

Published Manual Number/ECN: ME72TG11BE/2011453A

- Publishing System: TPAS
- Access date: 11/28/2011
- Document ECN's: Latest Available



Schematic/Electrical Parts—

**50040, 58040, 58058, 58080, 64058,
and 72072 Dryers - Gas / Oil Fired
Mark V Controls**



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

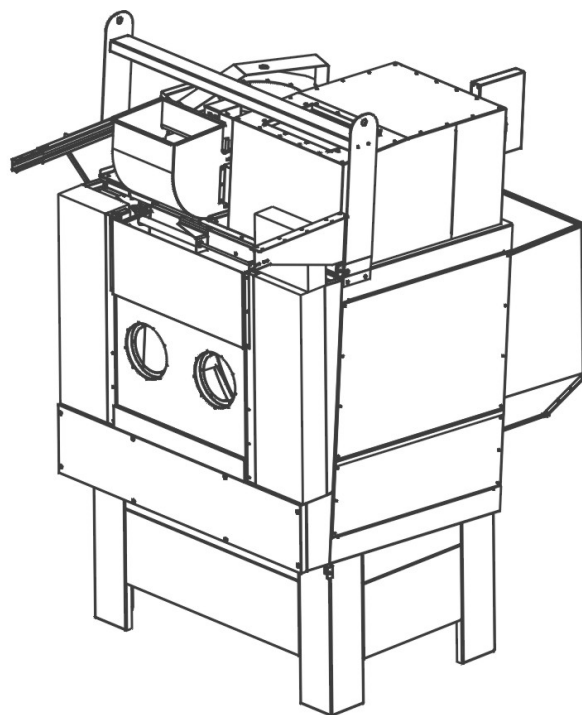
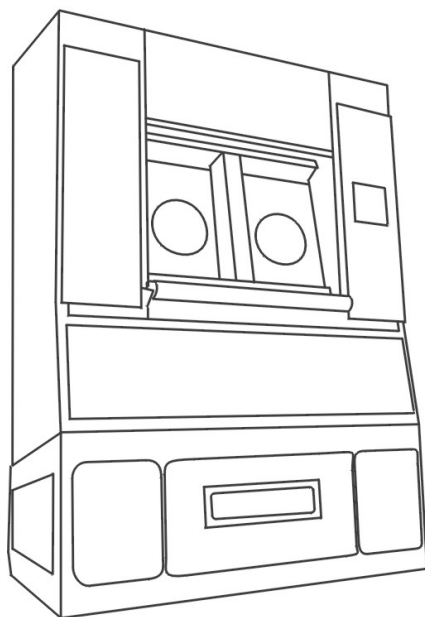


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COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF		WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
	THIS COMPONENT		THIS COMPONENT				
	>>CONTROL BOX LAYOUTS						
001	DETAIL-GAS DRYER CONTROL BOARDS	W6DR3FTG1	B2TAG96015	TAG:GAS DRYER CONTROL BDS<>	SEE FUNCTION		
002	DETAIL-GAS DRYER FIRE CONTROLLER	W6DR3FTG1	B2TAG85053	M6 SYS.DRYER GAS FIRE ASSY<>	SEE FUNCTION		
003	DETAIL-REMOTE DRYER CONTROLLER	W6DR3FTG1	B2TAG97059	M6 SYS DRYER AIR VALVE ASY<>	SEE FUNCTION		
004	DETAIL-GAS DRYER AIR VALVE BOX	W6DR3FTG1	B2TAG85059	REMOTE DRYER CONTROLLER <>	SEE FUNCTION		
005	DETAIL-58 GAS DRYER LOW VOLT PANEL	W6DR3FTG2	B2TAG97053	TAG:58"GAS DRYER LO VOLTBX<>	SEE FUNCTION		
006	DETAIL-58 GAS DRYER HIGH VOLT PANEL	W6DR3FTG2	B2TAG97052	TAG:58"GAS DRYER HI VOLTBX<>	SEE FUNCTION		
005	DETAIL-50 GAS DRYER LOW VOLT PANEL	W6DR3FTG3	B2T2008012	TAG:50"GAS DRYER LEFT LO VOLTBX<>	SEE FUNCTION		
006	DETAIL-50 GAS DRYER HIGH VOLT PANEL	W6DR3FTG3	B2T2008011	TAG:50"GAS DRYER RIGHT LO VOLTBX<>	SEE FUNCTION		
009	DETAIL-50 GAS DRYER HIGH VOLT PANEL	W6DR3FTG4	B2T2008013	TAG:50"GAS DRYER L/R HIGH VOLTBX<>	SEE FUNCTION		
010	DETAIL-64 GAS DRYER AIR VALVE BOX	W6DR3FTG4	B2T2001008	TAG:6458/7272TG1L/R GAS DRYER AIR VALV	SEE FUNCTION		
011	DETAIL-PROC BD W/DRYER/SHUT CNTRL	W6DR3FTG4	B2T2001010	TAG:186 PROC BD (DRYER/SH)	SEE FUNCTION		
012	DETAIL-64/72 GAS DRYER LOW VOLT PANEL	W6DR3FTG5	B2T2002006	6458/7272TG1L/R LOW VOLTAGE PANEL	SEE FUNCTION		
013	DETAIL-64/72 GAS DRYER HIGH VOLT PANEL	W6DR3FTG5	B2T2001009	6458/7272TG1L/R HIGH VOLTAGE PANEL	SEE FUNCTION		
BA	>>PRINTED CIRCUIT BOARDS						
BAD1	BOARD-A TO D+ THERMOCOUPLE	W6DR3FTC	08BSADCTT	BD:SER A-D+THERMOCOUP>TESTED	LOW VOLT BOX		
BADR-1	BOARD- ADDRESS SETTING	W6DR3FDC	08BSKPST	BD:KEYPAD SWITCH BOARD	PROCESSOR BX		
BADR-1 NOTE	THIS BOARD IS NOT USED AFTER JANUARY 2000, IT IS BUILT IN TO THE SERIAL PROCESSOR ITEM BPB						
BBB-1	BOARD-MEMORY BATTERY BACKUP	W6DR3FTC	08BSBB1T	BOARD: SER BATT BACKUP-TEST	PROCESSOR BX		
BDA1	BOARD-DIGITAL TO ANALOG	W6DR3FGM	08BSDACT	BD:SERIAL D-A CONVERTR->TEST	LOW VOLT BOX		
BDA1	BOARD-DIGITAL TO ANALOG	W6DR3FGMA	08BSDACT	BD:SERIAL D-A CONVERTR->TEST	LOW VOLT BOX		
BDA1	BOARD-DIGITAL TO ANALOG	W6DR3FGMB	08BSDACT	BD:SERIAL D-A CONVERTR->TEST	LOW VOLT BOX		
BDA1	BOARD-DIGITAL TO ANALOG	W6DR3FGMD	08BSDACT	BD:SERIAL D-A CONVERTR->TEST	LOW VOLT BOX		
BDA1	BOARD-DIGITAL TO ANALOG	W6DR3FTV	08BSDACT	BD:SERIAL D-A CONVERTR->TEST	LOW VOLT BOX		
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6DR3FGM	08BS816HT	BOARD:HIGH SPEED SERIAL 8OUT-16IN-TEST	LOW VOLT BOX		
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6DR3FGMA	08BS816HT	BOARD:HIGH SPEED SERIAL 8OUT-16IN-TEST	LOW VOLT BOX		
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6DR3FGMB	08BS816HT	BOARD:HIGH SPEED SERIAL 8OUT-16IN-TEST	LOW VOLT BOX		
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6DR3FGMD	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX		
BIO-2	BOARD-8OUTPUT/16INPUT #2	W6DR3FGM	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX		
BIO-2	BOARD-8OUTPUT/16INPUT #2	W6DR3FGMA	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX		
BIO-2	BOARD-8OUTPUT/16INPUT #2	W6DR3FGMB	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX		
BIO-2	BOARD-8OUTPUT/16INPUT #2	W6DR3FGMD	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX		
BIO-3	BOARD-8OUTPUT/16INPUT #3	W6DR3FGM	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX		

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND			LOCATION
		THIS COMPONENT	MIL/NOR P/N	DESCRIPTION	
BIO-3	BOARD-8OUTPUT/16INPUT #3	W6DR3FGMA	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX
BIO-3	BOARD-8OUTPUT/16INPUT #3	W6DR3FGMB	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX
BIO-3	BOARD-8OUTPUT/16INPUT #3	W6DR3FGMD	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX
BMTH	BOARD-CARD CAGE MOTHER	W6DR3FGM	08BS5MTHAT	BD:SERIAL 5 CARD MOTHER-TEST	LOW VOLT BOX
BMTH	BOARD-CARD CAGE MOTHER	W6DR3FGMA	08BS5MTHAT	BD:SERIAL 5 CARD MOTHER-TEST	LOW VOLT BOX
BMTH	BOARD-CARD CAGE MOTHER	W6DR3FGMB	08BS5MTHAT	BD:SERIAL 5 CARD MOTHER-TEST	LOW VOLT BOX
BMTH	BOARD-CARD CAGE MOTHER	W6DR3FGMD	08BS5MTHAT	BD:SERIAL 5 CARD MOTHER-TEST	LOW VOLT BOX
BO1	BOARD-24 OUTPUT #1	W6DR3FGM	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO1	BOARD-24 OUTPUT #1	W6DR3FGMA	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO1	BOARD-24 OUTPUT #1	W6DR3FGMB	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO1	BOARD-24 OUTPUT #1	W6DR3FGMD	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO2	BOARD-6 OUTPUT	W6DR3FDC	08BN6OAT	6 OUTPUT BOARD->TEST	PROCESSOR BX
BO2	BOARD-6 OUTPUT	W6DR3FTR	08BN6OAT	6 OUTPUT BOARD->TEST	PROCESSOR BX
BPB	BOARD-MICROPROCESSOR	W6DR3FDC	08BSPE2T	SERIAL 186 PROC BD+FP->TEST	PROCESSOR BX
BPB	BOARD-MICROPROCESSOR	W6DR3FSTC	08BSPE2T	SERIAL 186 PROC BD+FP->TEST	PROCESSOR BX
BPB	BOARD-MICROPROCESSOR	W6DR3FSTR	08BSPE2T	SERIAL 186 PROC BD+FP->TEST	PROCESSOR BX
BRS1	BOARD-ROTATIONAL SAFETY	W6DR3FGM	08BNDSRAT	BD:DRY SAFETY ROTATION->TEST	LOW VOLT BOX
BRS1	BOARD-ROTATIONAL SAFETY	W6DR3FGMA	08BNDSRAT	BD:DRY SAFETY ROTATION->TEST	LOW VOLT BOX
BRS1	BOARD-ROTATIONAL SAFETY	W6DR3FGMB	08BNDSRAT	BD:DRY SAFETY ROTATION->TEST	LOW VOLT BOX
BRS1	BOARD-ROTATIONAL SAFETY	W6DR3FGMD	08BNDSRAT	BD:DRY SAFETY ROTATION->TEST	LOW VOLT BOX
CB	>>>CIRCUIT BREAKERS				
CB1	CIRCUIT BRKR-MAIN AIR MOTOR	W6DR3FMTR	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
CB1	CIRCUIT BRKR-MAIN AIR MOTOR	W6DR3FMTS	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
CB2	CIRCUIT BRKR-BASKET MOTOR	W6DR3FMTR	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
CB2	CIRCUIT BRKR-BASKET MOTOR	W6DR3FMTS	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
CD	>>>RELAY-TIME DELAY				
CDEFN	DELAY-WATER FOR FIRE	W6DR3FLSA	09CF030037	TDR F30S 2PDT 11PIN 120V50/60C	LOW VOLT BOX
CDVS	DELAY-VARIABLE SPEED FAULT	W6DR3FMCC	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	HIGH VOLT BX
CDVS	DELAY-VARIABLE SPEED FAULT	W6DR3FMCE	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	HIGH VOLT BX
CDVS	DELAY-VARIABLE SPEED FAULT	W6DR3FVP	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	VARI SPEED BX
CL	>>>RELAY-LATCH				
CLBB	LATCH-BURNER BOX PRESSURE	W6DR3FSF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLCA	LATCH-COMBUSTION AIR LOW	W6DR3FFE	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
CLCA	LATCH-COMBUSTION AIR LOW	W6DR3FFEG	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLCA	LATCH-COMBUSTION AIR LOW	W6DR3FSF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLEFN	LATCH-WATER FOR FIRE	W6DR3FLSA	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLFET	LATCH-FIRE EYE TRIPPED	W6DR3FFE	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLFET	LATCH-FIRE EYE TRIPPED	W6DR3FFEG	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGH	LATCH-GAS PRESSURE HIGH	W6DR3FFE	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGH	LATCH-GAS PRESSURE HIGH	W6DR3FFEF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGH	LATCH-GAS PRESSURE HIGH	W6DR3FFEG	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGH	LATCH-GAS PRESSURE HIGH	W6DR3FSF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGL	LATCH-GAS PRESSURE LOW	W6DR3FFE	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGL	LATCH-GAS PRESSURE LOW	W6DR3FFEF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGL	LATCH-GAS PRESSURE LOW	W6DR3FFEG	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGL	LATCH-GAS PRESSURE LOW	W6DR3FSF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLMA	LATCH-MAIN AIR LOW	W6DR3FFE	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLMA	LATCH-MAIN AIR LOW	W6DR3FFEF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLMA	LATCH-MAIN AIR LOW	W6DR3FFEG	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLMA	LATCH-MAIN AIR LOW	W6DR3FSF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CP	>>PHOTOEYE-LOAD DOOR				
CPLDC	PHOTOEYE-LOAD DOOR CLOSED	W6DR3FI1	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	LOAD DOOR
CPLDO	PHOTOEYE-LOAD DOOR OPEN	W6DR3FI1	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	LOAD DOOR
CPLDC	PHOTOEYE-LOAD DOOR CLOSED	W6DR3FI3	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	LOAD DOOR
CR	>>RELAY-PILOT OR CONTROL				
CRB	RESET-SOFT START	W6DR3FMC			
CRB	RESET-SOFT START	W6DR3FMCA			
CRB	RESET-SOFT START	W6DR3FMCD			
CRBAA	RELAY-BASKET MOTOR CCW	W6DR3FMCC	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRBAA	RELAY-BASKET MOTOR CCW	W6DR3FMCE	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRBAA	RELAY-BASKET MOTOR CCW	W6DR3FVP	09C024D37	4PDT "KH" 110/120V	VARI SPEED BX
CRBAC	RELAY-BASKET MOTOR CW	W6DR3FMCC	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRBAC	RELAY-BASKET MOTOR CW	W6DR3FMCE	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRBAC	RELAY-BASKET MOTOR CW	W6DR3FVP	09C024D37	4PDT "KH" 110/120V	VARI SPEED BX
CRC	RELAY-COMBUSTION	W6DR3FFEB	09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRCA	RELAY-COMBUSTION AIR DAMPER CLOSED	W6DR3FFEE	09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>		<u>WHERE TO FIND THIS COMPONENT</u>		<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
CRDC	RELAY-CLOSE COOLDOWN		W6DR3FTV		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRDDC	RELAY-DISCHARGE DOOR CLOSED		W6DR3FEV		09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CREFN	RELAY-WATER FOR FIRE		W6DR3FLSA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFE	RELAY-FIRE EYE ENABLE		W6DR3FS+		09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRFEF	RELAY-DOORS CLOSED		W6DR3FFEA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFEF	RELAY-DOORS CLOSED		W6DR3FFEB		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFEF	RELAY-DOORS CLOSED		W6DR3FFED		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFEF	RELAY-DOORS CLOSED		W6DR3FFEE		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFEF	RELAY-DOORS CLOSED		W6DR3FFEF		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFEF	RELAY-FIRE SAFETIES O.K.		W6DR3FSF		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRFET	RELAY-FIRE CONTROLLER LOCKED OUT		W6DR3FFEA		09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRFET	RELAY-FIRE CONTROLLER LOCKED OUT		W6DR3FFEB		09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRFET	RELAY-FIRE CONTROLLER LOCKED OUT		W6DR3FFED		09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRFET	RELAY-FIRE CONTROLLER LOCKED OUT		W6DR3FFEE		09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRFET	RELAY-FIRE CONTROLLER LOCKED OUT		W6DR3FFEF		09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRFET	RELAY-FIRE CONTROLLER LOCKED OUT		W6DR3FSF		09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRGA	RELAY-GAS VALVE ENABLED		W6DR3FFEA		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRGA	RELAY-GAS VALVE ENABLED		W6DR3FFEB		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRGA	RELAY-GAS VALVE ENABLED		W6DR3FFED		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRGA	RELAY-GAS VALVE ENABLED		W6DR3FFEE		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRGA	RELAY-GAS VALVE ENABLED		W6DR3FFEF		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRK	RELAY-MAIN/COMBUSTION AIR		W6DR3FFED		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRK	RELAY-DISCHARGE DESIRED		W6DR3FFEE		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRL	RELAY-DUTCH SPECS		W6DR3FFED		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRL	RELAY-DUTCH SPECS		W6DR3FFEE		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRLDC	RELAY-LOAD DOOR CLOSED		W6DR3FEV		09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRMA	RELAY-RUN BLOWER		W6DR3FMTS		09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRRI	RELAY-IGNITION		W6DR3FFED		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRRI	RELAY-IGNITION		W6DR3FFEE		09C024D37	4PDT "KH" 110/120V	FIRE CONTR PL
CRS+	RELAY-3-WIRE		W6DR3FS+		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRV	RELAY-ENERGENICS OPERATE VACUUM		W6DR3FLSA		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CS	>>CONTACTOR-MOTOR STARTER						
CSBA-1	CONTACTOR-5840, 5858,&5880 HV BASKET		W6DR3FMC		09MR08C337	18A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF		WHERE TO FIND		MIL/NOR P/N	DESCRIPTION	LOCATION
	THIS COMPONENT	THIS COMPONENT	THIS COMPONENT	THIS COMPONENT			
CSBA-1	CONTACTOR-5840, 5858,&5880 HV BASKET	W6DR3FMCA	W6DR3FMCA	09MR08C337	18A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBA-1	CONTACTOR-5840, 5858,&5880 HV BASKET	W6DR3FMCD	W6DR3FMCD	09MR08C337	18A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBA-1	CONTACTOR-5840, 5858,&5880 LV BASKET	W6DR3FMC	W6DR3FMC	09MR08D337	24A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBA-2	CONTACTOR-5840, 5858,&5880 LV BASKET	W6DR3FMCA	W6DR3FMCA	09MR08D337	24A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBA-2	CONTACTOR-5840, 5858,&5880 LV BASKET	W6DR3FMCD	W6DR3FMCD	09MR08D337	24A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBA-3	CONTACTOR-7272 LOW VOLT BASKET	W6DR3FMC	W6DR3FMC	09MR08L337	60A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBA-3	CONTACTOR-7272 LOW VOLT BASKET	W6DR3FMCA	W6DR3FMCA	09MR08L337	60A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBA-3	CONTACTOR-7272 LOW VOLT BASKET	W6DR3FMCD	W6DR3FMCD	09MR08L337	60A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBA-4	CONTACTOR-7272 HIGH VOLT BASKET	W6DR3FMC	W6DR3FMC	09MR08E337	30A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBA-4	CONTACTOR-7272 HIGH VOLT BASKET	W6DR3FMCA	W6DR3FMCA	09MR08E337	30A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBA-4	CONTACTOR-7272 HIGH VOLT BASKET	W6DR3FMCD	W6DR3FMCD	09MR08E337	30A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX	
CSBAC	CONTACTOR-CNTR-CLOCKWISE ROTATION	W6DR3FMC	W6DR3FMC	MESSAGE EW	SEE CSBA-1,-2,-3,-4 FOR CONTACTOR	HIGH VOLT BX	
CSBAC	CONTACTOR-CNTR-CLOCKWISE ROTATION	W6DR3FMCA	W6DR3FMCA	MESSAGE EW	SEE CSBA-1,-2,-3,-4 FOR CONTACTOR	HIGH VOLT BX	
CSBAC	CONTACTOR-CNTR-CLOCKWISE ROTATION	W6DR3FMCD	W6DR3FMCD	MESSAGE EW	SEE CSBA-1,-2,-3,-4 FOR CONTACTOR	HIGH VOLT BX	
CSBAW	CONTACTOR-CLOCKWISE ROTATION	W6DR3FMC	W6DR3FMC	MESSAGE EW	SEE CSBA-1,-2,-3,-4 FOR CONTACTOR	HIGH VOLT BX	
CSBAW	CONTACTOR-CLOCKWISE ROTATION	W6DR3FMCA	W6DR3FMCA	MESSAGE EW	SEE CSBA-1,-2,-3,-4 FOR CONTACTOR	HIGH VOLT BX	
CSBAW	CONTACTOR-CLOCKWISE ROTATION	W6DR3FMCD	W6DR3FMCD	MESSAGE EW	SEE CSBA-1,-2,-3,-4 FOR CONTACTOR	HIGH VOLT BX	
CSCA	CONTACTOR-COMBUSTION AIR	W6DR3FMC	W6DR3FMC	09MC08B337	12A 3P MCS CONT NR 120V5/6	HIGH VOLT BX	
CSCA	CONTACTOR-COMBUSTION AIR	W6DR3FMCA	W6DR3FMCA	09MC08B337	12A 3P MCS CONT NR 120V5/6	HIGH VOLT BX	
CSCA	CONTACTOR-COMBUSTION AIR	W6DR3FMCD	W6DR3FMCD	09MC08B337	12A 3P MCS CONT NR 120V5/6	HIGH VOLT BX	
CSCA	CONTACTOR-COMBUSTN AIR 6458TG1L/R	W6DR3FMCC	W6DR3FMCC	09MC08C337	16A 3P MCS CONT NR 120V5/6	HIGH VOLT BX	
CSCA	CONTACTOR-COMBUSTN AIR 7272TG1L/R	W6DR3FMCC	W6DR3FMCC	09MC08C337	16A 3P MCS CONT NR 120V5/6	HIGH VOLT BX	
CSCA	CONTACTOR-COMBUSTION AIR	W6DR3FMCD	W6DR3FMCD	09MC08B337	12A 3P MCS CONT NR 120V5/6	HIGH VOLT BX	
CSCA	CONTACTOR-COMBUSTN AIR 6458TG1L/R	W6DR3FMCE	W6DR3FMCE	09MC08C337	16A 3P MCS CONT NR 120V5/6	HIGH VOLT BX	
CSCA	CONTACTOR-COMBUSTN AIR 7272TG1L/R	W6DR3FMCE	W6DR3FMCE	09MC08C337	16A 3P MCS CONT NR 120V5/6	HIGH VOLT BX	
CSMA	CONTACTOR-MAIN AIR	W6DR3FMC	W6DR3FMC	MESSAGE EW	SEE CSMA-1,-2,-3 FOR CONTACTOR	HIGH VOLT BX	
CSMA	CONTACTOR-MAIN AIR	W6DR3FMCA	W6DR3FMCA	MESSAGE EW	SEE CSMA-1,-2,-3 FOR CONTACTOR	HIGH VOLT BX	
CSMA	CONTACTOR-MAIN AIR	W6DR3FMCD	W6DR3FMCD	MESSAGE EW	SEE CSMA-1,-2,-3 FOR CONTACTOR	HIGH VOLT BX	
CSMA	CONTACTOR-MAIN AIR	W6DR3FMCC	W6DR3FMCC	MESSAGE EW	SEE CSMA-4,-5,-6,-7 FOR CONTACTOR	HIGH VOLT BX	
CSMA	CONTACTOR-MAIN AIR	W6DR3FMCD	W6DR3FMCD	MESSAGE EW	SEE CSMA-1,-2,-3 FOR CONTACTOR	HIGH VOLT BX	
CSMA	CONTACTOR-MAIN AIR	W6DR3FMCE	W6DR3FMCE	MESSAGE EW	SEE CSMA-4,-5,-6,-7 FOR CONTACTOR	HIGH VOLT BX	
CSMA-1	CONTACTOR-5840,5858,LV+5880,7272 HV	W6DR3FMC	W6DR3FMC	09MC08L337	60A 3P MCS CONT.NR 120V5/6	HIGH VOLT BX	
CSMA-1	CONTACTOR-5840,5858,LV+5880,7272 HV	W6DR3FMCD	W6DR3FMCD	09MC08L337	60A 3P MCS CONT.NR 120V5/6	HIGH VOLT BX	

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
CSMA-2	CONTACTOR-5840,5858HV MAIN AIR	W6DR3FMC	09MC08E337	30A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSMA-2	CONTACTOR-5840,5858HV MAIN AIR	W6DR3FMCD	09MC08E337	30A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSMA-3	CONTACTOR-5880,7272 LV MAIN AIR	W6DR3FMC	09MC08N337	72A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSMA-3	CONTACTOR-5880,7272 LV MAIN AIR	W6DR3FMCD	09MC08N337	72A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSMA-4	CONTACTOR-MAIN AIR 6458TG1L/R LO VOLT	W6DR3FMCC	09MC04U337	180A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSMA-4	CONTACTOR-MAIN AIR 6458TG1L/R LO VOLT	W6DR3FMCE	09MC04U337	180A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSMA-5	CONTACTOR-MAIN AIR 6458TG1L/R HI VOLT	W6DR3FMCC	09MC04T337	110A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSMA-5	CONTACTOR-MAIN AIR 6458TG1L/R HI VOLT	W6DR3FMCE	09MC04T337	110A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSMA-6	CONTACTOR-MAIN AIR 7272TG1L/R LO VOLT	W6DR3FMCC	09MC04U337	180A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSMA-6	CONTACTOR-MAIN AIR 7272TG1L/R LO VOLT	W6DR3FMCE	09MC04U337	180A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSMA-7	CONTACTOR-MAIN AIR 7272TG1L/R HI VOLT	W6DR3FMCC	09MC04T337	110A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSMA-7	CONTACTOR-MAIN AIR 7272TG1L/R HI VOLT	W6DR3FMCE	09MC04T337	110A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSV	CONTACTOR-COMBUSTION AIR INVERTER	W6DR3FMCB	09MC08B337	12A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSVs	CONTACTOR-BASKET INVERTER-6458TG1L/R	W6DR3FMCC	09MC08C337	16A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSVs	CONTACTOR-BASKET INVERTER-7272TG1L/R	W6DR3FMCC	09MC08C337	16A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSVs	CONTACTOR-BASKET INVERTER-6458TG1L/R	W6DR3FMCE	09MC08C337	16A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSVs	CONTACTOR-BASKET INVERTER-7272TG1L/R	W6DR3FMCE	09MC08C337	16A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSVs	CONTACTOR-BASKET INVERTER	W6DR3FVP	09MR08C337	16A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
EB	>>BUZZER OR AUDIBLE SIGNAL				
EBSG	BUZZER-SIGNAL AUDIBLE	W6DR3FS+	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	PROCESSOR BX
ED	>>DISPLAY-ELECTRONIC				
EDM	DISPLAY-MICROPROCESSOR	W6DR3FD	08BSEVFD5V	BD:SER VFD 2LINE-19200B-TEST	PROCESSOR BX
EE	>>FIRE CONTROLLERS				
EEEE	CONTROLLER-FIRE	W6DR3FEA	09X150A3	FLAME SAFE CTL ASSY #MC120	FIRE CONTRL PL
EEEE	CONTROLLER-FIRE	W6DR3FEB	09X151	BURNER CTL-AUSTR.110/50 10SEC	FIRE CONTRL PL
EEEE	CONTROLLER-FIRE	W6DR3FED	09X151	BURNER CTL-AUSTR.110/50 10SEC	FIRE CONTRL PL
EEEE	CONTROLLER-FIRE	W6DR3FEE	09X151	BURNER CTL-AUSTR.110/50 10SEC	FIRE CONTRL PL
EEEE	CONTROLLER-FIRE	W6DR3FEF	09X151	BURNER CTL-AUSTR.110/50 10SEC	FIRE CONTRL PL
EF	>>FUSE OR FUSE HOLDER				
EF37	FUSE-120V CONTROL CIRCUIT	W6DR3FHV	09FF004AHG	FUSE BK/MDX 4 AMP 125V BUSS	HIGH VOLT BX
EL	>>LIGHT-PILOT OR INDICATOR				
ELBB	LIGHT-BURNER BOX PRESSURE	W6DR3FSF	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELCA	LIGHT-COMBUSTION AIR LOW	W6DR3FEEA	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF		WHERE TO FIND		MIL/NOR P/N	DESCRIPTION	LOCATION
	THIS COMPONENT		THIS COMPONENT				
ELCA	LIGHT-COMBUSTION AIR LOW		W6DR3FFEB		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELCA	LIGHT-COMBUSTION AIR LOW		W6DR3FFEF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELCA	LIGHT-COMBUSTION AIR LOW		W6DR3FSF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELCLO	LIGHT-FIRE CNTRLR LOCKED OUT		W6DR3FMCA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELDD	LIGHT-DISCHARGE DESIRED		W6DR3FS+		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DISC CHUTE
ELDDC	LIGHT-DISCHARGE DOOR CLOSED		W6DR3FEV		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELFET	LIGHT-FIRE EYE TRIPPED		W6DR3FMC		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELFET	LIGHT-FIRE EYE TRIPPED		W6DR3FMCB		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELFET	LIGHT-FIRE EYE TRIPPED		W6DR3FMCC		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELFET	LIGHT-FIRE EYE TRIPPED		W6DR3FMCD		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELFET	LIGHT-FIRE EYE TRIPPED		W6DR3FMCE		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGH	LIGHT-GAS PRESSURE HIGH		W6DR3FEEA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGH	LIGHT-GAS PRESSURE HIGH		W6DR3FFEB		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGH	LIGHT-GAS PRESSURE HIGH		W6DR3FFEF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGL	LIGHT-GAS PRESSURE LOW		W6DR3FSF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGL	LIGHT-GAS PRESSURE LOW		W6DR3FEEA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGL	LIGHT-GAS PRESSURE LOW		W6DR3FFEB		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGL	LIGHT-GAS PRESSURE LOW		W6DR3FFEF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGL	LIGHT-GAS PRESSURE LOW		W6DR3FSF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELL	FLASHER-SAFETY LIGHTS		W6DR3FSF		08FL007537	FLASHER 120V 1AMP 75FL/MIN	LOW VOLT BOX
ELLDC	LIGHT-LOAD DOOR CLOSED		W6DR3FEV		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELLDO	LIGHT-LOAD DOOR OPEN		W6DR3FEV		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMA	LIGHT-MAIN AIR LOW		W6DR3FEEA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMA	LIGHT-MAIN AIR LOW		W6DR3FFEB		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMA	LIGHT-MAIN AIR LOW		W6DR3FFEF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMA	LIGHT-MAIN AIR LOW		W6DR3FSF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMI	LIGHT-IGNITION ENABLED		W6DR3FFE		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMI	LIGHT-IGNITION ENABLED		W6DR3FEEA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMI	LIGHT-IGNITION ENABLED		W6DR3FFEB		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMI	LIGHT-IGNITION ENABLED		W6DR3FFEF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMI	LIGHT-IGNITION ENABLED		W6DR3FFEG		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMT	LIGHT-MAIN GAS ENABLED		W6DR3FFE		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMT	LIGHT-MAIN GAS ENABLED		W6DR3FEEA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX

COMPONENT PARTS LIST

W6DR3FPL/2010462N

COMPONENT NUMBER	FUNCTION OF		WHERE TO FIND		MIL/NOR P/N	DESCRIPTION	LOCATION
	THIS COMPONENT		THIS COMPONENT				
ELMT	LIGHT-MAIN GAS ENABLED		W6DR3FFEB		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMT	LIGHT-MAIN GAS ENABLED		W6DR3FFEF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMT	LIGHT-MAIN GAS ENABLED		W6DR3FFEG		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELPG	LIGHT-PILOT VALVE ENABLED		W6DR3FFE		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELPG	LIGHT-PILOT VALVE ENABLED		W6DR3FFEA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELPG	LIGHT-PILOT VALVE ENABLED		W6DR3FFEB		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELPG	LIGHT-PILOT VALVE ENABLED		W6DR3FFEF		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELPG	LIGHT-PILOT VALVE ENABLED		W6DR3FFEG		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELSF	LIGHT FLASHING SIGNAL		W6DR3FS+		09H025V37	REACON ROTARY 5.5"DIA AMBER	BELT BOX
ELSG	LIGHT-SIGNAL VISUAL		W6DR3FS+		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
EM	>>ELECTROMAGNET AND SOLENOID						
EMCF	FAN-INVERTER COOLING		W6DR3FVP		13AF100A37	FAN 92CFM115V60 NEWARK #90F6921	VARI SPD BOX
EMS	>>>EMERGENCY STOP SWITCHES						
EMSK	SOLENOID-SPRINKLER		W6DR3FMC		09K061D	SOLENOID 120V 60C #8940	SPRINKLER ASSY
EMSK	SOLENOID-SPRINKLER		W6DR3FMCA		09K061D	SOLENOID 120V 60C #8940	SPRINKLER ASSY
EMSK	SOLENOID-SPRINKLER		W6DR3FMCB		09K061D	SOLENOID 120V 60C #8940	SPRINKLER ASSY
EMSK	SOLENOID-SPRINKLER		W6DR3FMCC		09K061D	SOLENOID 120V 60C #8940	SPRINKLER ASSY
EMSK	SOLENOID-SPRINKLER		W6DR3FMCD		09K061D	SOLENOID 120V 60C #8940	SPRINKLER ASSY
EMSK	SOLENOID-SPRINKLER		W6DR3FMCE		09K061D	SOLENOID 120V 60C #8940	SPRINKLER ASSY
EMSL	SWITCH-EMERGENCY STOP LEFT		W6DR3FS+		09N505	SW ASSY EMER STOP	SIDE OF MACH LF
EMSR	SWITCH-EMERGENCY STOP RIGHT		W6DR3FS+		09N505	SW ASSY EMER STOP	SIDE OF MACH RT
ES	>>POWER SUPPLY-ELECTRONIC						
ESPS1	POWER SUPPLY-PROCESSOR BOX		W6DR3FTC		08PSS3401T	40 WATT POWER SUPPLY TESTED	PROCESSOR BX
ESPS2	POWER SUPPLY-MACHINE BOARDS		W6DR3FTC		08PSS3401T	40 WATT POWER SUPPLY TESTED	LOW VOLT BOX
ET	>>THERMAL OVERLOAD DEVICES						
ETBA	OVERLOAD-BASKET MOTOR		W6DR3FMTR		MESSAGE EW	SEE ETBA-1,-2,-3,-4 FOR PARTS	HIGH VOLT BX
ETBA	OVERLOAD-BASKET MOTOR		W6DR3FMTR		MESSAGE EW	SEE ETBA-1,-2,-3,-4 FOR PARTS	HIGH VOLT BX
ETBA-1	OVERLOAD-5840+5858HV BASKET MOTOR		W6DR3FMTR		09FTD0037T	MCS OL RELAY ADJ.RANGE 3.7-12	HIGH VOLT BX
ETBA-2	OVERLOAD-5858LV+5880,7272HV BSKT		W6DR3FMTR		09FTD0120T	MCS OL RELAY ADJ.RANGE 12-32	HIGH VOLT BX
ETBA-3	OVERLOAD-7272 LO VOLT BASKET MTR		W6DR3FMTR		09FTD0121T	MCS OL RELAY ADJ.RANGE 12-37	HIGH VOLT BX
ETBA-4	OVERLOAD-6458TG1L/R-ALL VOLTAGES		W6DR3FMCC		09FTD0037T	MCS OL RELAY ADJ.RANGE 3.7-12	HIGH VOLT BX
ETBA-4	OVERLOAD-6458TG1L/R-ALL VOLTAGES		W6DR3FMCE		09FTD0037T	MCS OL RELAY ADJ.RANGE 3.7-12	HIGH VOLT BX
ETBA-5	OVERLOAD-7272TG1L/R-ALL VOLTAGES		W6DR3FMCC		09FTD0037T	MCS OL RELAY ADJ.RANGE 3.7-12	HIGH VOLT BX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF		WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
	THIS COMPONENT	THIS COMPONENT	THIS COMPONENT	THIS COMPONENT			
ETBA-5	OVERLOAD-7272TG1L/R-ALL VOLTAGES	W6DR3FMCE	09FTD0037T	MCS OL RELAY ADJ.RANGE 3.7-12		HIGH VOLT BX	
ETCA	OVERLOAD-COMBUSTION AIR	W6DR3FMTR	MESSAGE EW	SEE ETCA-1, -2 OR -3 FOR PARTS		HIGH VOLT BX	
ETCA	O'LOAD-CMBSTN AIR 6458TG1L/R ALLVOLT	W6DR3FMTS	09FTD0010T	MCS OL RELAY ADJ.RANGE 1.0-2.9		HIGH VOLT BX	
ETCA-1	OVERLOAD-COMBUSTION AIR	W6DR3FMTR	09FTD0010T	MCS OL RELAY ADJ.RANGE 1.0-2.9		HIGH VOLT BX	
ETCA-2	OVERLOAD-COMBUSTION AIR 5880 LV	W6DR3FMTR	09FTD0016T	MCS OL RELAY ADJ.RANGE 1.6-5		HIGH VOLT BX	
ETCA-3	O'LOAD-CMBSTN AIR 6458TG1L/R ALLVOLT	W6DR3FMTR	09FTD0010T	MCS OL RELAY ADJ.RANGE 1.0-2.9		HIGH VOLT BX	
ETCA-4	O'LOAD-CMBSTN AIR 7272TG1L/R ALLVOLT	W6DR3FMTR	09FTD0010T	MCS OL RELAY ADJ.RANGE 1.0-2.9		HIGH VOLT BX	
ETDB (03-09)	OVERLOAD-DYNAMIC BRAKE	W6DR3FMCC	09F024A	OL RELAY 1P SZ1 SQD #9065-C01		HIGH VOLT BX	
ETDB (03-09)	OVERLOAD-DYNAMIC BRAKE	W6DR3FMCE	09F024A	OL RELAY 1P SZ1 SQD #9065-C01		HIGH VOLT BX	
ETDB (03-09)	OVERLOAD-DYNAMIC BRAKE	W6DR3FVP	09F024A	OL RELAY 1P SZ1 SQD #9065-C01		VARI SPEED BX	
ETDBM	OVERLOAD-DYNAMIC BRAKE	W6DR3FMTS	09F024A	OL RELAY 1P SZ1 SQD #9065-C01		HIGH VOLT BX	
ETMA	OVERLOAD-MAIN AIR	W6DR3FMTR	MESSAGE EW	SEE ETMA-1,-2,-3,-4,-5 FOR PARTS		HIGH VOLT BX	
ETMA	OVERLOAD-BLOWER MOTOR	W6DR3FMTS	09FTD0010T	MCS OL RELAY ADJ.RANGE 1.0-2.9		HIGH VOLT BX	
ETMA-1	OVERLOAD-5840&5858HV MAIN AIR	W6DR3FMTR	09FTD0120T	MCS OL RELAY ADJ.RANGE 12-32		HIGH VOLT BX	
ETMA-2	OVERLOAD-5840&5858LV MAIN AIR	W6DR3FMTR	09FTD0230T	MCS OL RELAY ADJ.RANGE 23-75		HIGH VOLT BX	
ETMA-3	OVERLOAD-58580 & 7272 MAIN AIR	W6DR3FMTR	09FTD0230T	MCS OL RELAY ADJ.RANGE 23-75		HIGH VOLT BX	
ETMA-4	OVERLOAD-6458TG1-LOW VOLTAGE	W6DR3FMTR	09FTC0570T	OL RELAY 57-180A AB #193-A3M5		HIGH VOLT BX	
ETMA-5	OVERLOAD-6458TG1-HIGH VOLTAGE	W6DR3FMTR	09FTC0231T	OL RELAY 23-75A AB #193-A3K4		HIGH VOLT BX	
EX	>>TRANSFORMERS						
EX37	TRANSFORMER-INCOMING VOLT.120VAC	W6DR3FHV	MESSAGE EW	SEE EX37-1, -2, OR -3 FOR VOLTAGE		HIGH VOLT BX	
EX37-1	TRANSFORMER-208/240>120VAC	W6DR3FHV	09U249AA37	XFMR 200-240V PRI/120VSEC/250VA		HIGH VOLT BX	
EX37-2	TRANSFORMER-380/480>120VAC	W6DR3FHV	09U200AAB	XFMR 380-480V/240-120V-250VA		HIGH VOLT BX	
EX37-3	TRANSFORMER-600->120VAC	W6DR3FHV	09U251AA37	XFMR 600VPRI/120VSEC/250VA		HIGH VOLT BX	
KB	>>KEYBOARD-ELECTRONIC						
KBM	KEYPAD-MICROPROCESSOR	W6DR3FKP	08ND5X6DR	KEYPAD:5X6MATRIX DRYER		PROCESSOR BX	
MR	>>MOTORS						
MRBA	MOTOR-BASKET ROTATION	W6DR3FMCC	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE		MACHINE BASE	
MRBA	MOTOR-BASKET ROTATION	W6DR3FMCE	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE		MACHINE BASE	
MRBA	MOTOR-BASKET ROTATION	W6DR3FMTR	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE		MACHINE BASE	
MRBA	MOTOR-BASKET ROTATION	W6DR3FVP	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE		MACHINE BASE	
MRCA	MOTOR-COMBUSTION AIR	W6DR3FMTR	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE		MACHINE BASE	
MRCA	MOTOR-COMBUSTION AIR	W6DR3FMTS	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE		MACHINE TOP	
MRMA	MOTOR-MAIN AIR	W6DR3FMTR	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE		MACHINE TOP	

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
MRMA	MOTOR-MAIN AIR	W6DR3FMFS	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	MACHINE TOP
MV	>>INVERTERS AND RELATED PARTS				
MTVMA	FAN-INVERTER COOLING MAIN AIR	W6DR3FMCE	13AF100A37	FAN 92CFM115V60 NEWARK #90F6921	MAIN AIR INV BX
MVBA	INVERTER-BASKET SPEED	W6DR3FMCC	MESSAGE EW	SEE MVBA-H/L	HIGH VOLT BX
MVBA	INVERTER-BASKET SPEEDS	W6DR3FMCE	MESSAGE EW	SEE MVBA-H/L	HIGH VOLT BX
MVBA-H	INVERTER-BASKET SPD HIGH VOLT	W6DR3FMCC	09MWB00596	V1000 INVERTER 5.5AMP 460V	HIGH VOLT BX
MVBA-L	INVERTER-BASKET SPD LOW VOLT	W6DR3FMCC	09MWB01174	V1000 INVERTER 11AMP 230V	HIGH VOLT BX
MVBM	MODULE-BRAKING	W6DR3FMCE	09MVB0T25HC	BRAKE MODULE-OPEN CHASSIS	HIGH VOLT BX
MVBR	RESISTOR-BRAKING	W6DR3FMCE	09MV050REV	RESISTOR 50OHM 225W #FVT200-50	HIGH VOLT BX
MVMA	INVERTER-BLOWER MOTOR	W6DR3FMFS	09MWA05874	F7 INVERTER 58AMP	BLOWER INV BX
MVRMA	REACTOR-BLOWER MOTOR	W6DR3FMFS	09MX300A74	REACTOR 25/30HP 230V 80A	BLOWER INV BX
MVRT	INVERTER-INLINE REACTOR	W6DR3FMCC	09MX050A96	REACTOR 5HP 460V 8A	HIGH VOLT BX
MVRT	INVERTER-INLINE REACTOR	W6DR3FMCE	09MX050A96	REACTOR 5HP 460V 8A	HIGH VOLT BX
PX	>>PROXIMITY SWITCH				
PXCA	PROX SWITCH-COMBUTION AIR DAMPR CLS	W6DR3FFEE	09RPS18AAU	PRXSW QK CONN 18MM NO-AC UNSHLD	RT FRONT BASE
PXDOC	PROX SWITCH-DISC DR CLSD (64& 72 ONLY)	W6DR3FEV	09RPS30CAS	PRXSW QK CONN 30MM NO-DC SHLD	LD DOOR ASSY
PXLDC	PROX SWITCH-LOAD DOOR CLOSED (50+58)	W6DR3FI1	09RPS30ADS	PRXSW QK CONN 30MM NO-DC SHLD	LD DOOR ASSY
PXLDC	PROX SWITCH-LOAD DOOR CLOSED (64+72)	W6DR3FI1	09RPS18ADS	PRXSW QK CONN 18M NO-DC SHLD	LD DOOR ASSY
PXLDC	PROX SWITCH-LOAD DOOR CLOSED (50+58)	W6DR3FI3	09RPS30ADS	PRXSW QK CONN 30MM NO-DC SHLD	LD DOOR ASSY
PXLDC	PROX SWITCH-LOAD DOOR CLOSED (64+72)	W6DR3FI3	09RPS18ADS	PRXSW QK CONN 18M NO-DC SHLD	LD DOOR ASSY
PXLDO	PROX SWITCH-LOAD DOOR OPEN	W6DR3FI1	09RPS30ADS	PRXSW QK CONN 30MM NO-DC SHLD	LD DOOR ASSY
PXLDO	PROX SWITCH-LOAD DOOR OPEN	W6DR3FI3	09RPS30ADS	PRXSW QK CONN 30MM NO-DC SHLD	LD DOOR ASSY
PXRS	PROX SWITCH-ROTATIONAL SAFETY	W6DR3FGM	09RPS18ADS	PRXSW QK CONN 18MM NO-DC SHLD	LEFT REAR
PXRS	PROX SWITCH-ROTATIONAL SAFETY	W6DR3FGMA	09RPS18ADS	PRXSW QK CONN 18MM NO-DC SHLD	LEFT REAR
PXRS	PROX SWITCH-ROTATIONAL SAFETY	W6DR3FGMB	09RPS18ADS	PRXSW QK CONN 18MM NO-DC SHLD	LEFT REAR
PXRS	PROX SWITCH-ROTATIONAL SAFETY	W6DR3FGMD	09RPS18ADS	PRXSW QK CONN 18MM NO-DC SHLD	LEFT REAR
QR	>>IGNITION DETECTOR				
QRE1	DECTECTOR-IGNITION	W6DR3FFEA	09X150BAGA	COIL IGNITION DETECT.AUSTR.	FIRE BOX
QRE1	DECTECTOR-IGNITION	W6DR3FFEB	09X150BAGA	COIL IGNITION DETECT.AUSTR.	FIRE BOX
QRE1	DECTECTOR-IGNITION	W6DR3FFED	09X150BAGA	COIL IGNITION DETECT.AUSTR.	FIRE BOX
QRE1	DECTECTOR-IGNITION	W6DR3FFEE	09X150BAGA	COIL IGNITION DETECT.AUSTR.	FIRE BOX
QRE1	DECTECTOR-IGNITION	W6DR3FFEF	09X150BAGA	COIL IGNITION DETECT.AUSTR.	FIRE BOX
SH	>>SWITCH-HAND OPERATED				

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND</u>		<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
		<u>THIS COMPONENT</u>	<u>THIS COMPONENT</u>			
SHAD	SWITCH-DISCHARGE ALLOWED	W6DR3FI1		MESSAGE EW	THESE PARTS SUPPLIED BY CUSTOMER	BY CUSTOMER
SHAD	SWITCH-DISCHARGE ALLOWED	W6DR3FI3		MESSAGE EW	THESE PARTS SUPPLIED BY CUSTOMER	BY CUSTOMER
SHBC	SWITCH-NORMAL/LITTLE LOAD	W6DR3FIA		09N405M210	SWASS M2W 1NO	ALLIED INF BX
SHCR	SWITCH-CONTROLLER RESET	W6DR3FFEA		09N405PB10	SWASS PBBK 1NO	LF LOAD END
SHCR	SWITCH-CONTROLLER RESET	W6DR3FFEB		09N405PB10	SWASS PBBK 1NO	LF LOAD END
SHCR	SWITCH-CONTROLLER RESET	W6DR3FFED		09N405PB10	SWASS PBBK 1NO	LF LOAD END
SHCR	SWITCH-CONTROLLER RESET	W6DR3FFEE		09N405PB10	SWASS PBBK 1NO	LF LOAD END
SHCR	SWITCH-CONTROLLER RESET	W6DR3FFEF		09N405PB10	SWASS PBBK 1NO	LF LOAD END
SHDD	SWITCH-DISCHARGE DESIRED	W6DR3FI1		09N405S211	SWASS S2W 1NO+1NC	RT DISC SIDE
SHDD	SWITCH-DISCHARGE DESIRED	W6DR3FI3		09N405S211	SWASS S2W 1NO+1NC	RT DISC SIDE
SHDH	SWITCH-DRYER IS LOADING	W6DR3FI1		09N405PB10	SWASS PBBK 1NO	RT LOAD SIDE
SHDH	SWITCH-DRYER IS LOADING	W6DR3FI3		09N405PB10	SWASS PBBK 1NO	RT LOAD SIDE
SHDL	SWITCH-DRYER IS LOADED	W6DR3FI1		09N405PB10	SWASS PBBK 1NO	RT LOAD SIDE
SHDL	SWITCH-DRYER IS LOADED	W6DR3FI3		09N405PB10	SWASS PBBK 1NO	RT LOAD SIDE
SHDT	SWITCH-DRYER ALLOWED TO LOAD	W6DR3FI1		09N405M211	SWASS M2W 1NO+1NC	PROCESSOR BX
SHDT	SWITCH-DRYER ALLOWED TO LOAD	W6DR3FI3		09N405M211	SWASS M2W 1NO+1NC	PROCESSOR BX
SHFS	SWITCH-FORMULA SELECTOR	W6DR3FIA		09N041N	ROTSW 5-POLE 8-POSIT 5A125V	ALLIED INF BX
SHLDO	SWITCH-LOAD DOOR OPEN	W6DR3FI1		09N405M210	SWASS M2W 1NO	LF LOAD SIDE
SHLDO	SWITCH-LOAD DOOR OPEN	W6DR3FI3		09N405M210	SWASS M2W 1NO	LF LOAD SIDE
SHM	SWITCH-MANUAL / AUTOMATIC	W6DR3FI1		09N405M211	SWASS M2W 1NO+1NC	RT DISC SIDE
SHM	SWITCH-MANUAL / AUTOMATIC	W6DR3FI3		09N405M211	SWASS M2W 1NO+1NC	RT DISC SIDE
SHMD	SWITCH-LOCAL / REMOTE (MILDATA)	W6DR3FI2		09N405M210	SWASS M2W 1NO	LOW VOLT BOX
SHNC	SWITCH-NEW CUSTOMER	W6DR3FIA		09N405M210	SWASS M2W 1NO	ALLIED INF BX
SHRB	SWITCH-PENDENT BASKET ROTATE	W6DR3FI2		09M002BUTN	2BTM PENDANT STA.1-SP 2NO MON	LOAD/DISC DOOR
SHS+	SWITCH-START 3-WIRE	W6DR3FS+		09N405PG10	SWASS PBGN 1NO	PROCESSOR BX
SHSFR	SWITCH-RANGE SELECT	W6DR3FIA		09N405M210	SWASS M2W 1NO	ALLIED INF BX
SHSG	SWITCH-SIGNAL CANCEL	W6DR3FI1		09N405PB10	SWASS PBBK 1NO	PROCESSOR BX
SHSG	SWITCH-SIGNAL CANCEL	W6DR3FI3		09N405PB10	SWASS PBBK 1NO	PROCESSOR BX
SHSK	SWITCH-SPRINKLER	W6DR3FS+		09RM01209S	CAPSW 9FT 180DEG ROLLER SILVER	SPRINKLER ASSY
SHSMA	SWITCH-MASTER	W6DR3FHV		09N405M210	SWASS M2W 1NO	PROCESSOR BX
SHSO	SWITCH-STOP	W6DR3FS+		09N405PR01	SWASS PBRD 1NC	PROCESSOR BX
SHWJ	SWITCH-JOG	W6DR3FI1		09N405S211	SWASS S2W 1NO+1NC	RT DISC SIDE
SHWJ	SWITCH-JOG	W6DR3FI3		09N405S211	SWASS S2W 1NO+1NC	RT DISC SIDE

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF</u>		<u>WHERE TO FIND</u>		<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
	<u>THIS COMPONENT</u>		<u>THIS COMPONENT</u>				
SPGH	SWITCH-GAS HI PRESSURE	EXCEPT 64 DRYE	W6DR3FFEA		09N19106A	GAS PRESS. SW. RANGE 1-20	RT FRNT BASE
SPGH	SWITCH-GAS HI PRESSURE	6458 DRYER	W6DR3FFEA		96SD026	GW50A2W/2.5-50MBAR GASPRESWITC	GAS PIPING
SPGH	SWITCH-GAS HI PRESSURE	EXCEPT 64 DRYE	W6DR3FFEB		09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH	SWITCH-GAS HI PRESSURE	6458 DRYER	W6DR3FFEB		96SD026	GW50A2W/2.5-50MBAR GASPRESWITC	GAS PIPING
SPGH	SWITCH-GAS HIGH PRESSURE		W6DR3FFED		09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH	SWITCH-GAS HI PRESSURE	EXCEPT 64 DRYE	W6DR3FFEE		09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH	SWITCH-GAS HI PRESS	6458 & 7272 DRYER	W6DR3FFEE		96SD026	GW50A2W/2.5-50MBAR GASPRESWITC	GAS PIPING
SPGH	SWITCH-GAS HI PRESS	EXCEPT 64 & 72 DRYE	W6DR3FFEF		09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH	SWITCH-GAS HI PRESS	6458 & 7272 DRYER	W6DR3FFEF		96SD026	GW50A2W/2.5-50MBAR GASPRESWITC	GAS PIPING
SPGH	SWITCH-GAS HI PRESS	EXCEPT 64 & 72 DRYE	W6DR3FFEF		09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH	SWITCH-GAS HI PRESS	EXCEPT 64 & 72 DRYE	W6DR3FSF		96SD015	GAO-A2-4-5 HI&LO GASPRESSSWITC	GAS PIPING
SPGH before 2/01	SWITCH-GAS PRESSURE	HIGH	W6DR3FFEA		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH before 2/01	SWITCH-GAS PRESSURE	HIGH	W6DR3FFEB		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH before 2/01	SWITCH-GAS PRESSURE	HIGH	W6DR3FFED		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH before 2/01	SWITCH-GAS PRESSURE	HIGH	W6DR3FFEE		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH before 2/01	SWITCH-GAS PRESSURE	HIGH	W6DR3FFEF		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH before 2/01	SWITCH-GAS PRESSURE	HIGH	W6DR3FSF		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGL	SWITCH-GAS LO PRESS	EXCEPT 64 & 72 DRY	W6DR3FFEA		09N19106A	GAS PRESS. SW. RANGE 1-20	RT FRNT BASE
SPGL	SWITCH-GAS LO PRESS	6458 & 7272 DRYER	W6DR3FFEA		96SD026	GW50A2W/2.5-50MBAR GASPRESWITC	GAS PIPING
SPGL	SWITCH-GAS LO PRESS	EXCEPT 64 & 72 DRY	W6DR3FFEB		09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGL	SWITCH-GAS LO PRESS	6458 & 7272 DRYER	W6DR3FFEB		96SD026	GW50A2W/2.5-50MBAR GASPRESWITC	GAS PIPING
SPGL	SWITCH-GAS LOW PRESSURE		W6DR3FFED		09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGL	SWITCH-GAS LO PRESS	EXCEPT 64 & 72 DRY	W6DR3FFEE		09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGL	SWITCH-GAS LO PRESS	6458 & 7272 DRYR	W6DR3FFEE		96SD026	GW50A2W/2.5-50MBAR GASPRESWITC	GAS PIPING
SPGL	SWITCH-GAS LO PRESS	EXCEPT 64 & 72 DRY	W6DR3FFEF		09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGL	SWITCH-GAS LO PRESS	6458 & 7272 DRYER	W6DR3FFEF		96SD026	GW50A2W/2.5-50MBAR GASPRESWITC	GAS PIPING
SPGL	SWITCH-GAS LO PRESS	EXCEPT 64 & 72 DRY	W6DR3FSF		09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGL before 2/01	SWITCH-GAS LOW PRESSURE		W6DR3FFED		96SD015	GAO-A2-4-5 HI&LO GASPRESSSWITC	GAS PIPING
SPGL before 2/01	SWITCH-GAS PRESSURE	LOW	W6DR3FFEA		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGL before 2/01	SWITCH-GAS PRESSURE	LOW	W6DR3FFEB		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGL before 2/01	SWITCH-GAS PRESSURE	LOW	W6DR3FFED		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGL before 2/01	SWITCH-GAS PRESSURE	LOW	W6DR3FFEE		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGL before 2/01	SWITCH-GAS PRESSURE	LOW	W6DR3FFEF		09N19104	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT	THIS COMPONENT			
SPGL before 2/01	SWITCH-GAS PRESSURE LOW	W6DR3FSF		09N19104	GAS PRESSW .2.0-20"WC #1996-20	RT FRNT BASE
SPHD	SWITCH-BACK PRESSURE OUTLET	W6DR3FI2		09N19106B	GAS PRESS SW RANGE .2-2.4"WC	OUTLET DUCT
SPHD	SWITCH-BACK PRESSURE (ALL SIZES)	W6DR3FI2		09N19106B	GAS PRESS SW RANGE .2-2.4"WC	OUTLET DUCT
SPMA	SWITCH-MAIN AIR-ALL SIZES	W6DR3FFEA		09N19106B	GAS PRESS SW RANGE .2-2.4"WC	FIRE CONT PL
SPMA	SWITCH-MAIN AIR-ALL SIZES	W6DR3FFEB		09N19106B	GAS PRESS SW RANGE .2-2.4"WC	FIRE CONT PL
SPMA	SWITCH-MAIN AIR 7272 ONLY	W6DR3FFED		09N19106B	GAS PRESS SW RANGE .2-2.4"WC	FIRE CONT PL
SPMA	SWITCH-MAIN AIR-ALL SIZES	W6DR3FFEE		09N19106B	GAS PRESS SW RANGE .2-2.4"WC	FIRE CONT PL
SPMA	SWITCH-MAIN AIR-ALL SIZES	W6DR3FFEF		09N19106B	GAS PRESS SW RANGE .2-2.4"WC	FIRE CONT PL
SPMA	SWITCH-MAIN AIR-ALL SIZES	W6DR3FSF		09N19106B	GAS PRESS SW RANGE .2-2.4"WC	FIRE CONT PL
SPMA before 2/01	SWITCH-MAIN AIR	W6DR3FFEA		09N19103	AIR PRESSW .40"-1.6" WC 1910-1	FIRE CONT PL
SPMA before 2/01	SWITCH-MAIN AIR	W6DR3FFEB		09N19103	AIR PRESSW .40"-1.6" WC 1910-1	FIRE CONT PL
SPMA before 2/01	SWITCH-MAIN AIR	W6DR3FFED		09N19103	AIR PRESSW .40"-1.6" WC 1910-1	FIRE CONT PL
SPMA before 2/01	SWITCH-MAIN AIR	W6DR3FFEE		09N19103	AIR PRESSW .40"-1.6" WC 1910-1	FIRE CONT PL
SPMA before 2/01	SWITCH-MAIN AIR	W6DR3FFEF		09N19103	AIR PRESSW .40"-1.6" WC 1910-1	FIRE CONT PL
SPMA before 2/01	SWITCH-MAIN AIR	W6DR3FSF		09N19103	AIR PRESSW .40"-1.6" WC 1910-1	FIRE CONT PL
ST	>>SWITCH-TEMPERATURE					
ST225-1	SWITCH-INLET TEMP.SAFETY PROBE	W6DR3FMCC		30RA225T	THERMOSTAT CLOSURES AT 225-DEG F	OUTLET DUCT
ST225-1	SWITCH-INLET TEMP.SAFETY PROBE	W6DR3FMCE		30RA225T	THERMOSTAT CLOSURES AT 225-DEG F	OUTLET DUCT
ST225-2	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMC		30R0225P	THERMOSW.FENWAL CLOSE @ 225F	OUTLET DUCT
ST225-2	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCA		30R0225P	THERMOSW.FENWAL CLOSE @ 225F	OUTLET DUCT
ST225-2	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCC		30R0225P	THERMOSW.FENWAL CLOSE @ 225F	BLOWER HOUSING
ST225-2	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCD		30R0225P	THERMOSW.FENWAL CLOSE @ 225F	OUTLET DUCT
ST225-2	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCE		30R0225P	THERMOSW.FENWAL CLOSE @ 225F	BLOWER HOUSING
ST225-5	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCB		30R0225P	THERMOSW.FENWAL CLOSE @ 225F	OUTLET DUCT
ST240-1	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMC		30R0240P	THERMOSW.FENWAL CLOSE @ 240F	OUTLET DUCT
ST240-1	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCA		30R0240P	THERMOSW.FENWAL CLOSE @ 240F	MACHINE TOP
ST240-1	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCB		30R0240P	THERMOSW.FENWAL CLOSE @ 240F	MACHINE TOP
ST240-1	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCD		30R0240P	THERMOSW.FENWAL CLOSE @ 240F	OUTLET DUCT
ST240-3	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMC		30R0240P	THERMOSW.FENWAL CLOSE @ 240F	OUTLET DUCT
ST240-3	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCA		30R0240P	THERMOSW.FENWAL CLOSE @ 240F	MACHINE TOP
ST240-3	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCB		30R0240P	THERMOSW.FENWAL CLOSE @ 240F	MACHINE TOP
ST240-3	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCD		30R0240P	THERMOSW.FENWAL CLOSE @ 240F	OUTLET DUCT
ST240-3	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FMCE		30R0240P	THERMOSW.FENWAL CLOSE @ 240F	MACHINE TOP

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF		WHERE TO FIND		MIL NOR P/N	DESCRIPTION	LOCATION
	THIS COMPONENT		THIS COMPONENT				
ST550A	SWITCH-INLET TEMP SAFETY PROBE #1		W6DR3FFEA		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550A	SWITCH-INLET TEMP SAFETY PROBE #1		W6DR3FFEB		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550A	SWITCH-INLET TEMP SAFETY PROBE #1		W6DR3FFED		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550A	SWITCH-INLET TEMP SAFETY PROBE #1		W6DR3FFEE		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550A	SWITCH-INLET TEMP SAFETY PROBE #1		W6DR3FFEF		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550A	SWITCH-INLET TEMP SAFETY PROBE #1		W6DR3FSF		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550B	SWITCH-INLET TEMP SAFETY PROBE #2		W6DR3FFEA		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550B	SWITCH-INLET TEMP SAFETY PROBE #2		W6DR3FFEB		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550B	SWITCH-INLET TEMP SAFETY PROBE #2		W6DR3FFED		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550B	SWITCH-INLET TEMP SAFETY PROBE #2		W6DR3FFEE		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550B	SWITCH-INLET TEMP SAFETY PROBE #2		W6DR3FFEF		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550B	SWITCH-INLET TEMP SAFETY PROBE #2		W6DR3FSF		30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
STBB	SWITCH-BURNER BOX THERMOSTAT		W6DR3FSF		30RA175T	THERMOSTAT OPENS AT 175F	BURNER BOX
STDB	SWITCH-DYNAMIC BRAKE THERMOSTAT		W6DR3FS+		30RA175T	THERMOSTAT OPENS AT 175F	HIGH VOLT BX
T	>>>THERMOCOUPLES						
T2	THERMOCOUPLE INLET TEMPERATURE PROBW6DR3FTC				30R0045P	DRYER T/C PROBE 24" W/BUSHING	LOWER HOUSE
T3	THERMOCOUPLE OUTLET TEMP. PROBE		W6DR3FTC		30R0055P	TEMP PRBE 6X1/4"TYPE J T/C LDS	BLOWER HOUSING
VE	>>VALVE-ELECTRIC OPERATED						
VECDC	VALVE-COOLDOWN DAMPER CLOSED		W6DR3FTV		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VECDO	VALVE-COOLDOWN DAMPER OPEN		W6DR3FTV		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VED1	VALVE-DAMPER #1 SHORT STROKE		W6DR3FEV		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VED2	VALVE-DAMPER #2 LONG STROKE		W6DR3FEV		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEDDC	VALVE-DISCHARGE DOOR CLOSED		W6DR3FEV		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEDDO	VALVE-DISCHARGE DOOR OPEN		W6DR3FEV		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEL1	VALVE-LINT REMOVAL FROM FAN		W6DR3FEV		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VELA	VALVE-CLS CYLINDER DAMPERS		W6DR3FLS		96R302B37	1/8" AIRPILOT 3W NO 120V50/60	AIR VALVE BX
VELB	VALVE-CLS LOWER AND FIRE BX DAMPR		W6DR3FLS		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VELC	VALVE-OPEN CYL AND OUT/UP DAMPERS		W6DR3FLS		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VELD	VALVE-OPEN LOWER DAMPERS		W6DR3FLS		96R302B37	1/8" AIRPILOT 3W NO 120V50/60	AIR VALVE BX
VELDA	VALVE-LOWER DRYER HOME TARGET		W6DR3FEV		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VELDC	VALVE-LOAD DOOR CLOSED		W6DR3FEV		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VELDO	VALVE-LOAD DOOR OPEN		W6DR3FEV		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VELS	VALVE-LINT STRIPPER		W6DR3FLS		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	NEAR VLV SET

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>		<u>WHERE TO FIND THIS COMPONENT</u>		<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
	THIS COMPONENT		THIS COMPONENT				
VEMG	VALVE-GAS VALVE	ACTUATOR ON-OFF	W6DR3FFE		96S1501	ACTUATOR ON-OFF #V4055D1043	GAS TRAIN
VEMG	VALVE-GAS VALVE	ACTUATOR ON-OFF	W6DR3FFE		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEMG	VALVE-GAS VALVE	ACTUATOR ON-OFF	W6DR3FFEB		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEMG	VALVE-GAS VALVE	ACTUATOR ON-OFF	W6DR3FFED		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEMG	VALVE-GAS VALVE	ACTUATOR ON-OFF	W6DR3FFEE		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEMG	VALVE-GAS VALVE	ACTUATOR ON-OFF	W6DR3FFEF		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEMG	VALVE-GAS VALVE	ACTUATOR ON-OFF	W6DR3FFEG		96S1501	ACTUATOR ON-OFF #V4055D1043	GAS TRAIN
VEMI	TRANSFORMER-IGNITION		W6DR3FFE		09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PL
VEMI	TRANSFORMER-IGNITION		W6DR3FFE		09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PL
VEMI	TRANSFORMER-IGNITION		W6DR3FFEB		09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PL
VEMI	TRANSFORMER-IGNITION		W6DR3FFED		09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PL
VEMI	TRANSFORMER-IGNITION		W6DR3FFEE		09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PL
VEMI	TRANSFORMER-IGNITION		W6DR3FFEF		09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PL
VEMI	TRANSFORMER-IGNITION		W6DR3FFEG		09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PL
VEMMG	VLV-MODL GAS VLV 50.58,(72 before 2/04)		W6DR3FGM		96S1500A	ACTUATOR MODULATE #V9055A1055 + TAG	GAS TRAIN
VEMMG	VALVE-MODUL GAS VLV 5040, 6458 & 7272TG1W6DR3FGM		W6DR3FGM		96SD018	DMA 12B120 ACTUATR 12 SEC TIME	GAS TRAIN
VEMMG	VALVE-MODUL GAS VLV 50.58,72		W6DR3FGMA		96S1500A	ACTUATOR MODULATE #V9055A1055 + TAG	GAS TRAIN
VEMMG	VALVE-MODUL GAS VLV 6458 & 7272TG1L/R		W6DR3FGMA		96SD018	DMA 12B120 ACTUATR 12 SEC TIME	GAS TRAIN
VEMMG	VALVE-MODUL GAS VLV 6458 & 7272TG1L/R		W6DR3FGMA		96SD018	DMA 12B120 ACTUATR 12 SEC TIME	GAS TRAIN
VEMMG	VALVE-MODULATING GAS VALVE		W6DR3FGMB		96S1500A	ACTUATOR MODULATE #V9055A1055 + TAG	GAS TRAIN
VEMMG	VALVE-MODULATING GAS VALVE		W6DR3FGMD		96S1500A	ACTUATOR MODULATE #V9055A1055 + TAG	GAS TRAIN
VEMTR	VALVE-ACTUATOR THERMAL OIL		W6DR3FTV		96S2001A	MOTOR 90DEG 30SEC 24V50/60	INLET PIPING
VENDD	VALVE-NO DRY DESTINATION		W6DR3FEV		96R301A37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VENT	VALVE-VENT		W6DR3FFE		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VENT	VALVE-VENT		W6DR3FFEB		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VENT	VALVE-VENT		W6DR3FFED		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VENT	VALVE-VENT		W6DR3FFEE		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VENT	VALVE-VENT		W6DR3FFEF		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG	VALVE-PILOT VALVE ENABLED		W6DR3FFE		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG	VALVE-PILOT VALVE ENABLED		W6DR3FFEG		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG1	VALVE-PILOT GAS VALVE #1		W6DR3FFEA		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG1	VALVE-PILOT GAS VALVE #1		W6DR3FFEB		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG1	VALVE-PILOT GAS VALVE #1		W6DR3FFED		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND</u>		<u>MIL NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
		<u>THIS COMPONENT</u>				
VEPG1	VALVE-PILOT GAS VALVE #1	W6DR3FFEE		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG1	VALVE-PILOT GAS VALVE #1	W6DR3FFEF		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG2	VALVE-PILOT GAS VALVE #2	W6DR3FFEA		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG2	VALVE-PILOT GAS VALVE #2	W6DR3FFEB		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG2	VALVE-PILOT GAS VALVE #2	W6DR3FFED		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG2	VALVE-PILOT GAS VALVE #2	W6DR3FFEE		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG2	VALVE-PILOT GAS VALVE #2	W6DR3FFEF		96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VER	VALVE-RECIRCULATION DAMPER	W6DR3FEV		96R301A37	1/8" PILOT 3W-NC 120V50/60	AIR VALVE BX
VERC	VALVE-RECIRCULATION DAMPER	W6DR3FEV		96R301A37	1/8" PILOT 3W-NO 120V50/60	AIR VALVE BX

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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, FOB our factory. 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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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: 20100528 / 20100528 / 20100528 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.

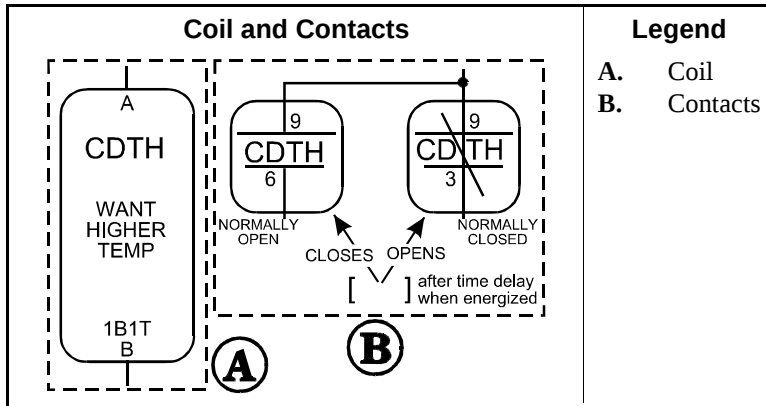
CB=Circuit Breaker (Figure 1)—Automatic switch that opens an electric circuit in abnormal current conditions (e.g., an overload).

Figure 1: Circuit Breaker (CB)



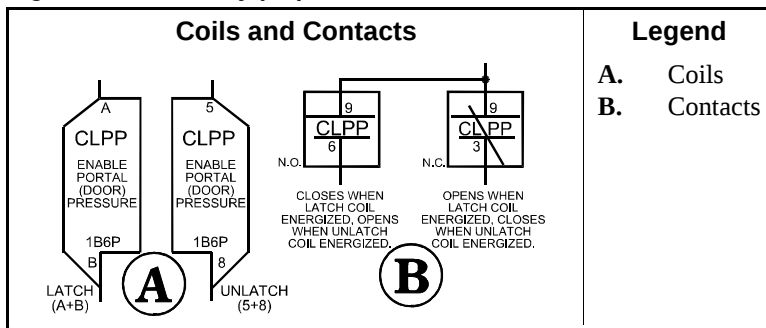
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



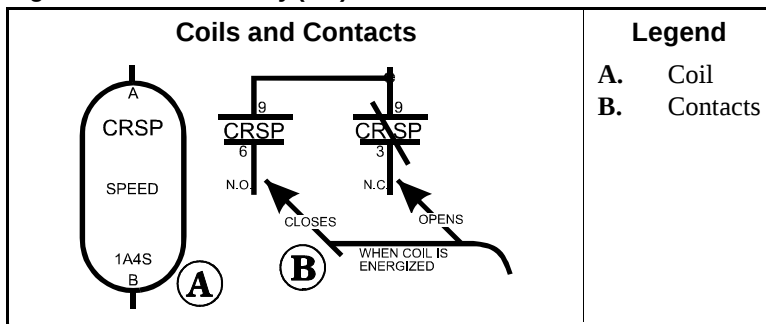
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



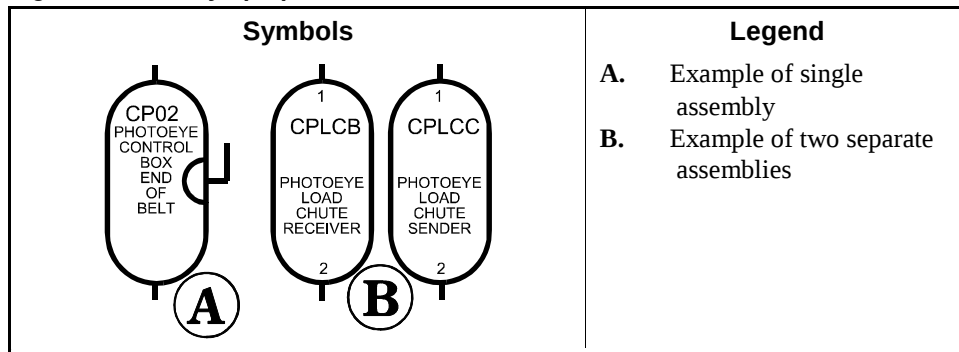
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



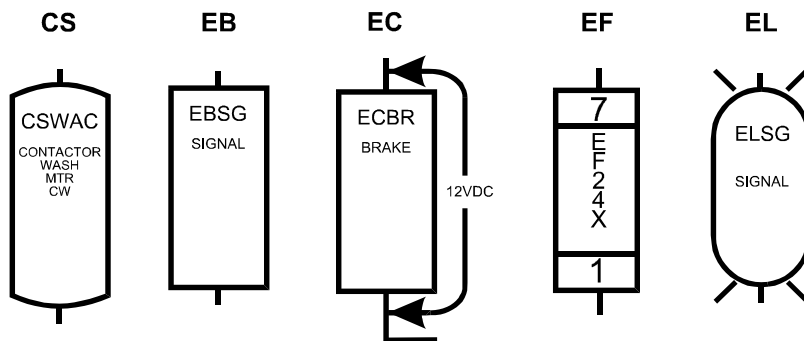
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these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

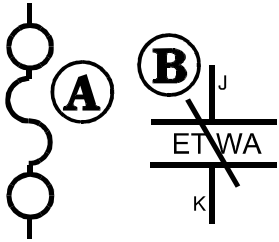
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

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.

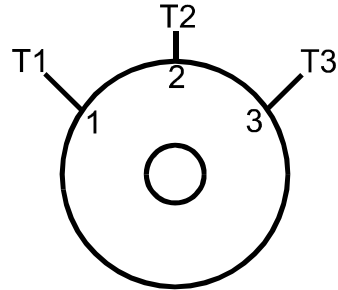
MN=Electronic Monitor (CRT)—A cathode ray tube used for visual presentation of data.

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

Figure 8: Transformer (EX)



Figure 9: Electric Motor (MR)

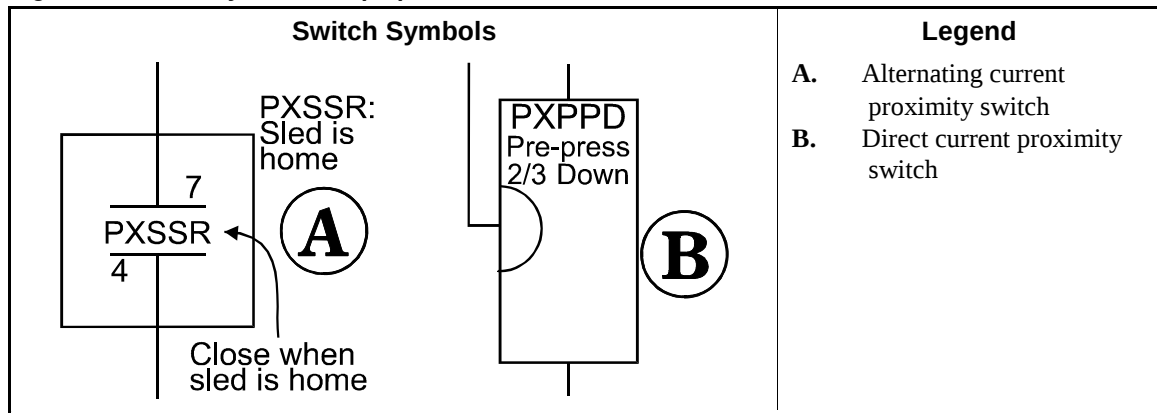


MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the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

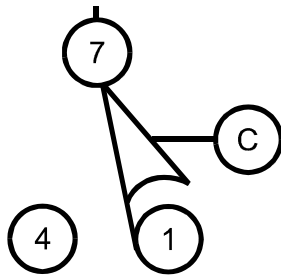
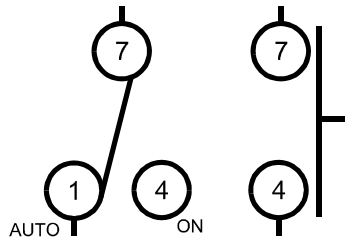


Figure 12: Hand Operated Switch (SH)



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)

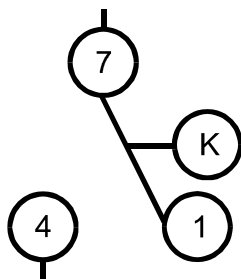
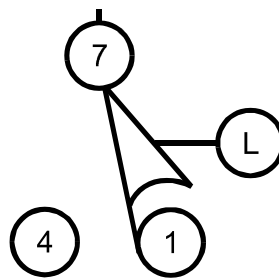


Figure 14: Level Switch (SL)



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)

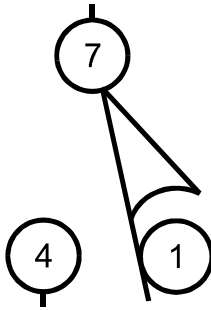
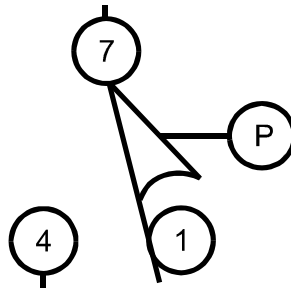


Figure 16: Pressure Switch (SP)



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)

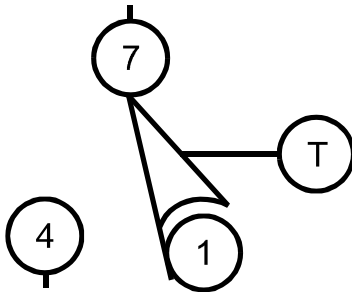
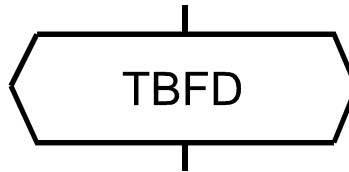
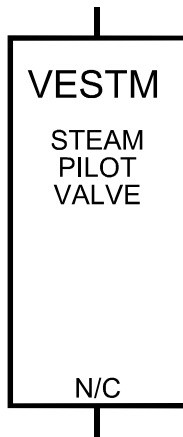


Figure 18: Terminal Board (TB)



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)

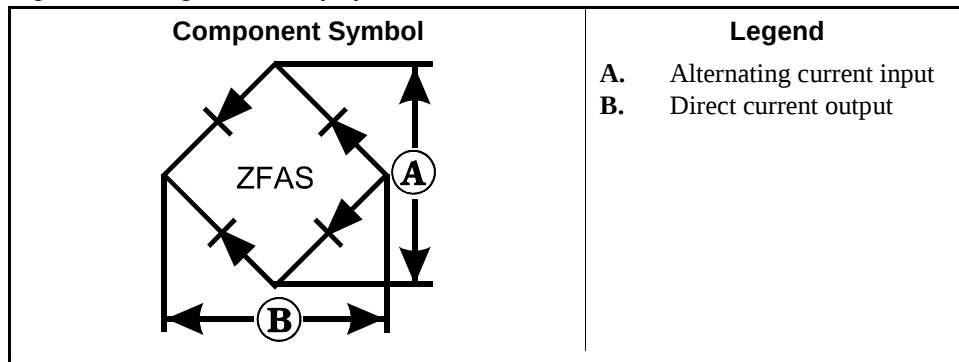
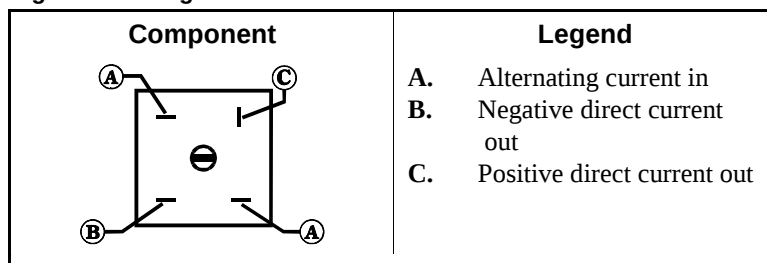


Figure 21: Bridge Rectifier



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.

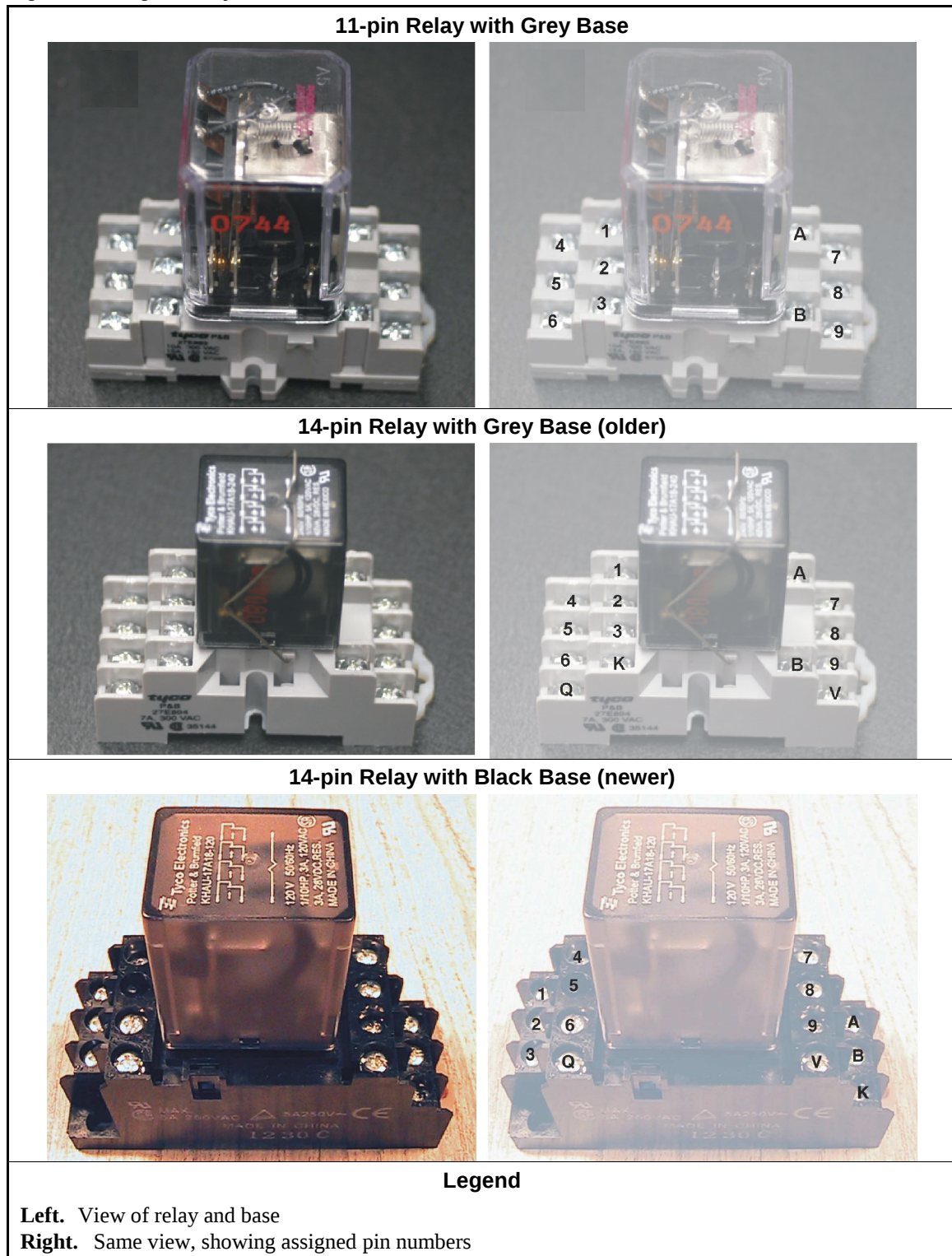
2. Component Terminal Numbering



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

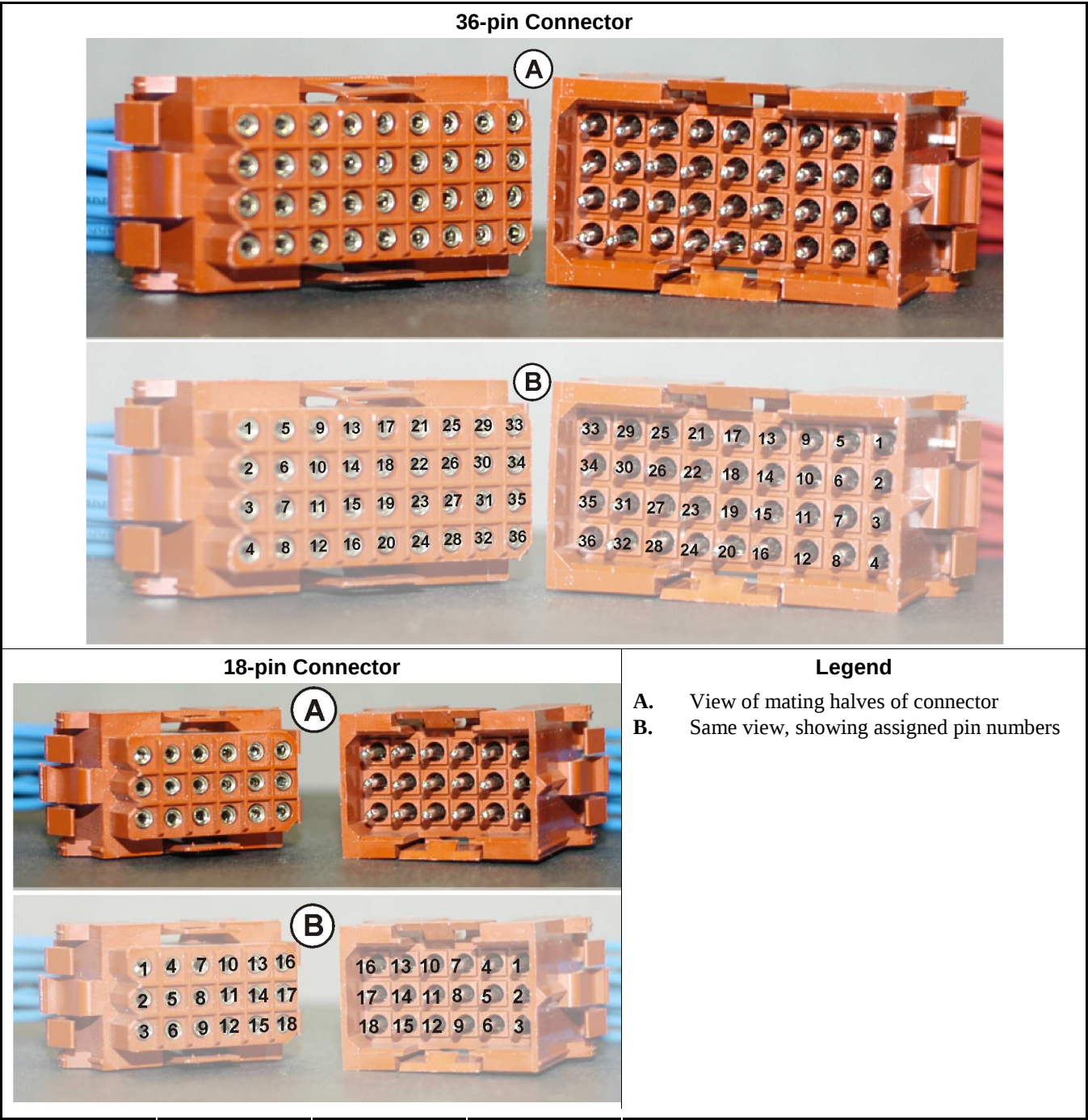


Figure 24: Molex Connector Pin Locations

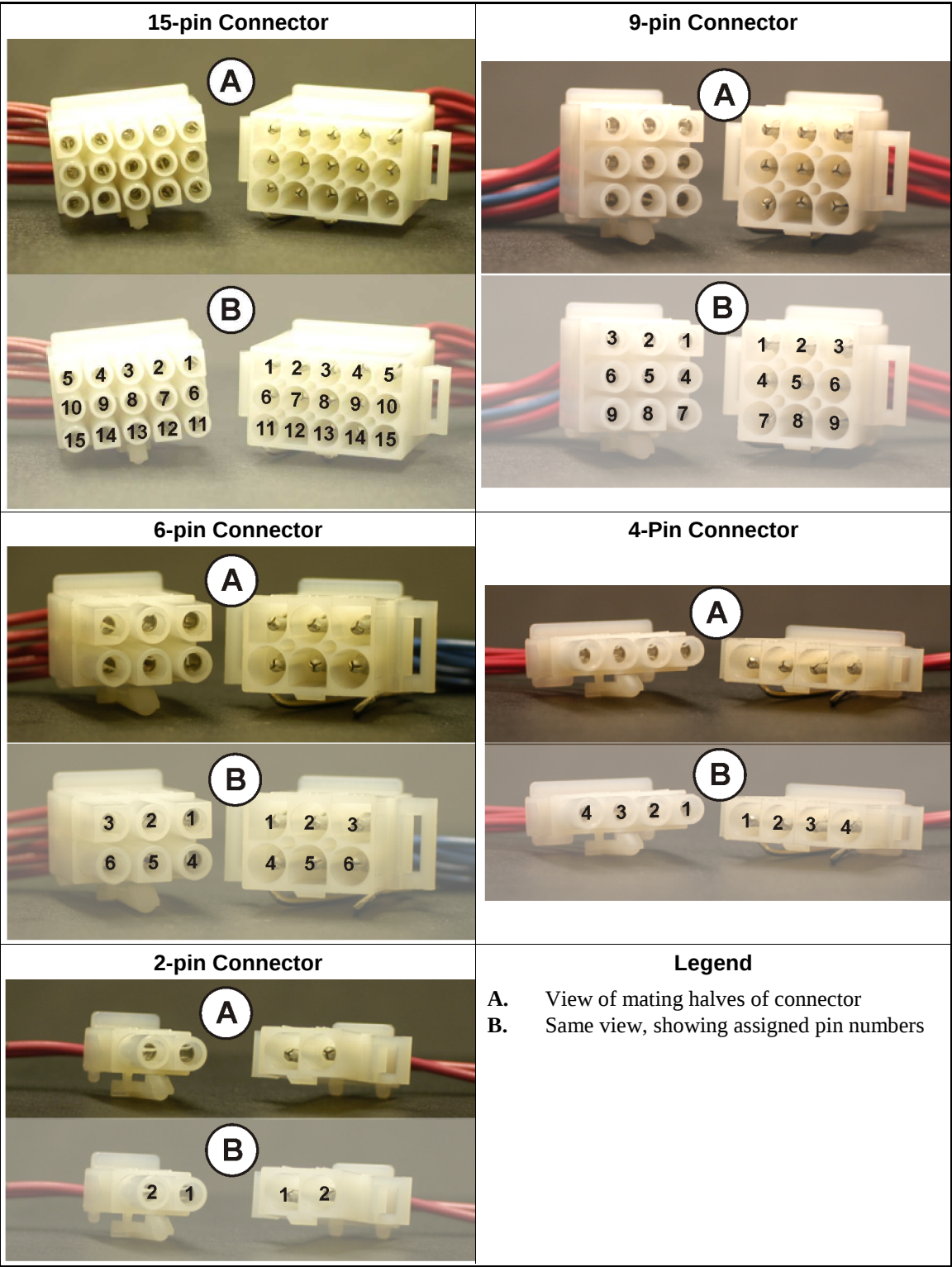


Figure 25: Pressure Switch

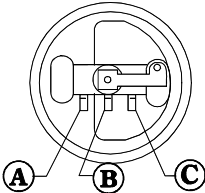
Component	Legend
	A. Contact 1—Normally open B. Contact 2—Normally closed C. Contact 3—Common

Figure 26: Toggle Switch

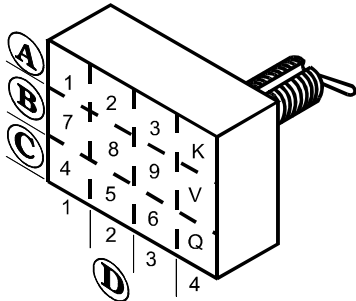
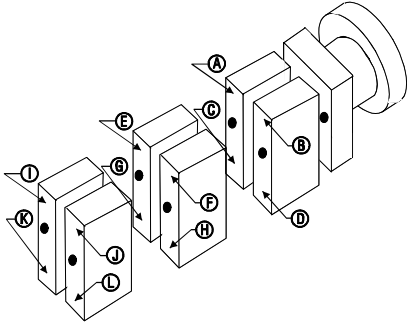
Component	Legend
	A. Normally closed contacts B. Common contacts C. Normally open contacts D. Pole

Figure 27: Switch with Replaceable Contact Blocks

Rotary or Push-button Switch Component	Legend
	A. Terminal 7 B. Terminal 8 C. Terminal 4 if normally open; terminal 1 if normally closed D. Terminal 5 if normally open; terminal 2 if normally closed E. Terminal V F. Terminal 9 G. Terminal Q if normally open; terminal K if normally closed H. Terminal 6 if normally open; terminal 3 if normally closed I. Terminal W J. Terminal X K. Terminal R if normally open; terminal L if normally closed L. Terminal S if normally open; terminal M if normally closed

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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4

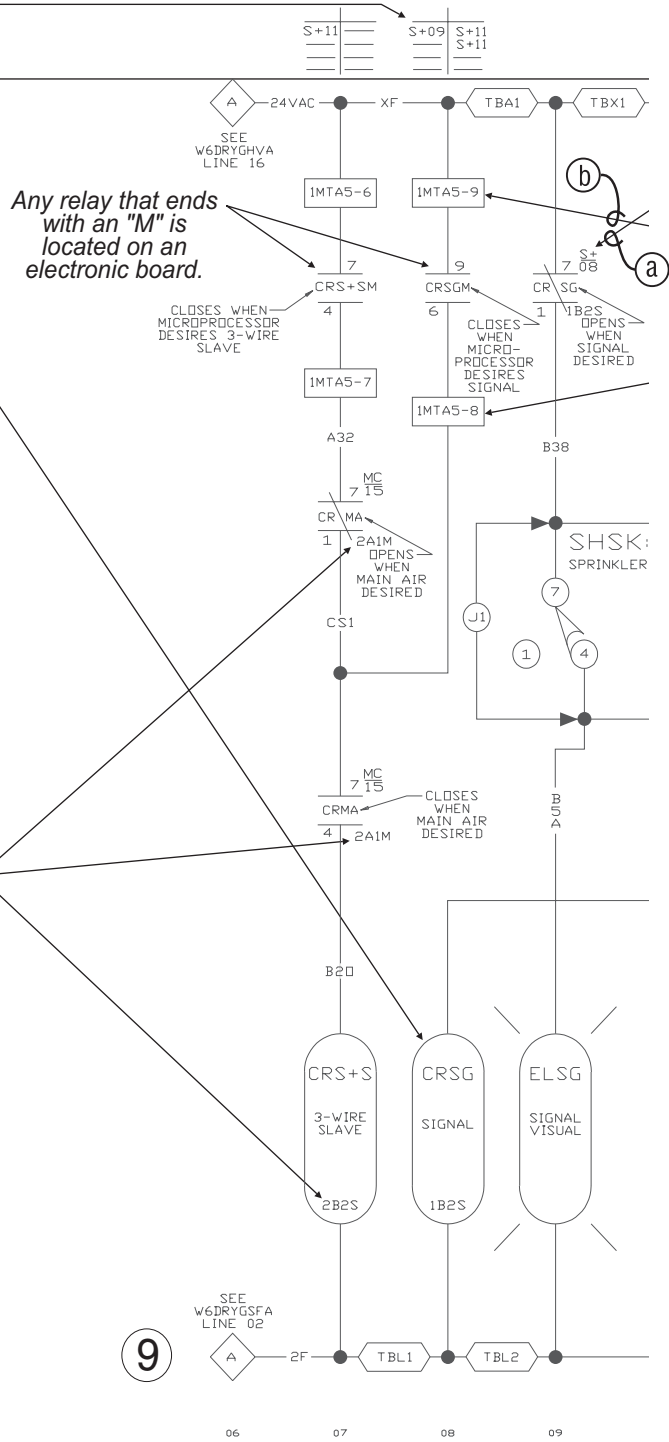
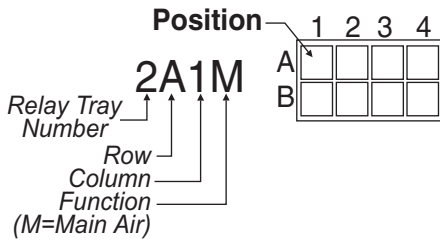
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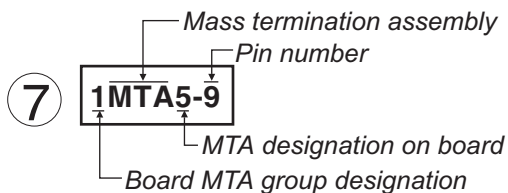
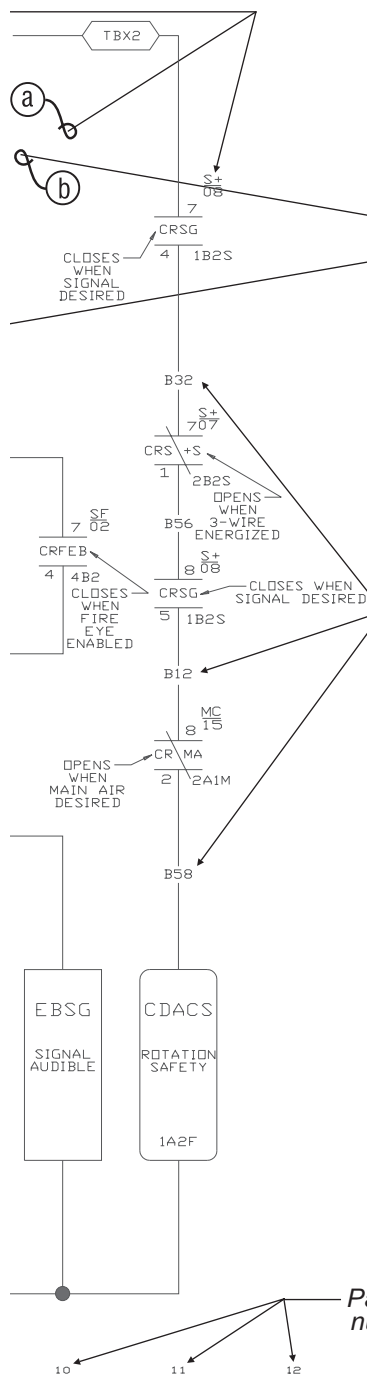
5

7-1 contact	S+09	S+11	7-4 contact
8-2 contact	—	S+11	8-5 contact
9-3 contact	—	—	9-6 contact
V-Q contact	—	—	V-K contact

Contact not used —
Drawing and line where
contact is located

⑥



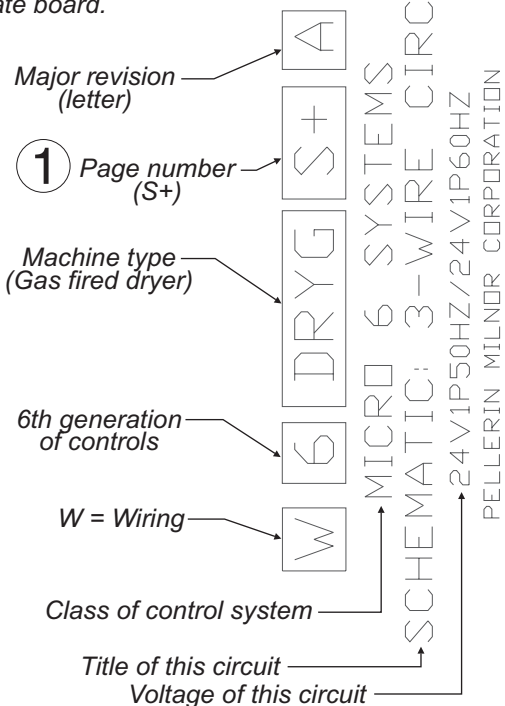


An MTA is a connection on an electronic circuit board. The notes and the tag page locate the appropriate board.

8

Wire identification marking.

This designation is stamped on the wire every 6 inches and is used with the signal routing table.



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.

Page line numbers

3

On-Site Control Connections for Dryers With Mark 5 Controls

The types of on-site connections required vary with the type of system the dryer is in. These are summarized in Table 1.

Table 1: Summary of Dryer On-Site Control Connections

Type of System	Dryer-to-Operator Controls		Other Connections If Applicable
	Always	If Applicable	
Stand-alone dryer (operator controls in dedicated controller box)	• 120VAC connections for face plate controls • Internal serial link	--	• Mildata serial link (daisy chain connection in control box) • Dryvac (Autolint) connections between dryer and Dryvac unit
Miltrac system with a central controls mounting panel (belt box)	• 120VAC connections for face plate controls • Internal serial link	120VAC connections and dryer input signal for Dryvac	Connections between dryer and "no-dry" station via belt box (see "How a Dryer-controlled No-dry Works") *, **
* Because the dryer processor boards are in the belt box, the dryer-to-dryer daisy chain connections for the Miltrac and Mildata serial links are within the belt box and normally wired at the factory. However, continuation of the Mildata serial link (to other devices and to the Mildata computer) must be wired on site. ** Because the Dryvac sequencer is in the belt box, the dryer controller-to-Dryvac sequencer connections are normally wired at the Milnor factory. However, the sequencer-to-Dryvac connections must be wired on site.			
Drynet or MultiTrac system (operator controls in Drynet or MultiTrac cabinet)	• 120VAC connections for face plate controls • Miltrac, Drynet, and Mildata serial links	--	• Connections between dryer and "no-dry" station via Drynet or MultiTrac (see "How a Dryer-controlled No-dry Works") • Dryvac (Autolint) connections between dryer and Dryvac unit

Supplement 1

How a Dryer-controlled No-dry Works

If the installation includes a dryer-controlled no-dry station, every dryer that is configured to control a no-dry station must know if the no-dry station is available to receive the batch. This is accomplished via a Discharge Allowed switch at the no-dry station that makes an input on **all** dryers that are so-configured. It is convenient to run the dryer-to-Discharge Allowed switch conductors via the the belt box, Drynet cabinet, or MultiTrac cabinet. This permits bundling these conductors with other control conductors that run between the dryer and the central control cabinet and running a single cable between the cabinet and the Discharge Allowed switch.

1. On-Site Control Connections for a Stand-alone Dryer

In this configuration, Milnor will normally provide a length of flexible conduit suitable for locating the dedicated dryer controller box near the dryer. Typically, some connections will be made at the factory and some will need to be made on site. For example, if a dedicated Milnor elevating shuttle (for loading the dryer) is to be supplied with the dryer, the dryer controller box is usually mounted to the shuttle frame at the factory. The factory will also provide the flexible conduit already attached to the control box and the wiring already connected on this end. The other end of the conduit will have pre-wired mating connectors. On site, the conduit need only be

secured to the dryer and the connectors plugged together. The dryer-to-operator controls connections are the same as described in Section 2 “On-Site Control Connections for Dryers in a Miltrac™ System With a Central Controls Mounting Panel (Belt Box)”. If the dryers use a Milnor Dryvac (Autolint) system, see the related section in document BICDUI04.

2. On-Site Control Connections for Dryers in a Miltrac™ System With a Central Controls Mounting Panel (Belt Box) [Document BICDUI02]

In this configuration, a remote dryer controller (one for each dryer in the system), which contains the dryer processor board, is located in the belt box. This supports the keypad, display and other operator controls (e.g., Master switch) also mounted on the belt box. The dryer connections that must be made on site are listed in Table 2. The connection points may be on terminal blocks or mating connectors. The mating connector and pins to be wired are normally provided in a bag located in the control box or cabinet.

Table 2: Dryer On-Site Control Connections in Systems with a Belt Box

Purpose	Cable Specification	Connection Point			
		On Dryer		On Dryer Controller in Belt Box	
		Connector	Pin	Connector	Pin
Required Connections Between Dryer and Operator Controls in Belt Box					
Earth ground	One conductor: 14AWG (2.5mm ²) with 600VAC insulation	TBA (ground terminal)	6	TBA (ground terminal)	6
120VAC face plate controls -- All except 6458TG1x models	Multi-conductor cable: 18AWG (1.0mm ²) with 300VAC color coded insulation. Ground unused wires on one end only.	TBA	13	WCM	1
		TBA	11	WCM	2
		TBA	14	WCM	4
		TBA	12	WCM	5
		TBA	5	WCM	6
		TBA	6	WCM	7
		TBA	4	WCM	9
120VAC face plate controls -- 6458TG1x models	Multi-conductor cable: 18AWG (1.0mm ²) with 300VAC color coded insulation. Ground unused wires on one end only.	WCM	1	WCM	1
		WCM	2	WCM	2
		WCM	4	WCM	4
		WCM	5	WCM	5
		WCM	6	WCM	6
		WCM	7	WCM	7
		WCM	9	WCM	9
Internal (board-to-board) serial link*	Two-conductor shielded cable: 18AWG (1.0mm ²) twisted pair with 300VAC color coded insulation and 85% braided shield. Ground shield one end only.	TBA	106	1MTA33 (serial link #2 low)	1 or 2
		TBA	107	1MTA33 (serial link #2 high)	3 or 4
Additional Connections, If Applicable					
Processor input/ground for "no-dry"	Two-conductor shielded cable. Run all cables via the belt box. In belt box, "common" the corresponding wires from all dryers together and ground shields.	On Dryer		At No-dry Station	
		TBA	140	"Discharge Allowed" switch	N/O
		TBA	7		C
Miltrac and Mildata serial links	See document BICCUC01 "On-Site Installation and Troubleshooting of Permanent Serial Communication Cables" for a complete explanation.				
Dryvac Controls	See document BICDUI04 "Dryer-To-Dryvac (Autolint) Connections" for a complete explanation.				

3. On-Site Control Connections for Dryers in a Drynet (dryer/shuttle controller) or MultiTrac™ System [Document BICDUI03]

In this configuration, each dryer processor board is located on its respective dryer and a control box containing the Master switch (⊗/⊙), Stop button (⓪), and Start button (Ⓛ) for each dryer is mounted on the Drynet or MultiTrac cabinet. The dryer connections that must be made on-site are listed in Table 3. The connection points may be on terminal blocks or mating connectors. The mating connector and pins to be wired are normally provided in a bag located in the control box or cabinet.

Table 3: Dryer On-Site Control Connections In Drynet and MultiTrac Systems

Purpose	Cable Specification	Connection Point			
		On Dryer		On Drynet or MultiTrac	
		Connector	Pin	Connector	Pin
Required Connections Between Dryer and Drynet or MultiTrac Cabinet					
Earth ground	One conductor: 14AWG (2.5mm²) with 600VAC insulation	TBA (ground terminal)	6	TBA (ground terminal)	6
120VAC face plate controls -- All except 6458TG1x models	Multi-conductor cable: 18AWG (1.0mm²) with 300VAC color coded insulation. Ground unused wires on one end only.	TBA	4	TBC	4
		TBA	5	TBC	5
		TBA	11	TBC	11
		TBA	12	TBC	12
		TBA	13	TBC	13
120VAC face plate controls -- 6458TG1x models	Multi-conductor cable: 18AWG (1.0mm²) with 300VAC color coded insulation. Ground unused wires on one end only.	WCM	9	TBC	4
		WCM	6	TBC	5
		WCM	2	TBC	11
		WCM	5	TBC	12
		WCM	1	TBC	13
Miltrac serial link	See document BICCUC01 "On-Site Installation and Troubleshooting of Permanent Serial Communication Cables" for a complete explanation.	1MTA32	1 or 2	Miltrac SRL	
1MTA32		3 or 4	Miltrac SRH		
Drynet serial link		1MTA29	1 or 2	Drynet SRL	
		1MTA29	3 or 4	Drynet SRH	
Mildata serial link		1MTA34	1 or 2	Mildata SRL	
		1MTA34	3 or 4	Mildata SRH	
Additional Connections, If Applicable					
Processor input/ground for "no-dry"		On Dryer		At No-dry Station	
	Two-conductor shielded cable. Run all cables via the Drynet or MultiTrac cabinet. In cabinet, "common" the corresponding wires from all dryers together and ground shields.	TBA	140	"Discharge Allowed" switch	N/O
		TBA	7		C
Dryvac controls	See document BICDUI04 "Dryer-To-Dryvac (Autolint) Connections" for a complete explanation.				

— End of BICDUI01 —

Milnor® Allied Interface Specifications and Signals, Dryer

An allied device that interfaces with the Milnor system machine equipped with Mark 5 or later microprocessor controls must meet the electrical specifications and functional requirements given in Section 1 “Electrical and Functional Specifications”.

The “Signals...” section(s) herein identify the allied interface signals and provide related information (see Section 2 “How the Signals Tables Are Organized”).

This document also provides useful information for troubleshooting allied interfaces:

- The **Display/code** and **Board/code** values in the signals tables, are cross-references to the output and input displays and to the output and input numbers on the I/O boards respectively. Section 4 “Monitoring Allied Interface Outputs and Inputs”, explains how to use these cross-references.
- As an aid in working with **numeric signals**, Section 5 “Decimal / Binary Conversion and How It Applies to Allied Interfaces” explains how to determine, for any batch code, which value (off or on) each signal in a group should pass.

1. Electrical and Functional Specifications



WARNING [1]: Electrocution and Electrical Burn Hazards—Contact with high voltage will electrocute or burn you. Power switches on the machine and the control box do not eliminate these hazards. High voltage is present at the machine unless the main machine power disconnect is off.

- Do not service machine unless qualified and authorized.
- Lock out and tag out power at the main machine disconnect before opening electric boxes and accessing electrical components.

For inputs from Milnor (Milnor outputs), the allied device must limit circuit load to that specified in Section 1.1, below. For outputs to Milnor (Milnor inputs), the allied device must supply circuitry that meets the specifications in Section 1.2, below. The functional requirements stated in Section 1.3 must be met for proper coordination and data exchange between the devices.

1.1. Permissible Load for Milnor Outputs—For signals from Milnor to allied (Milnor outputs/allied inputs), Milnor supplies potential-free contacts located on board-mounted relays. The signals are conducted by traces on the board having the following capacity:

- Maximum voltage: 240V
- Maximum current: 0.5 amps
- Maximum VA: 3



CAUTION [2]: Risk of Damage/Malfunction—Traces on control boards may burn out, requiring board replacement, if called upon to handle heavy currents. High voltages can cause arcing across traces.

- Do not apply loads exceeding the specified capacity.
- Do not use allied interface outputs to operate motors or for any other unintended purpose. These may, however, be used to operate relays that do not exceed the specified capacity.

1.2. Component Requirements for Milnor Inputs—For signals from allied to Milnor (allied outputs/Milnor inputs—which connect directly to control boards and are used to ground Milnor control inputs), Milnor applies a low energy signal as follows:

- Voltage: 5VDC or 12VDC
- Minimum current: 5 milliamps

The potential-free contacts supplied by allied and the circuit wiring must be capable of faithfully carrying these low energy signals.



CAUTION [3]: Risk of Bad Data—Resistance due to wire length or deteriorated contacts can mask signals. Inadequate shielding against electrical noise can trigger false signals.

- Keep wire runs as short as possible.
- Use a digital signal ground connection (wire number 2G on the CBW; wire number 7 on other Milnor devices), not merely chassis ground.
- Ground any spare wires.
- Pass all wires through a ferrite bead.
- Replace relays that have worn or corroded contacts.
- Do not run input wiring adjacent to, or in the same conduit with, any wires carrying AC. For example, do not run input and output wiring in the same conduit if AC is used to power Milnor output/allied input signals.

1.3. Functional Requirements

1. For numeric signals (batch codes) from allied to Milnor (allied loading interface), all signals must be properly set when the operational signal indicating this data is valid occurs. Signals must remain set for the longer of 5 seconds or through any subsequent operational signal requiring this data (see “Loading Interface non-Numeric Signals...”). Milnor will read all numeric signals during this time.
2. For numeric signals from Milnor to allied (allied discharge interface), allied must not read signals until the data valid, or other operational signal indicating data is valid occurs (see “Discharge Interface non-Numeric Signals...”).
3. Although not all the operational signals listed in the tables are necessarily required, (the signals used will vary with specific machine models and with variations in the operating cycle), those signals used, must occur in the order listed.
4. When connecting numeric signals between devices, ensure that signals are properly matched up with respect to significance (least significant-to-least significant, next least significant-to-next least significant, etc.).

2. How the Signals Tables Are Organized

For an allied device that loads the Milnor machine, Milnor provides an allied **loading interface**. For an allied device that receives goods from (discharges) the Milnor machine, Milnor provides an allied **discharge interface**. In both cases, some signals are used in groups to pass **numeric** values in binary and some signals are used individually to pass **non-numeric** (on/off) values. The receiving device can read the groups of numeric signals in any order as long as it reads this data during the window of time within which it is valid. However, because each signal within a group of numeric signals represents a specific digit of the binary number, the order of significance of the signals (**digit order**) must be understood and must match on sending and receiving devices. Most non-numeric signals provide operational information which must be exchanged according to a predetermined “handshaking” scheme. Hence, the sequence in which operational signals occur (**enabling order**) is critical. Accordingly, the signal information is presented in four tables:

1. **Loading interface numeric input signals and digit order**—In this table, signals are depicted in digit order, that is, the way they would be read as a binary number. The rightmost **column** represents the signal that carries the least significant digit. Each adjacent **column** to

the left is the signal representing the digit of next higher significance. The table is divided into **row** groups—one row group for each batch code provided. Each row group provides pertinent information for the signals used with that batch code. In an allied loading interface, all numeric signals pass from allied to Milnor and are therefore, **inputs** to Milnor.

2. **Loading interface non-numeric signals and enabling order**—In this table, each **row** represents a signal and each **column** provides pertinent information for that signal. Generally, these signals must be exchanged by the interfaced devices in the order listed. The labels given to operational signals in the schematics can vary from device to device. However, the document “Summary of Milnor Allied Interface Capability” provides generic names for these. The right-hand column of this table provides both the generic (function) name and the signal name as shown in the schematic, except where these are the same.
3. **Discharge interface numeric *output* signals and digit order**—This table is arranged the same as the “loading interface numeric...” table. However, in an allied discharge interface, all numeric signals pass from Milnor to allied and are therefore, **outputs** from Milnor.
4. **Discharge interface non-numeric signals and enabling order**—This table is arranged the same as the “loading interface non-numeric...” table. As with a loading interface, the devices need to exchange these signals in the order shown.

3. Signals—Dryers With Mark 5 Controls [Document BICALC08]

Table 1: Loading Interface Numeric Input Signals and Digit Order—Dryer

Signal name on schematic (e.g., Drycode A, B, etc.)-->		Common Conn.	Dedicated Connections (Binary Data Signals)								Least Significant	
			J	I	H	G	F	E	D	C	B	A
16 Drycodes (00 - 15)	Multi-terminal	TBX							TBX	TBX	TBX	TBX
	Pin Number	7							4	3	2	1
	Wire Number	7							171	170	169	168
	Display/code	--							i1/L	i1/J	i1/F	i1/E
	Board/code	--							*	*	*	*
* This signal uses a direct input on the microprocessor board, not an input on the peripheral board.												

Table 2: Loading Interface non-Numeric Signals and Enabling Order—Dryer

Signal Direction	Common Multi-terminal	Connection* Pin	Wire	Dedicated Connection Multi-terminal	Pin	Wire	Display / code	Board / code	Function Name / Signal Name
Output*	TBA	159	159	TBA	162	162	o1/d	io1/3	load desired
Although Milnor reads all batch data (previous table and next two signals) when it receives the "transfer complete / dryer is loaded" signal, all batch data should be set before the "loading mode / dryer is loading" signal is enabled.									
Input	TBX	7	7	TBX	5	167	i1/K	**	single cake / little load
Input	TBX	7	7	TBX	6	166	i1/I	**	new customer / new customer ***
Input	TBA	7	7	TBA	143	143	i2/G	io1/6	loading mode / dryer is loading ****
Output*	TBA	92	92	TBA	93	93	o1/g	o1/12	load allowed / load door open *****
Input	TBA	7	7	TBA	141	141	i2/I	io1/8	transfer complete / dryer is loaded
Output*	TBA	93	93	TBA	94	94	o2/d	io2/2	(no function name) / load door closed *****
* For outputs from Milnor, Milnor does not normally assign either pin of the potential-free contact as the common. Hence, both pins have unique pin and wire numbers.									
** This signal uses a direct input on the microprocessor board, not an input on the peripheral board.									
*** The "new customer" input is used when it is not necessary to track batch codes electronically, but merely to ensure that different customers' goods are kept segregated. If the Milnor controller sees this input made at the appropriate time during the cycle, it will increment the customer codes by one (e.g., from 07 to 08) to signal downstream devices not to combine these batches.									
**** If the Dryer is loaded by a dedicated loading device, this input may be jumpered to set it permanently on.									
***** When a single freestanding Dryer is loaded with pressed cakes via an allied loading conveyor or shuttle capable of automatic operation, it is recommended to connect the following Milnor outputs in series: "Loading allowed / load door open" (TBA92/TBA93) and "Transfer complete / discharge door closed" (TBA164/TBA165 - in discharge interface). This confirms that the discharge door is fully closed before loading starts.									
***** This output was implemented for use with the Milnor COELD dedicated elevating loading conveyor. It may be used to release the shuttle; however, it remains on for the duration of the cycle.									

Table 3: Discharge Interface Numeric Output Signals and Digit Order—Dryer (see Note 1)

Signal name on schematic (e.g., Drycode A, B, etc.)-->		Common Conn.	Dedicated Connections (Binary Data Signals)								Least Significant	
			J	I	H	G	F	E	D	C	B	A
16 Destination Codes (00 - 15)	Multi-terminal	n/a							3MTA5*			
	Pin Number	n/a							4 • 14	7 • 16	8 • 17	9 • 18
	Wire Number	n/a							none	none	none	none
	Display/code	--							not available			
	Board/code	--							io3/4	io3/3	io3/2	io3/1
* A standard multi-terminal pin assignment is not currently established for these outputs. Hence, the board level (MTA) connector and pins are shown in this case.												

Note 1: The destination code output signals shown are only available if optional I/O board #3 is supplied. This remotely mounted board also provides two operational signals: "discharge desired" on 3MTA5, pins 1 and 11, and "data valid" on 3MTA5, pins 2 and 12.

Table 4: Discharge Interface non-Numeric Signals and Enabling Order—Dryer (see Note 1)

Signal Direction	Common Connection*			Dedicated Connection			Display / code	Board / code	Function Name / Signal Name
	Multi-terminal	Pin	Wire	Multi-terminal	Pin	Wire			
Output*	TBA	158	158	TBA	161	161	--	io2/0	discharge desired
Input	TBA	7	7	TBA	140	140	i2/H	io1/7	discharge allowed
Milnor will set all batch data (previous table and next signal) before it enables the "transfer complete / discharge door closed" signal.									
Output*	TBA	160	160	TBA	163	163	o1/e	io1/4	new customer
Output*	TBA	164	164	TBA	165	165	o2/g	io2/2	transfer complete / discharge door closed **
* For outputs from Milnor, Milnor does not normally assign either pin of the potential-free contact as the common. Hence, both pins have unique pin and wire numbers.									
** This output remains on for the duration of the cycle.									

4. Monitoring Allied Interface Outputs and Inputs

The status of outputs and inputs can be monitored on the machine display while the machine is in operation, as explained in the machine reference manual (see Note 2 and Note 3). Beginning with Mark 4 controls (Mark 9 on the CBW), output and input status can also be monitored on the I/O boards. These boards contain LED's—one green LED for each input and one red LED for each output (see Note 4). When the LED is illuminated, the circuit is made.

Note 2: It is also possible to actuate certain outputs for testing, as explained in the reference manual. However, the "Display/code" values in the tables herein, refer only to the displays used to view outputs/inputs.

Note 3: The outputs and inputs available for viewing on the display include some (but not all) allied interface signals as well as signals for many other functions. See the reference manual for a listing of all outputs and inputs that can be monitored during operation.

Note 4: Almost all allied interface outputs and inputs are passed via the I/O boards (peripheral boards) and are therefore, represented by LED's on the boards. A few, however, are passed directly via the processor board (direct outputs/inputs). The processor board does not contain LED's.

4.1. Identifying Outputs and Inputs on the Display Pages —On CBW's, some allied inputs are available for viewing on the Mentor *Direct and Standard Inputs* page (as indicated in the signals tables). It is fairly easy to identify signals on the Mentor because the signal names are displayed.

The single stage press, two stage press, centrifugal extractor, shuttle, COBUC, and dryer use a two or four line by 20 character LCD display (see Note 5). On these devices, each output or input is represented by a character (lower or upper case letter) on the top line and a plus (+) or minus (-) sign under the character indicating the on/off status of the signal. The outputs and inputs span several display pages. Each page is accessed via the keypad and the procedures for doing so are explained in the reference manual. The "Display/code" values listed in the tables herein tell you which display page and character represent the indicated signal, as shown in the following example:

i 2/H

Where:

i = **input** display page (o = **output** display page)

2 = the second in a series of input display pages. See the reference manual for the keystrokes used to access each display page in the series. Note that in some software such as the centrifugal extractor, page numbering begins with 0 (zero); that is, the first page is page #0. Hence, on software such as the extractor, i2 = inputs page #1 (the second inputs page).

H = This input is represented by the character “H” on the display.

Note 5: When the Milnor Dryer/Shuttle Controller is provided for a new installation, the LCD displays are omitted from the controllers for any shuttle(s) and dryer(s) also provided. In this case, inputs and outputs may be viewed on the monitor supplied with the shuttle/dryer controller. As with the CBW Mentor controller, it is easy to identify signals because the signal names are displayed.

4.2. Identifying Output and Input LED's On the I/O Boards (all except 76032 CBW)—Two types of output/input peripheral boards are used in conjunction with the allied interfaces covered herein. Their designations and capacities are:

1. **BO24-x**—contains 24 outputs (and no inputs). x is “1”, “2”, etc. indicating the first, second, etc. such board in this machine.
2. **BIO-x**—contains 16 inputs and 8 outputs. x is “1”, “2”, etc. indicating the first, second, etc. such board in this machine.

For all except the CBW, the peripheral boards are located in the low voltage electric box. The arrangement and combination of these boards within the card cage varies with the machine type and optional equipment provided. For the G3 CBW (Mark 9), the boards that support the explicit allied interface signals are located in the card cage in the left (Standard Output) section of the main control box.

A tag located in the electric box identifies the boards that may be provided and shows the position of each board in the card cage. Each 24 output board has a set of red LED's (numbered 0 through 23). Each 16/8 I/O board has two sets of LED's—a red set for the outputs (numbered 0 through 7) and a green set for the inputs (numbered 0 through 15). The “Board/code” values listed in the tables herein tell you which board and output or input number represent the indicated signal, as in the following example:

io2/5

Where:

io2 = the 16/8 I/O board designated “BIO-2”. (Other examples:
io1=BIO-1, o1=BO24-1, o2=BO24-2)

5 = input #5, if this signal is an input or output #5 if this signal is an output.

5. Decimal / Binary Conversion and How It Applies to Allied Interfaces

Batch codes (decimal numbers) are converted to binary by the sending controller, then passed via the numeric signals to the receiving controller, where they must be converted back to decimal numbers. For example, if an interface provides for passing 16 drycodes, then to pass drycode 14

(binary 1110), drycode signals D, C, B, and A (from most to least significant) must be on, on, on, and off respectively, during the “data valid” window.

Table 5 “Numeric Signal Decimal and Binary Values” shows, for the first 16 decimal numbers (e.g., drycodes 00 through 15), the corresponding binary numbers and which numeric signal carries each binary digit. This table's columns correspond to, and align with the columns in each table of numeric signals herein. For higher numbers, use the “Decimal Value of Signal” values in this table to convert between decimal and binary as explained herein.

Table 5: Numeric Signal Decimal and Binary Values

		Decimal Value of Group	Most Significant	Binary Data Signals								Least Significant	
Signal name on schematic (e.g., Drycode A, B, etc.)-->			J or K or 9	I or J or 8	H or 7	G or 6	F or 5	E or 4	D or 3	C or 2	B or 1	A or 0	
Decimal Value of Signal-->			512	256	128	64	32	16	8	4	2	1	
The number of data signals required for typical ranges of batch codes are as follows: Code Range Signals Required		0							0	0	0	0	
		1							0	0	0	1	
		2								0	0	1	0
		3		For brevity, this table shows only the binary numbers for decimals 0 - 15 (e.g., decimal 7 = binary 0111).						0	0	1	1
		4							0	1	0	0	
		5							0	1	0	1	
		6							0	1	1	0	
00-15	A-D	7		Use the "Decimal Value of Signal" values above, to convert between decimal and binary, for any decimal number between 16 and 1023.					0	1	1	1	
00-31	A-E	8							1	0	0	0	
00-63	A-F	9							1	0	0	1	
000-127	A-G	10							1	0	1	0	
000-255	A-H	11							1	0	1	1	
000-511	A-I or J	12		See explanations of decimal / binary conversion herein.						1	1	0	0
0000-1023	A-J or K	13								1	1	0	1
		14								1	1	1	0
		15								1	1	1	1

For convenience, an example and explanations of converting between decimal and binary follow. Many other examples and explanations can be found in mathematics texts, on the Internet, etc. Also, some pocket calculators and many computer programs are available for converting between decimal and binary.

Note 6: In Table 6, which follows, the “Decimal value of binary 1 in this position” is the same as “Decimal Value of Signal” in Table 5.

Table 6: Decimal Values for Binary Digit 1 In the First Ten Positions

Significance of digit	most										least
Position of digit	10	9	8	7	6	5	4	3	2	1	
Decimal value of binary 1 in this position	512	256	128	64	32	16	8	4	2	1	
Example binary number	1	0	0	1	0	1	1	0	1	0	
Decimal value carried down for this example	512	0	0	64	0	16	8	0	2	0	= 602

5.1. Converting Decimal to Binary—Referring to Table 6, if you want to convert decimal number 602 to binary, use the “Decimal value of binary 1 in this position” values, as follows:

512 = highest value not exceeding 602.

$$602 - 512 = 90$$

64 = highest value not exceeding 90.

$$90 - 64 = 26$$

16 = highest value not exceeding 26.

$$26 - 16 = 10$$

8 = highest value not exceeding 10.

$$10 - 8 = 2$$

2 = highest value not exceeding 2.

$$2 - 2 = 0$$

In the above arithmetic, you used the decimal values 512, 64, 16, 8, and 2. You did not use 256, 128, 32, 4, and 1. Placing a 1 in the position for each decimal value used and a 0 (zero) in each position not used, yields 1001011010. Hence, decimal 602 = binary 1001011010.

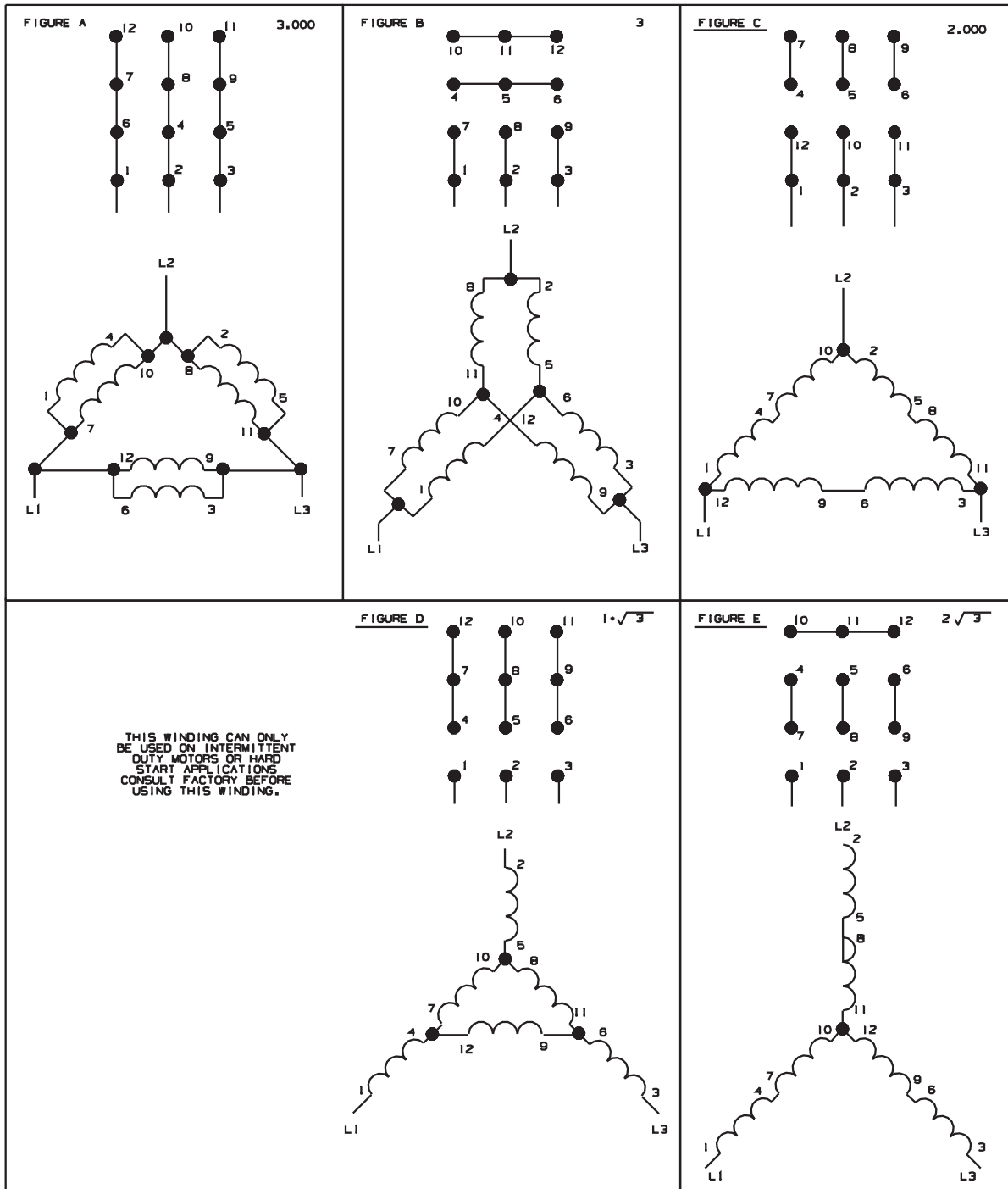
5.2. Converting Binary to Decimal—Referring to Table 6, if you want to convert binary to decimal, simply sum the decimal values corresponding to the 1's in each position of the binary number. Keep in mind that while a 1 in any position has a certain positive decimal value, a 0 (zero) in any position has the decimal value 0 (zero). The conversion for binary 1001011010 looks like this:

$$512 + 0 + 0 + 64 + 0 + 16 + 8 + 0 + 2 + 0 = 602$$

Hence, binary 1001011010 = decimal 602.

— End of BICALC02 —

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

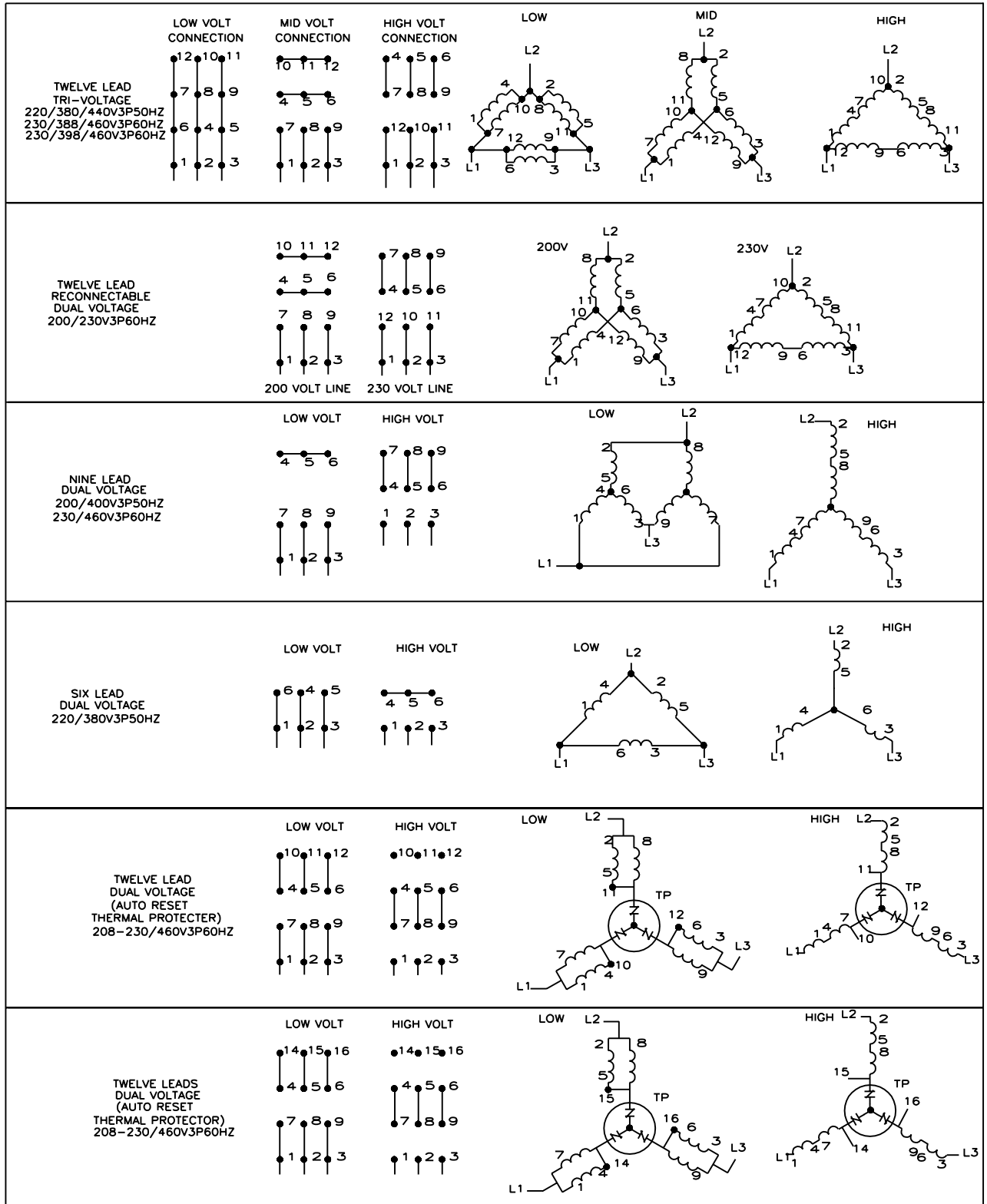
17

BMP850029

MOTOR CONNECTION DIAGRAMS

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

PELLERIN MILNOR CORPORATION



W80008

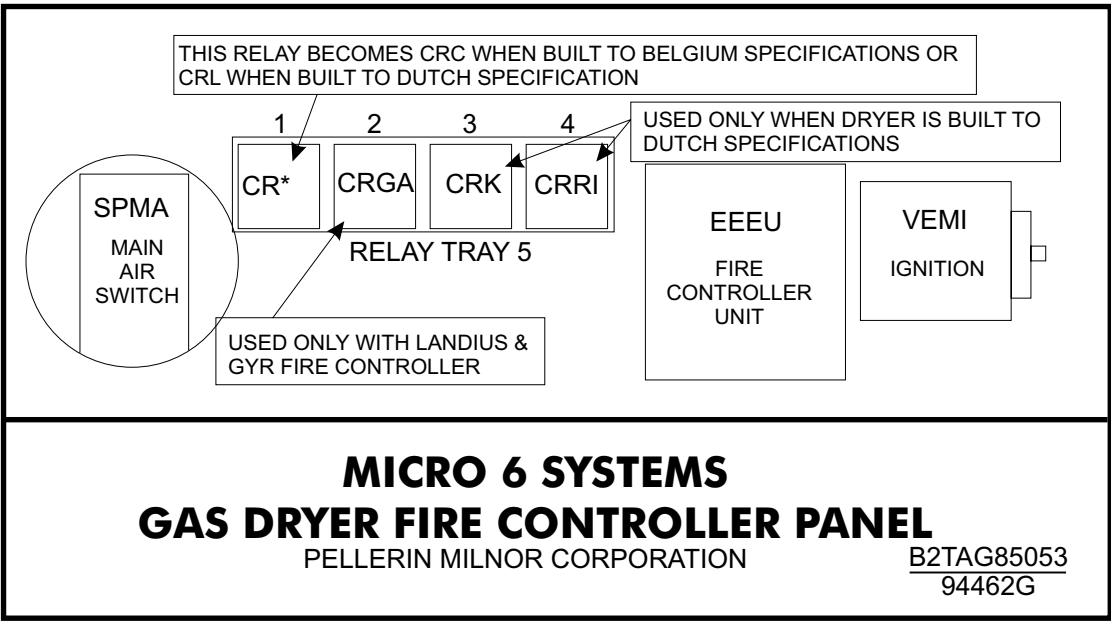
THREE PHASE
MOTOR CONNECTION DIAGRAMS
SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
PELLERIN MILNOR CORPORATION

W80008
2001253A

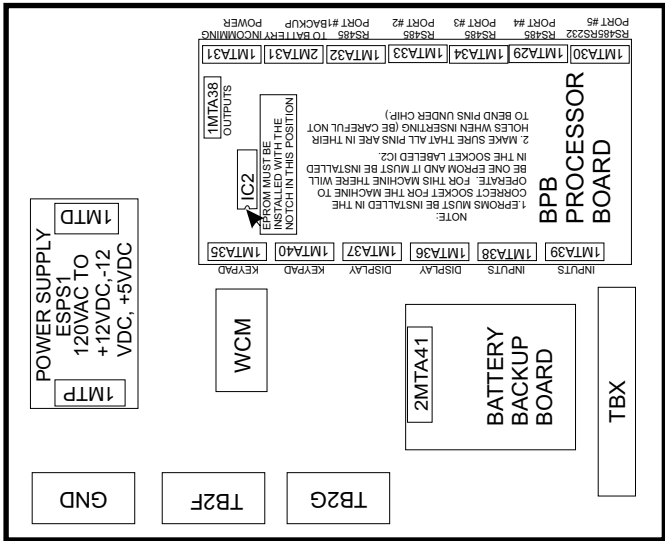
BO24-1 OUTPUTS 0 COUNTER CLOCKWISE ROTATION 1 DESIRES COMBUSTION AIR 2 DESIRES MAIN AIR 3 SIGNAL LIGHT 4 GAS VALVES ON 5 DAMPER VALVE 2 ACTUATED 6 DAMPER VALVE 1 ACTUATED 7 BYPASS MAIN AIR 8 DESIRES HEAT 9 LINT REMOVAL FROM FAN 10 NODRY TARGET LOWERED 11 LOAD DOOR CLOSED 12 LOAD DOOR OPEN 13 DISCHARGE DOOR OPEN 14 DISCHARGE DOOR CLOSED 15 CLOCKWISE ROTATION 16 LOAD DOOR NOT CLOSED 17 DESIRES NORMAL START 18 LOAD DOOR IS CLOSED 19 LOAD DOOR IS OPEN 20 NOT USED 21 NOT USED 22 NOT USED 23 NOT USED	BIO-1 INPUTS 0 3-WIRE HAS POWER 1 LOAD DOOR CLOSED 2 DISCHARGE DOOR CLOSED 3 FIRE EYE TRIPS 4 LOAD DOOR OPEN 5 ROTATION SAFETY 6 FREE TO LOAD 7 FREE TO UNLOAD 8 DRYER LOADED 9 MANUAL JOG CCW 10 MANUAL AUTO 11 CLOSES GAS VALVE 12 MANUAL JOG CW 13 DRYER ALLOWED TO LOAD 14 MANUAL LOAD DOOR OPEN 15 NO DRY READY OUTPUTS 0 DESIRES HARD START 1 DISCHARGE BEACON 2 INVERT SPEED 1 3 DESIRES LOAD 4 DESIRES NEW CUSTOMERS 5 INVERT SPEED 2 6 DRYER TARGET LOWERED 7 DESIRES SPRINKLER
BIO-2 INPUTS 0 CANNOT DO AUTOLINT 1 NOT USED 3 NOT USED 4 NOT USED 5 GAS METER 6 BACK PRESSURE HIGH 7 NOT USED 8 CLOSES MAIN AIR TRIPS 9 CLOSES COMBUSTION MOTOR TRIP 10 CLOSES BASKET OVERLOAD TRIP 11 CLOSES GAS PRESSURE TOO HIGH 12 CLOSES GAS PRESSURE TOO LOW 13 CLOSES MAIN AIR TOO LOW 14 CLOSES COMBUSTION TOO LOW 15 LINT COLLECTION FULL OUTPUTS 0 ALLIED DISCHARGE DESIRED 1 DESIRES MAIN AIR 2 LOAD AND DISC DOORS CLOSED 3 RECIRC DAMPER 4 LINT SCREEN STRIPPER 5 LINT WING EXTENDED 6 LINT BLOWER 7 AUTO LINT IN DRYER	BIO-3 INPUTS 0 SEQ ALLOWED TO DISCHARGE 1 NOT USED 3 NOT USED 4 NOT USED 5 NOT USED 6 NOT USED 7 NOT USED 8 NOT USED 9 NOT USED 10 NOT USED 11 NOT USED 12 NOT USED 13 NOT USED 14 NOT USED 15 NOT USED OUTPUTS 0 SEQ FINISHED DISCHARGING 1 DESTINATION 0 2 DESTINATION 1 3 DESTINATION 2 4 DESTINATION 3 5 ALLIED DISCH DESIRED 6 DATA VALID 7 SEQ DISCHARGE DESIRED

MICRO 6 SYSTEMS MARK V CONTROLS
GAS DRYER CONTROL BOARDS
PELLERIN MILNOR CORPORATION

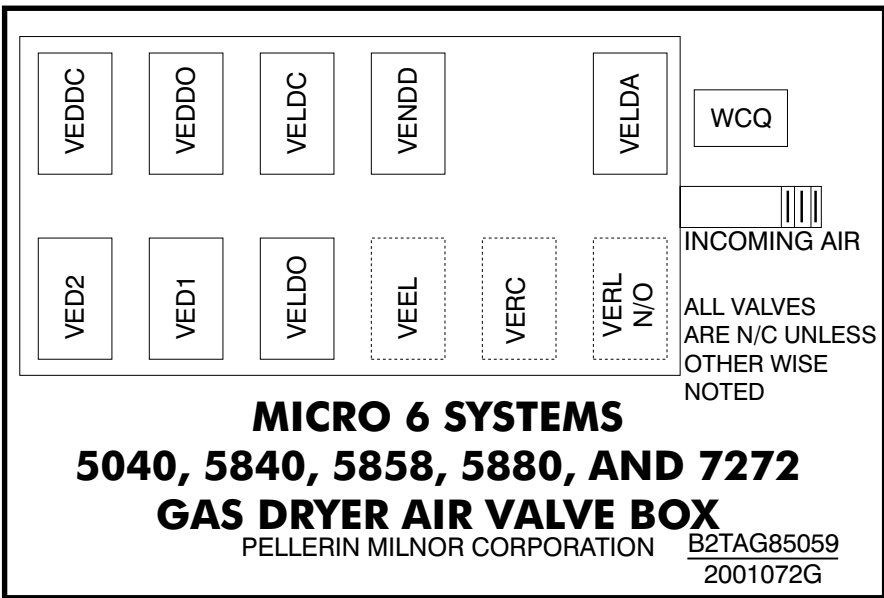
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2008293G



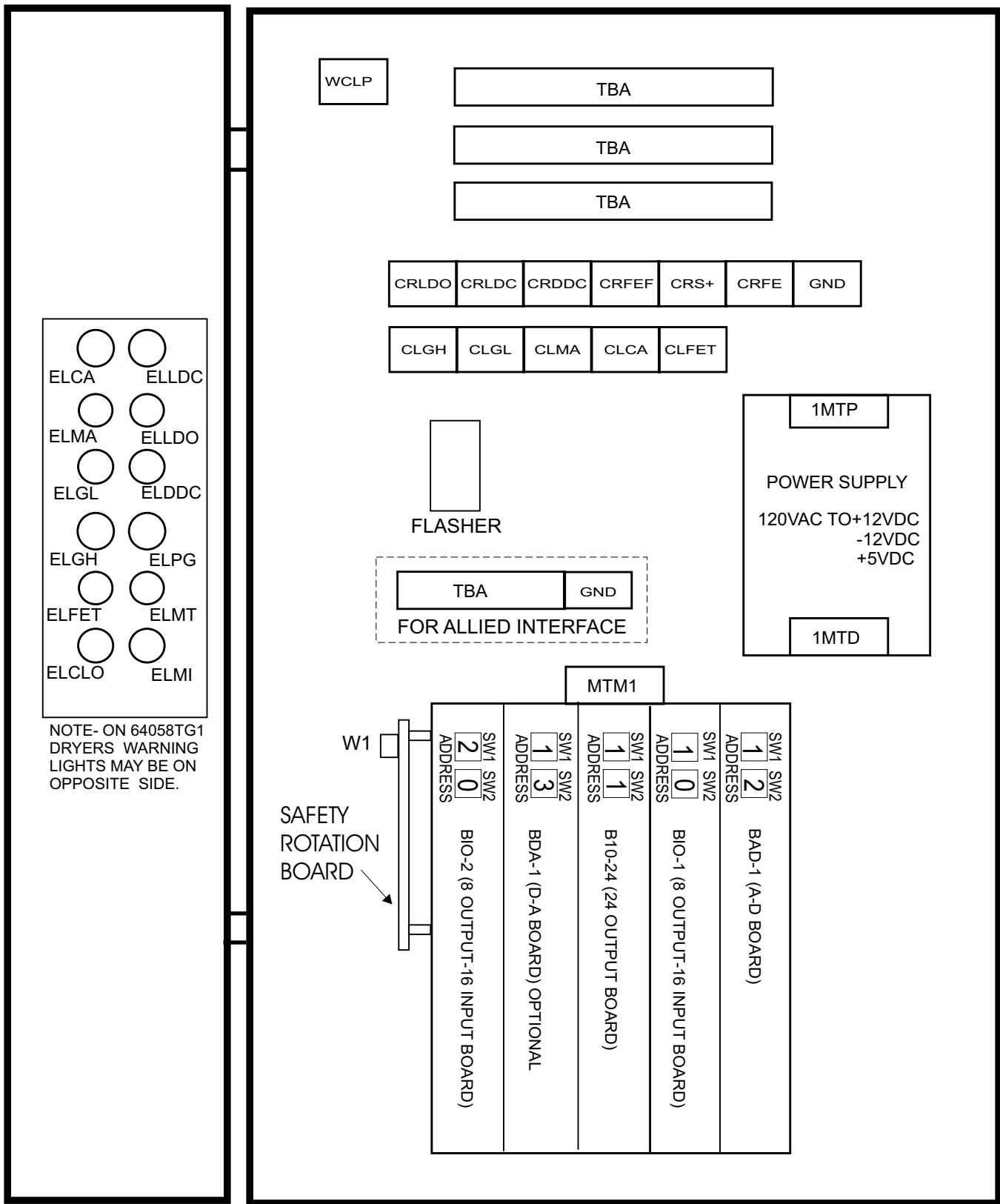
W6DR3FTG1
2008293B



W6DR3FTG1
GAS DRYER MACHINE TAGS
PELLERIN MILNOR CORPORATION



W6DR3FTG1
2008293B



MICRO 6 SYSTEMS MARK V CONTROLS

5040, 5840, 5858, AND 5880

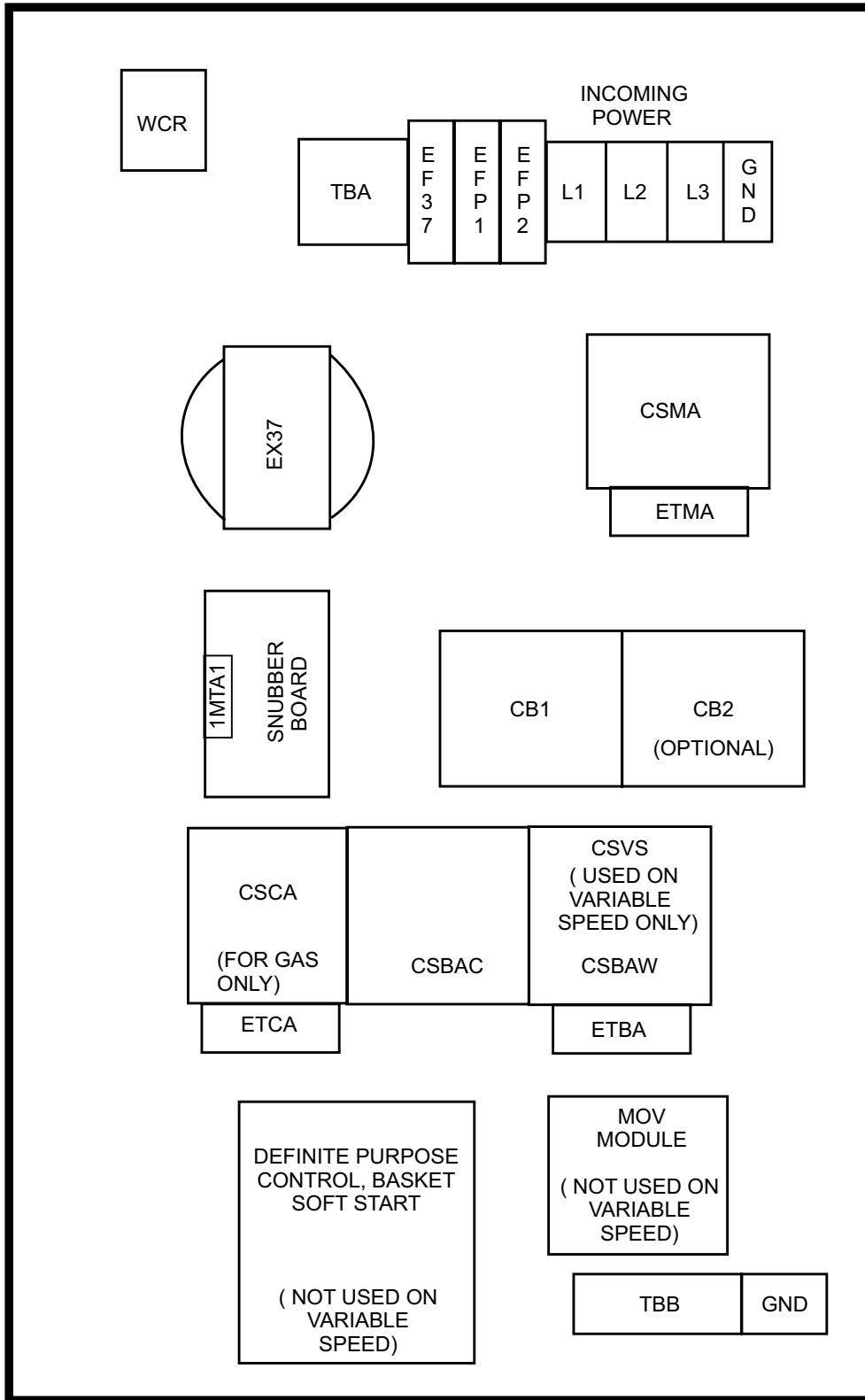
GAS DRYER LOW VOLTAGE PANEL

B2TAG97053
2001073G

PELLERIN MILNOR CORPORATION

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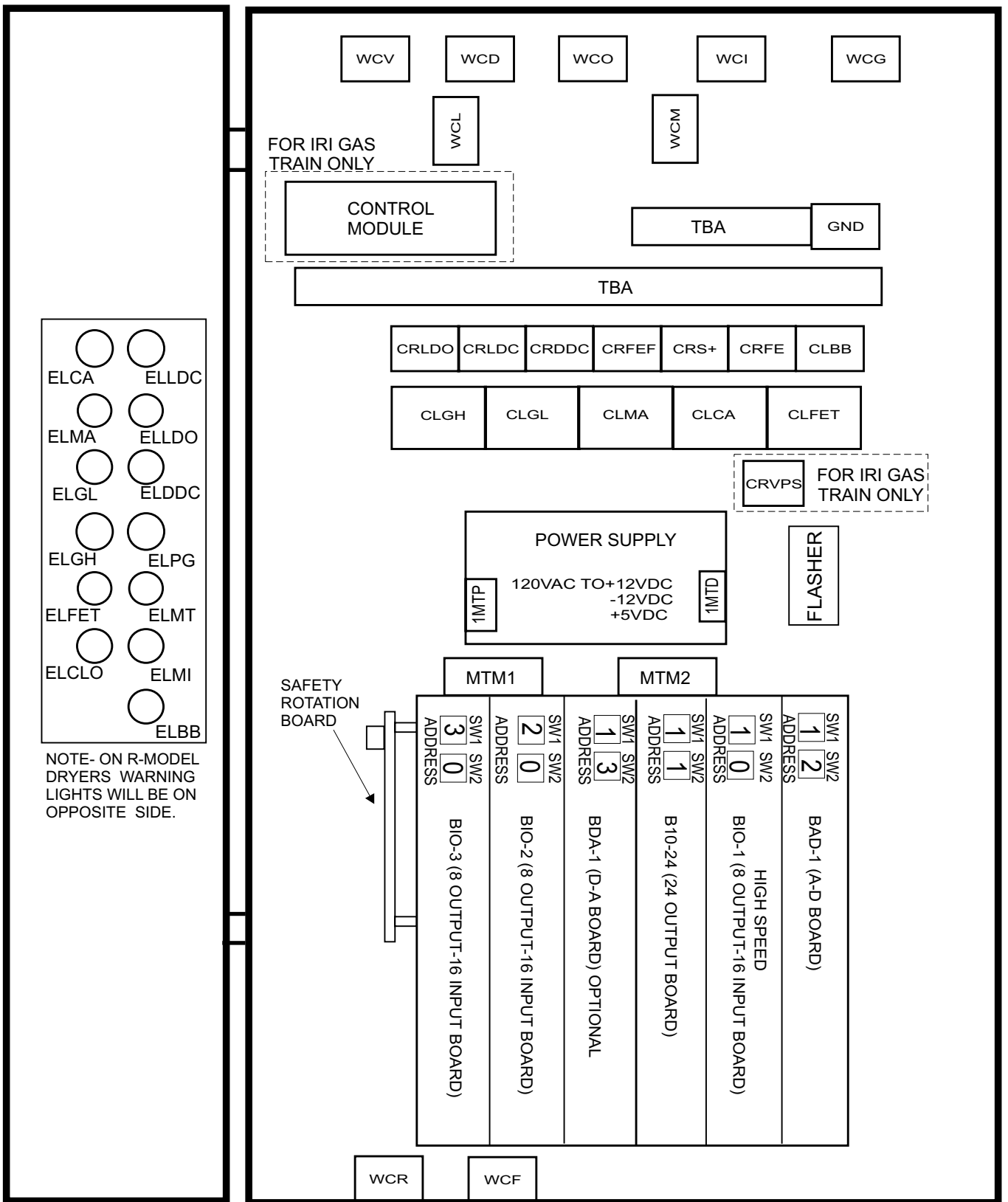
GAS DRYER MACHINE TAGS
PELLERIN MILNOR CORPORATION



MICRO 6 SYSTEMS MARK V CONTROLS 5040, 5840, 5858, AND 5880 HIGH VOLTAGE PANEL

PELLERIN MILNOR CORPORATION

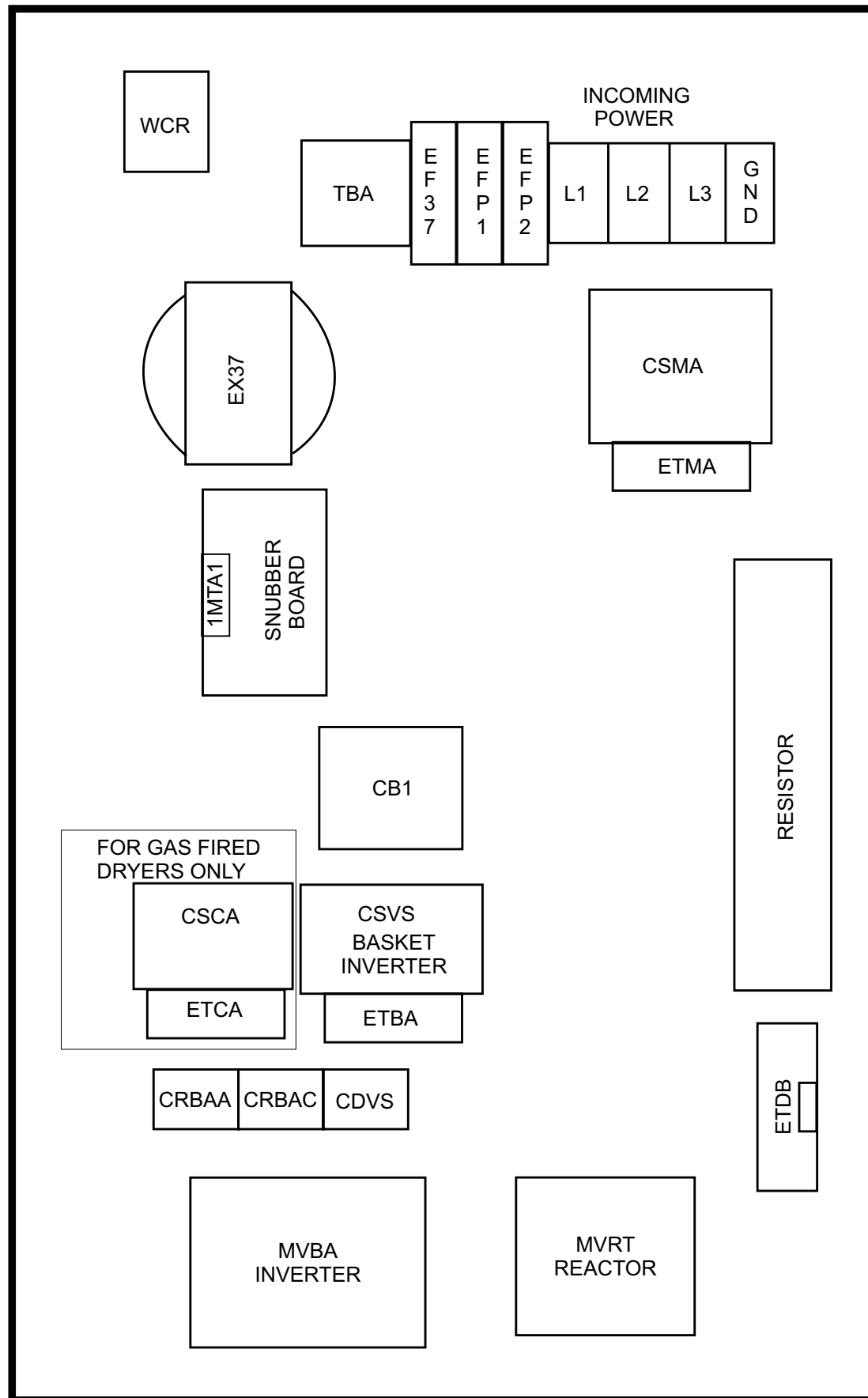
B2TAG97052
2001072G



MICRO 6 SYSTEMS MARK V CONTROLS 6458TG1L&R, 7272TG1L&R DRYER LOW VOLTAGE PANEL

B2T2002006
2009475A

PELLERIN MILNOR CORPORATION

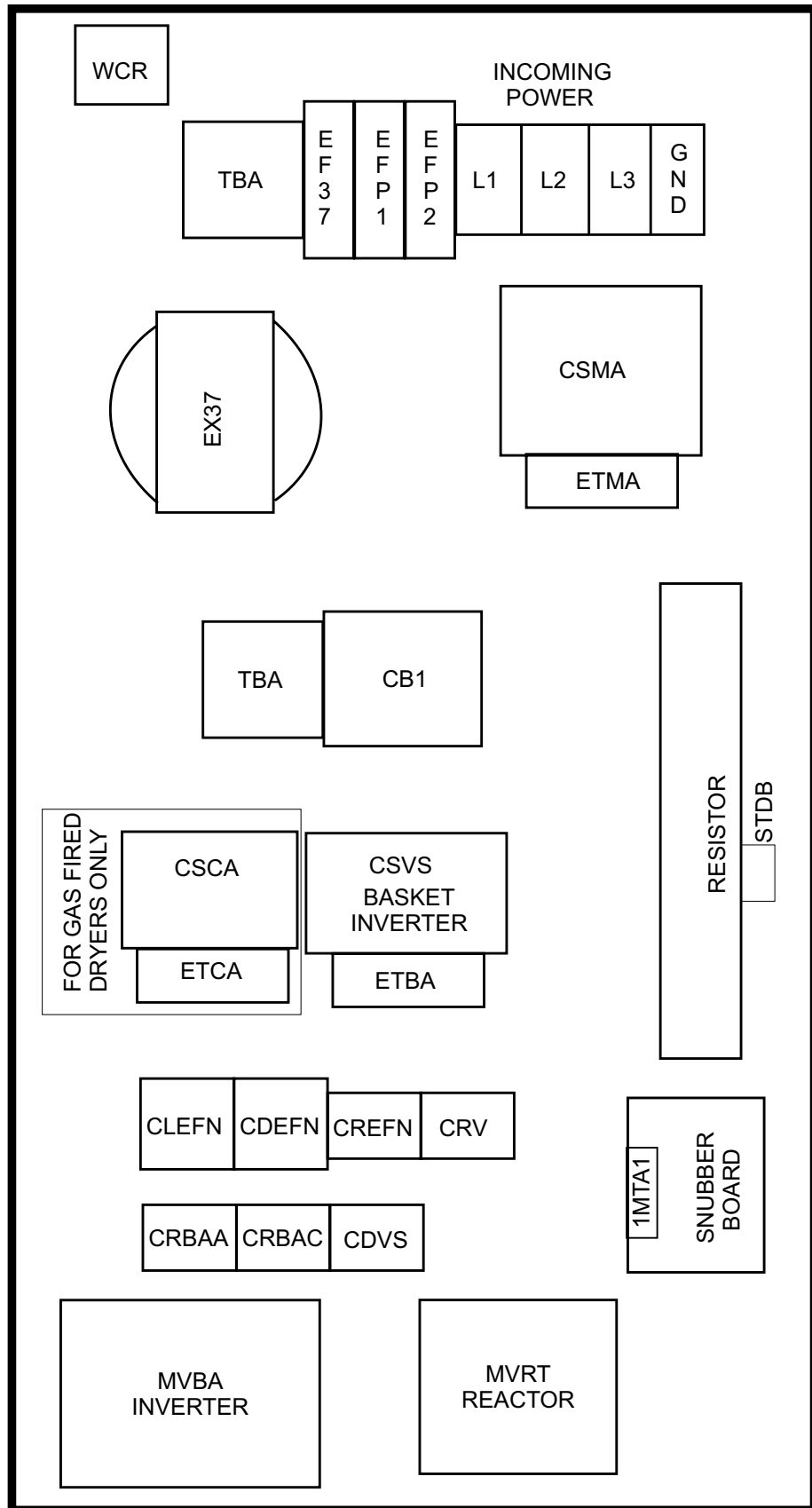


W6DR3FTG3

GAS DRYER MACHINE TAGS

PELLERIN MILNOR CORPORATION

MICRO 6 SYSTEM MARK V CONTROLS
64058 & 72072TG1L & R HIGH VOLTAGE
PANEL



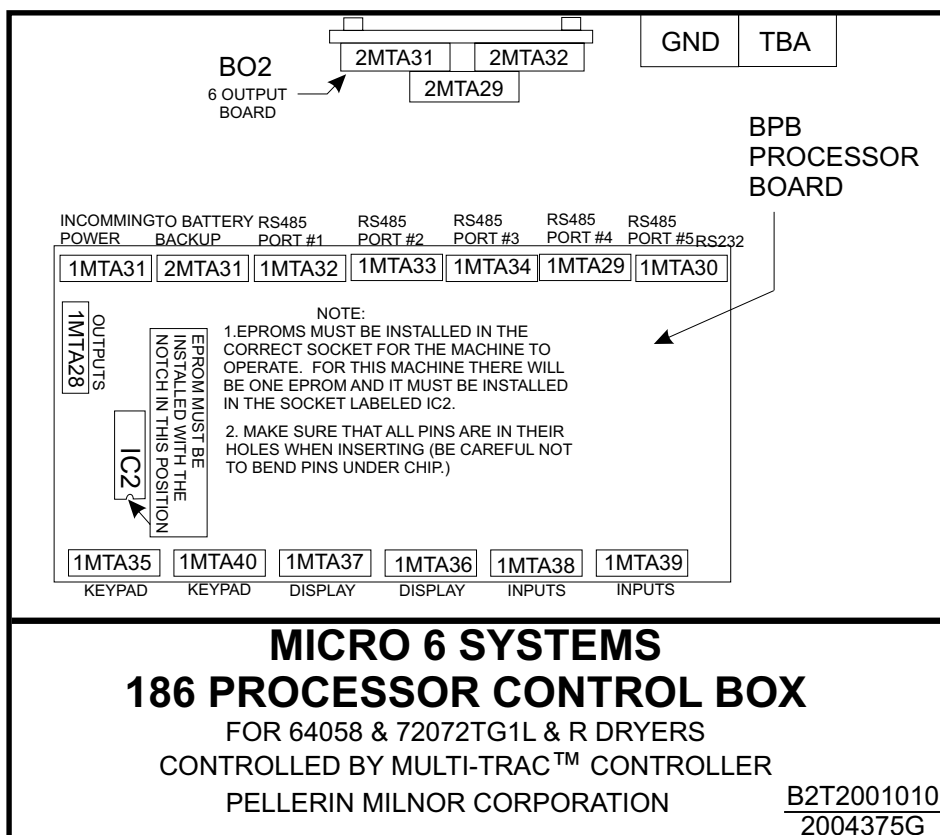
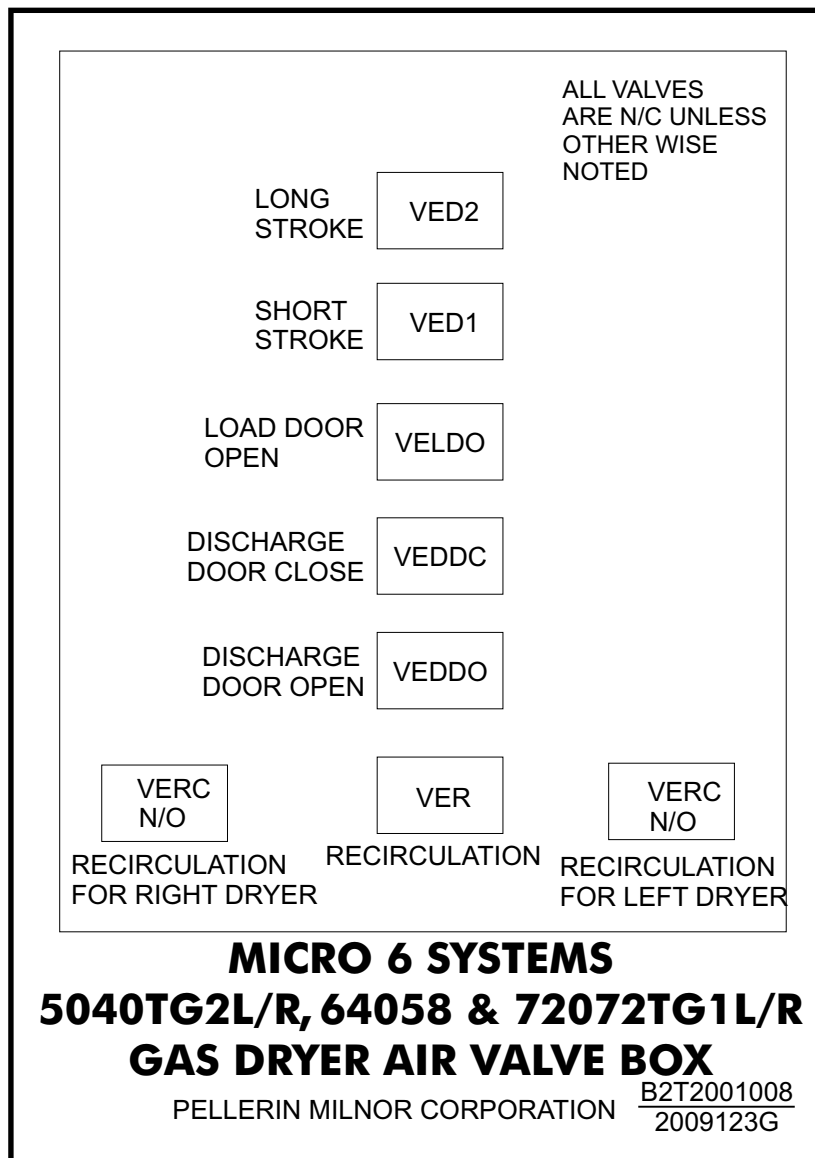
MICRO 6 SYSTEM MARK V CONTROLS 50040TG2L/R 50040TS2L/R HIGH VOLTAGE PANEL

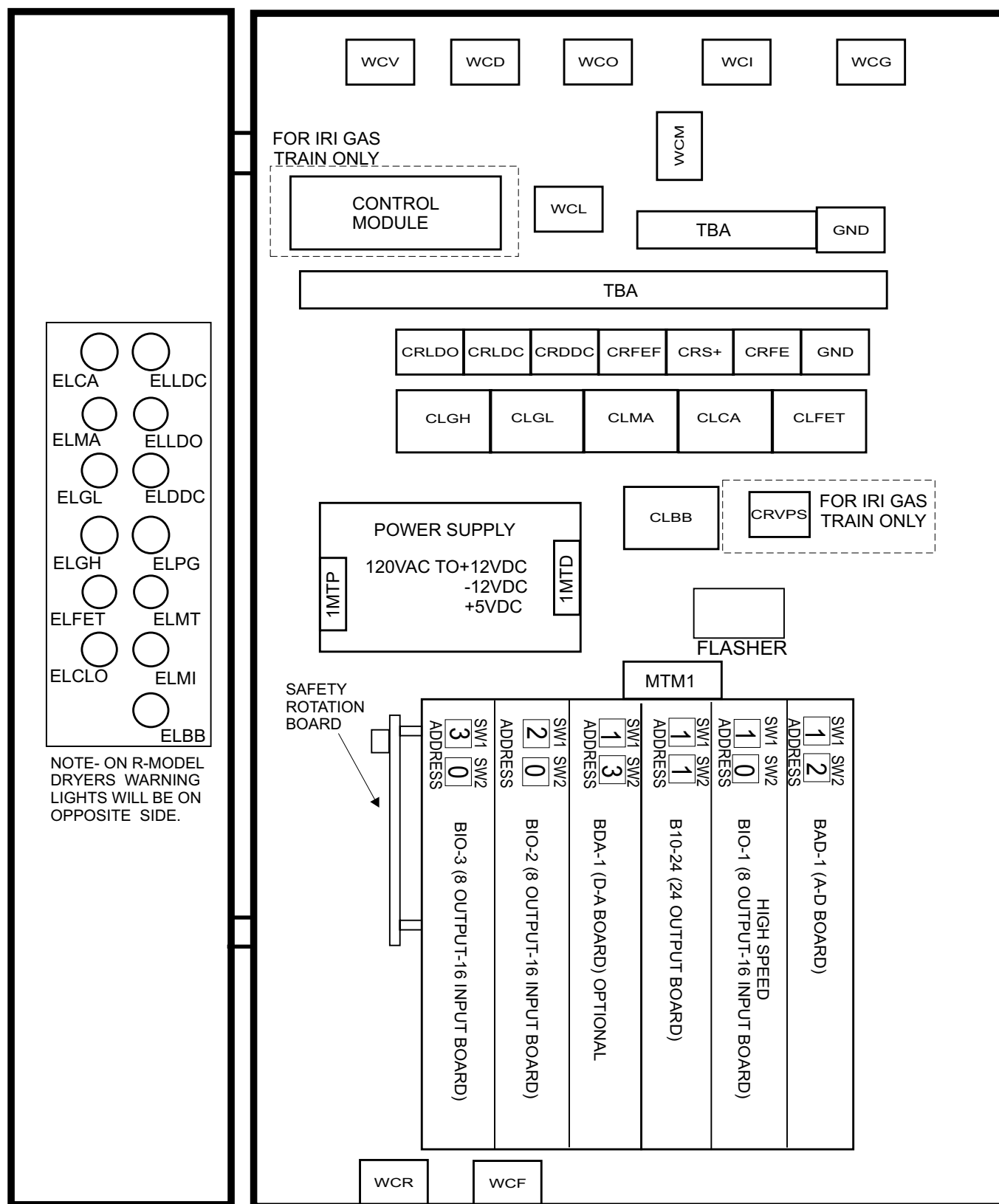
PELLERIN MILNOR CORPORATION

W6DR3FTG4

GAS DRYER MACHINE TAGS

PELLERIN MILNOR CORPORATION

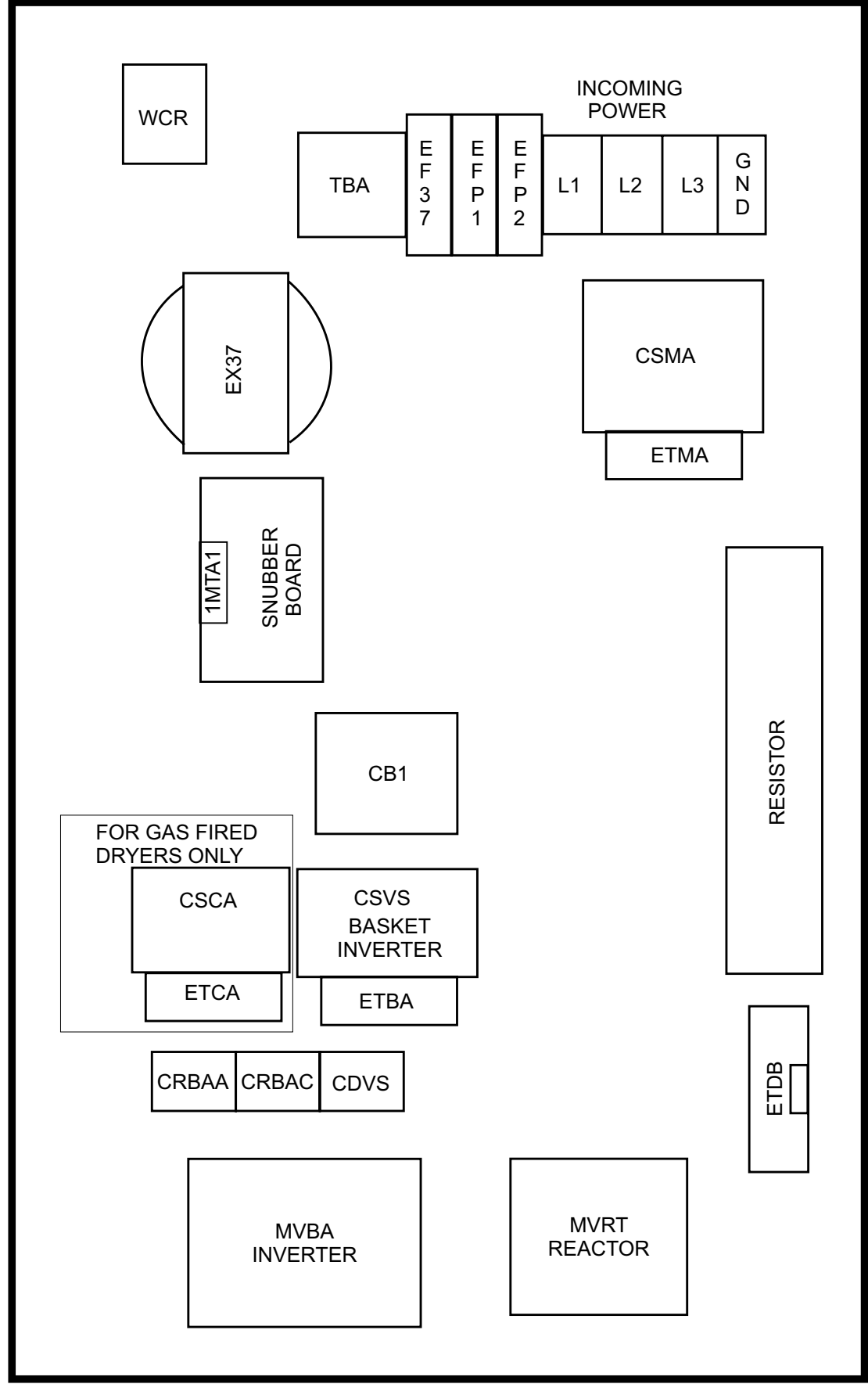




MICRO 6 SYSTEMS MARK V CONTROLS 6458TG1L&R, 7272TG1L&R DRYER LOW VOLTAGE PANEL

B2T2002006
2009345G

PELLERIN MILNOR CORPORATION



W6DR3FTG5
2009345B

W6DR3FTG5

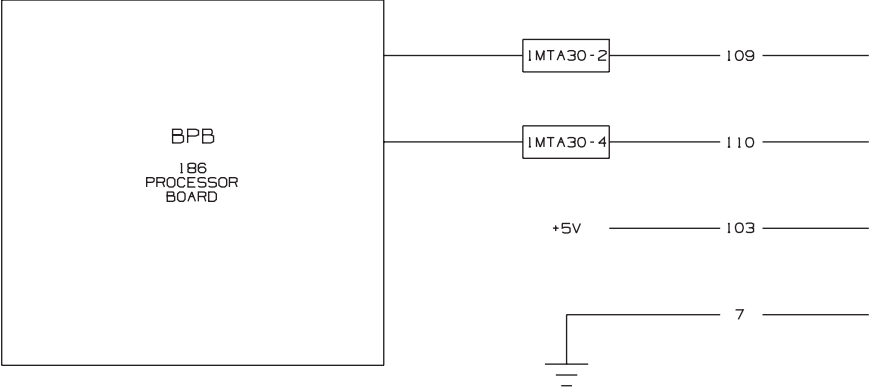
GAS DRYER MACHINE TAGS

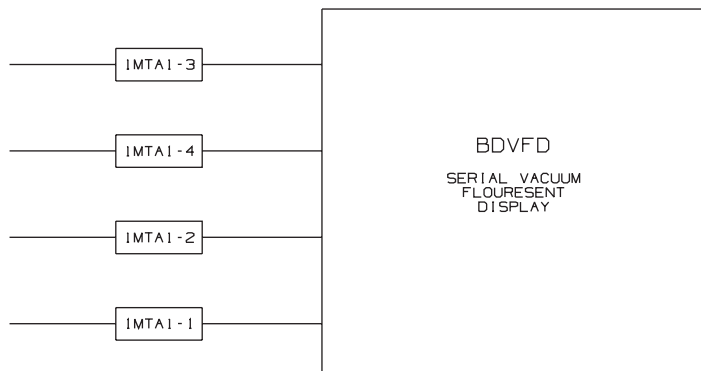
PELLERIN MILNOR CORPORATION

MICRO 6 SYSTEM MARK V CONTROLS
64058 & 72072TG1L & R HIGH VOLTAGE
PANEL

B2T2001009
2004375G

W6DR3FTG5
2009345B





NOTES

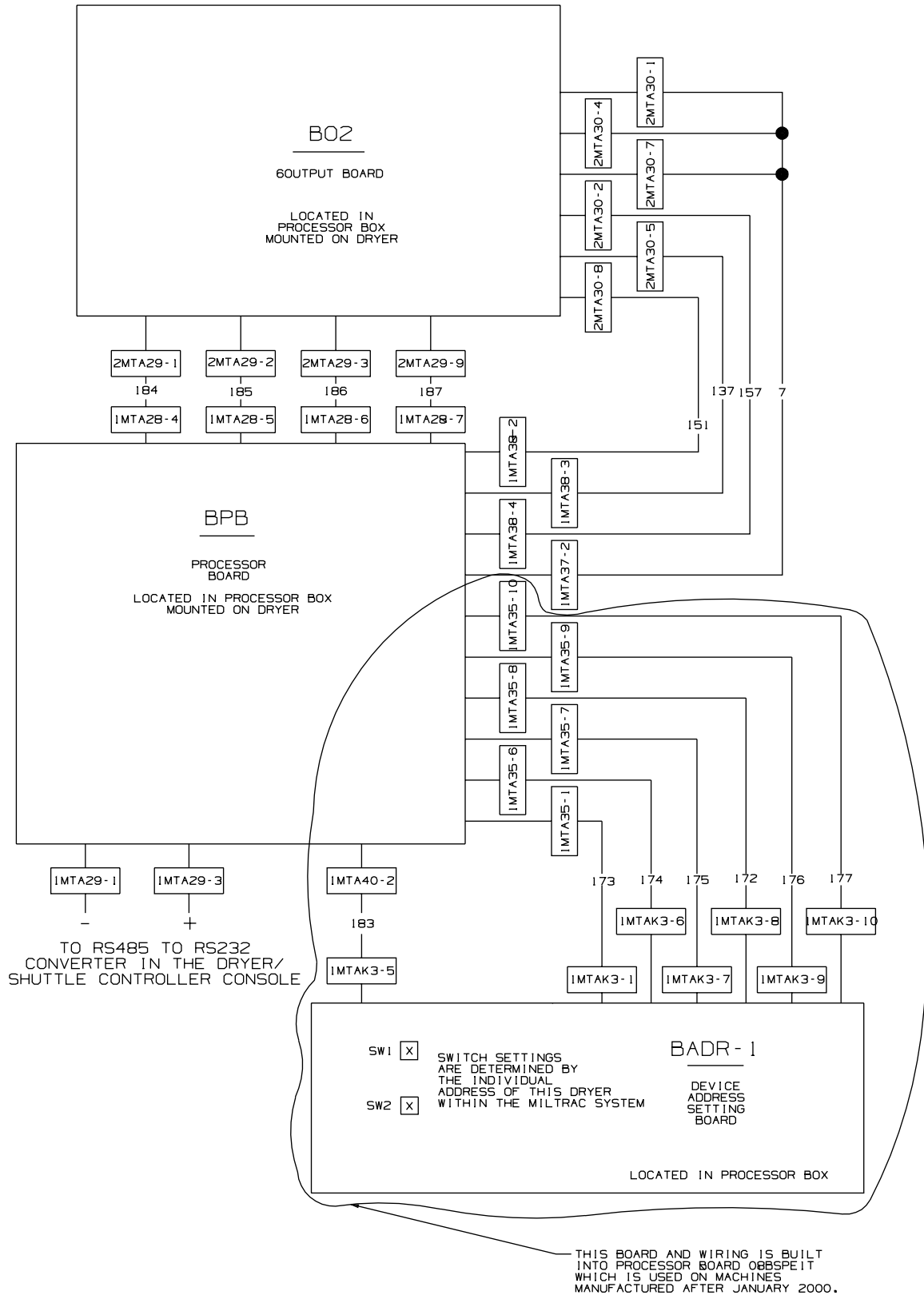
1. IMTA30 IS LOCATED ON BPB (PROCESSOR BOARD).
2. IMTA1 IS LOCATED ON DISPLAY BOARD.

W6DR3FD

MICRO 6 SYSTEMS SERIAL CONTROLS MARK V

SCHEMATIC: DISPLAY

PELLERIN MILNOR CORPORATION

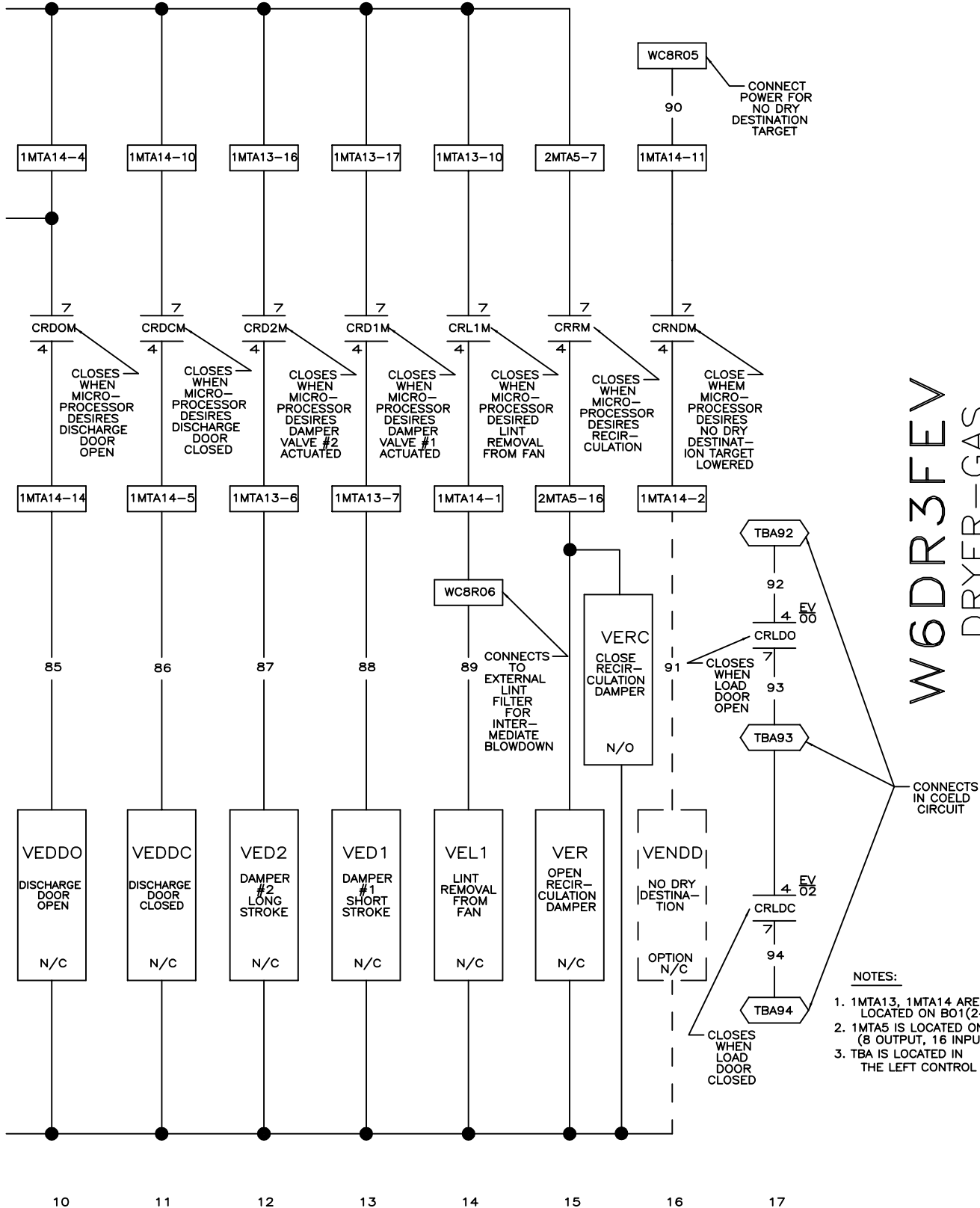


NOTE:
WHEN A DRYER IS CONTROLLED BY A DRYER/
SHUTTLE CONTROLLER RATHER THAN AN INDIVIDUAL
DRYER CONTROLLER, THIS SCHEMATIC REPLACES
W6DR3FD, W6DR3FKP AND THE DIRECT INPUTS FOR
LOAD ALLOWED, MILDATA, AND PROGRAM KEY AS
SHOWN ON W6DR3F11

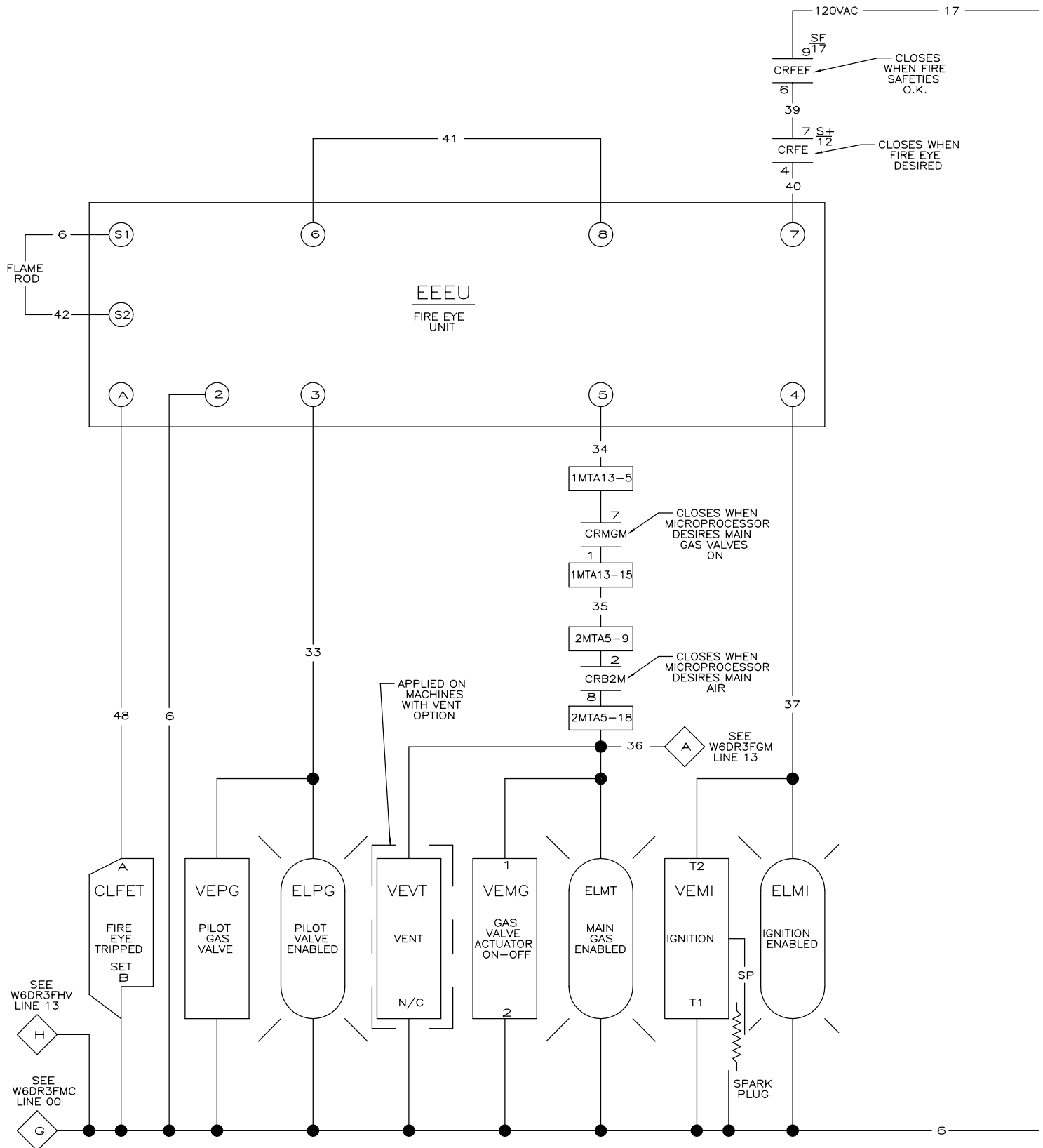
W6DR3FDC

DRYER - GAS
MICRO 6 SYSTEMS
SCHEMATIC; BOARD WIRING FOR INTERFACE WITH
DRYER/SHUTTLE CONTROLLER
PELLERIN MILNOR CORPORATION



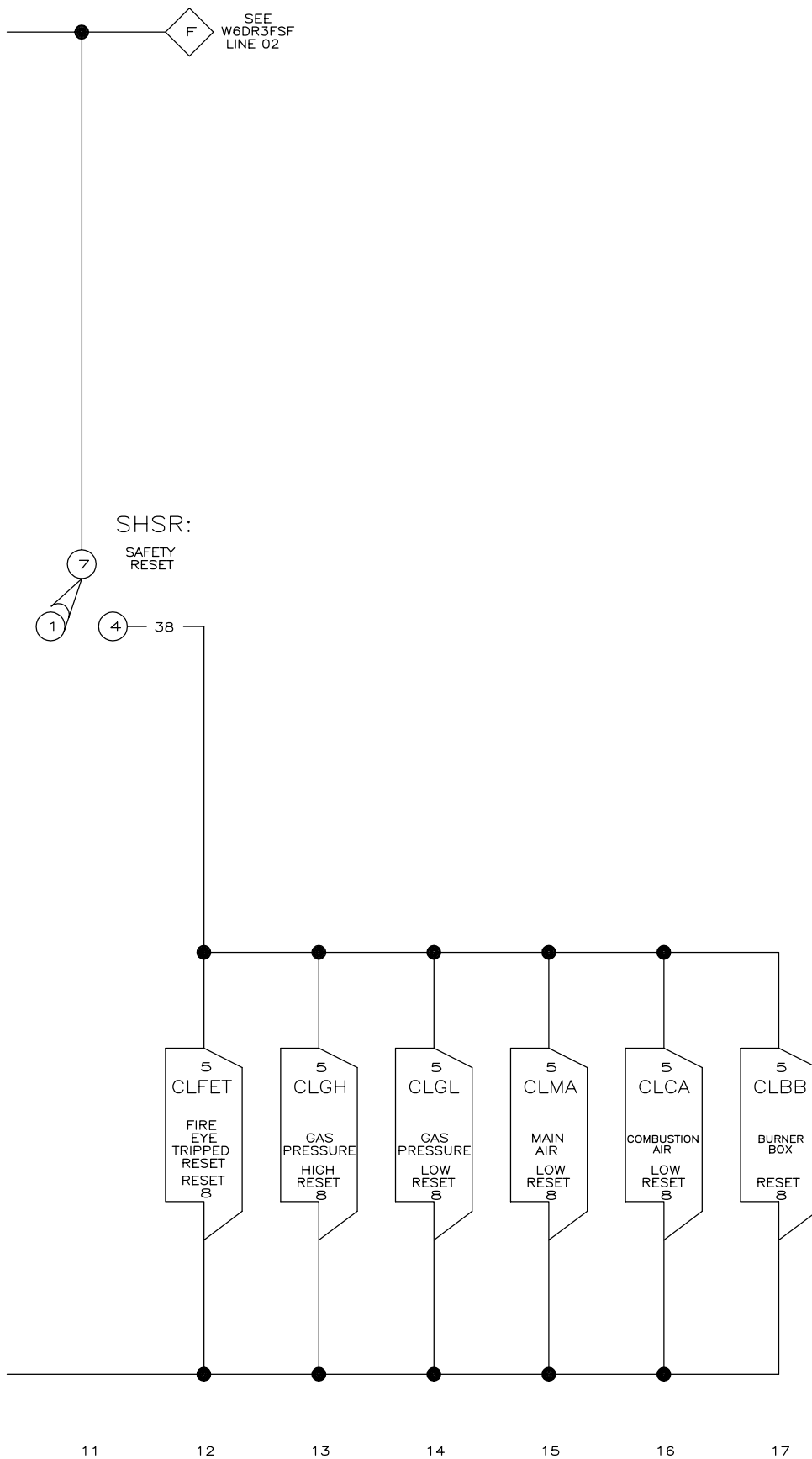


1107
MC01

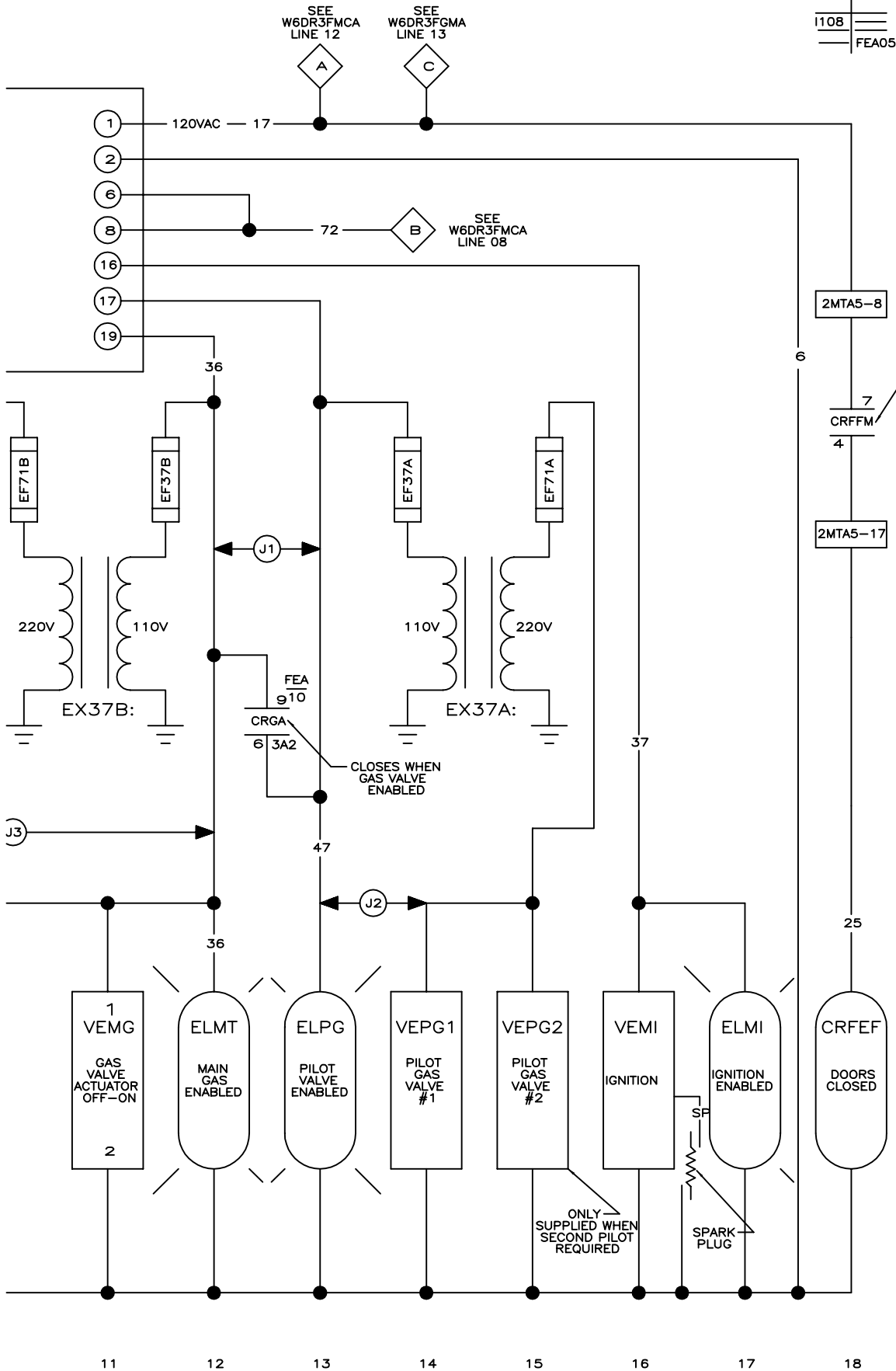


SEE W6DR3FHV LINE 13

SEE W6DR3FMC LINE 00



W6DR3FFE
 DRYER-GAS
 MICRO 6 SYSTEMS MARK V
 SCHEMATIC: FIRE EYE UNIT
 110V1P50HZ/120V1P60HZ
 DO NOT USE WITH LANDIS & GYR
 FIRE CONTROLLER
 PELLERIN MILNOR CORPORATION

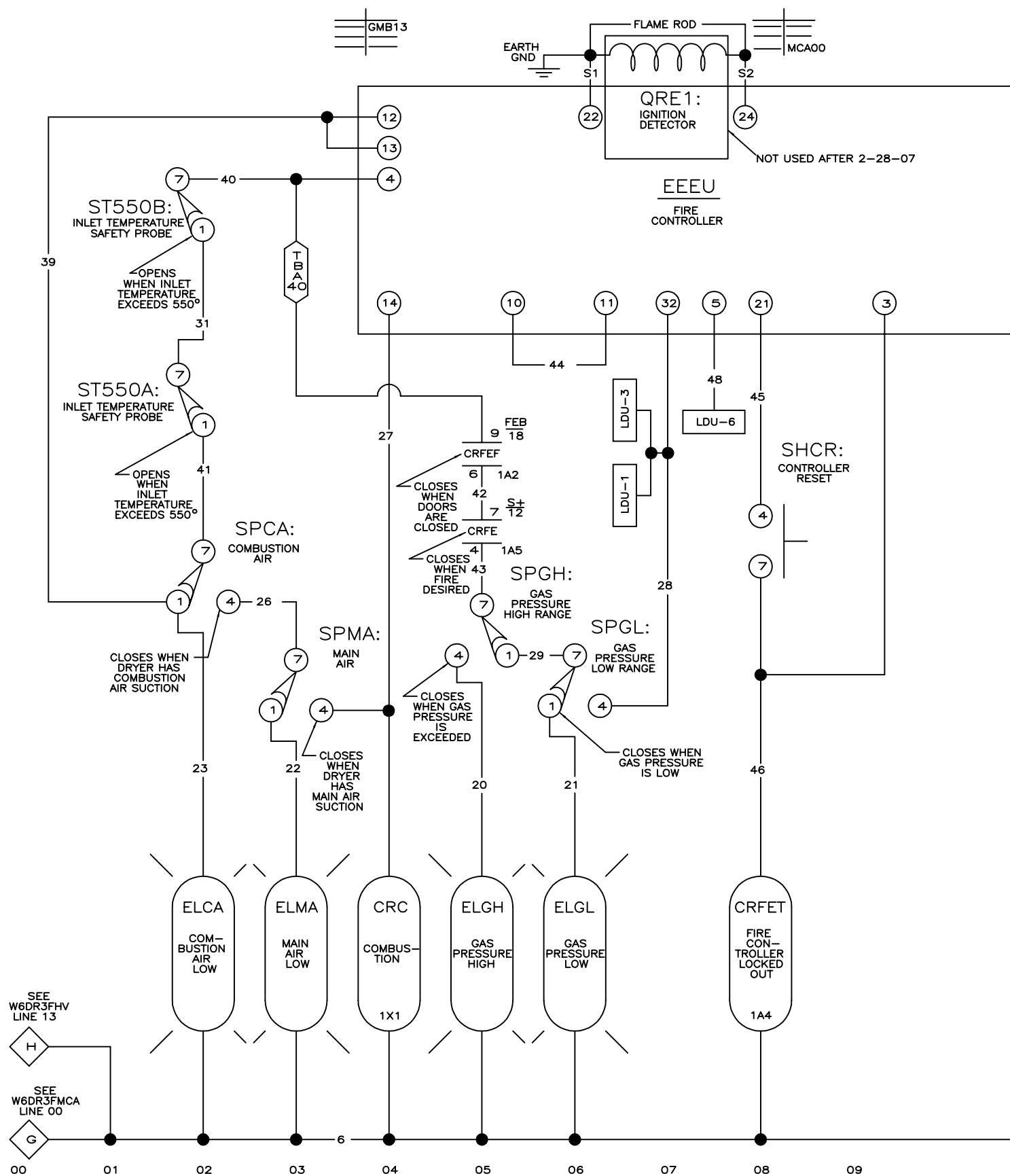


W6DR3FFEA MARK V

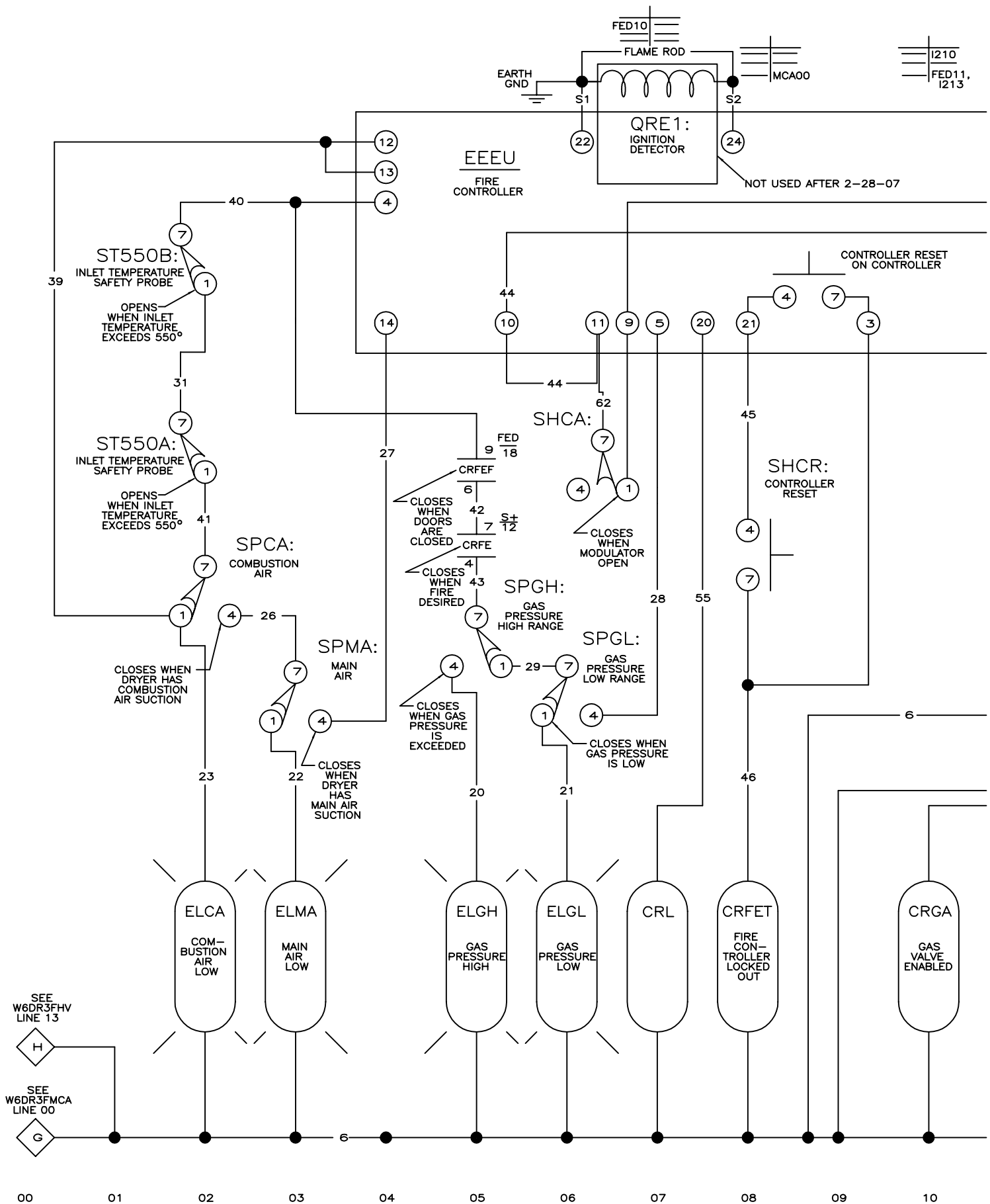
MICRO 6 SYSTEMS SCHEMATIC: FIRE CONTROLLER MODIFIED FOR LANDIS & GYR FIRE CONTROLLER HONEYWELL AND DUNGS GAS TRAIN 110V1P50HZ/120V1P60HZ PELLERIN MILNOR CORPORATION

NOTES:

1. ADD (J1) FOR AUSTRALIAN SPECIFICATIONS.
2. REMOVE (J2) & (J3) FOR 220V VALVES.
3. USE THIS SCHEMATIC FOR DUNGS GAS TRAIN FOR DUTCH.

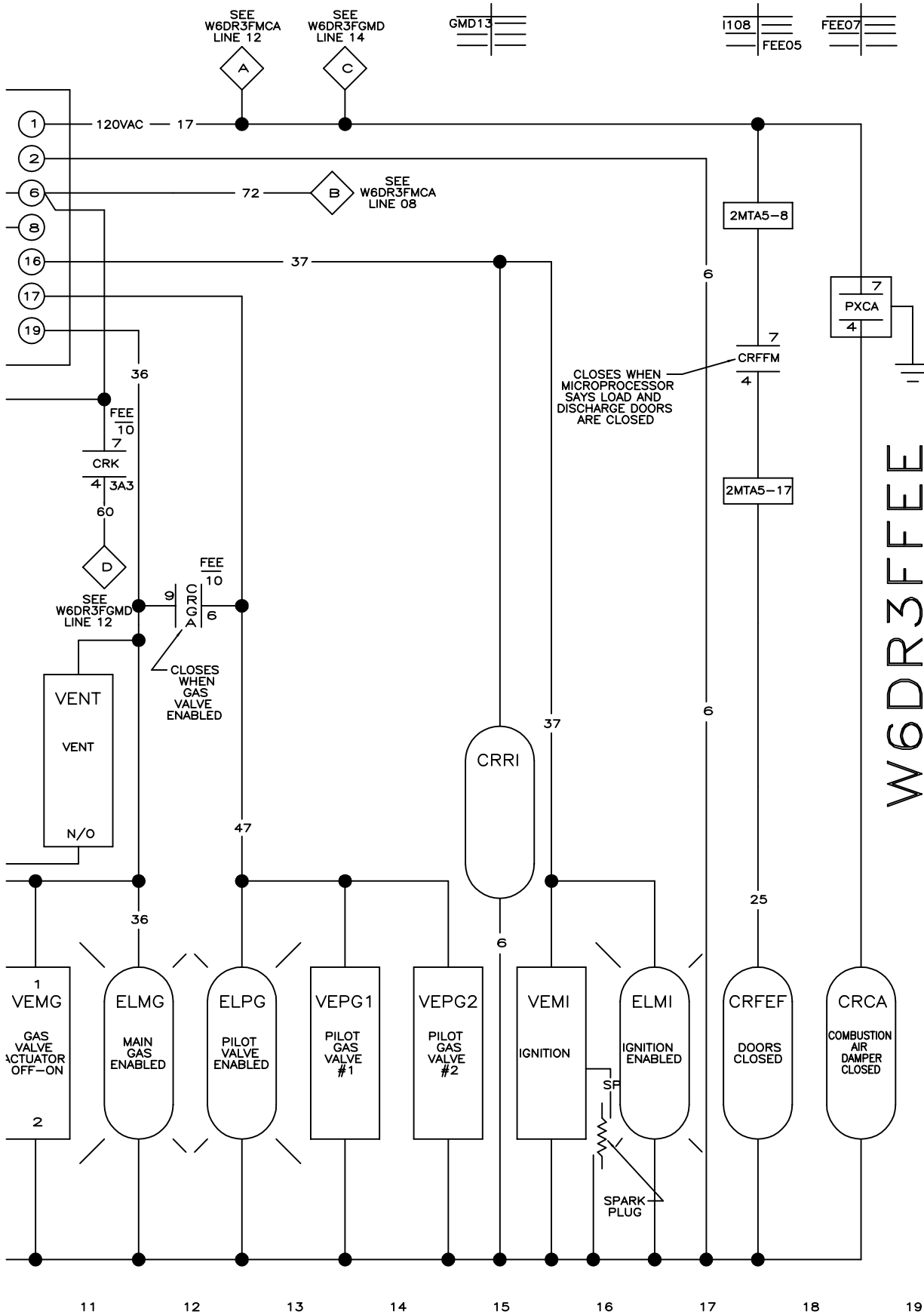








MICRO 6 SYSTEMS
SCHEMATIC: FIRE CONTROLLER
REPLACES W6DR3FFEA FOR DUTCH SPECIFICATIONS, HONEYWELL GAS TRAIN
FOR 72072 ONLY
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



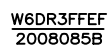
W6DR3FEE

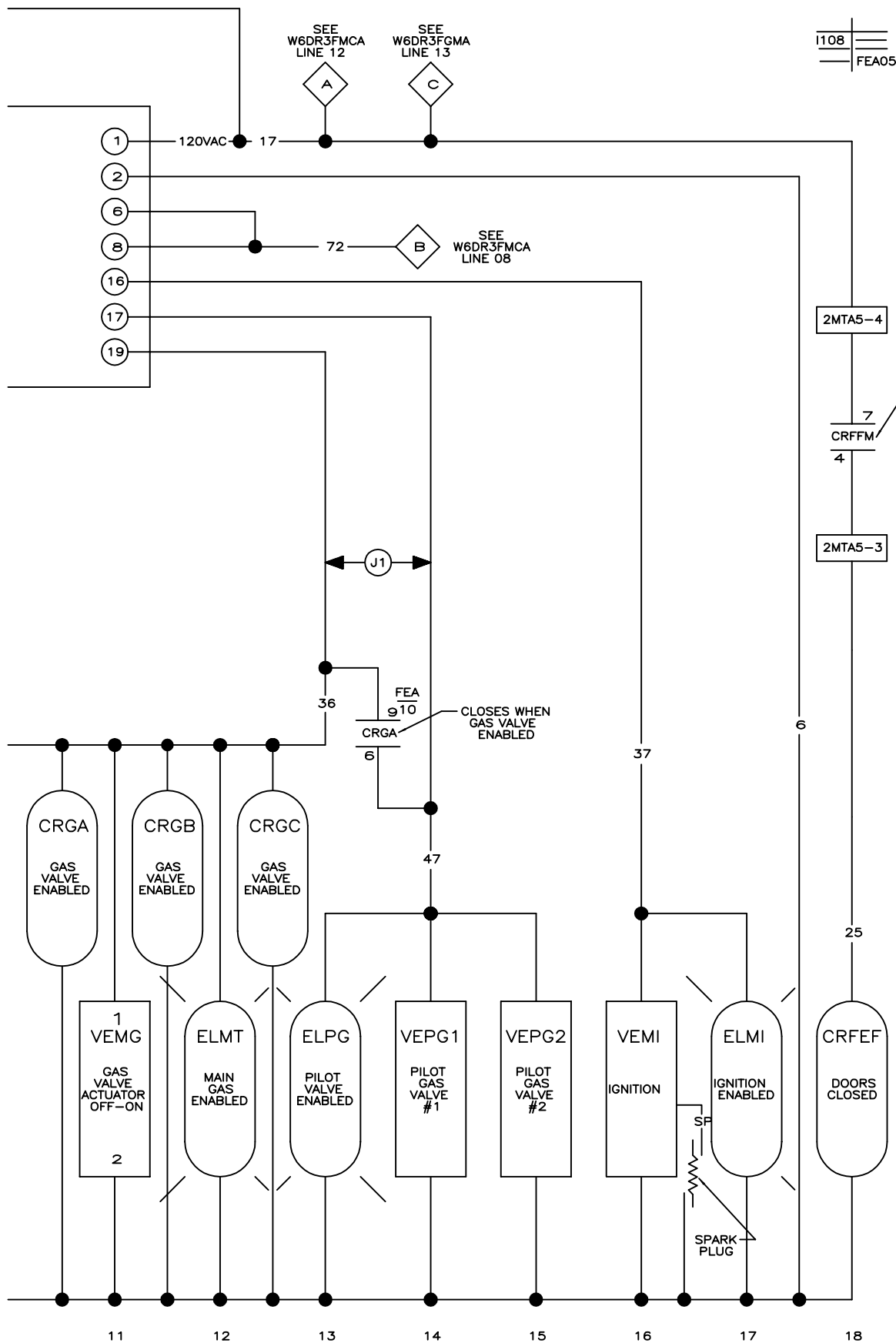
MARK V

MICRO 6 SYSTEMS

SCHEMATIC: FIRE CONTROLS HONEYWELL GAS TRAIN

REPLACES W6DRYGFEF FOR DUTCH SPECIFICATIONS HONEYWELL GAS TRAIN
ON 58040, 58058 AND 58080 ONLY
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

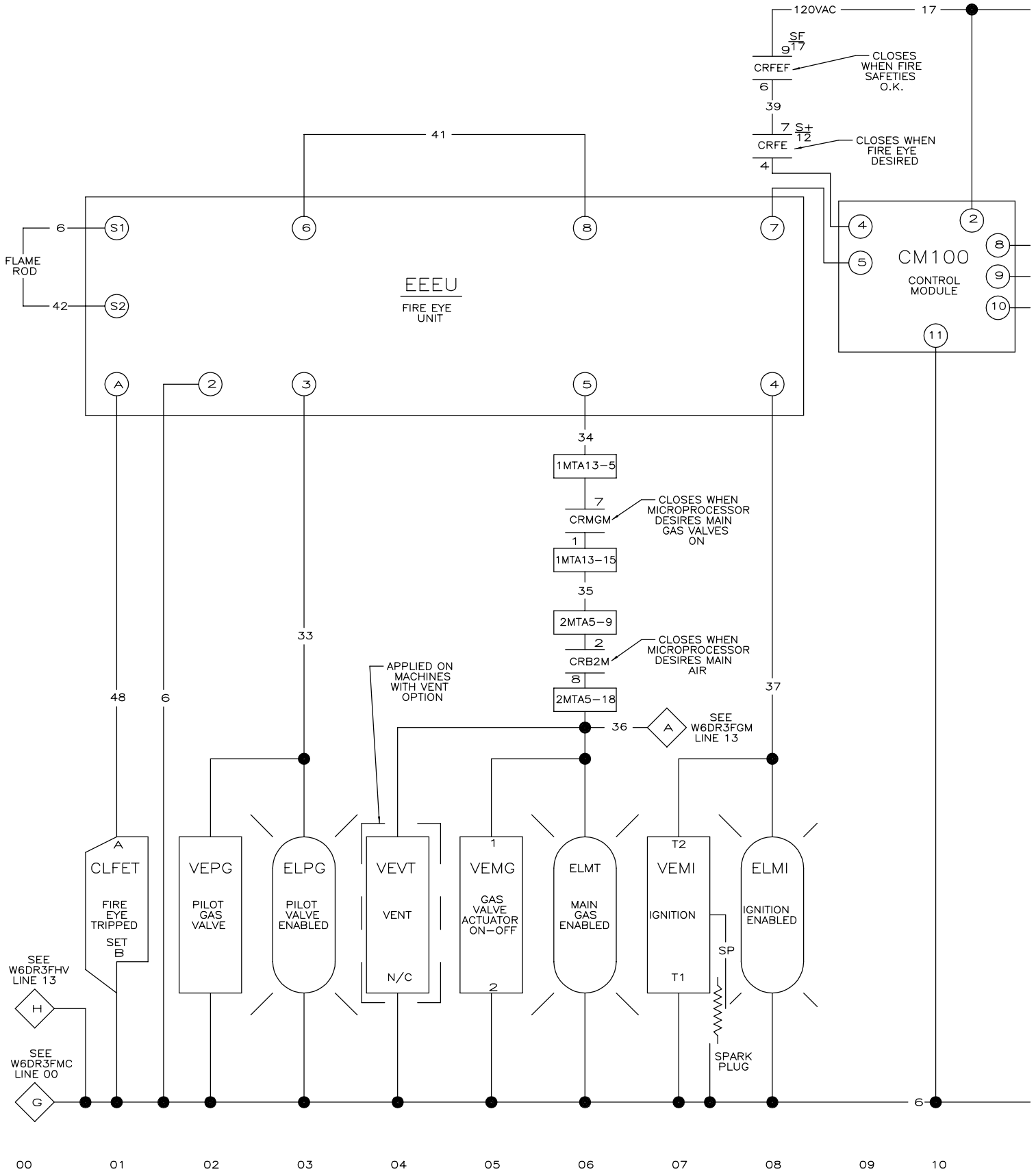


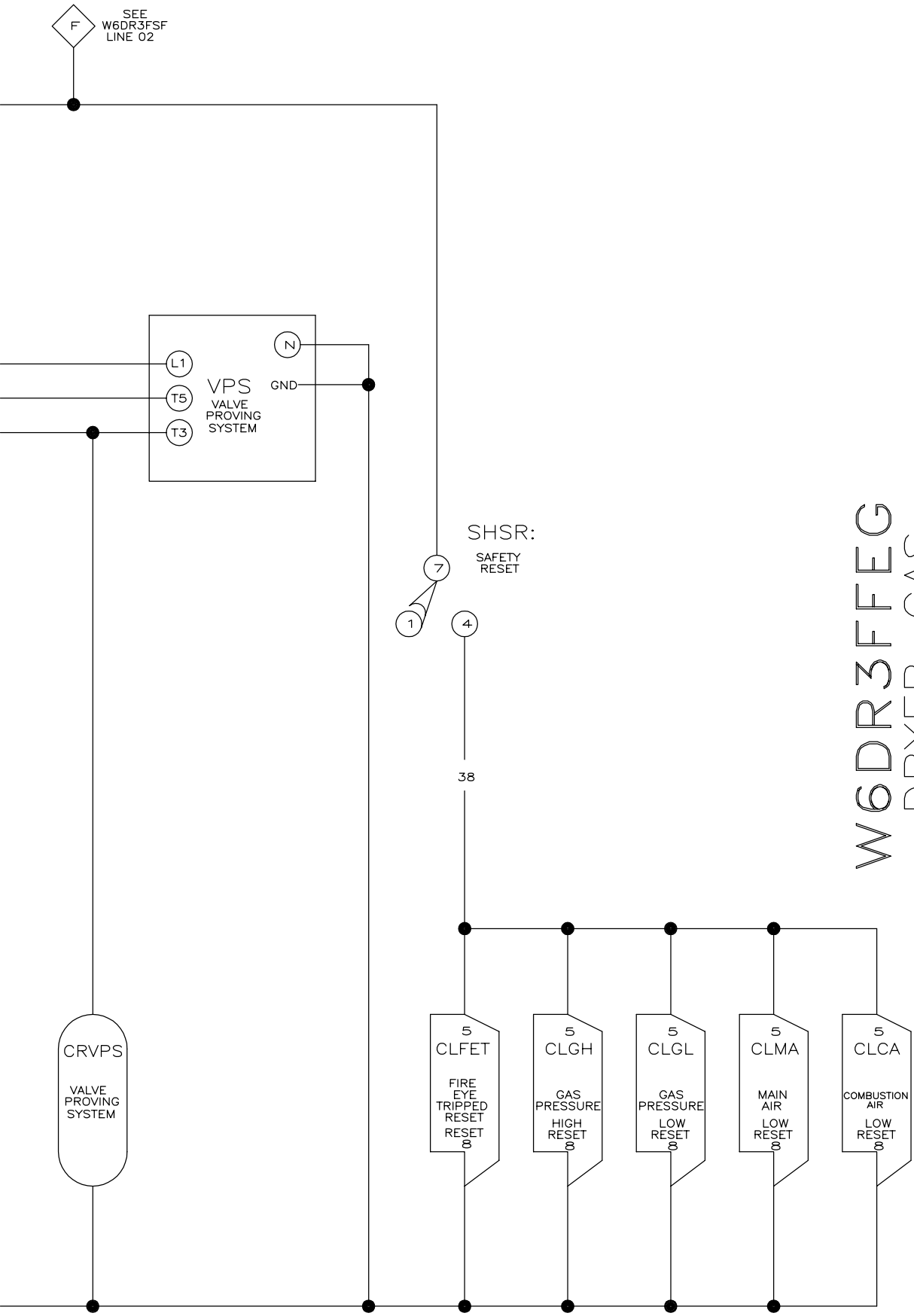


NOTES:
1. ADD (J1) FOR AUSTRALIAN SPECIFICATIONS.

W6DR3FFEF
MARK V
MICRO 6 SYSTEMS
SCHEMATIC: FIRE CONTROLLER HONEYWELL GAS TRAIN
MODIFIED FOR POLY FRANCE L&G FIRE CONTROLLER HONEYWELL GAS TRAIN
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

1107
MC01

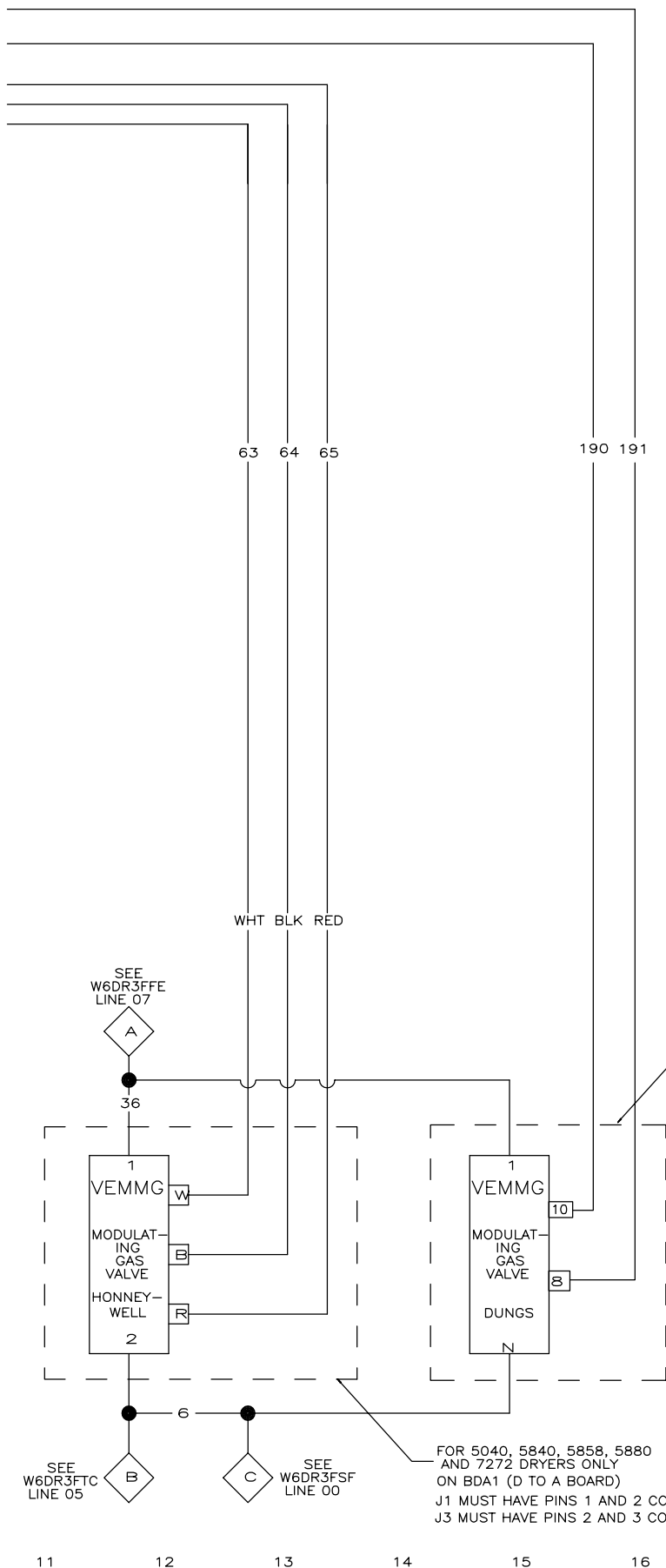




W6DR3FFEG
DRYER-GAS
MICRO 6 SYSTEMS MARK V
SCHEMATIC: FIRE EYE UNIT FOR IRI
110V1P50HZ/120V1P60HZ
DO NOT USE WITH LANDIS & GYR
FIRE CONTROLLER
PELLERIN MILNOR CORPORATION

W6DR3FFEG
2011453B

W6DR3FFEG
2011453B



WIRE COLORING CODE		
WIRE NO.	VOLTAGE	WIRE COLOR
103	+5V	BLUE
104	+12V	BLUE/ORANGE
105	-12V	BLUE/BLACK
7	GND	BLUE/WHITE
107	SERIAL HIGH	BLUE/RED
106	SERIAL LOW	BLUE/BLACK
—	120VAC	RED
6	CONTROL GROUND	RED/WHITE

W6DR3FGM

GAS-DRYER

MICRO 6 SYSTEMS MARK V

SCHEMATIC: BOARD TO BOARD WIRING

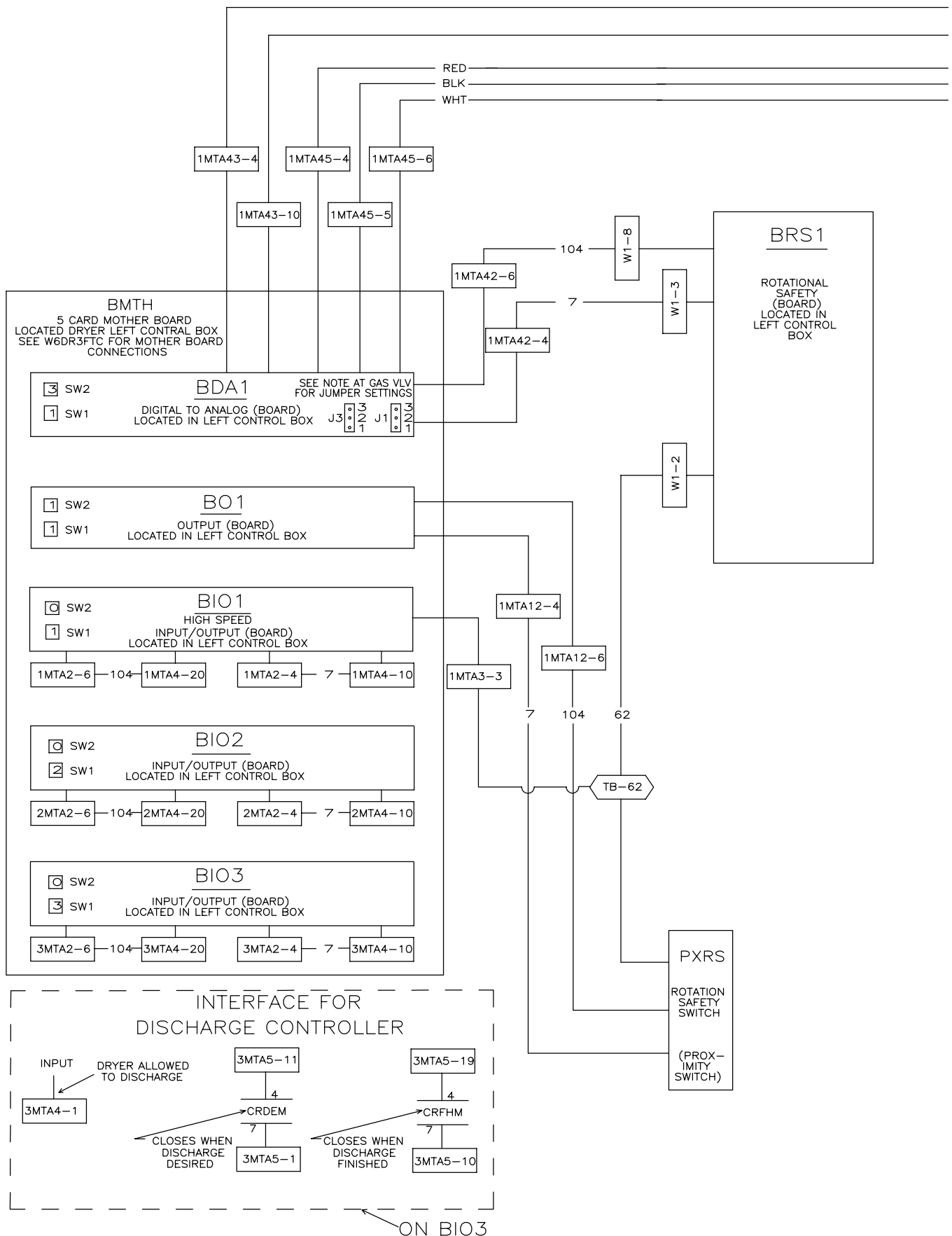
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

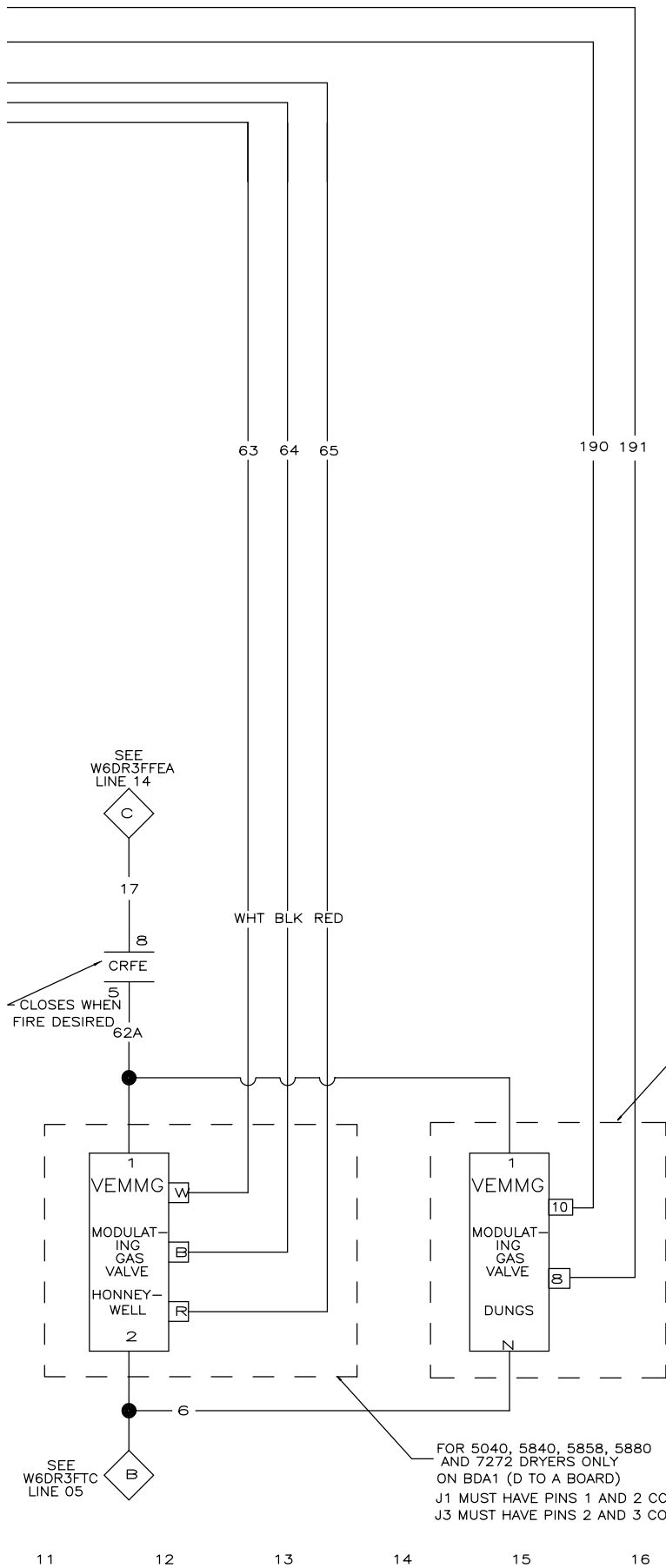
FOR 5040 TG2 L/R, 7272 TG2 L/R
AND 6458 TG1 L/R
ON BDA1 (D TO A BOARD)
J3 MUST HAVE PINS 1 AND 2 CONNECTED.

NOTES:

1. IMTA42, IMTA45 ARE LOCATED ON BDA1 (DIGITAL TO ANALOG BOARD).
2. IMTA4 IS LOCATED ON BIO1 (8 OUTPUT, 16 INPUT BOARD).
3. W1 IS LOCATED ON BRS1 (ROTATIONAL SAFETY BOARD).
4. 2MTA1 IS LOCATED ON BIO2 (8 OUTPUT, 16 INPUT BOARD).

FOR 5040, 5840, 5858, 5880
AND 7272 DRYERS ONLY
ON BDA1 (D TO A BOARD)
J1 MUST HAVE PINS 1 AND 2 CONNECTED.
J3 MUST HAVE PINS 2 AND 3 CONNECTED.





WIRE COLORING CODE		
WIRE NO.	VOLTAGE	WIRE COLOR
103	+5V	BLUE
104	+12V	BLUE/ORANGE
105	-12V	BLUE/BLACK
7	GND	BLUE/WHITE
107	SERIAL HIGH	BLUE/RED
106	SERIAL LOW	BLUE/BLACK
—	120VAC	RED
6	CONTROL GROUND	RED/WHITE

W6DR3FGMA

GAS-DRYER

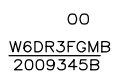
MICRO 6 SYSTEMS MARK V SCHEMATIC: BOARD TO BOARD WIRING MODIFIED FOR LANDIS & GYR FIRE CONTROLLER

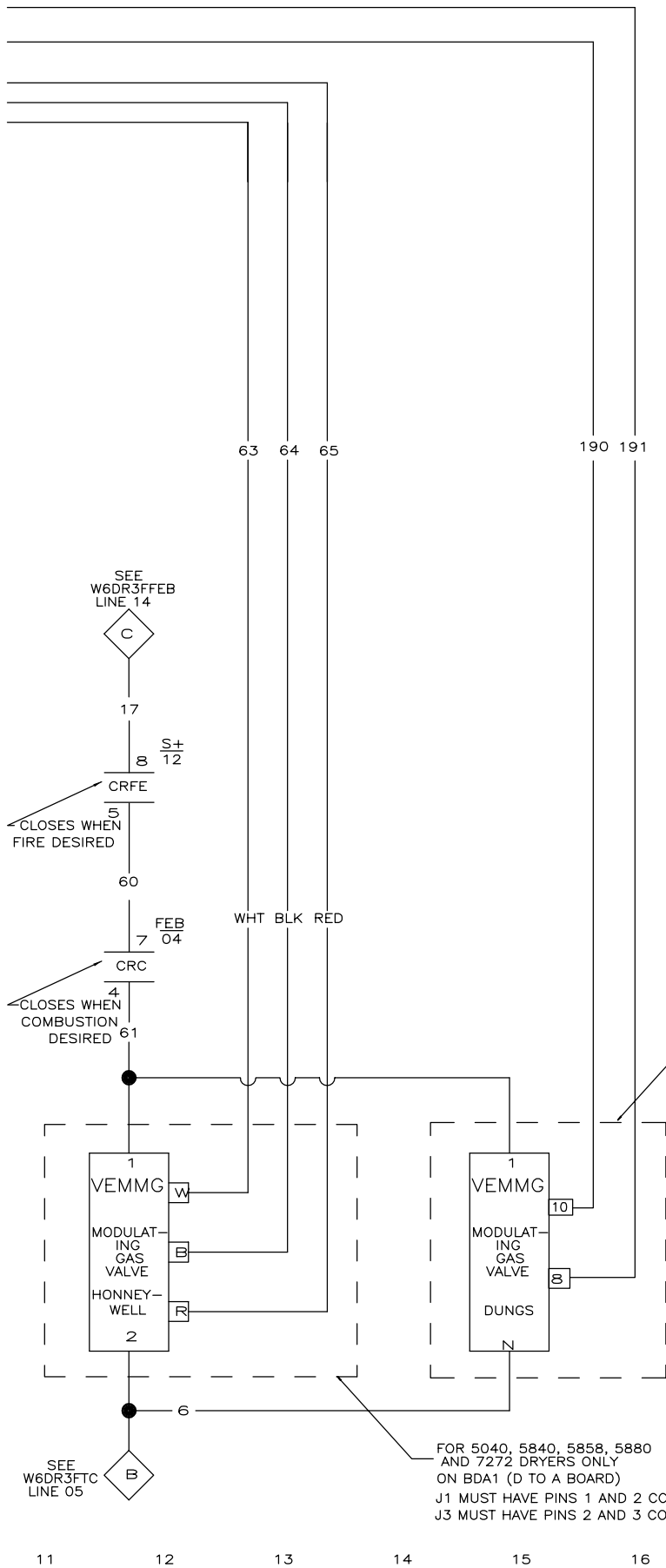
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. IMTA42, IMTA45 ARE LOCATED ON BDA1 (DIGITAL TO ANALOG BOARD).
2. IMTA4 IS LOCATED ON BIO1 (8 OUTPUT, 16 INPUT BOARD).
3. W1 IS LOCATED ON BRS1 (ROTATIONAL SAFETY BOARD).
4. 2MTA1 IS LOCATED ON BIO2 (8 OUTPUT, 16 INPUT BOARD).

W6DR3FGMA
2009424B





WIRE COLORING CODE		
WIRE NO.	VOLTAGE	WIRE COLOR
103	+5V	BLUE
104	+12V	BLUE/ORANGE
105	-12V	BLUE/BLACK
7	GND	BLUE/WHITE
107	SERIAL HIGH	BLUE/RED
106	SERIAL LOW	BLUE/BLACK
-	120VAC	RED
6	CONTROL GROUND	RED/WHITE

W6DR3FGMB

GAS-DRYER

MICRO 6 SYSTEMS MARK V

SCHEMATIC: BOARD TO BOARD WIRING

MODIFIED FOR BELGIUM SPECIFICATIONS HONEYWELL GAS TRAIN

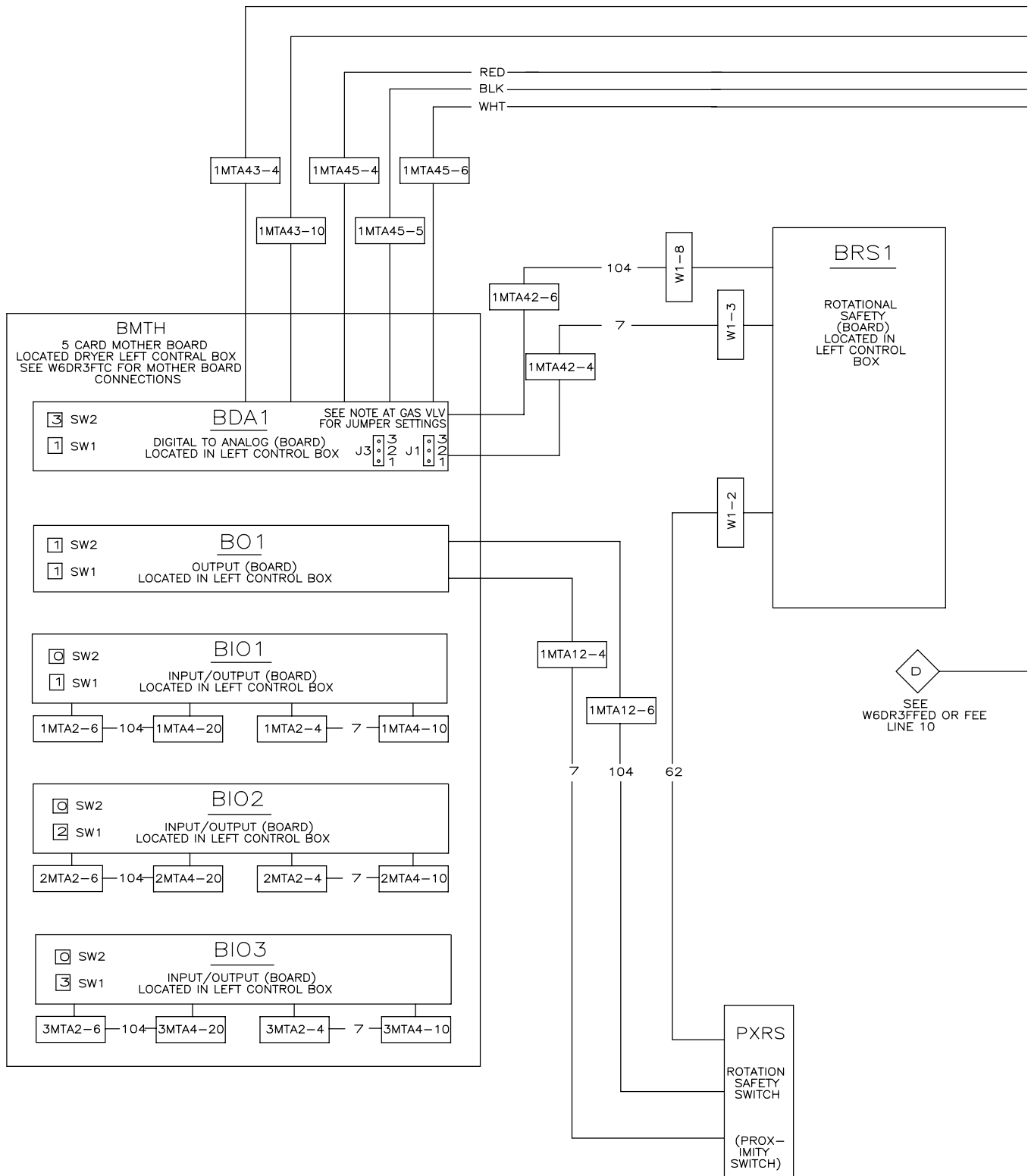
110V1P50HZ/120V1P60HZ

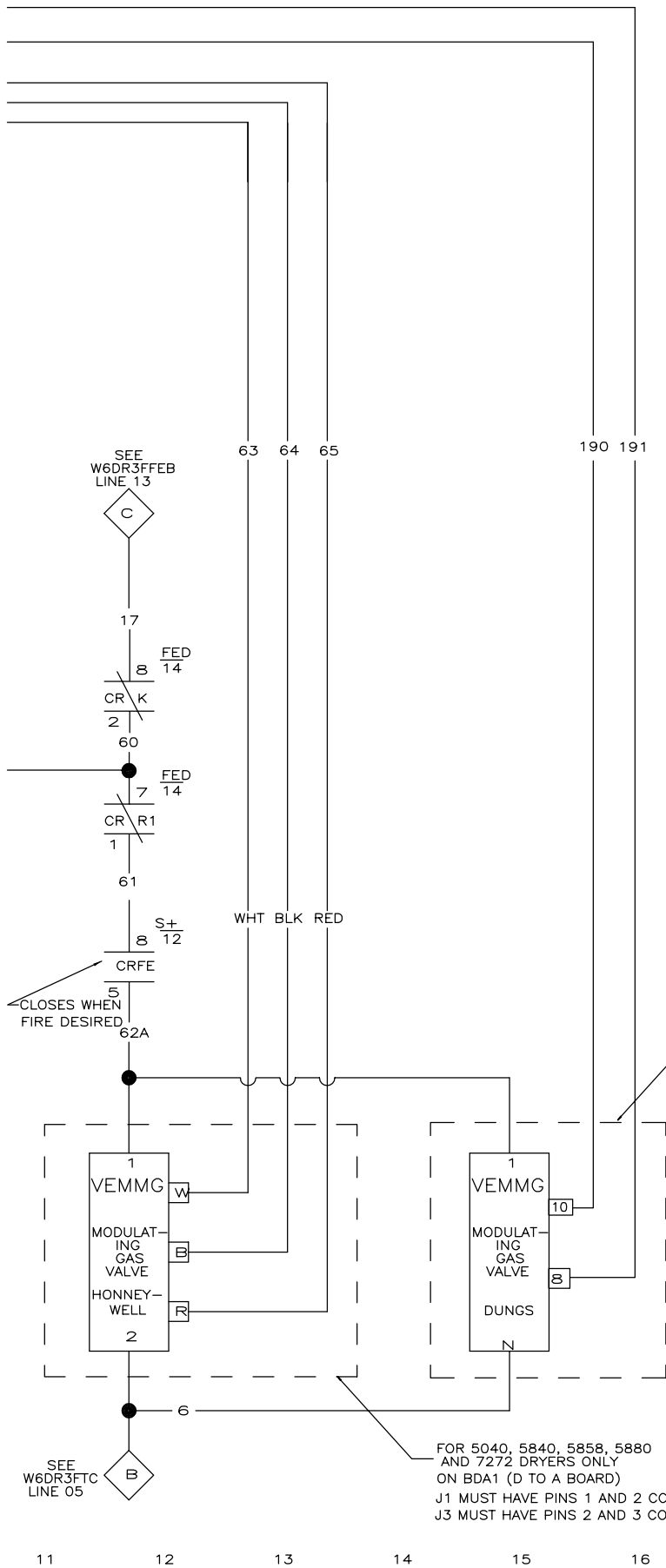
PELLERIN MILNOR CORPORATION

W6DR3FGMB
2009345B

NOTES:

1. IMTA42, IMTA45 ARE LOCATED ON BDA1 (DIGITAL TO ANALOG BOARD).
2. IMTA4 IS LOCATED ON BIO1 (8 OUTPUT, 16 INPUT BOARD).
3. W1 IS LOCATED ON BRS1 (ROTATIONAL SAFETY BOARD).
4. 2MTA1 IS LOCATED ON BIO2 (8 OUTPUT, 16 INPUT BOARD).





WIRE COLORING CODE		
WIRE NO.	VOLTAGE	WIRE COLOR
103	+5V	BLUE
104	+12V	BLUE/ORANGE
105	-12V	BLUE/BLACK
7	GND	BLUE/WHITE
107	SERIAL HIGH	BLUE/RED
106	SERIAL LOW	BLUE/BLACK
—	120VAC	RED
6	CONTROL GROUND	RED/WHITE

W6DR3FGMD

GAS-DRYER

MICRO 6 SYSTEMS MARK V

SCHEMATIC: BOARD TO BOARD WIRING

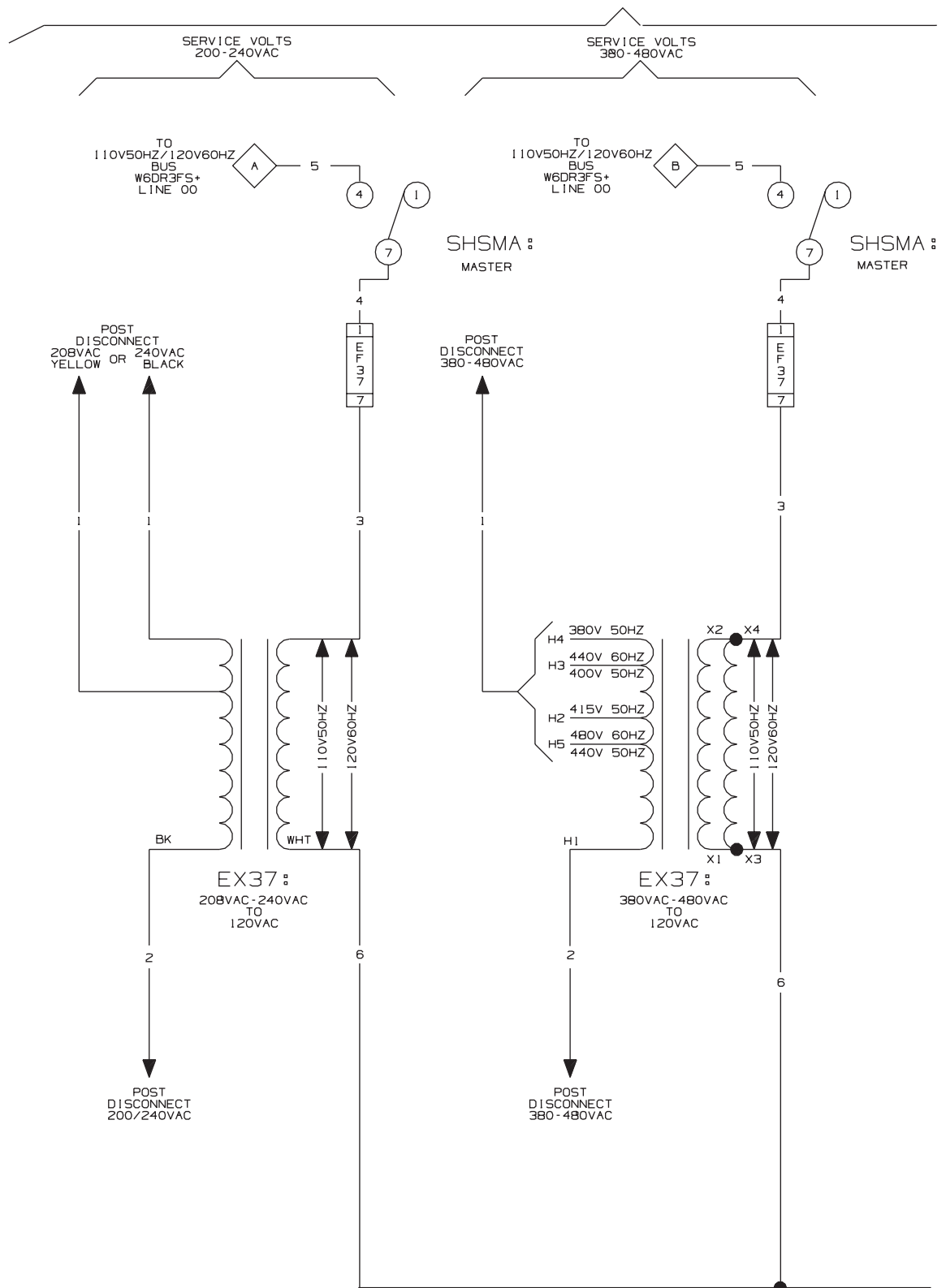
MODIFIED FOR DUTCH SPECIFICATIONS HONEYWELL GAS TRAIN

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

W6DR3FGMD
2008293B

CONTROL CIRCUIT POWER



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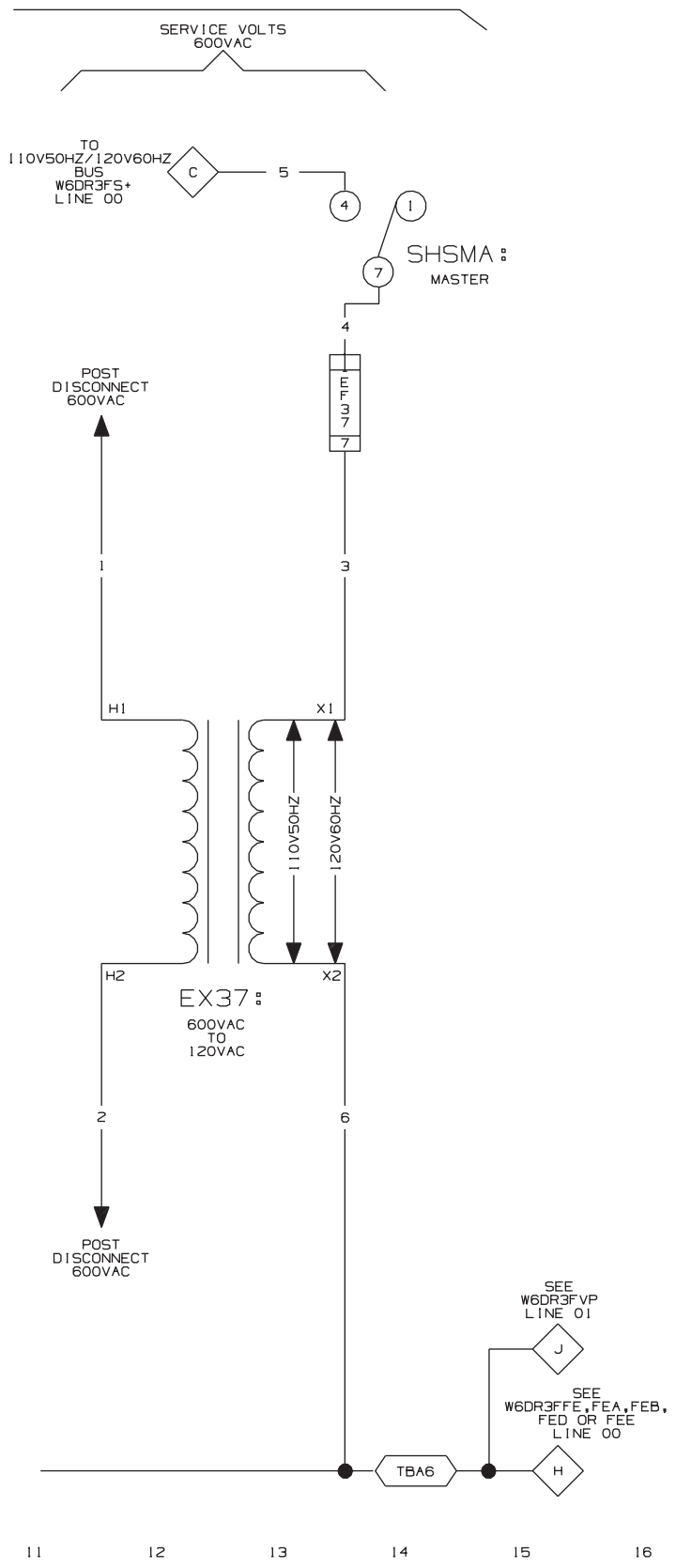
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07

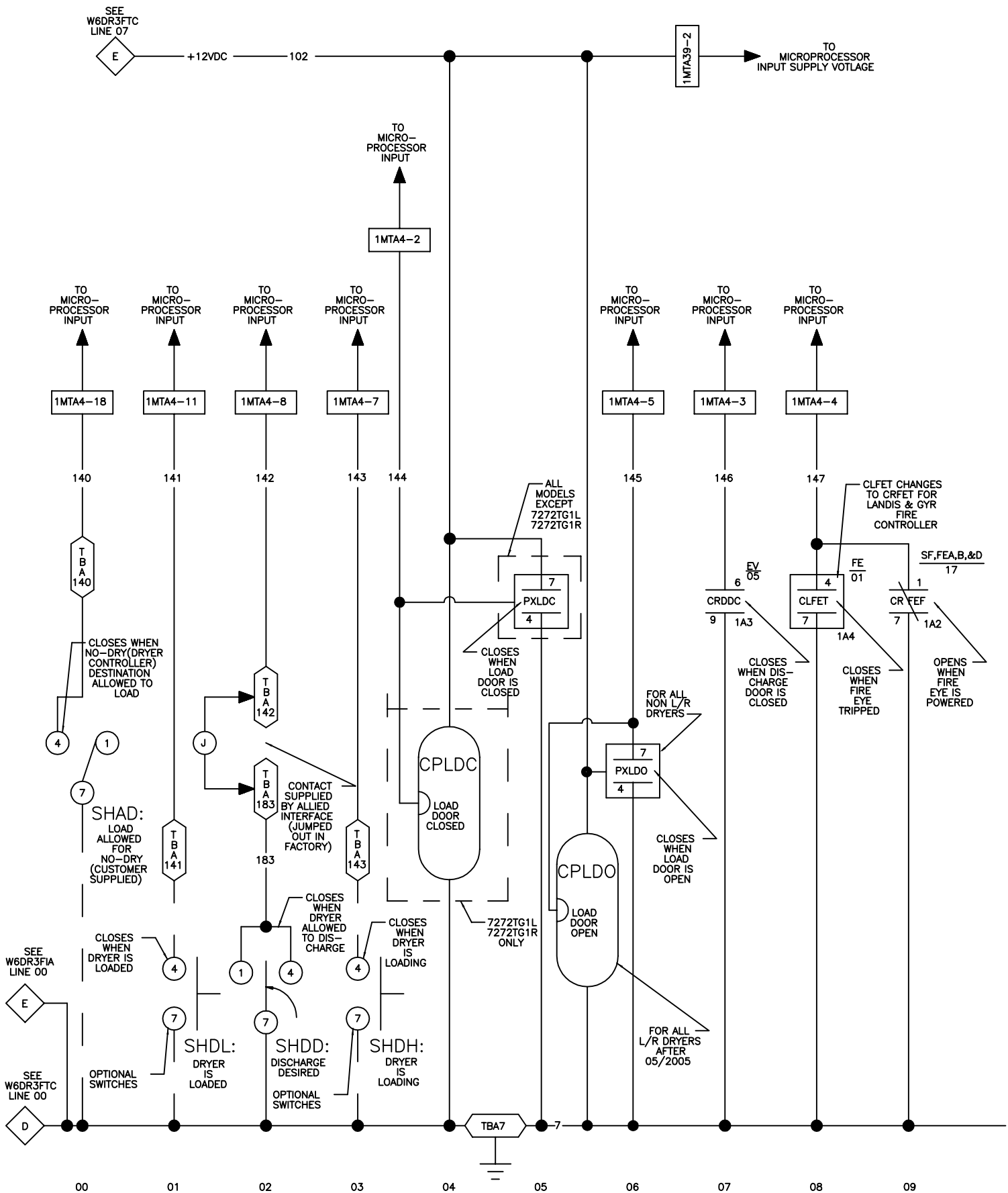
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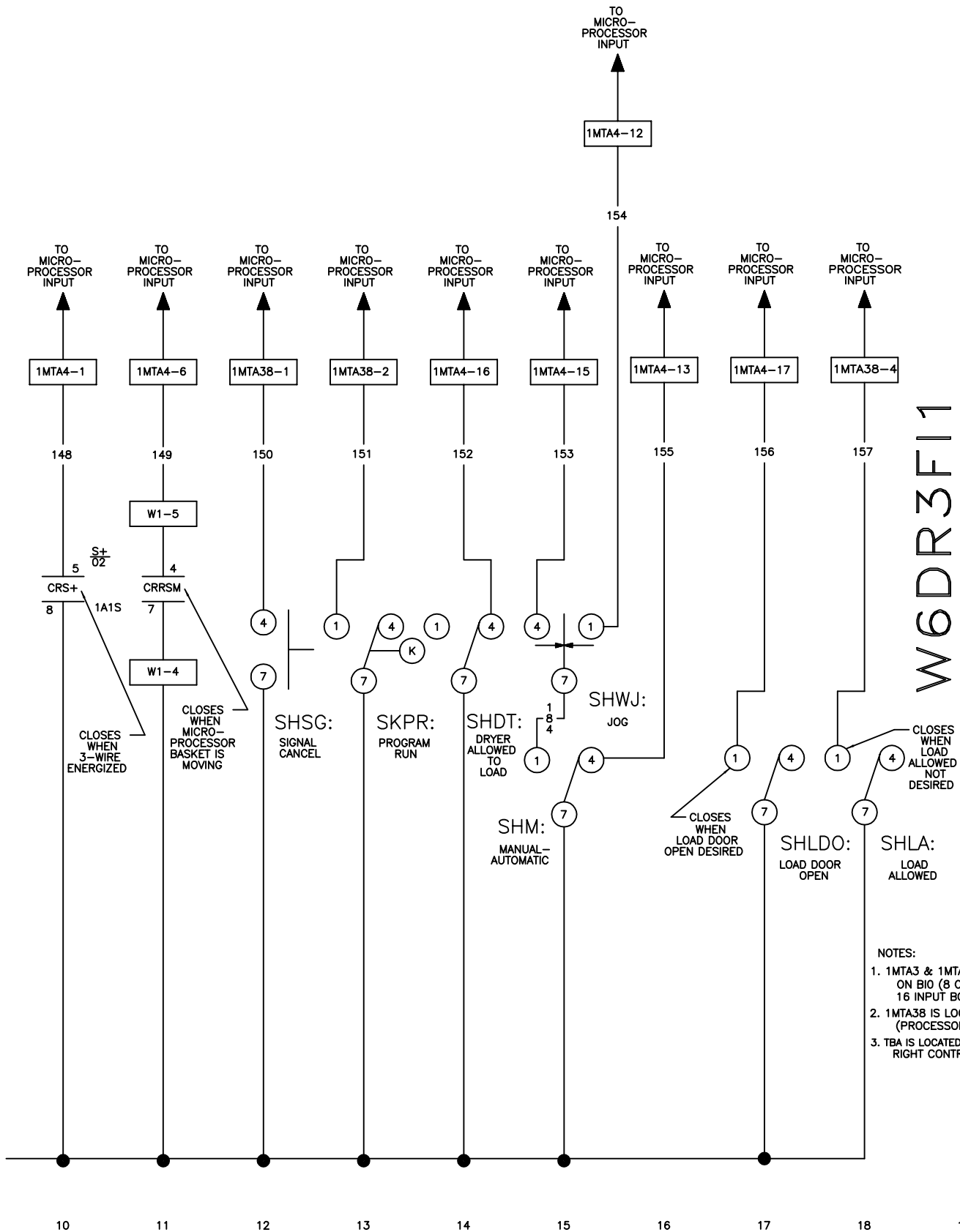
09

10



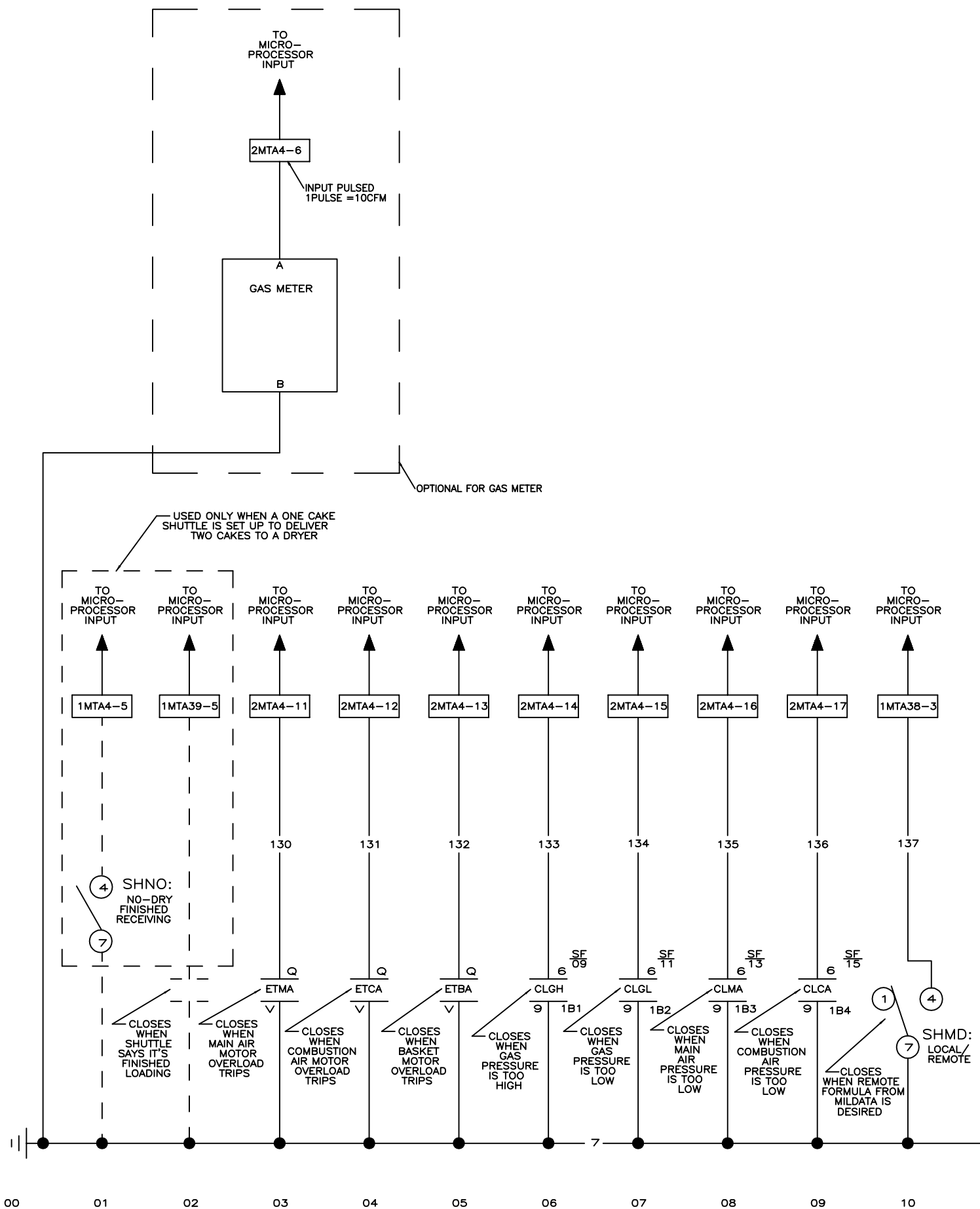
W6DR3FHV
GAS-DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: 110V50HZ/120V60HZ
CONTROL CIRCUIT POWER
PELLERIN MILNOR CORPORATION





W6DR3F11
GAS-DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: INPUTS
PELLERIN MILNOR CORPORATION

- NOTES:
1. 1MTA3 & 1MTA4 IS LOCATED ON BIO (8 OUTPUT-16 INPUT BOARD).
 2. 1MTA38 IS LOCATED ON BPB (PROCESSOR BOARD).
 3. TBA IS LOCATED IN THE RIGHT CONTROL BOX.



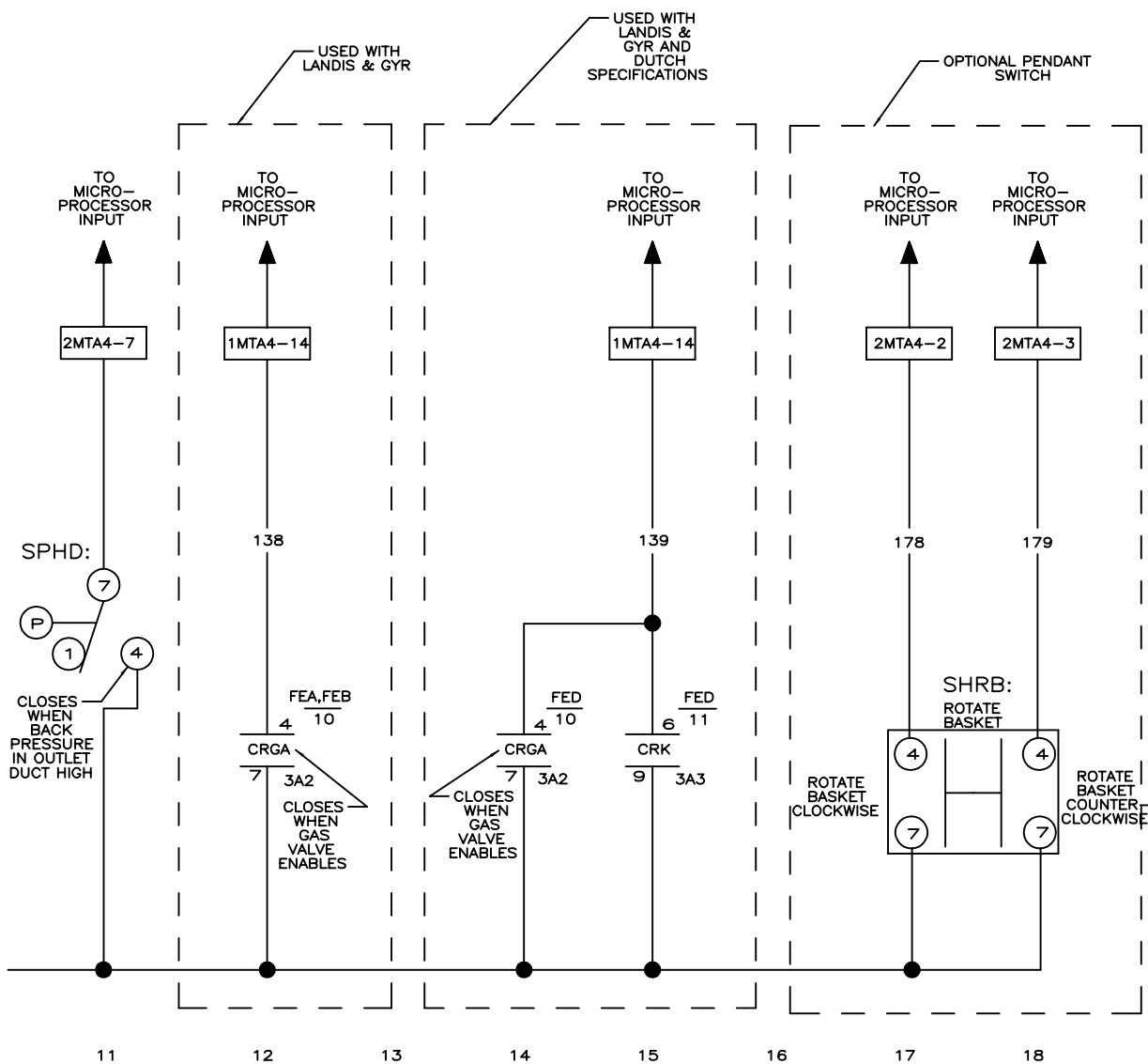
W6DR3F12

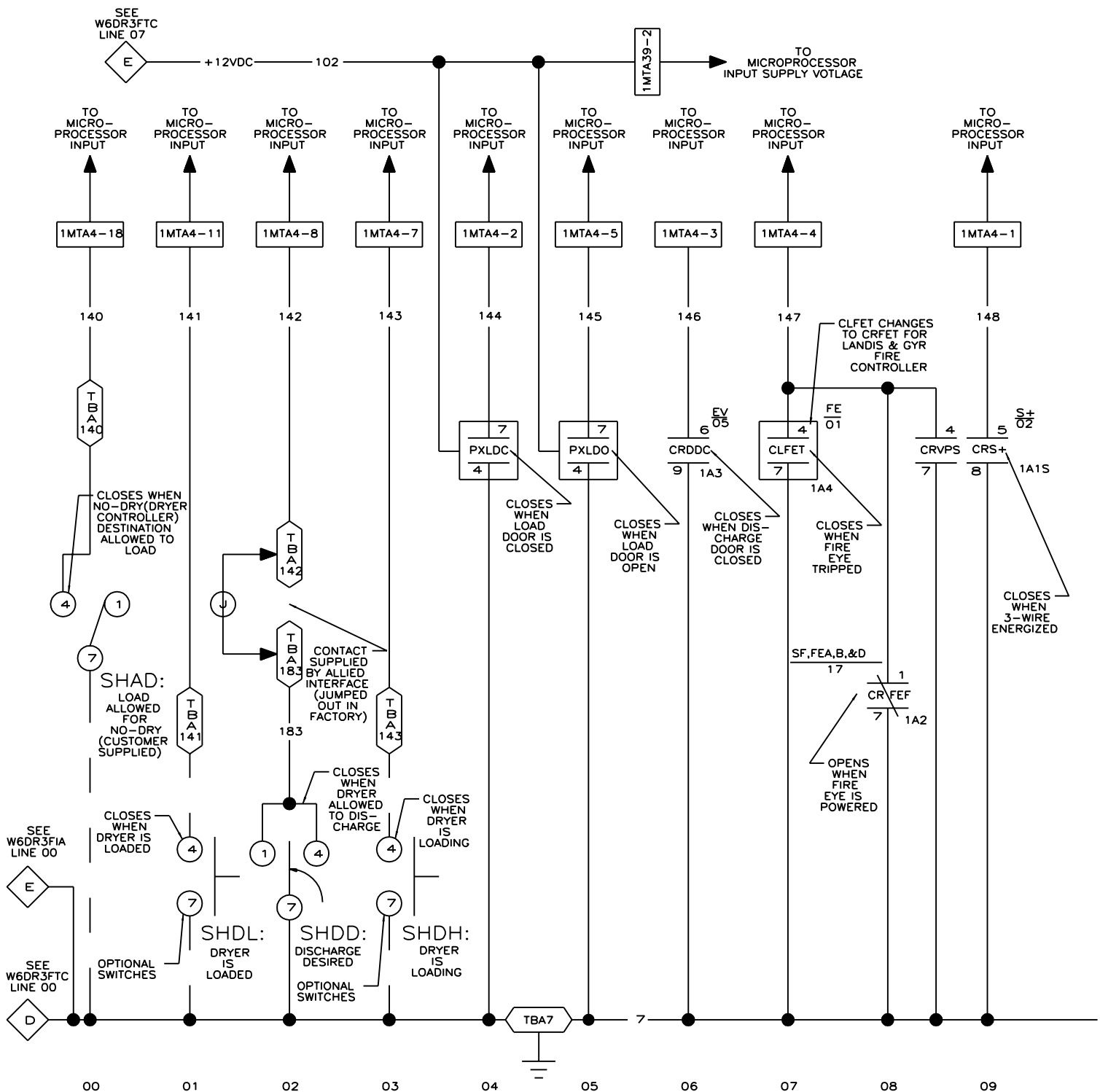
GAS-DRYER

MICRO 6 SYSTEMS MARK V

SCHEMATIC: INPUTS

PELLERIN MILNOR CORPORATION

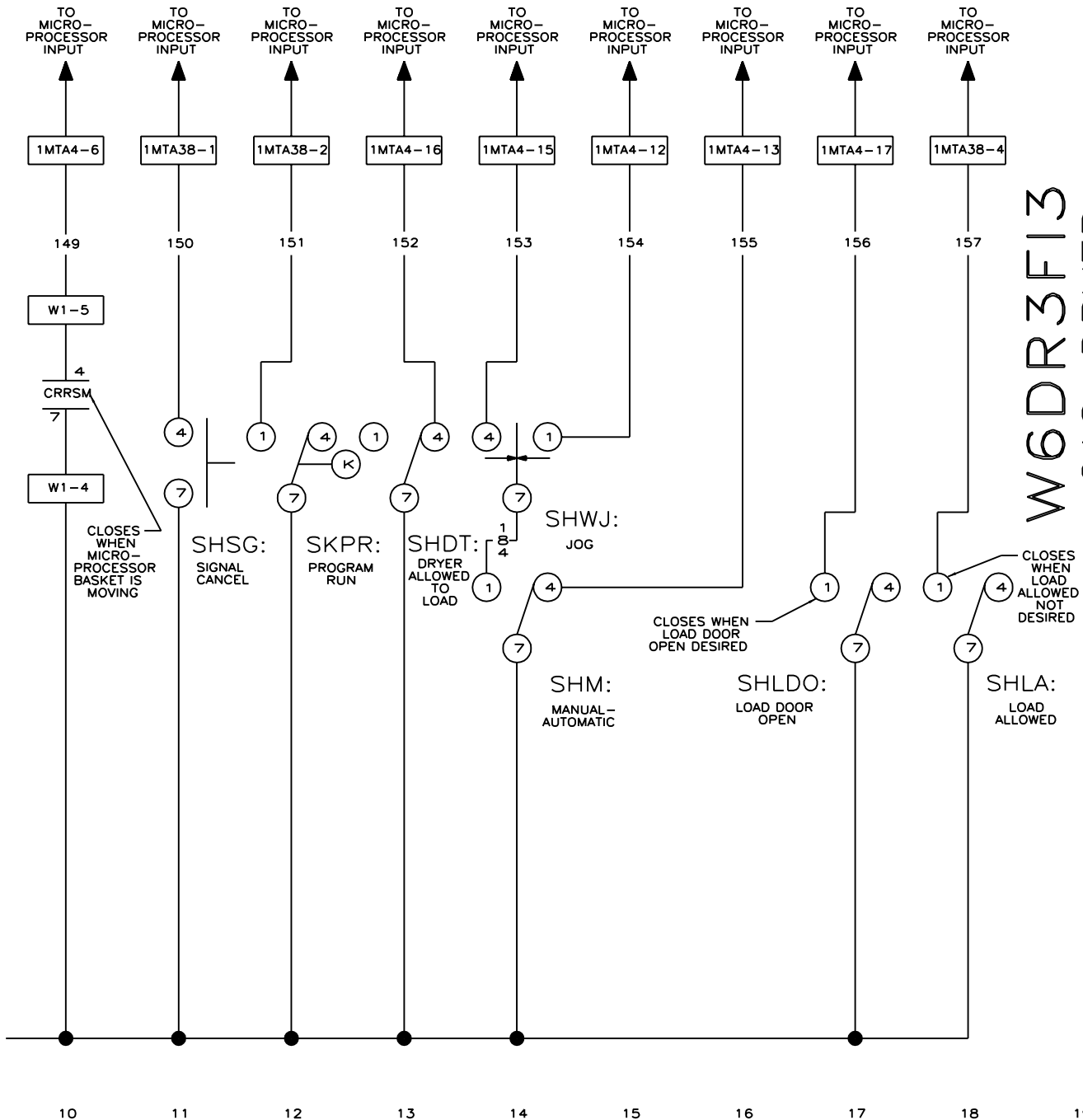




NOTES:

1. 1MTA3 & 1MTA4 IS LOCATED ON BIO (8 OUTPUT-16 INPUT BOARD).
2. 1MTA38 IS LOCATED ON BPB (PROCESSOR BOARD).
3. TBA IS LOCATED IN THE RIGHT CONTROL BOX.

W6DR3FI3
2001316B



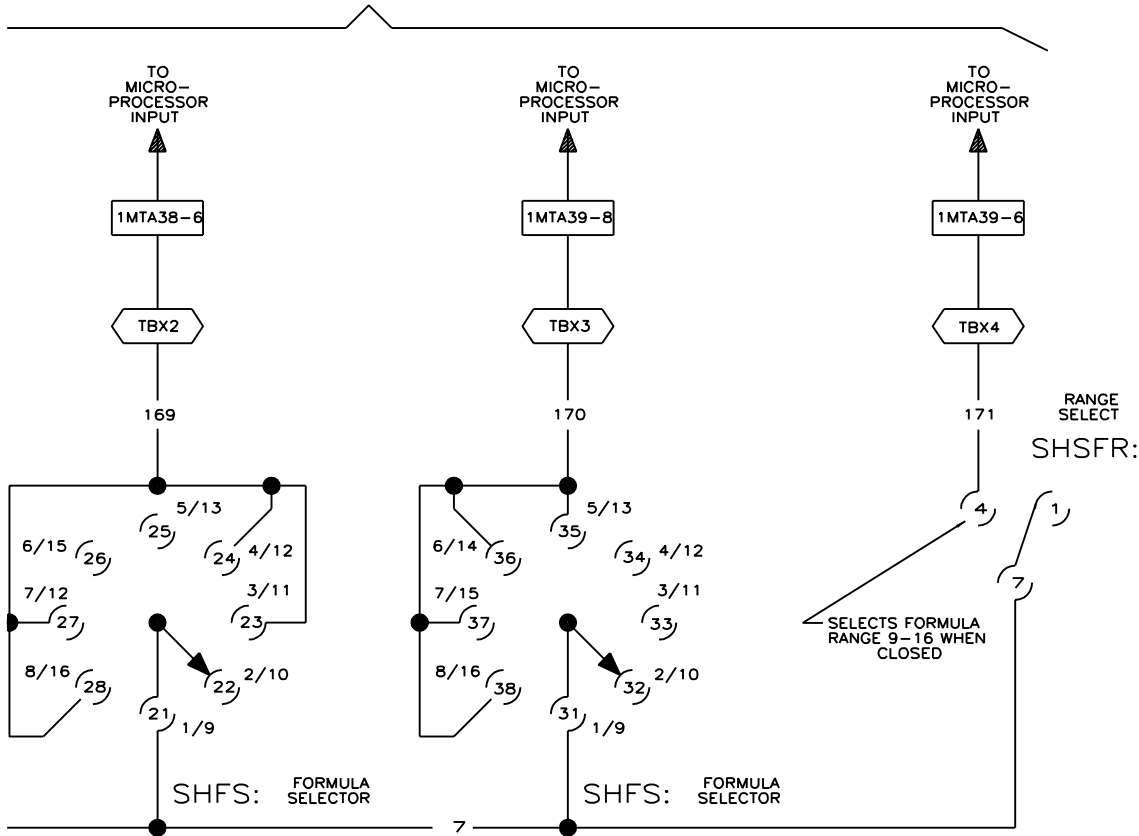
W6DR3FI3
GAS-DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: INPUTS FOR IRI
PELLERIN MILNOR CORPORATION

W6DR3FI3
2001316B

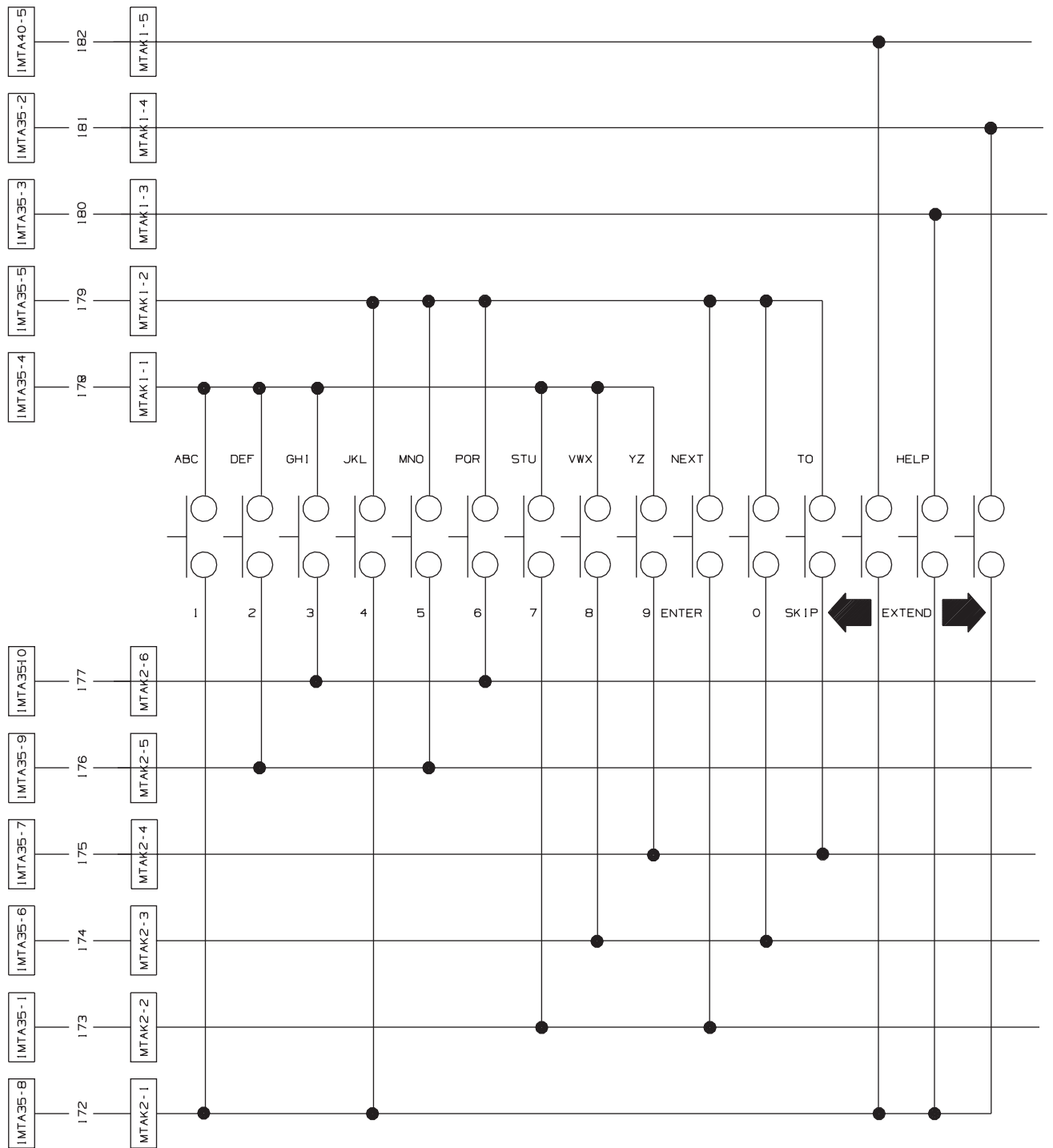
NOTES

1. TBX IS LOCATED IN DRYER PROCESSOR CONTROL BOX.
2. TBA IS LOCATED THE DRYER LEFT CONTROL BOX.

REMOTE FORMULA SELECTOR STATION OPTION



W6DR3FIA
DRYER-GAS
MICRO 6 SYSTEMS MARK V
SCHEMATIC: ALLIED INTERFACE
PELLERIN MILNOR CORPORATION



LITHO IN U.S.A.

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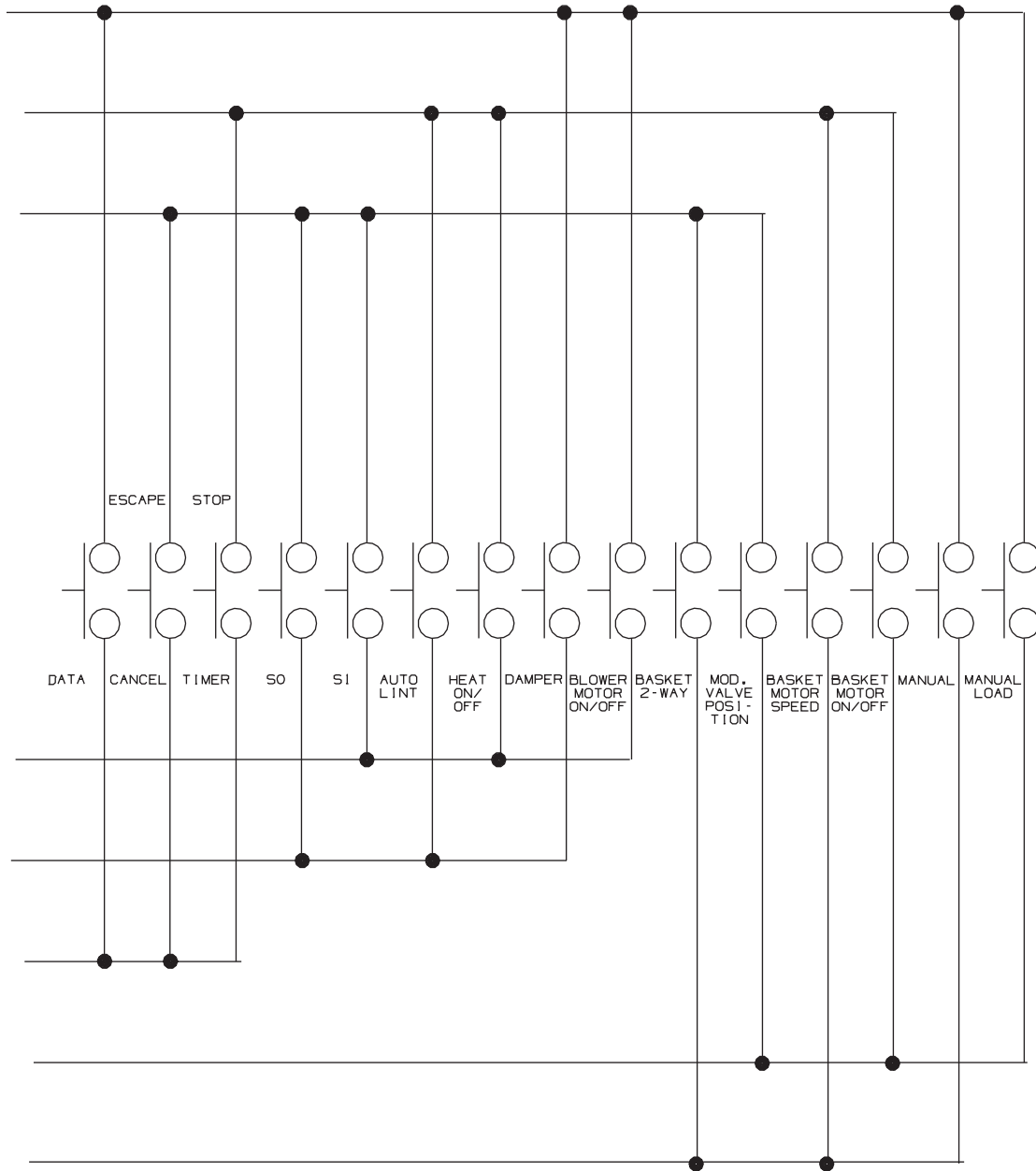
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08

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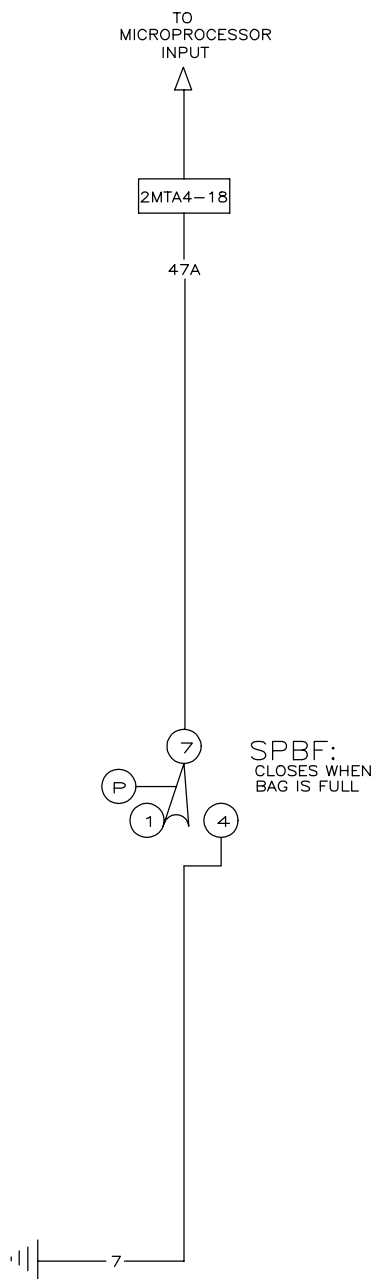
1



W6DR3FKP
MICRO 6 SYSTEMS
MARK V
SCHEMATIC: KEYPAD (SERIAL CONTROLS)
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. MTA1 & MTA2 ARE LOCATED ON KEYPAD.
2. IMTA35 & IMTA40 ARE LOCATED ON BPB (PROCESSOR BOARD).



W6DR3FLS

6458 TG1 GAS-DRYER

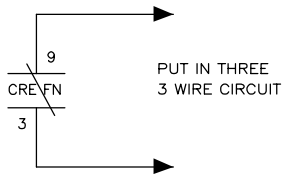
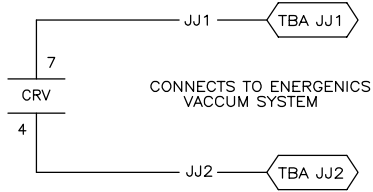
MICRO 6 SYSTEMS MARK V

SCHEMATIC: LINT STRIPPING

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

W6DR3FLS
2001072B



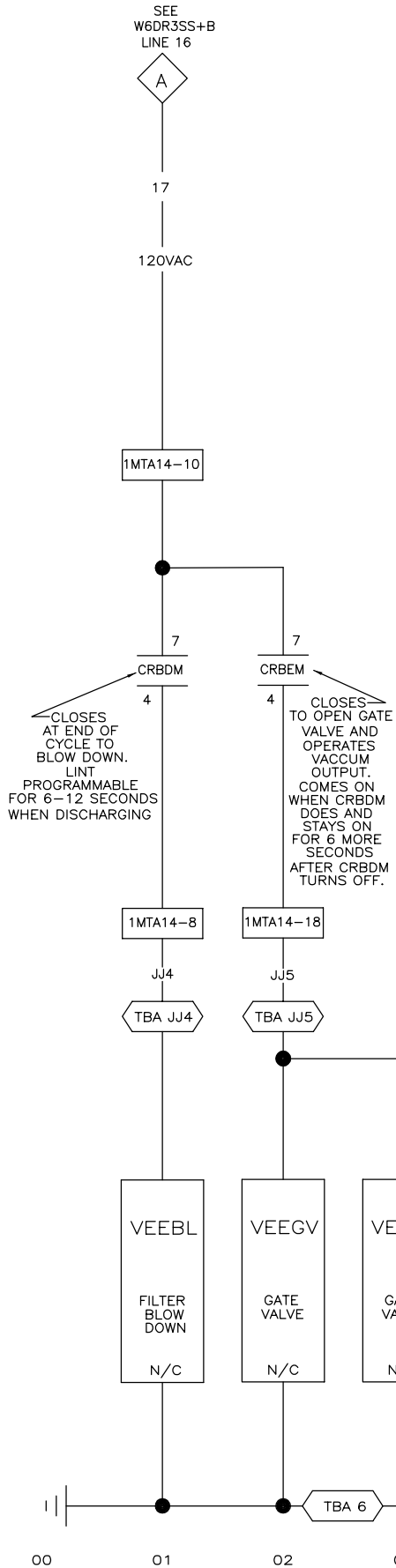
W6DR3FLSA

MICRO 6 SYSTEMS MARK V

SCHEMATIC: ENERGENICS LINT FILTER

CLOSE COUPLED

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



INTERFACE FOR SEQUENCER CONTROLLER

IF REQUIRED TO PREVENT MULTIPLE DRYER FROM
DISCHARGING AT THE SAME TIME
SEE W6DSA15C AND W6DSE15C
IN ME6HDSE1BE DISCHARGE SEQUENCER

TO
MICROPROCESSOR
INPUT

3MTA4-1

TBA JJ0

DRYER ALLOWED
TO DISCHARGE

TBA JJ6

JJ6

3MTA5-11

4

CRDEM

7

3MTA5-1

JJ7

TBA JJ7

CLOSES WHEN
DISCHARGE
DESIRED

TBA XX3

JJ8

3MTA5-19

4

CRFHM

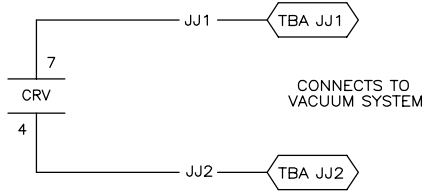
7

3MTA5-10

JJ9

TBA JJ9

CLOSES WHEN
DISCHARGE
FINISHED

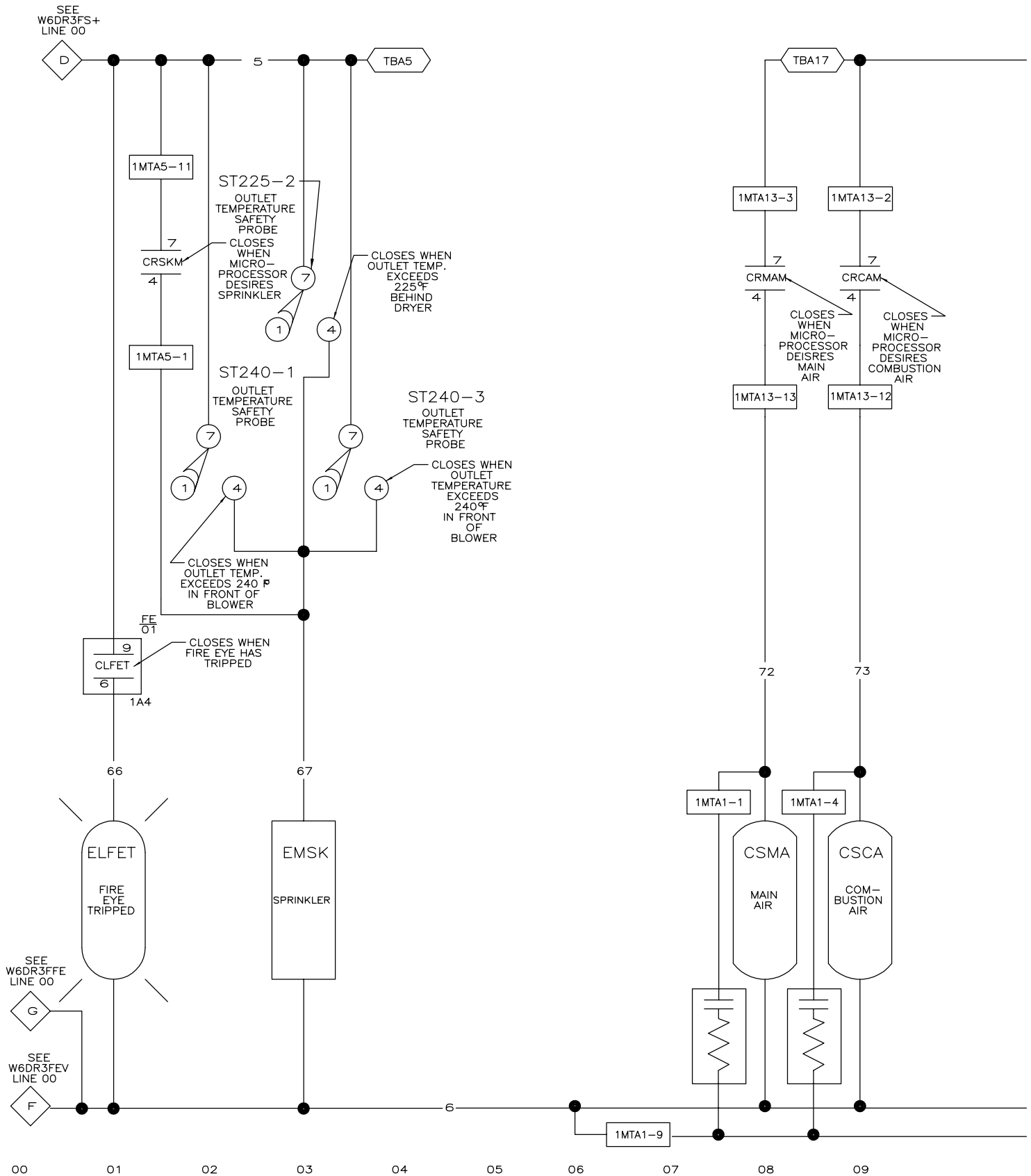


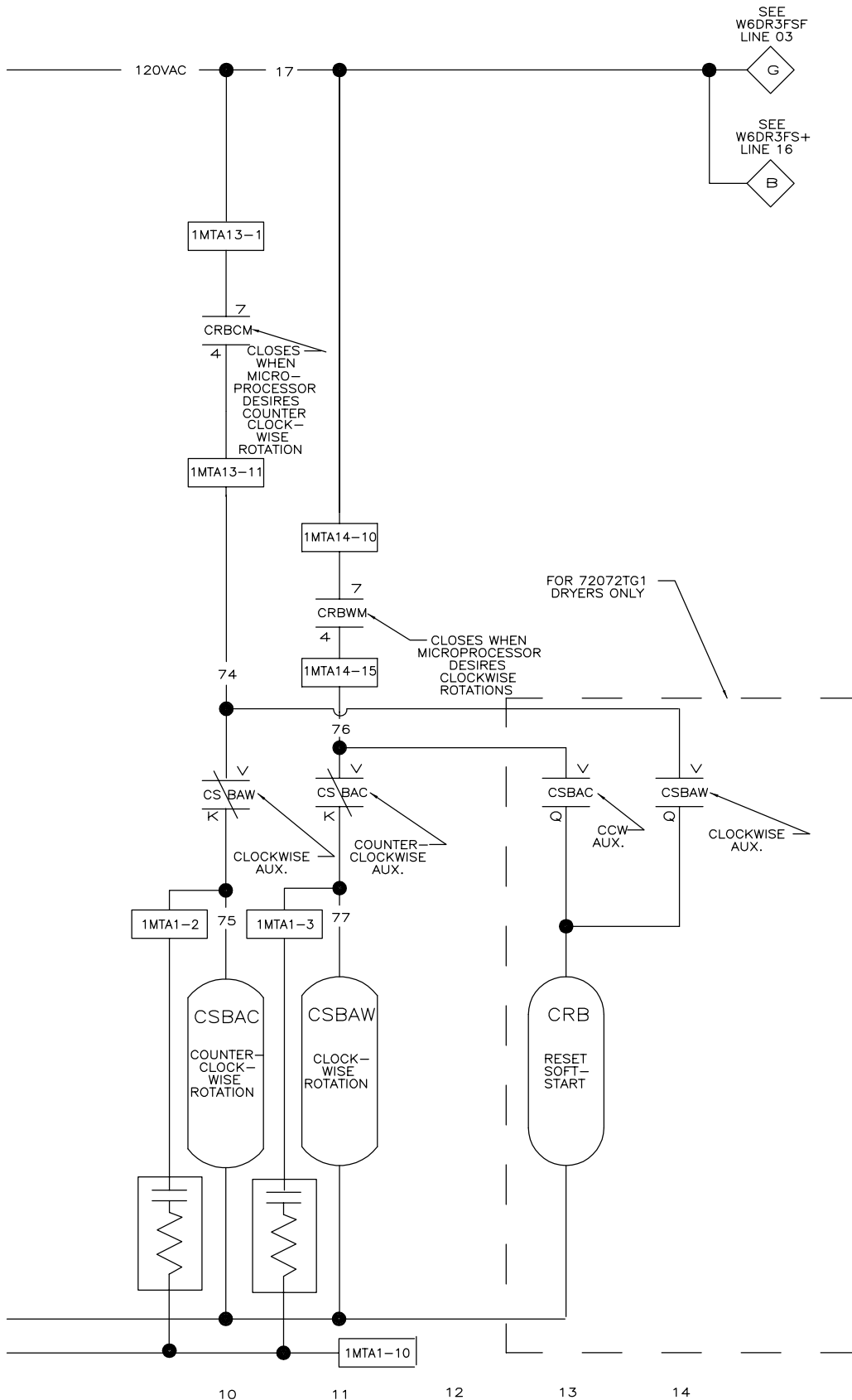
W6DR3FLSB

MICRO 6 SYSTEMS MARK V

SCHEMATIC: INTERNAL LINT SCREEN

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION





W6DR3FMC

GAS-DRYER

MICRO 6 SYSTEMS MARK V

SCHEMATIC: MOTOR CONTACTOR

FOR ALL NON LEFT/RIGHT DRYERS

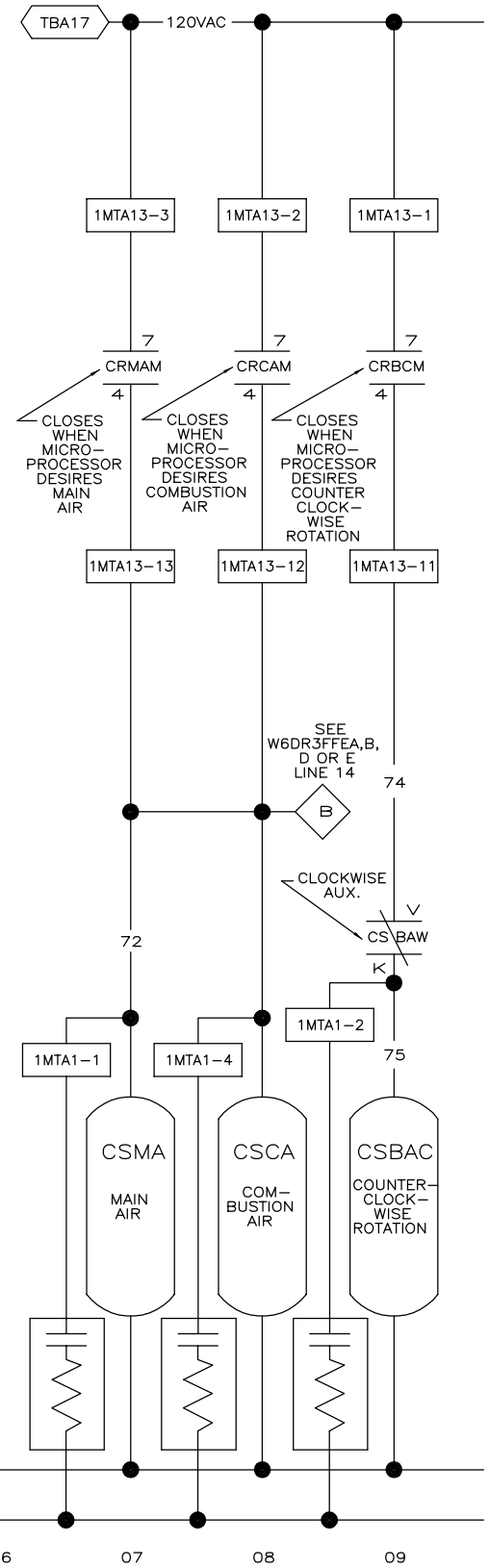
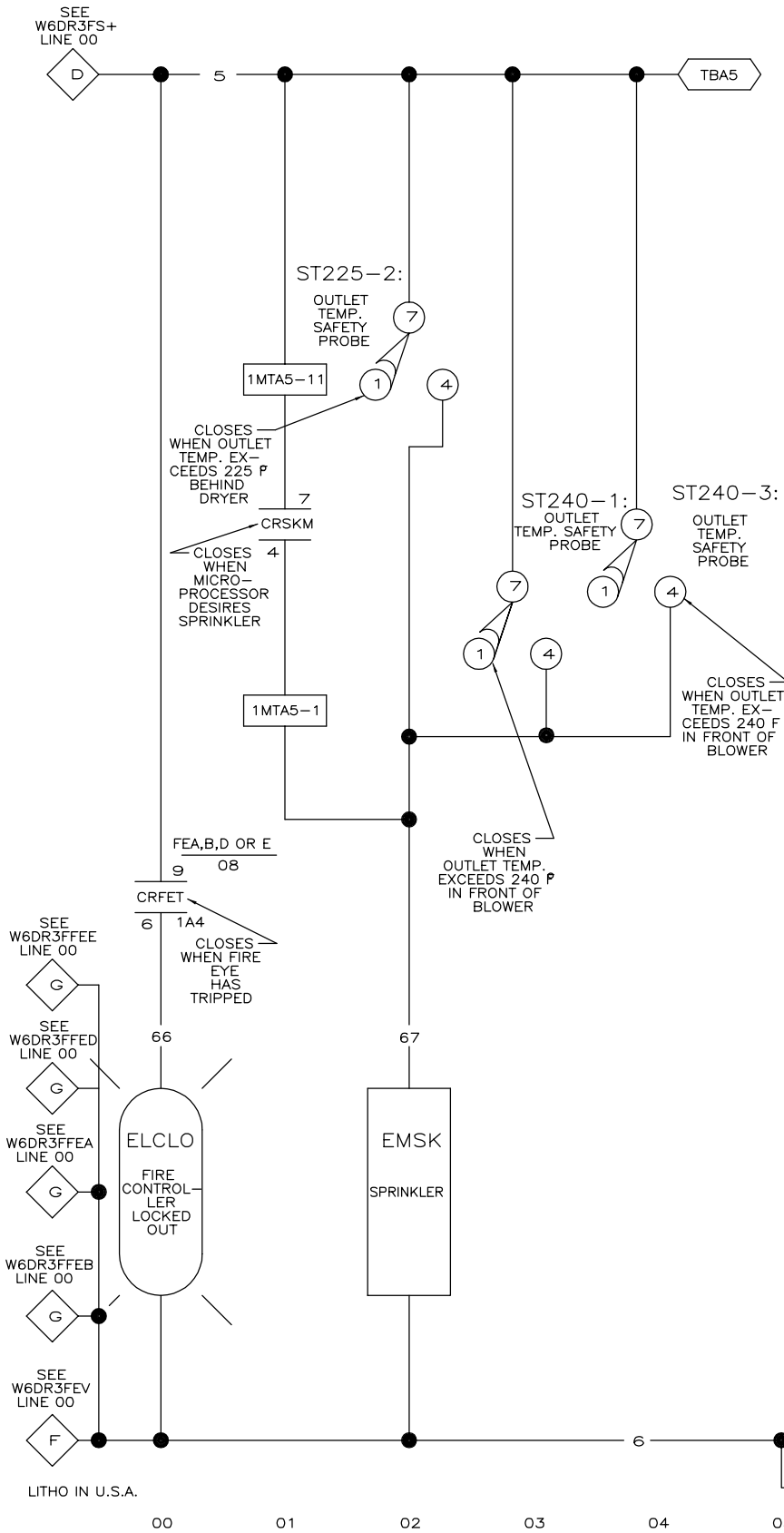
110V1P50HZ/120V1P60HZ

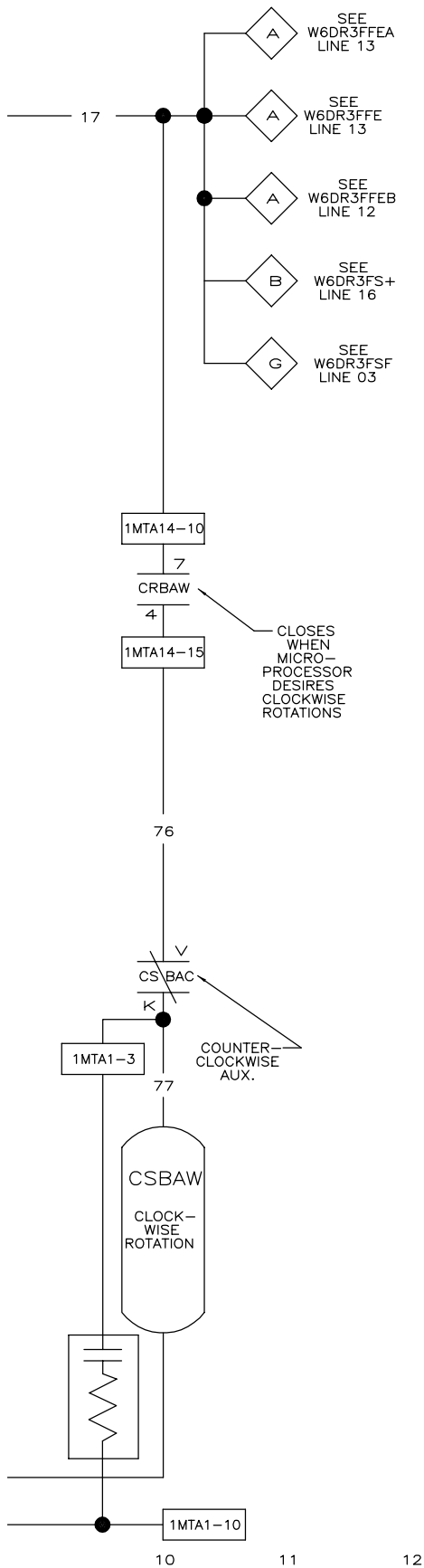
FOR FIRE EYE CONTROLLER

PELLERIN MILNOR CORPORATION

NOTES:

1. TBA IS LOCATED IN RIGHT CONTROL BOX.
2. 1MTA1 IS LOCATED ON THE 8 SNUBBER BOARD LOCATED IN THE HIGH VOLTAGE CONTROL BOX





W6DR3FMCA

GAS-DRYER

MICRO 6 SYSTEMS MARK V

SCHEMATIC: MOTOR CONTACTOR

FOR ALL NON LEFT/RIGHT DRYER

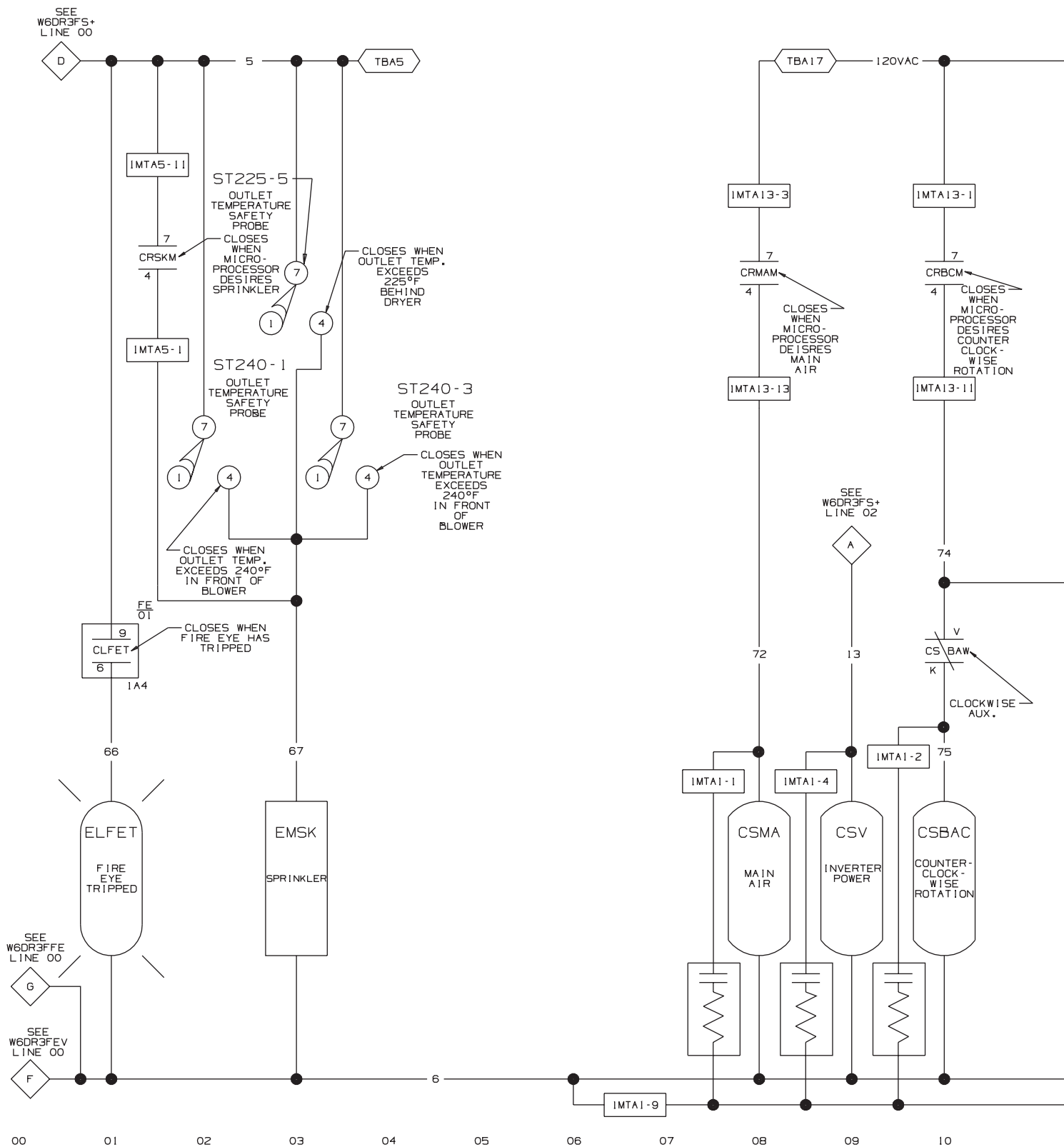
MODIFIED FOR LANDIS & GYR FIRE CONTROLLER

110V1P50HZ/120V1P60HZ

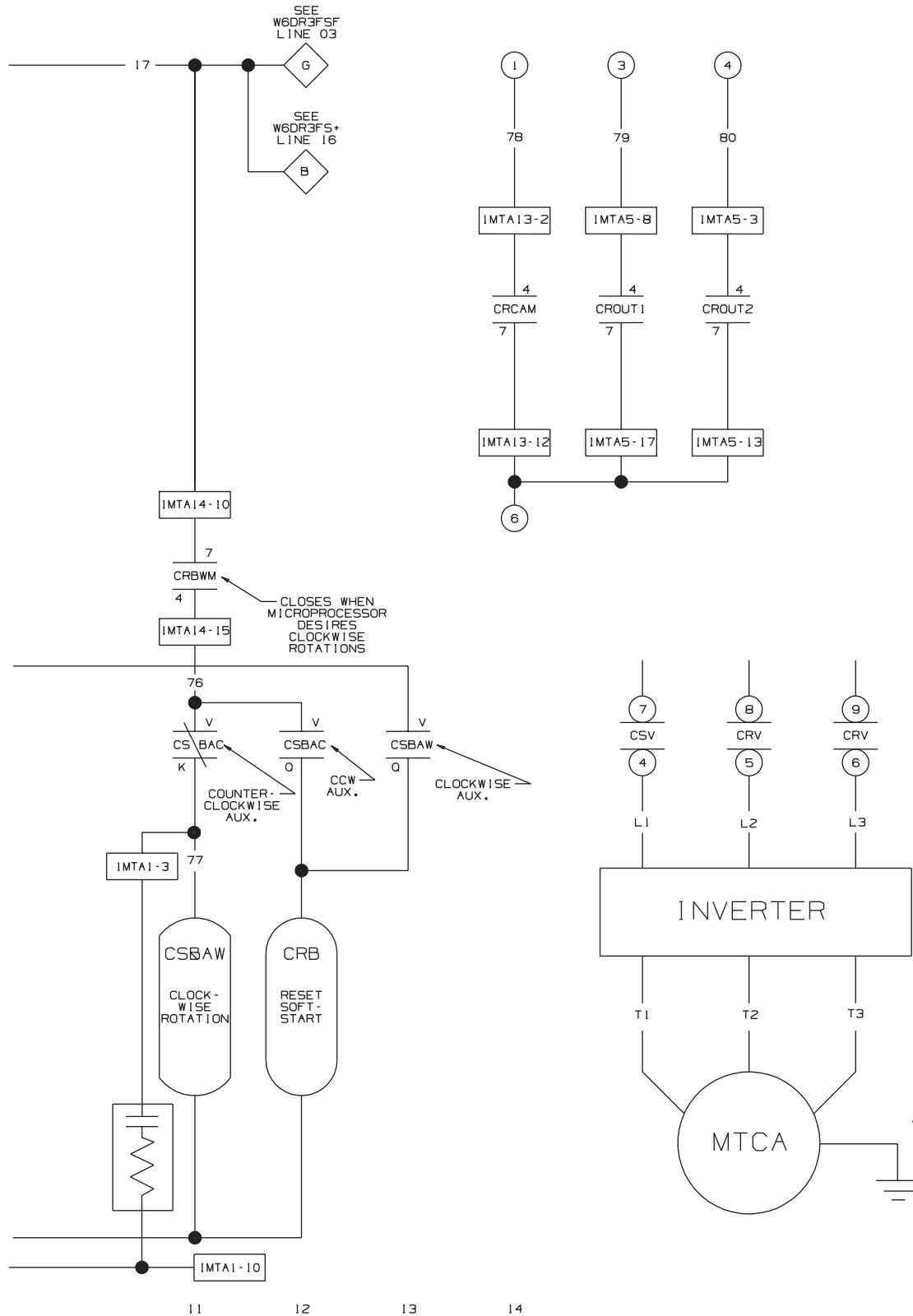
PELLERIN MILNOR CORPORATION

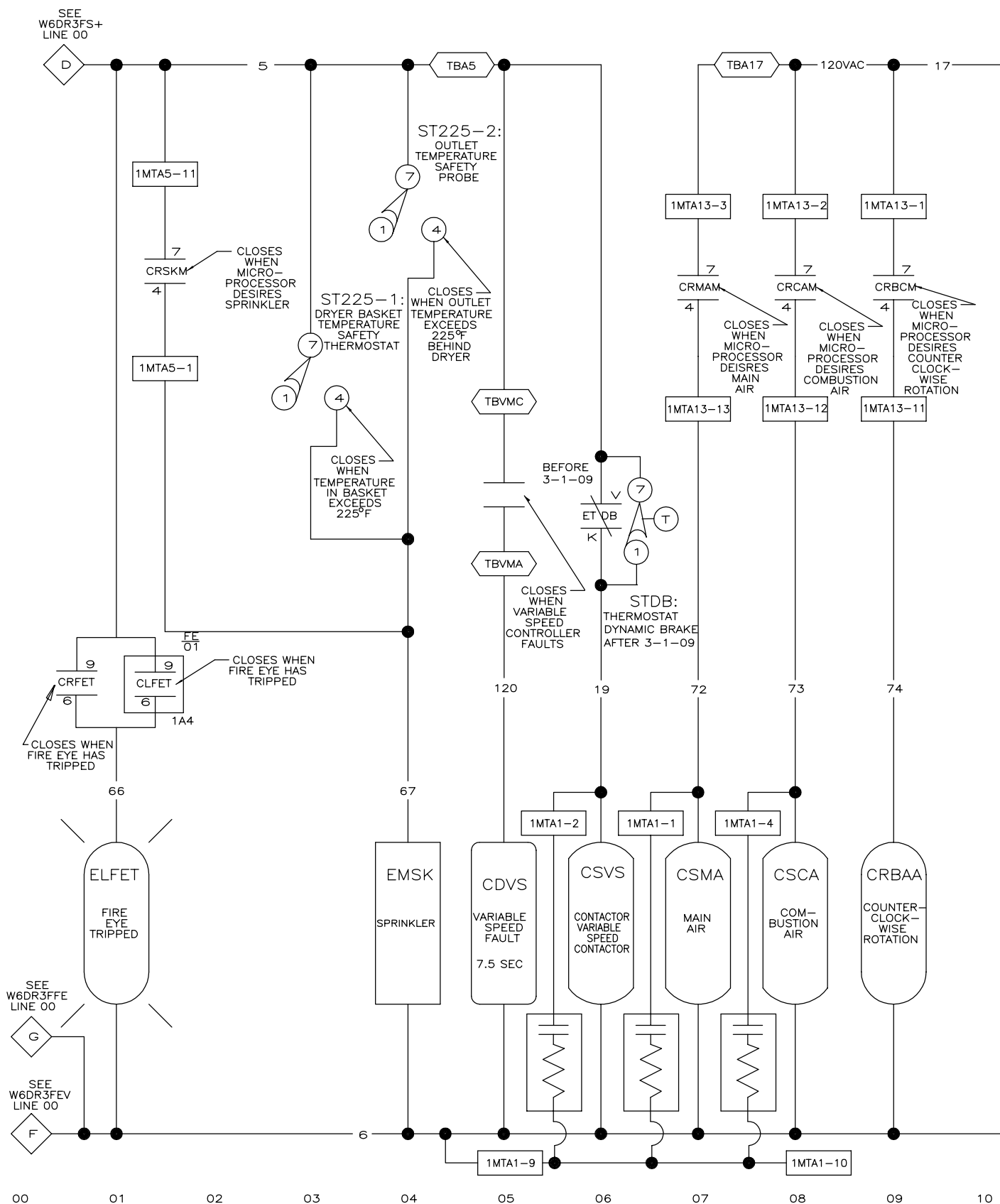
NOTES:

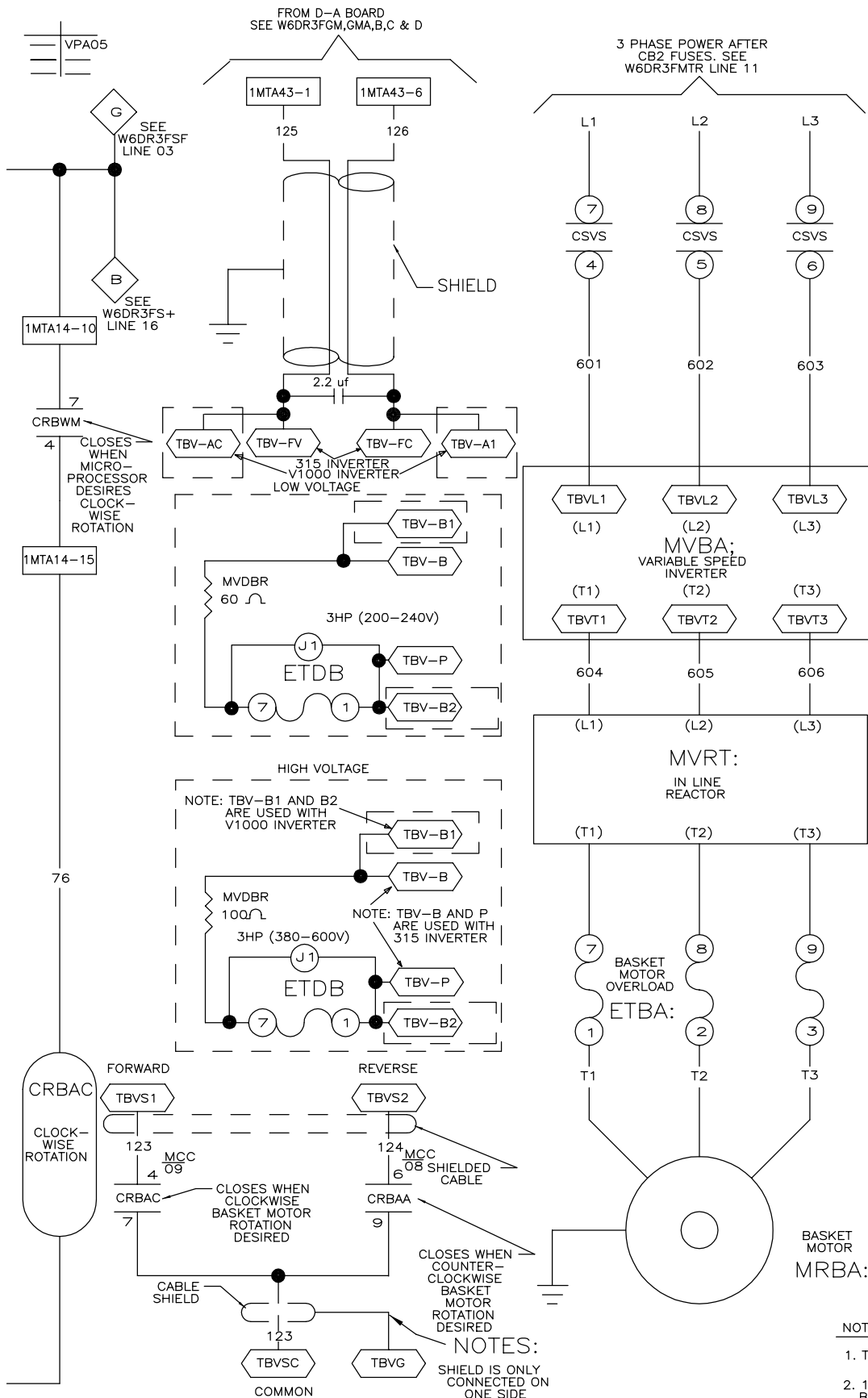
1. TBA IS LOCATED IN RIGHT CONTROL BOX
2. 1MTA1 IS LOCATED ON THE 8 SNUBBER BOARD LOCATED IN THE HIGH VOLTAGE CONTROL BOX



W6DR3FMCB
GAS-DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: MOTOR CONTACTOR
110V1P50HZ/120V1P60HZ
FOR CSA 72072T61 DRYERS ONLY
PELLERIN MILNOR CORPORATION







NOTES:

1. TBA IS LOCATED IN RIGHT CONTROL BOX.
2. 1MTA1 IS LOCATED ON THE 8 SNUBBER BOARD LOCATED IN THE HIGH VOLTAGE CONTROL BOX
3. REMOVE (1) FOR MACHINES BUILT BEFORE 3/1/09

W6DR3FMCC
2011453B

W6DR3FMCC

5040, 64058 & 72072TG1 L/R GAS-DRYER

MICRO 6 SYSTEMS MARK V

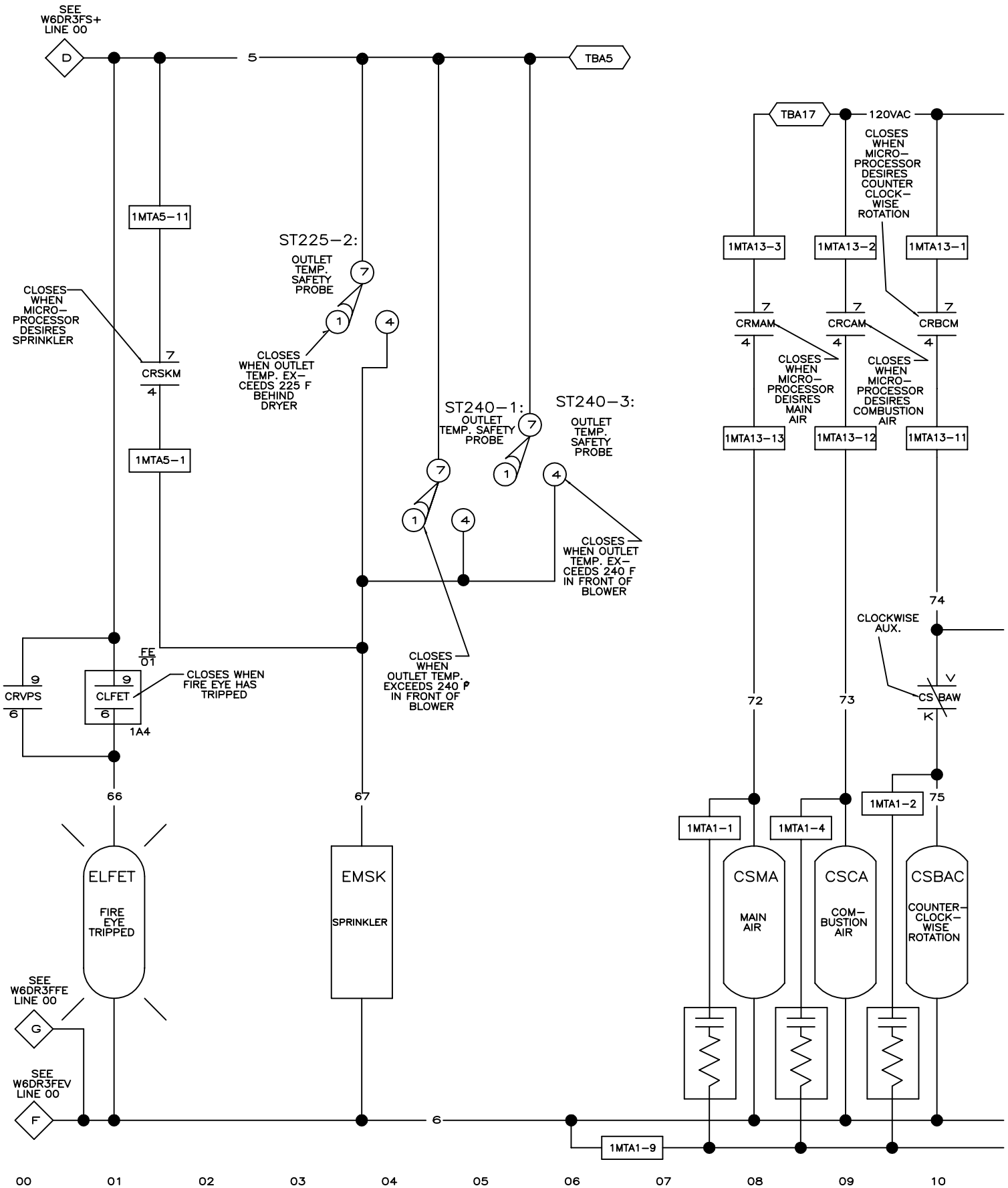
SCHEMATIC: MOTOR CONTACTOR

110V1P50HZ/120V1P60HZ

FOR FIRE EYE CONTROLLER

PELLERIN MILNOR CORPORATION

W6DR3FMCC
2011453B



W6DR3FMCD

GAS-DRYER

MICRO 6 SYSTEMS MARK V

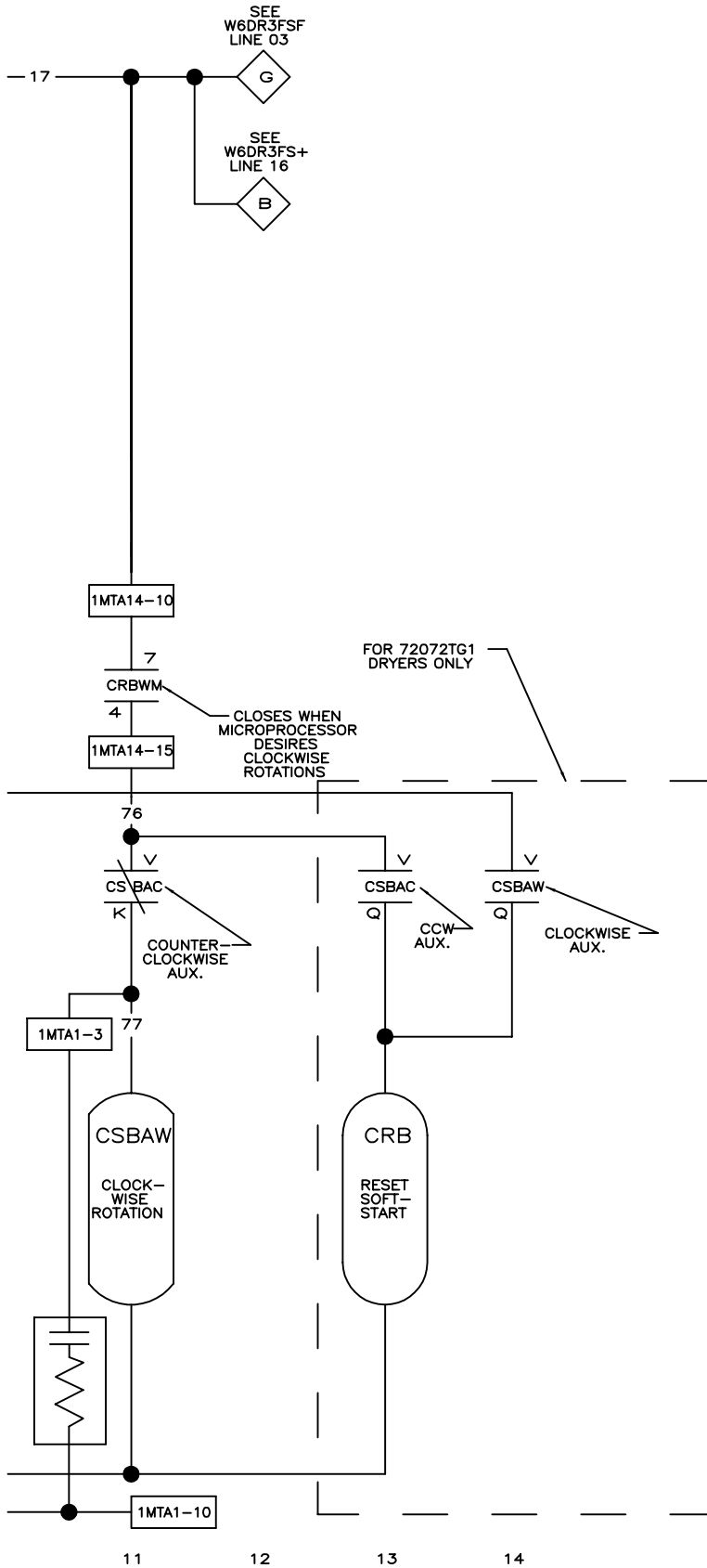
SCHEMATIC: MOTOR CONTACTOR FOR

ALL NON L/R DRYERS AND IRI

110V1P50HZ/120V1P60HZ

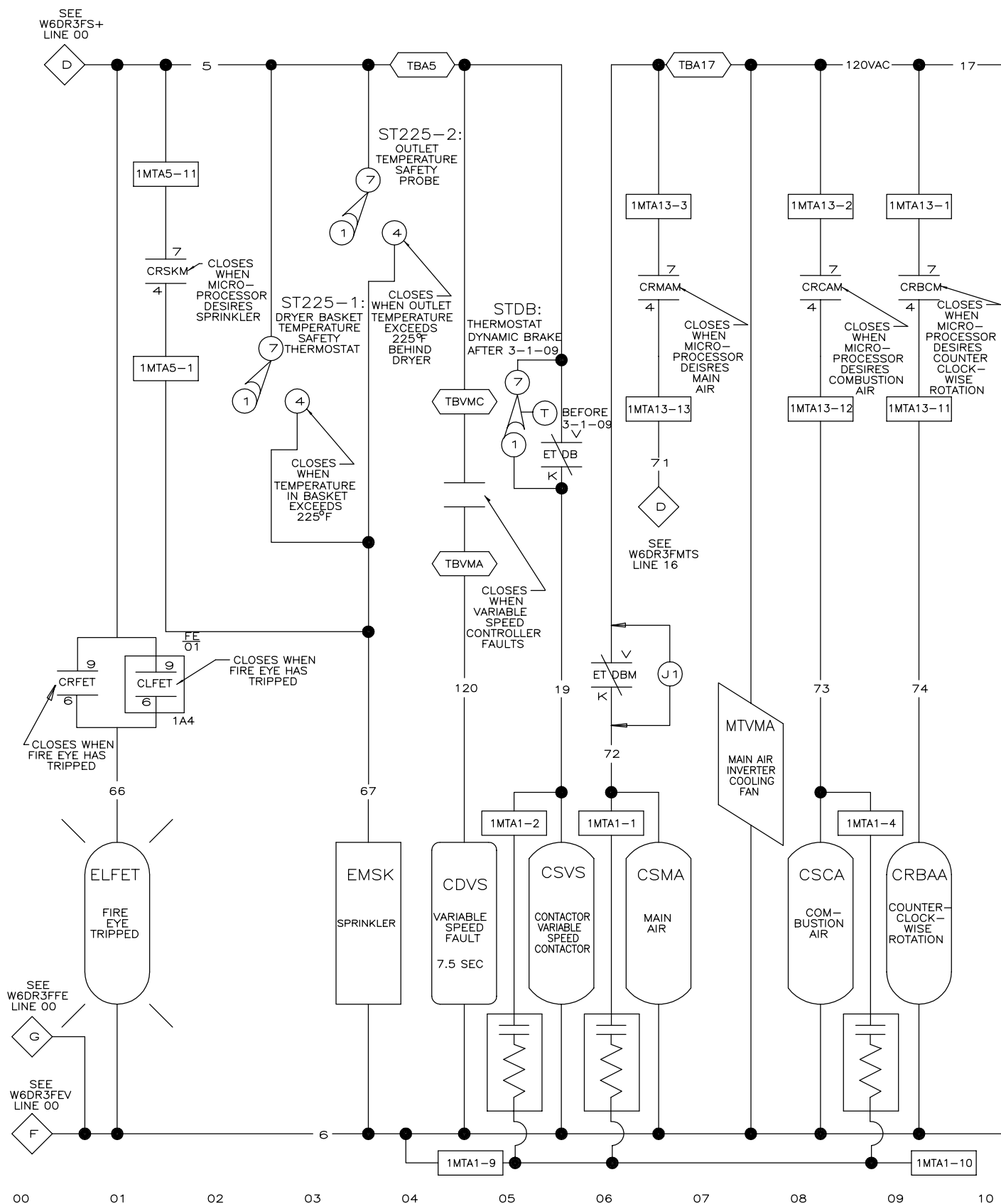
FOR FIRE EYE CONTROLLER

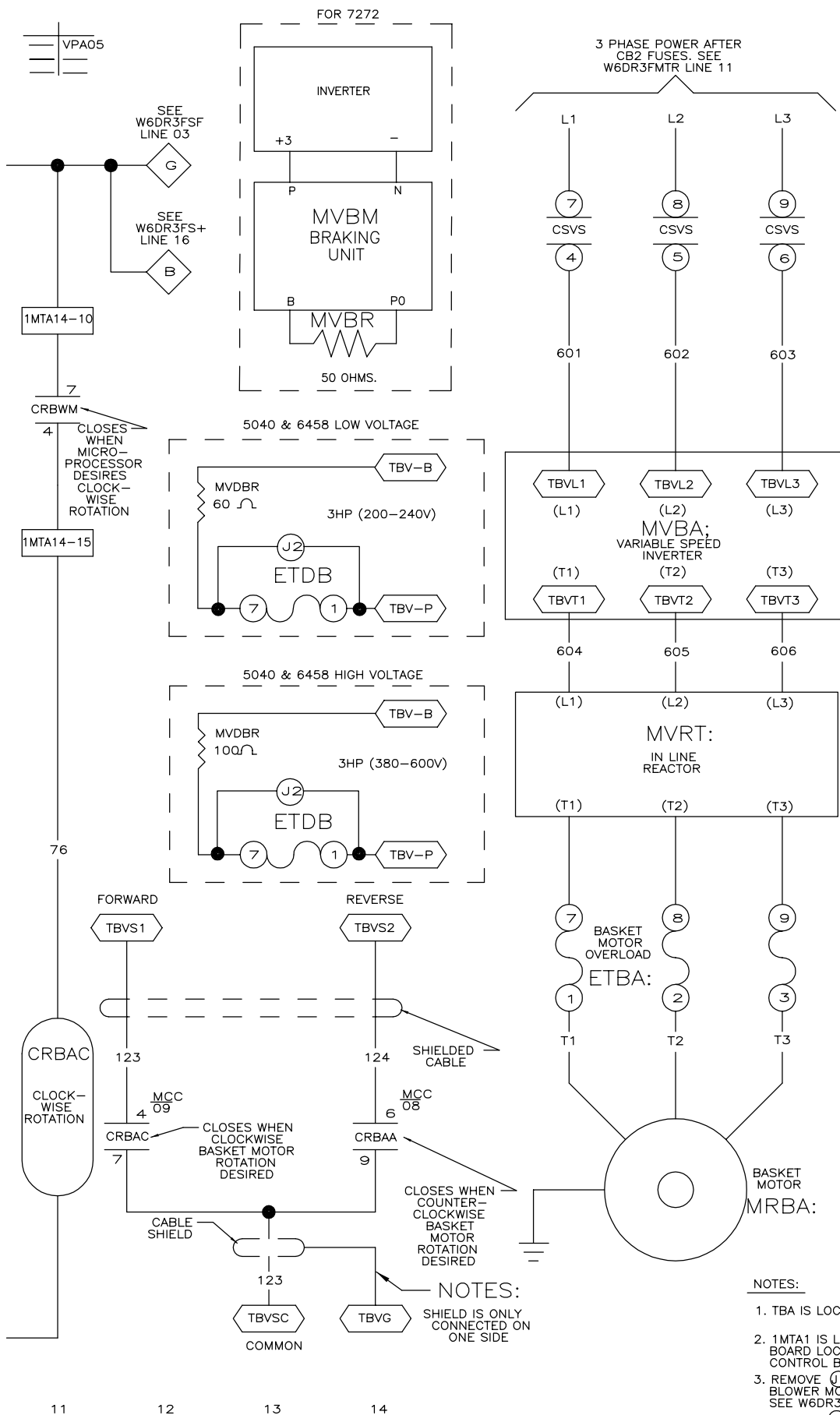
PELLERIN MILNOR CORPORATION



NOTES:

1. TBA IS LOCATED IN RIGHT CONTROL BOX.
2. 1MTA1 IS LOCATED ON THE 8 SNUBBER BOARD LOCATED IN THE HIGH VOLTAGE CONTROL BOX





W6DR3FMCE

5040, 64058 & 72072TG1 L/R GAS-DRYER
MICRO 6 SYSTEMS MARK V

SCHEMATIC: MOTOR CONTACTOR

SUPERCEEDS W6DR3FMCC FOR INVERTER DIRVEN BLOWER
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

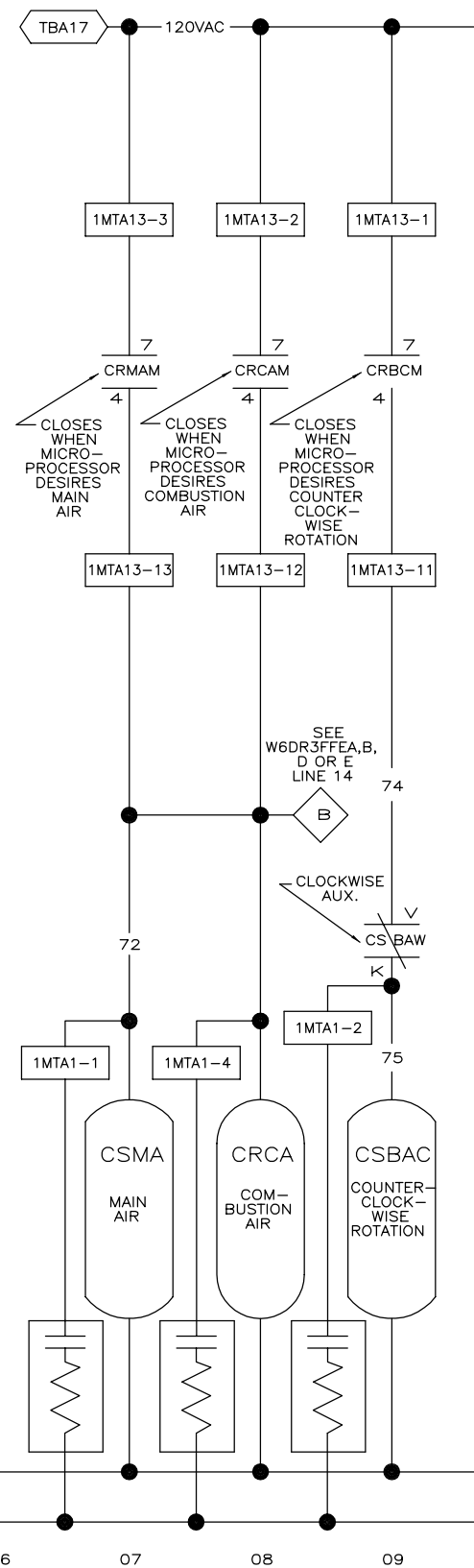
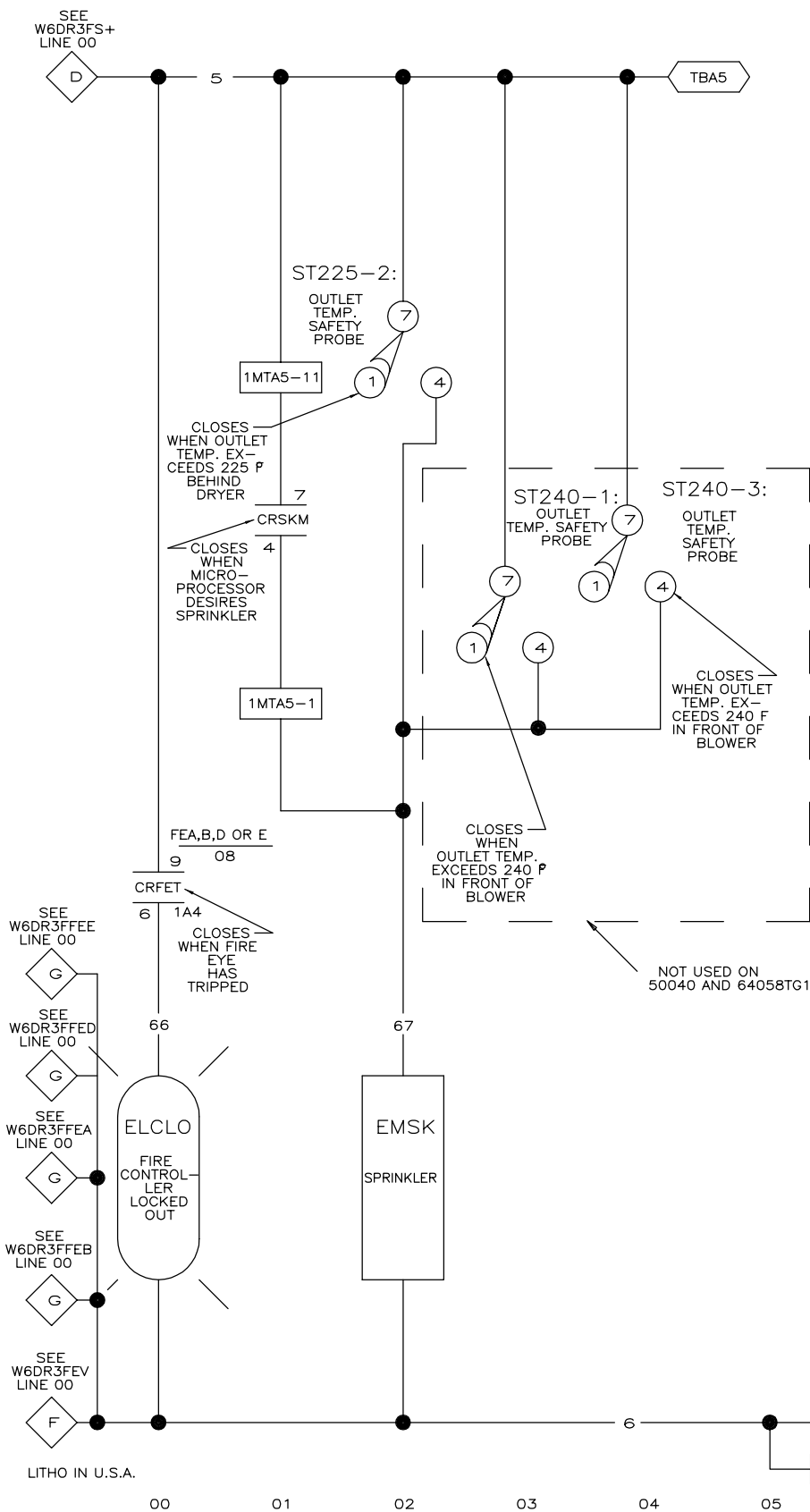
W6DR3FMCE
2011453B

W6DR3FMCE
2011453B

NOTES:

1. TBA IS LOCATED IN RIGHT CONTROL BOX.
2. 1MTA1 IS LOCATED ON THE 8 SNUBBER BOARD LOCATED IN THE HIGH VOLTAGE CONTROL BOX
3. REMOVE ① FOR INVERTER DRIVEN BLOWER MOTOR. SEE W6DR3FMTR
4. REMOVE ② FOR MACHINES BUILT BEFORE 3/1/09

MC12	





W6DR3FMC F
GAS-DRYER

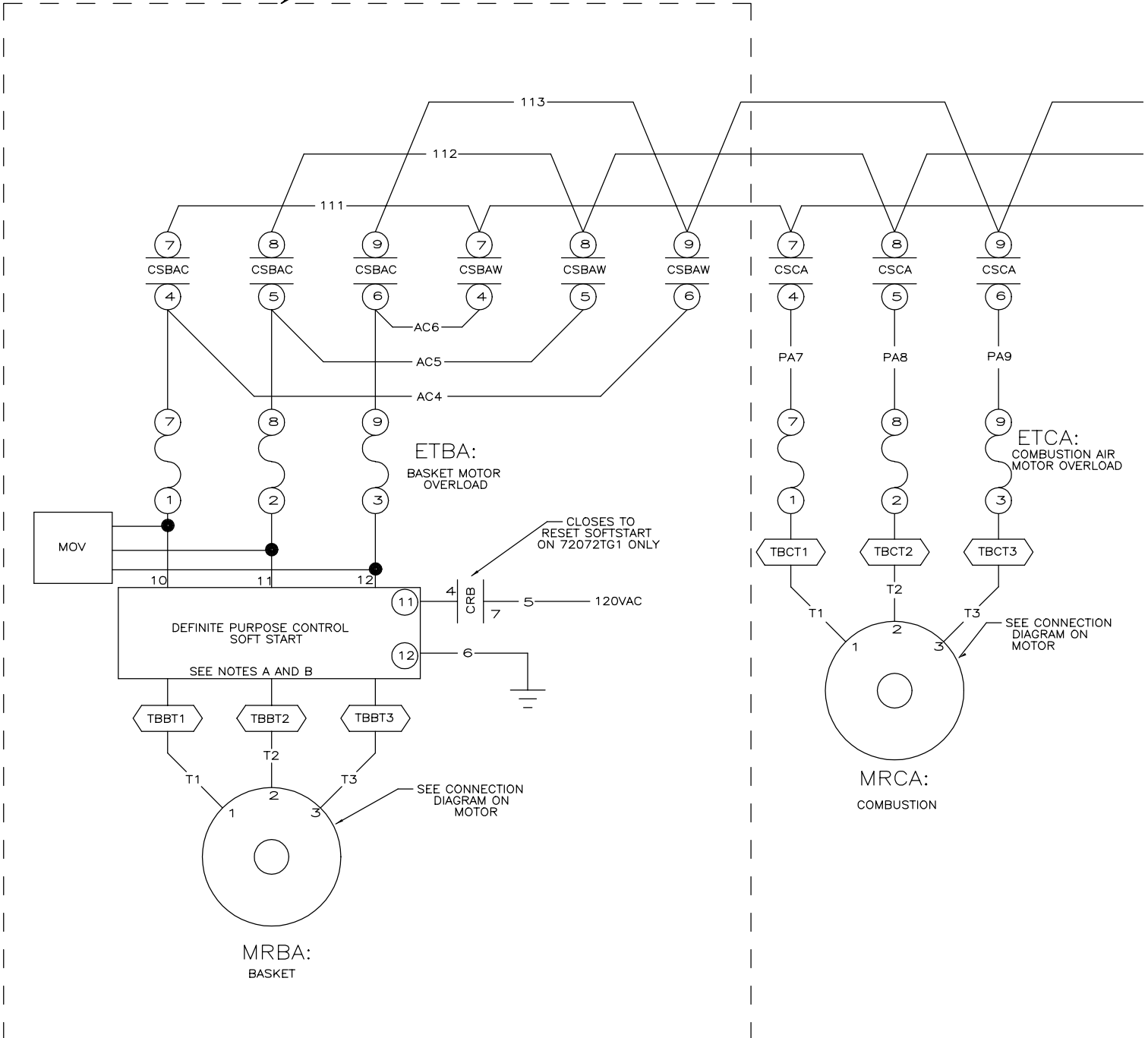
MICRO 6 SYSTEMS MARK V
SCHEMATIC: MOTOR CONTACTOR
ALL NON L/R DRYERS AND COMBUSTION MTR INVERTER

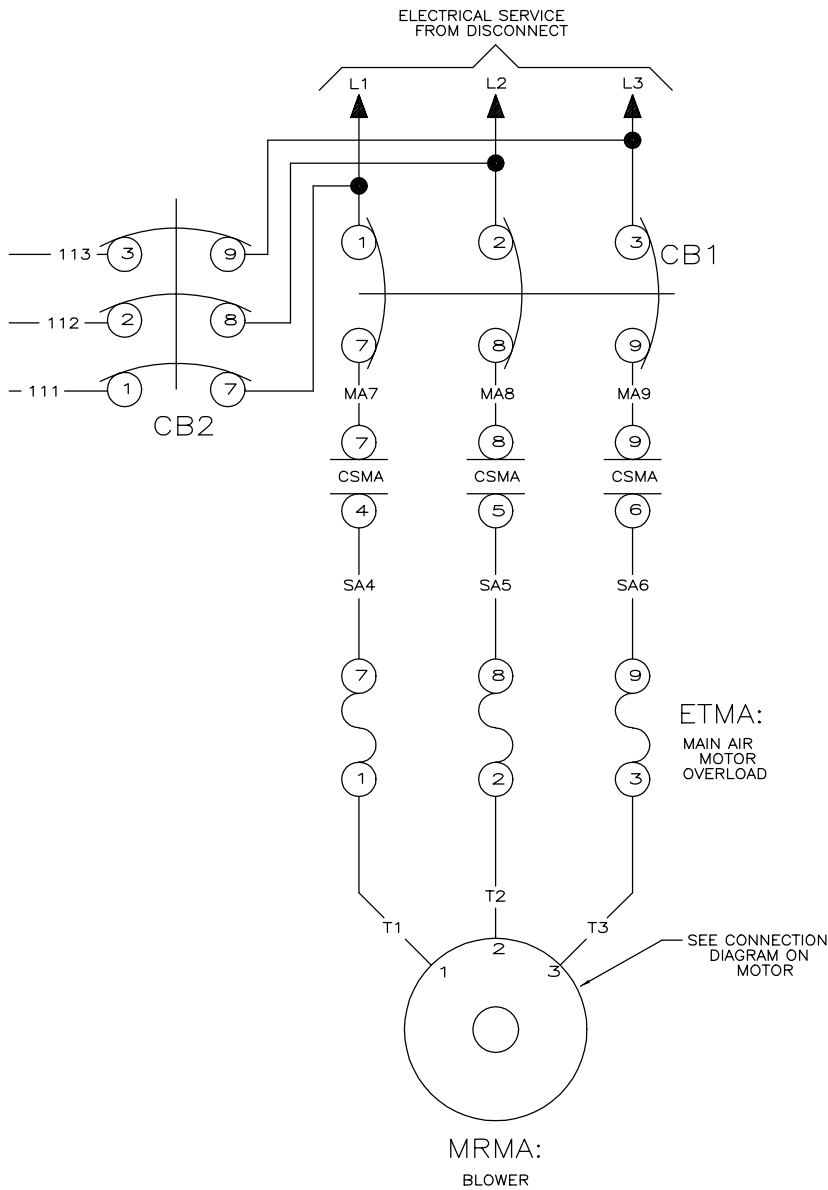
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

1. TBA IS LOCATED IN RIGHT CONTROL BOX
2. 1MTA1 IS LOCATED ON THE 8 SNUBBER BOARD LOCATED IN THE HIGH VOLTAGE CONTROL BOX

TYPICAL FOR 5040, 5840, 5858,
5880, AND 7272 DRYERS. FOR
6458 DRYERS SEE W6DR3FVPA





NOTES:

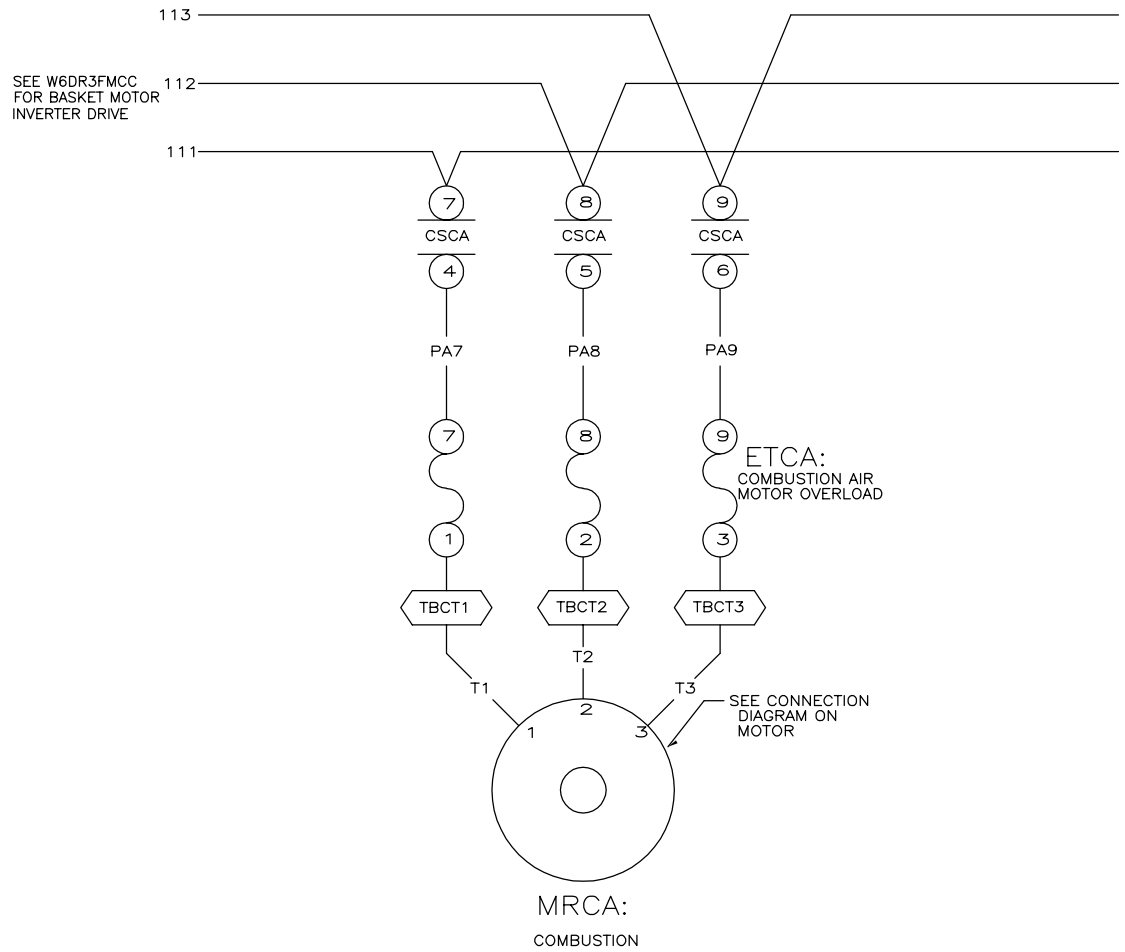
1. FUSE WIRING IS TYPICAL. ACTUAL MACHINES WILL VARY DEPENDING ON VOLTAGE. SEE MACHINE.
2. SET DEFINITE PURPOSE CONTROLS AS FOLLOWS.
 - A. SET INITIAL TORQUE (T) TO 40% OF MAXIMUM.
 - B. SET ACC TIME TO 4 SECONDS.

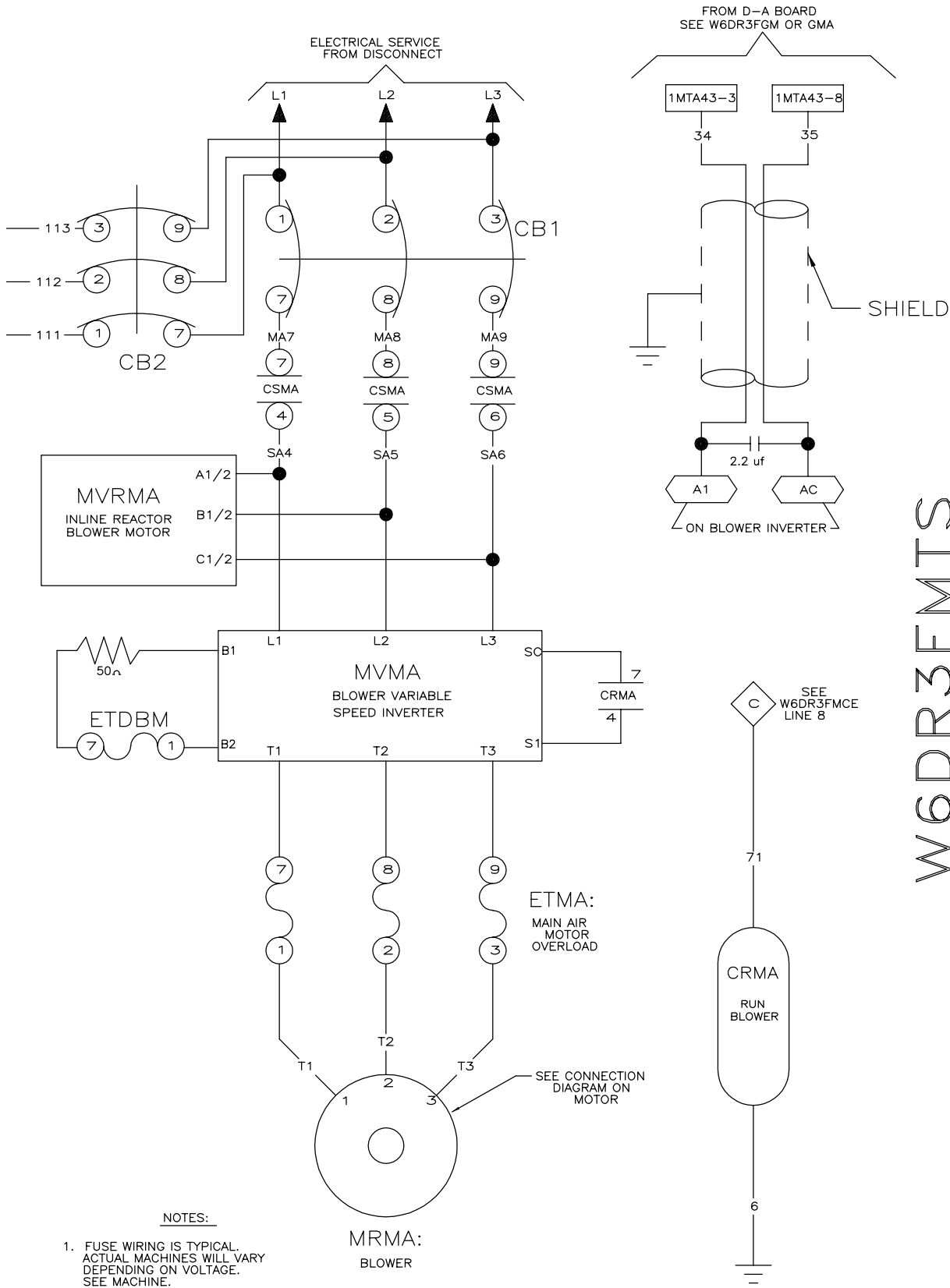
50HZ		60HZ	
220	11-12	200-208	11-12
380	11-13	220-380	11-13
415-440	11-14	440-480	11-14
		575	11-15

W6DR3FMTR
DRYER-GAS
MICRO 6 SYSTEMS MARK V
SCHEMATIC: MOTORS + INCOMING VOLTAGES
PELLERIN MILNOR CORPORATION

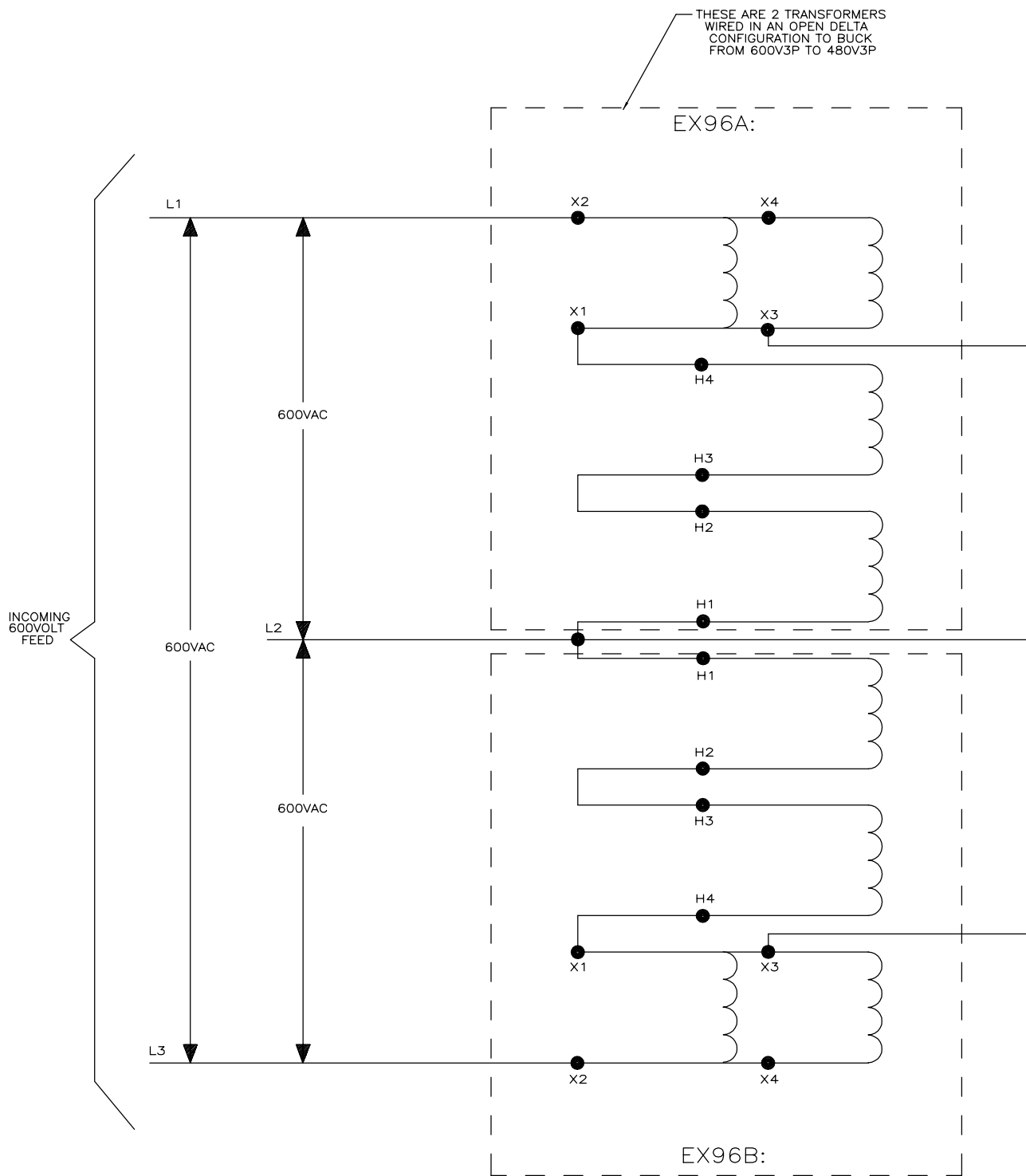
NOTES

1. TBB AND TBC ARE LOCATED IN THE RIGHT CONTROL BOX.

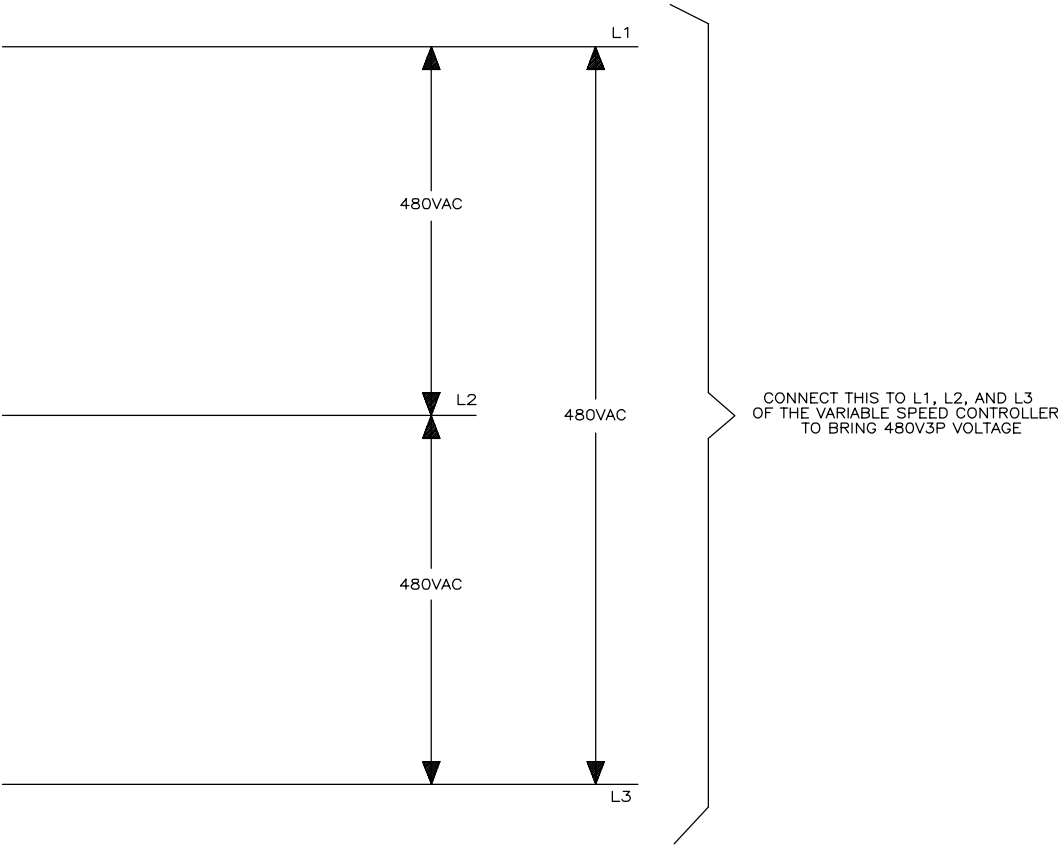




W6DR3FMTS
2011305B

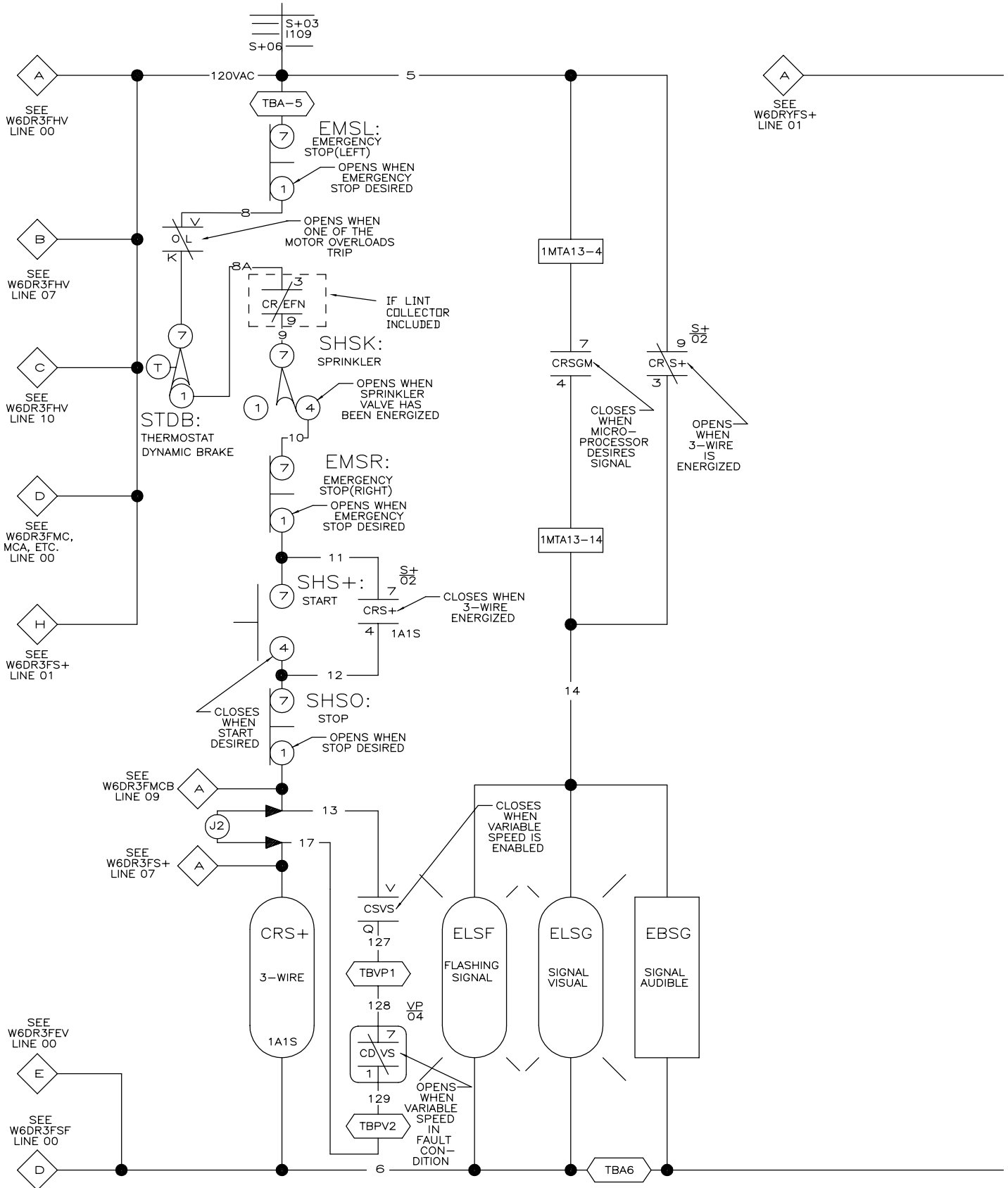


INPUT (SUPPLY SYSTEM)	DESIRED OUTPUT CONNECTION	
DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
OPEN DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
WYE 3 OR 4 WIRE	CLOSED DELTA 3 WIRE	DO NOT USE
WYE 4 WIRE	WYE 3 OR 4 WIRE	OK
WYE 3 OR 4 WIRE	OPEN DELTA 3 WIRE	OK
CLOSED DELTA 3 WIRE	OPEN DELTA 3 WIRE	OK



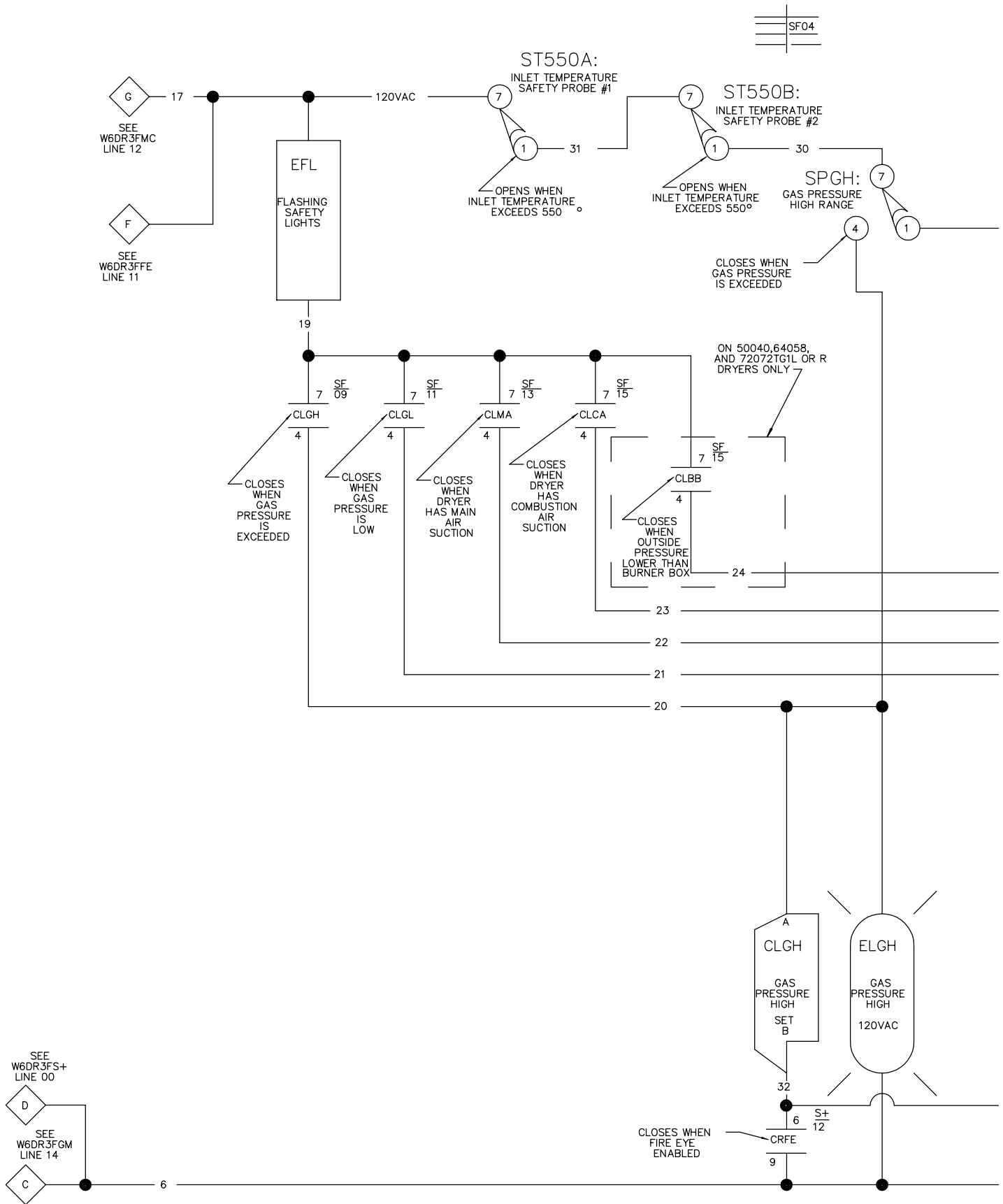
W6DR3FMT6
GAS DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: 600V FOR COMBUSTION AIR INVERTER
PELLERIN MILNOR CORPORATION

W6DR3FMT6
2011453B





W6DR3FS+
2011204B



SF04

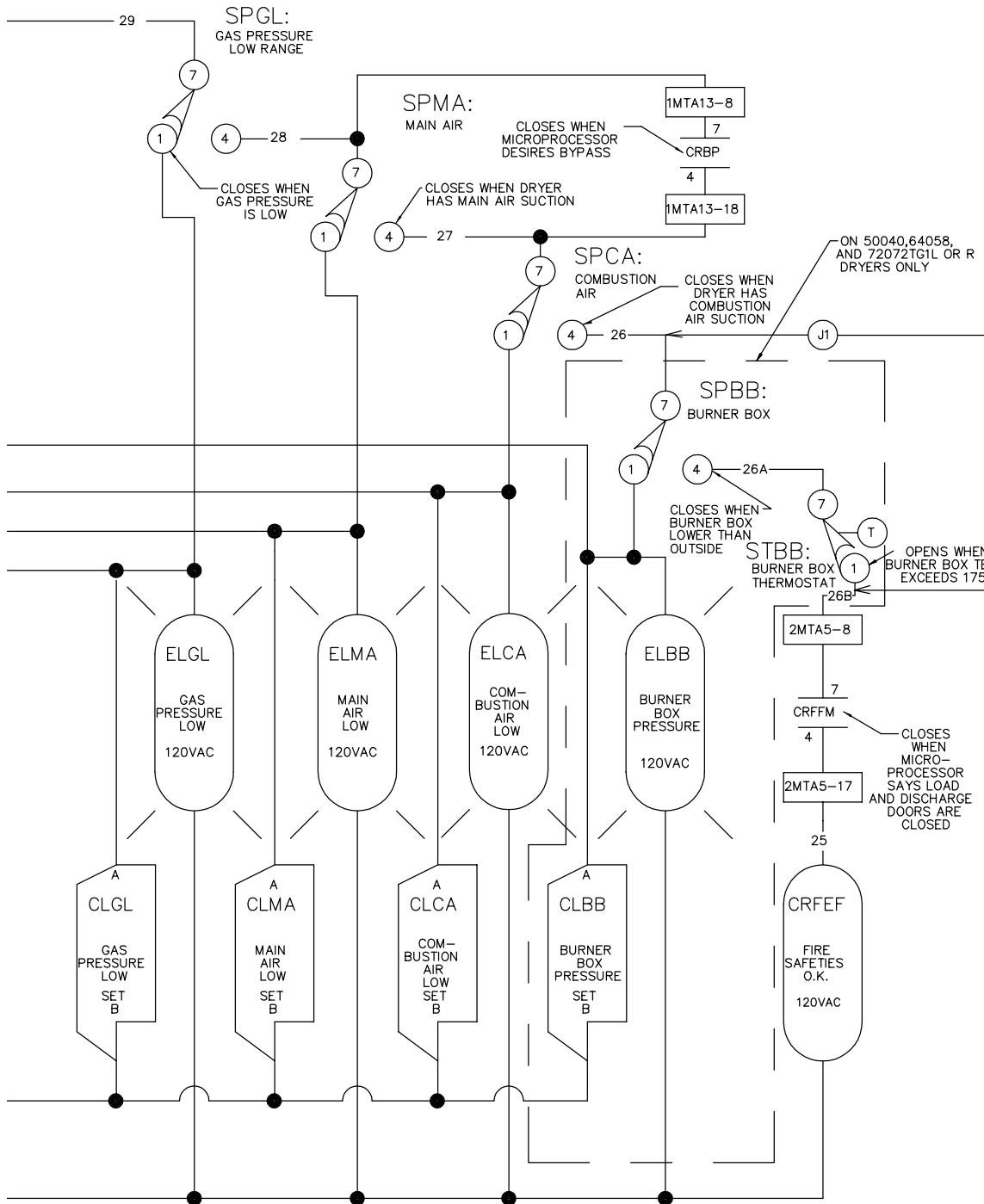
SF05

SF06
GI08

SF07

I108
FE09 FE08

W6DR3FSF
2011453B

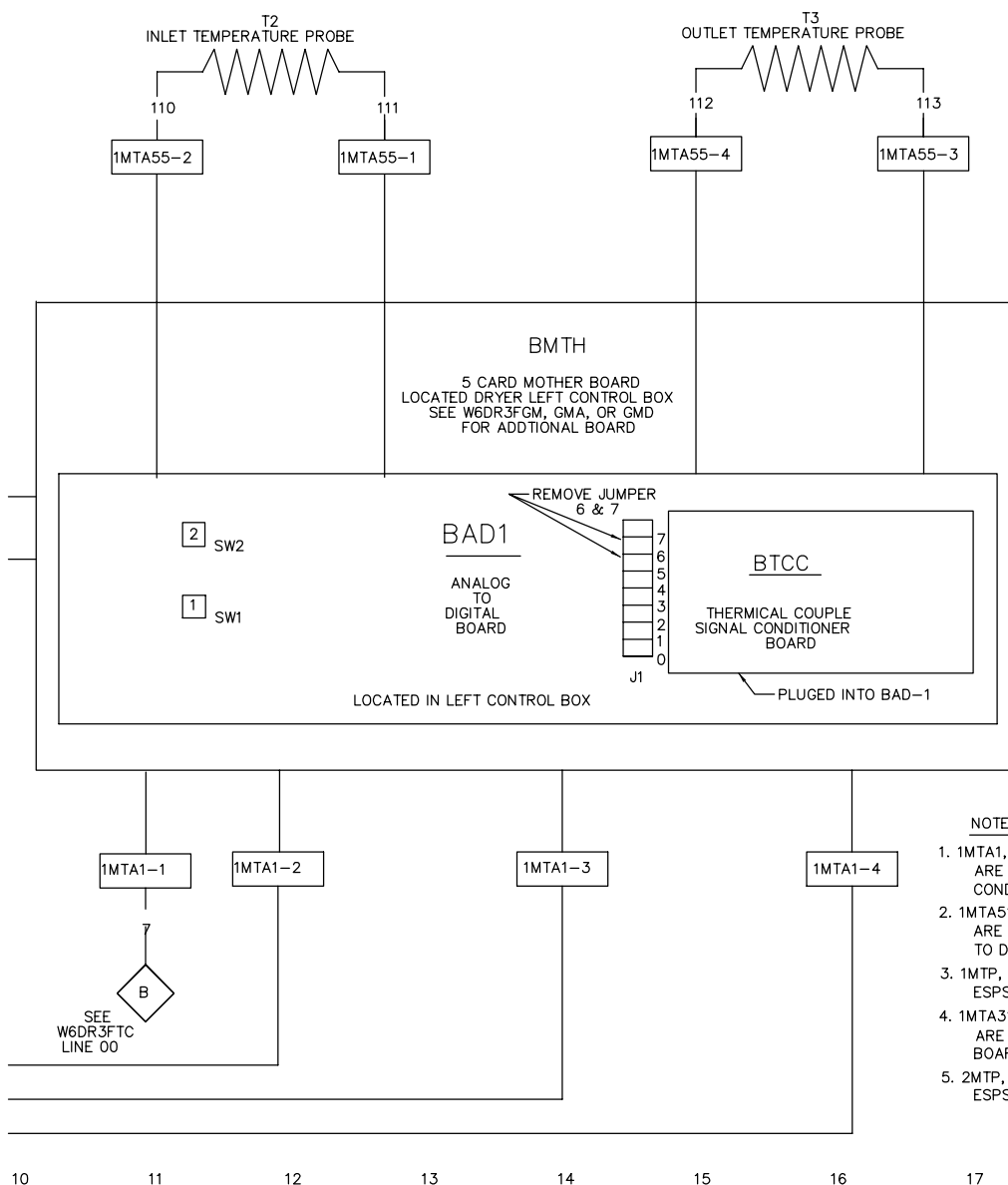


W6DR3FSF
GAS-DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: GAS TRAIN SAFETIES
110V1P50HZ/120V1P60HZ
DO NOT USE WITH LANDIS & GYR FIRE CONTROLLER
PELLERIN MILNOR CORPORATION

1. REMOVE (J1) FOR 50040,64058,
AND 72072TG1L OR R EQUIPPED
WITH BURNER BOX PRESSURE SWITCH

WIRE COLORING CODE		
WIRE NO.	VOLTAGE	WIRE COLOR
103	+5V	BLUE/RED
104	+12V	BLUE/ORANGE
105	-12V	BLUE/BLACK
7	GND	BLUE/WHITE
107	SERIAL HIGH	BLUE/RED
106	SERIAL LOW	BLUE/BLACK
109	MILNET HIGH	BLUE/RED
108	MILNET LOW	BLUE/BLACK
—	24VAC	BLUE/RED
—	120VAC	RED
6	CONTROL GROUND	RED/WHITE
—	INPUTS	BLUE/BLACK
—	OUTPUTS	RED BLACK

W6DR3FTC
2011422B



W6DR3FTC

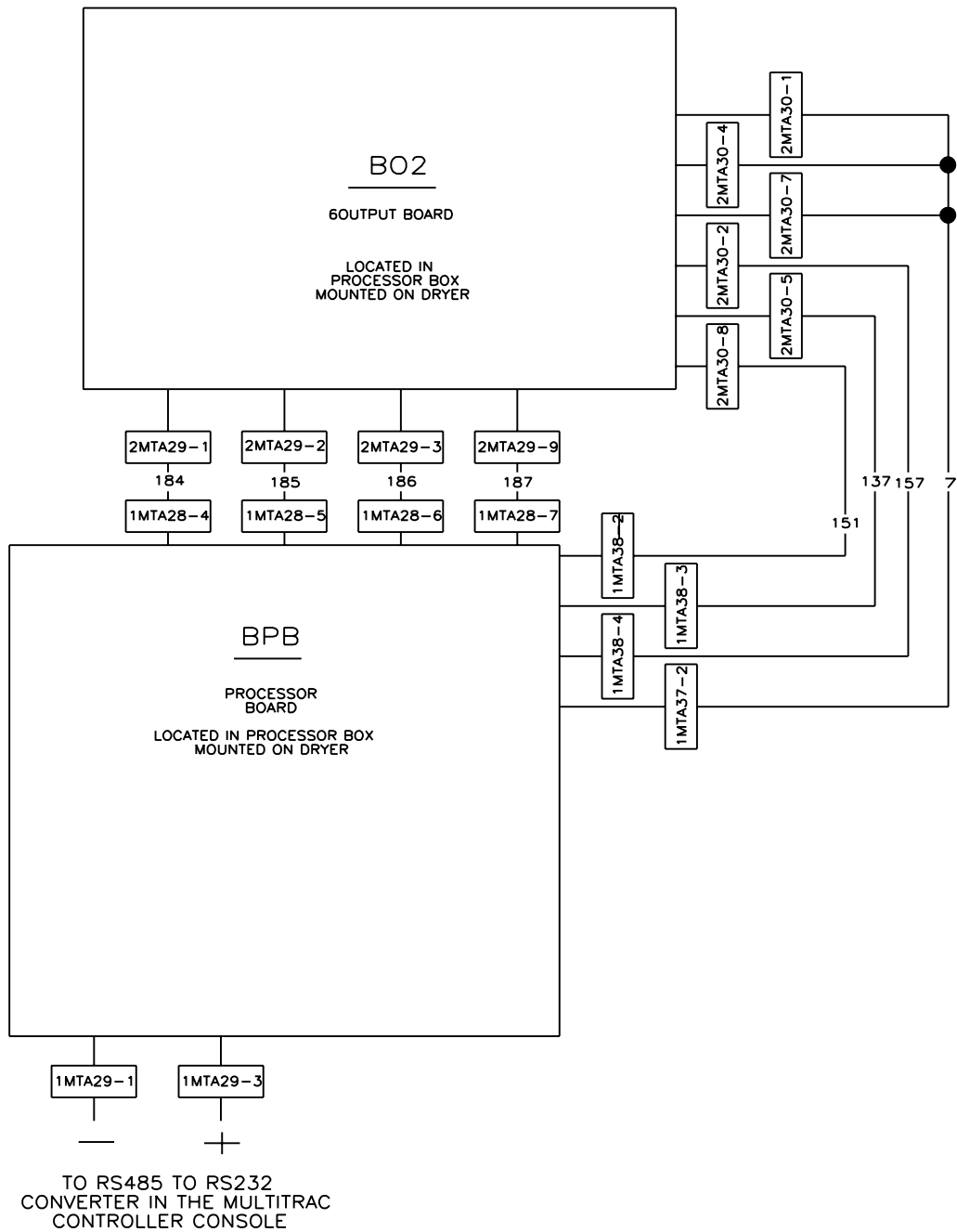
GAS-DRYER

MICRO 6 SYSTEMS MARK V

SCHEMATIC: 186 PROCESSOR + THERMOCOUPLES

PELLERIN MILNOR CORPORATION

10 11 12 13 14 15 16 17 18 19

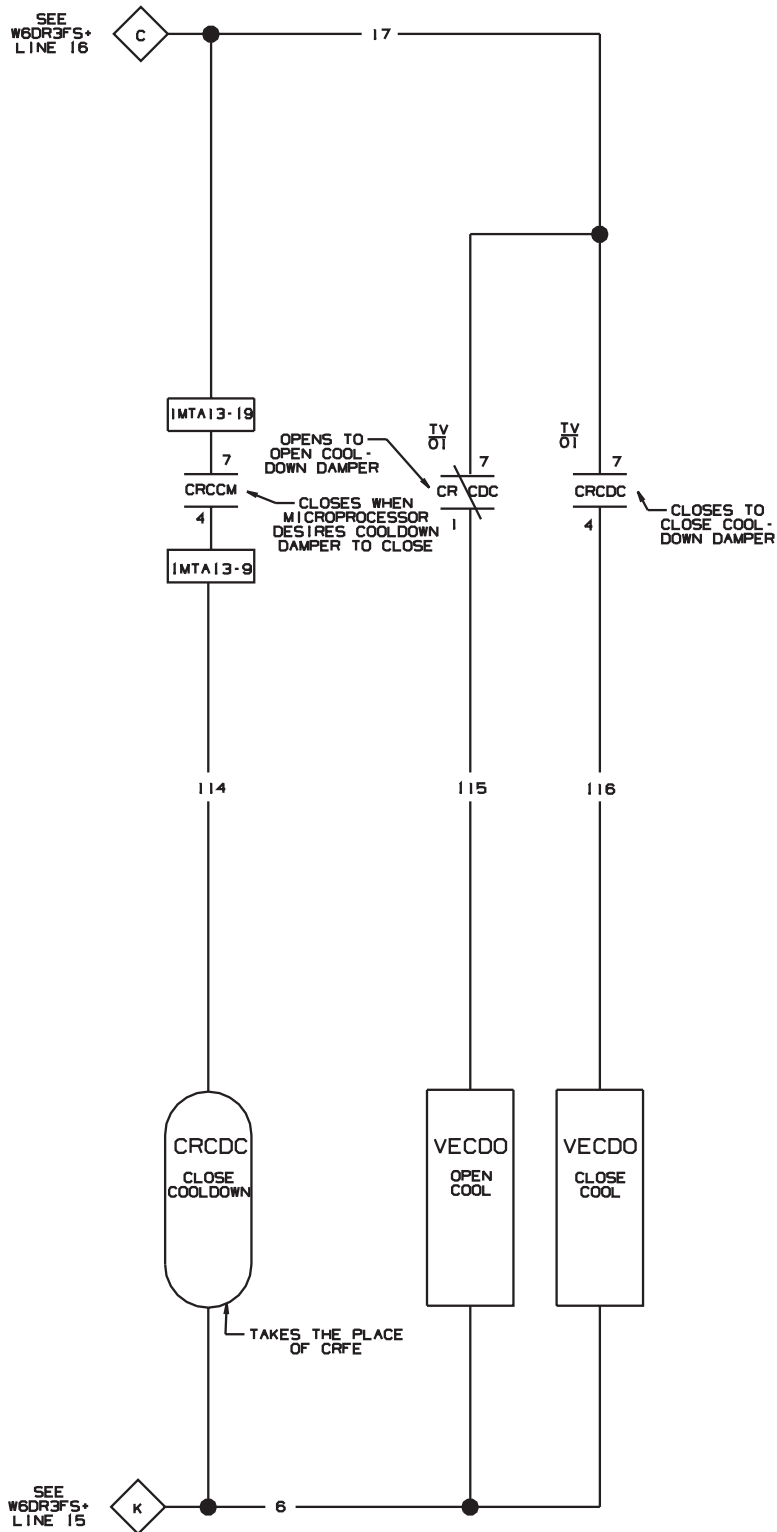


NOTE:

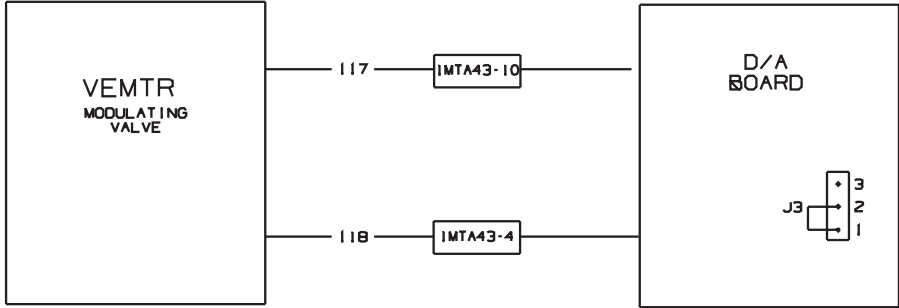
WHEN A DRYER IS CONTROLLED BY A MULTITRAC
CONTROLLER RATHER THAN AN INDIVIDUAL
DRYER CONTROLLER, THIS SCHEMATIC REPLACES
W6DR3FD, W6DR3FKP AND THE DIRECT INPUTS FOR
LOAD ALLOWED, MILDATA, AND PROGRAM KEY AS
SHOWN ON W6DR3F11

W6DR3FTR
DRYER – GAS
MICRO 6 SYSTEMS
SCHEMATIC; BOARD WIRING FOR INTERFACE WITH
DRYER/SHUTTLE CONTROLLER
PELLERIN MILNOR CORPORATION

W6DR3FTR
2002363B

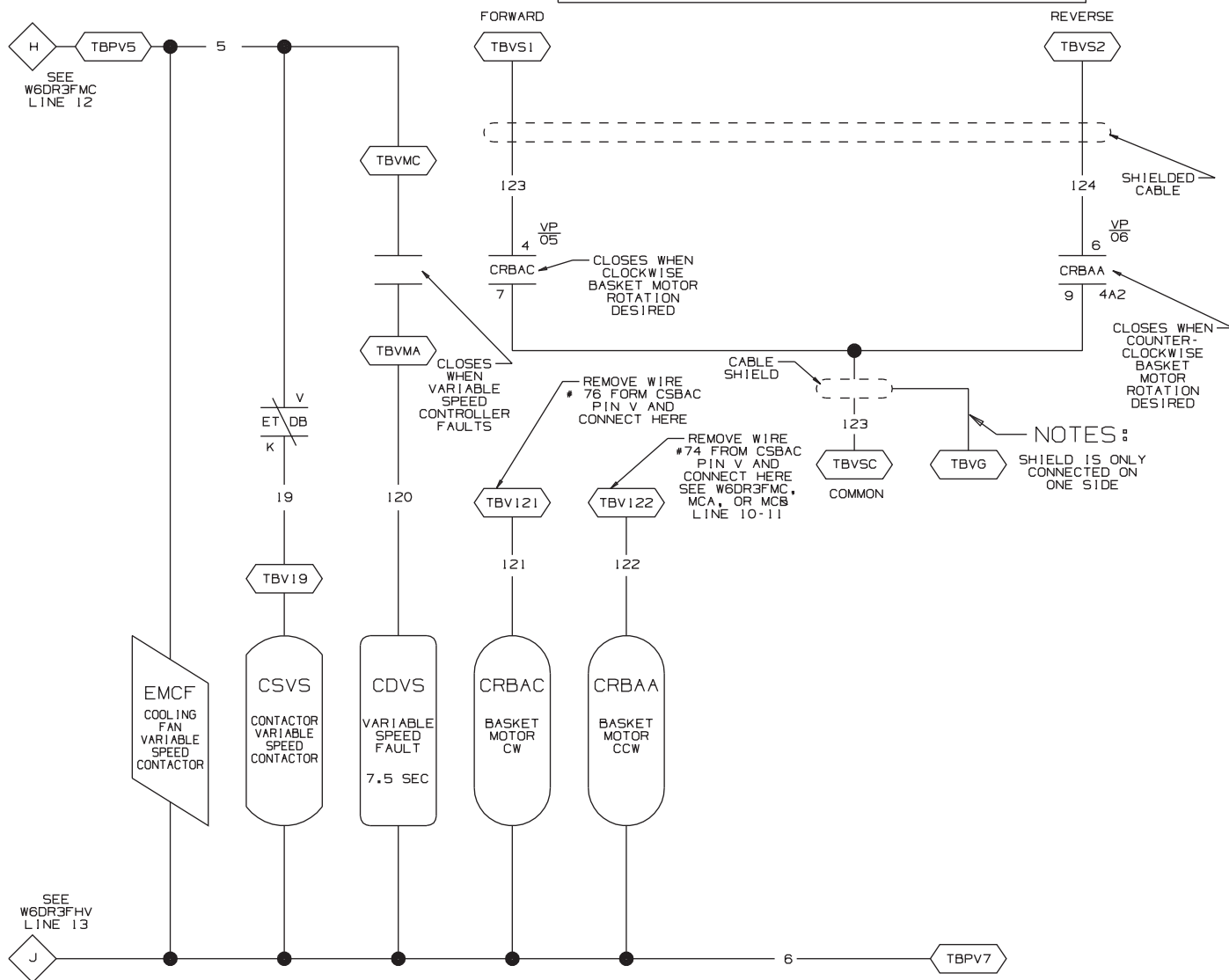
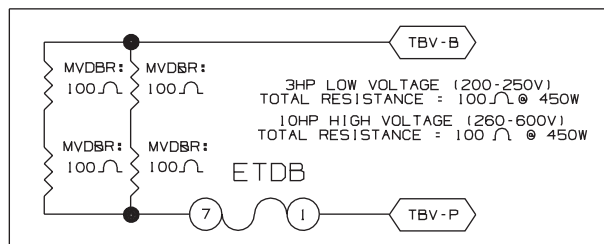
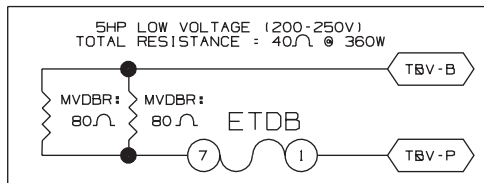
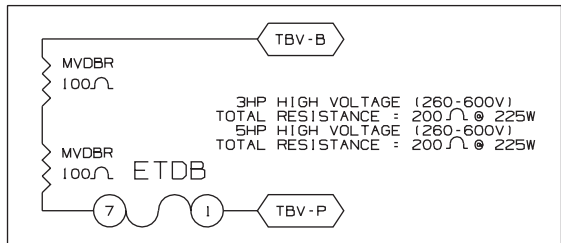
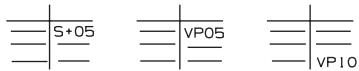


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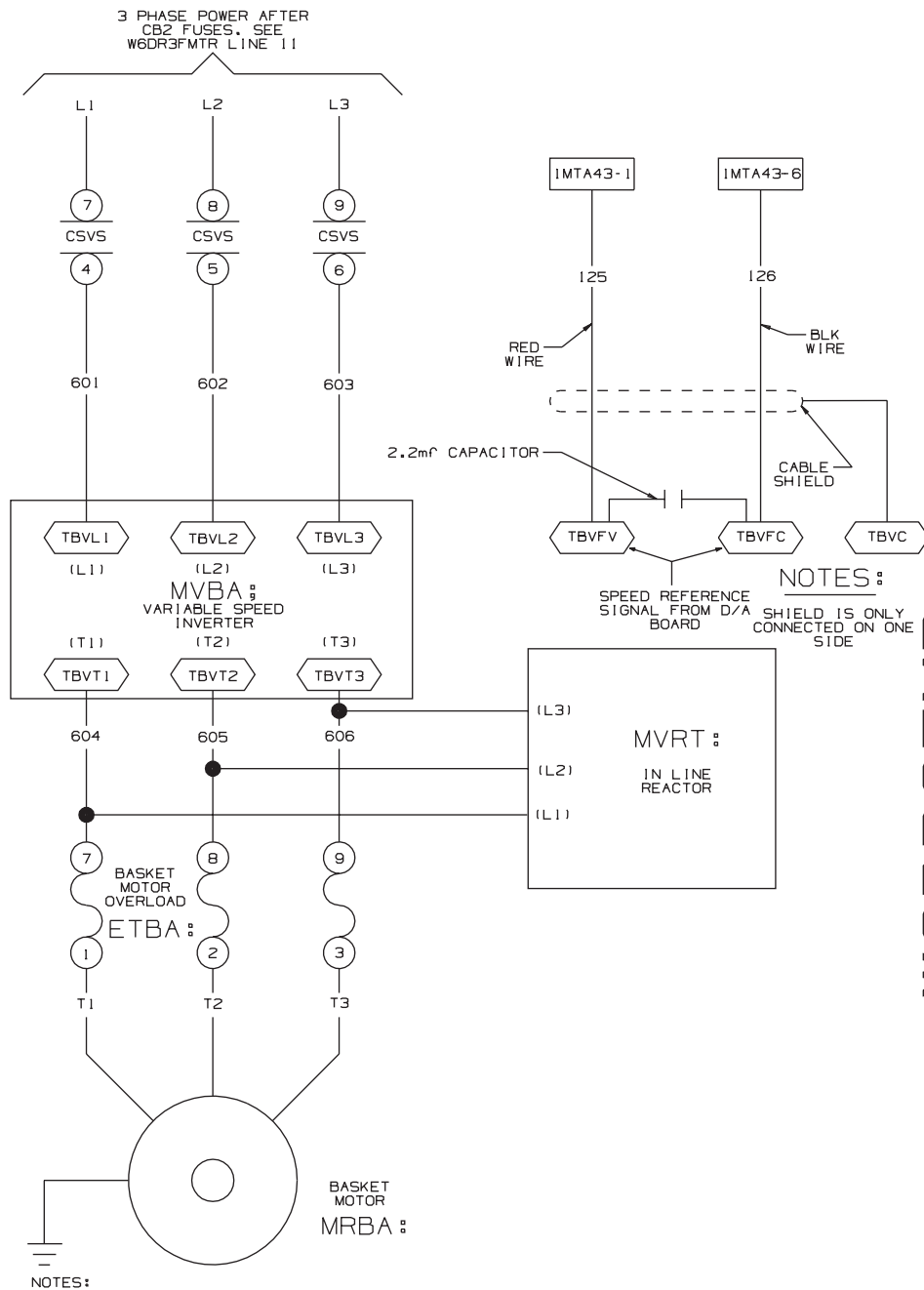


W6DR3FTV
GAS-DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: THERMAL OIL MODULATING VALVE

PELLERIN MILNOR CORPORATION



00 01 02 03 04 05 06 07 08 09 10



NOTES:

1. TBV IS LOCATED IN VARIABLE SPEED CONTROLLER BOX.
2. IMTA43 IS LOCATED ON BDA-1 (DIGITAL TO ANALOG BOARD).

W6DR3FVP
GAS-DRYER
MARK V
SCHEMATIC: OPTIONAL VARIABLE SPEED
CONTROLLER
PELLERIN MILNOR CORPORATION