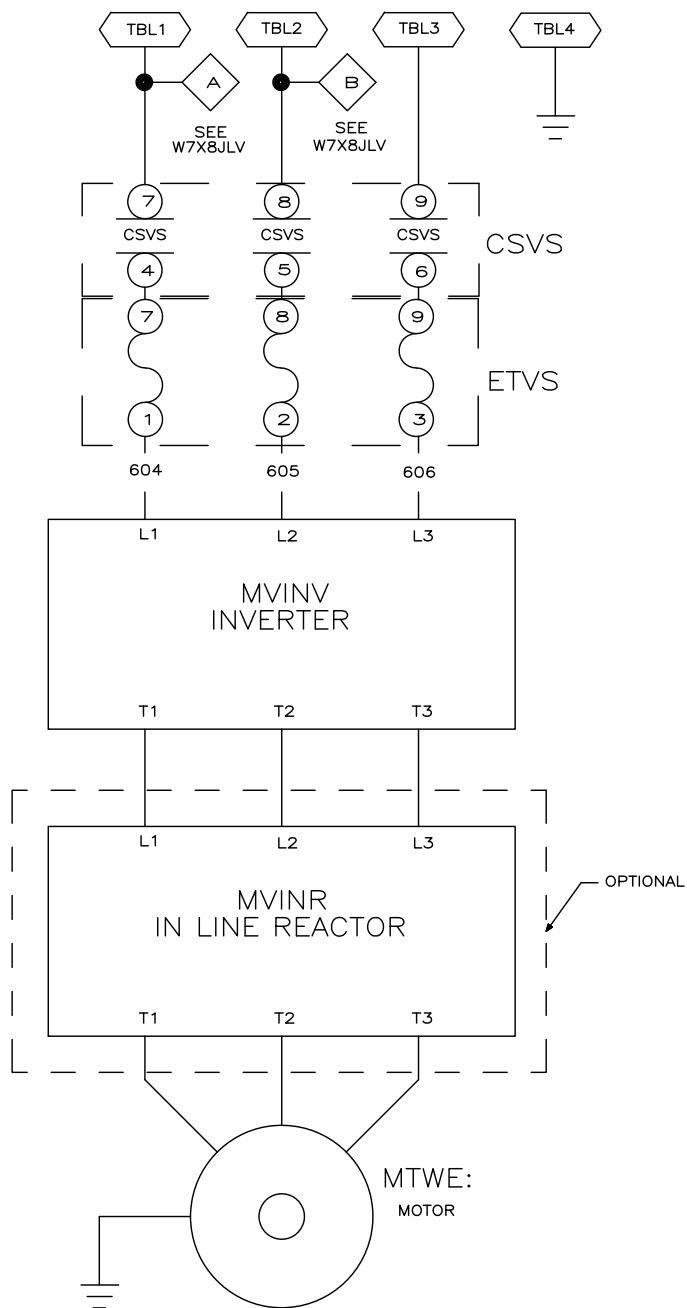
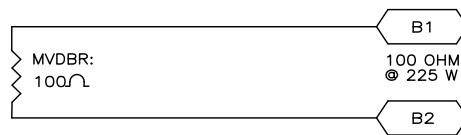
W7MWFJVPA

SCHEMATIC: VARIABLE SPEED CONTROLLER

FOR MWF18 THROUGH 77

CPD506 OR V1000 INVERTER

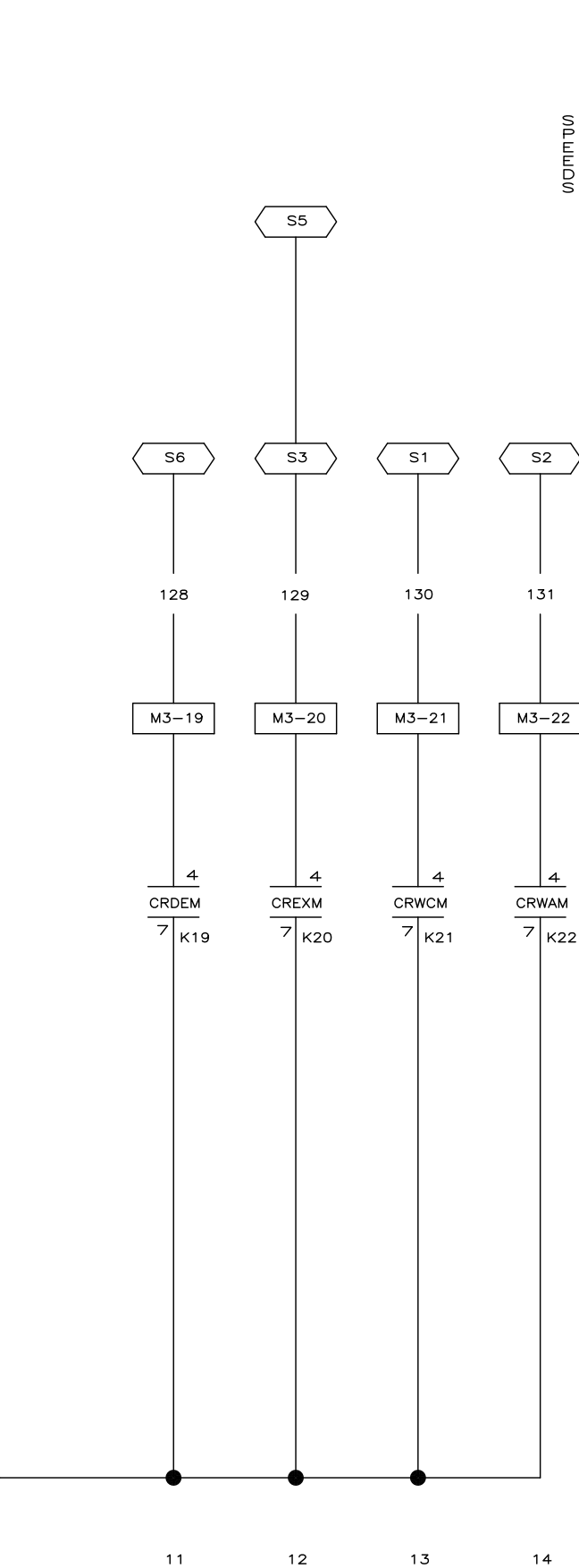
PELLERIN MILNOR CORPORATION



LITHO IN U.S.A.

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W7MWFJVPB
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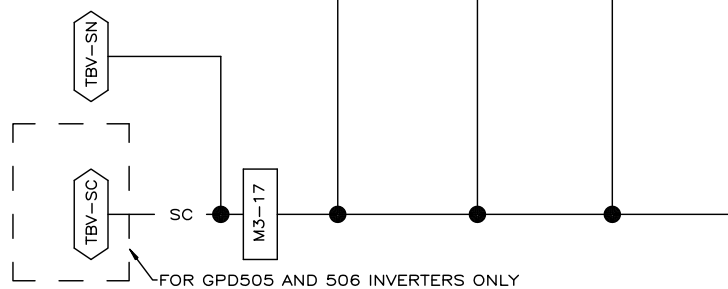
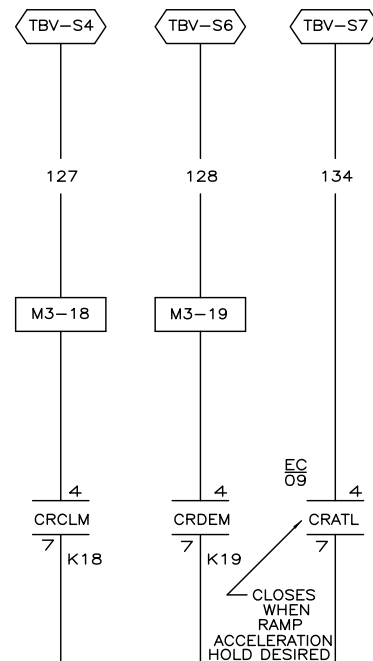
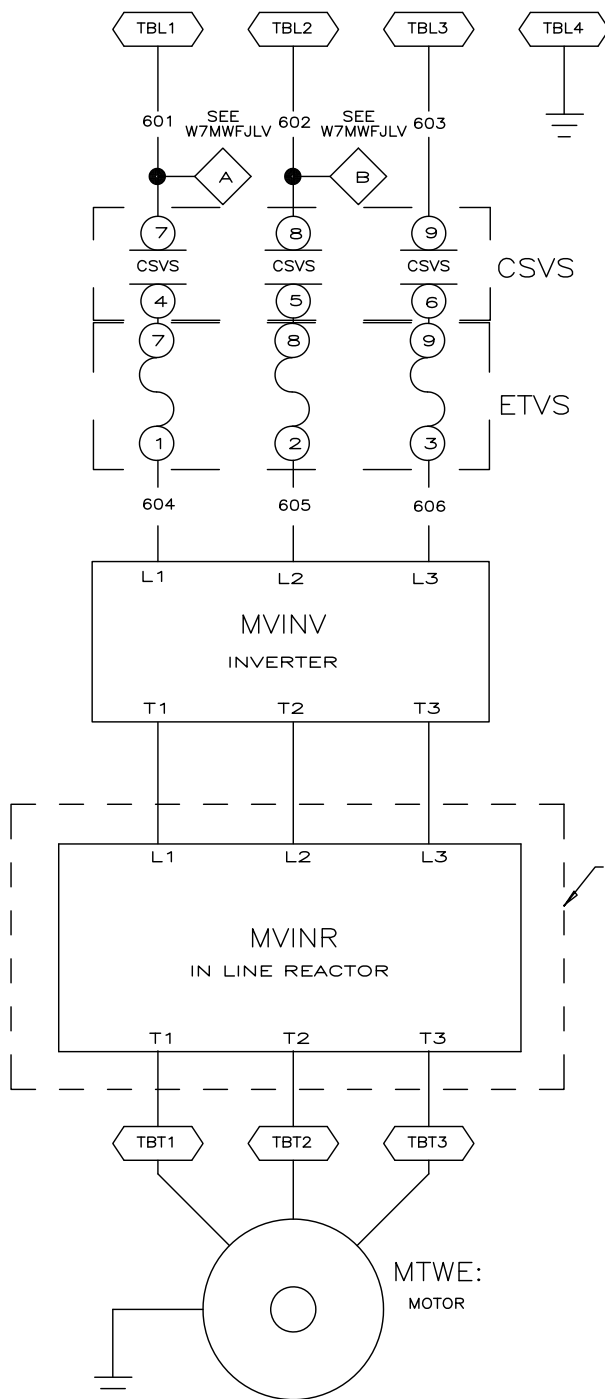
	CW		CCW		
	K21	K22	K18	K19	K20
WASH 1	X				
WASH 2	X		X		
DRAIN	X			X	
EXTRACT 1	X				X
EXTRACT 2	X		X		X
EXTRACT 3	X			X	X
OUT OF EXTRACT					X

W7MWFJVPB

SCHEMATIC: VARIABLE SPEED CONTROLLER

SINGLE PHASE POWER GPD506, V1000 OR A1000

PELLERIN MILNOR CORPORATION



LITHO IN U.S.A.

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W7MWFJVP
2020424B

