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Schematic/Electrical Parts

50TG2L/R, 64, 72, 76 & 82TG1L/R Mark V Controls

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

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

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COMPONENT PARTS LIST

W6DR3FPL/2025206N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
000	**>>CONTROL BOX LAYOUTS**				
001	DETAIL-GAS DRYER CONTROL BOARDS	W6DR3FTG1	B2TAG96015	TAG:GAS DRYER CONTROL BDS<>	SEE FUNCTION
002	DETAIL-DRYER COMBUSTION INVERTER BOX	W6DR3FTG1	B2T2015007	TAG DRYER COMBUSTION INVERTER BOX	SEE FUNCTION
003	DETAIL-50 GAS DRYER HIGH VOLT PANEL	W6DR3FTG4	B2T2008013	TAG:50"GAS DRYER L/R HIGH VOLTBX<>	SEE FUNCTION
004	DETAIL-64 GAS DRYER AIR VALVE BOX	W6DR3FTG4	B2T2001008	TAG:6458/7272TG1L/R GAS DRYER AIR VALV	SEE FUNCTION
005	DETAIL-PROC BD W/DRYER/SHUT CNTRL	W6DR3FTG4	B2T2001010	TAG:186 PROC BD (DRYER/SH)	SEE FUNCTION
006	DETAIL-64/72 GAS DRYER LOW VOLT PANEL	W6DR3FTG6	B2T2002006	6458/7272TG1L/R LOW VOLTAGE PANEL	SEE FUNCTION
007	DETAIL-64/72 GAS DRYER HIGH VOLT PANEL	W6DR3FTG6	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
BARDI	BOARD REMOTE FIRE EYE DISPLAY INF	W6DR3FFERD	09X160R	ED610 REMOTE DISPLAY INTRFACE BD MEC120	LV BX/MULTITRAC
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	W6DR3FGML	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	W6DR3FGML	08BS816HT	BOARD:HIGH SPEED 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	W6DR3FGML	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
BIO-3	BOARD-8OUTPUT/16INPUT #3	W6DR3FGMA	08BS816CT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX
BIO-3	BOARD-8OUTPUT/16INPUT #3	W6DR3FGML	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
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	W6DR3FGML	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO2	BOARD-6 OUTPUT	W6DR3FTR	08BN6OAT	6 OUTPUT BOARD->TEST	PROCESSOR BX
BPB	BOARD-MICROPROCESSOR <8-2018	W6DR3FSTC	08BSPE2T	SERIAL 186 PROC BD+FP->TEST	PROCESSOR BX
BPB	BOARD-MICROPROCESSOR <8-2018	W6DR3FSTC	08BSPE3T	BD: SERIAL 186PROCESSOR SMD->TEST	PROCESSOR BX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
BPB	BOARD-MICROPROCESSOR >8-2018	W6DR3FSTR	08BSPE2T	SERIAL 186 PROC BD+FP->TEST	PROCESSOR BX
BPB	BOARD-MICROPROCESSOR >8-2018	W6DR3FSTR	08BSPE3T	BD: SERIAL 186PROCESSOR SMD->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	W6DR3FGML	08BNDSRAT	BD:DRY SAFETY ROTATION->TEST	LOW VOLT BOX
CB	**>>>CIRCUIT BREAKERS**				
CB1	CIRCUIT BREAKER- BSK/COMB MOTORS	W6DR3FMTM	09FC016CAA	IEC MINI CIR. BREAKER 16A 480V3P D CURVE	HIGH VOLT BX
CD	**>>RELAY-TIME DELAY**				
CDEFN	DELAY-WATER FOR FIRE <2-7-2019	W6DR3FLSA	09CF030037	TDR F30S 2PDT 11PIN 120V50/60C	LOW VOLT BOX
CDEFN	DELAY-WATER FOR FIRE >2-7-2019	W6DR3FLSA	09CA030037	TDR A30S 2PDT 11PIN 120V5/6	LOW VOLT BOX
CDVS	DELAY-VARIABLE SPEED FAULT <2-7-2019	W6DR3FS+	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	HIGH VOLT BX
CDVS	DELAY-VARIABLE SPEED FAULT >2-7-2019	W6DR3FS+	09CA0100A37	ADJSTBLE TIME DELAY 10S OMRON 100-120V	HIGH VOLT BX
CL	**>>>RELAY-LATCH**				
CLBB <1/2025	LATCH-BURNER BOX PRESSURE	W6DR3FSF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLBB >1/2025	LATCH-BURNER BOX PRESSURE	W6DR3FSF	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLCA <1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FFE	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLCA> 1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FFE	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLCA <1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FFEG	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLCA> 1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FFEG	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLCA <1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FFEH	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLCA> 1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FFEH	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLCA <1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FFEH	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLCA> 1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FFEH	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLCA <1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FFEJ	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLCA> 1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FFEJ	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	
CLCA <1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FSF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLCA> 1/2025	LATCH-COMBUSTION AIR LOW	W6DR3FSF	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLEFN <1/2025	LATCH-WATER FOR FIRE	W6DR3FLSA	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLEFN >1/2025	LATCH-WATER FOR FIRE	W6DR3FLSA	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLET <1/2025	LATCH-EXTERNAL THERMOSTAT	W6DR3FET	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BX
CLET >1/2025	LATCH-EXTERNAL THERMOSTAT	W6DR3FET	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	LOW VOLT BX
CLFET <1/2025	LATCH-FIRE EYE TRIPPED	W6DR3FFE	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLFET >1/2025	LATCH-FIRE EYE TRIPPED	W6DR3FFE	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
CLFET <1/2025	LATCH-FIRE EYE TRIPPED	W6DR3FFEG	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLFET >1/2025	LATCH-FIRE EYE TRIPPED	W6DR3FFEG	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLFET <1/2025	LATCH-FIRE EYE TRIPPED	W6DR3FFEH	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLFET >1/2025	LATCH-FIRE EYE TRIPPED	W6DR3FFEH	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLFET <1/2025	LATCH-FIRE EYE TRIPPED	W6DR3FFEH	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLFET >1/2025	LATCH-FIRE EYE TRIPPED	W6DR3FFEH	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLFET <1/2025	LATCH-FIRE EYE TRIPPED	W6DR3FFEJ	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLFET >1/2025	LATCH-FIRE EYE TRIPPED	W6DR3FFEJ	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGH <1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FFE	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGH >1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FFE	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGH <1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FFEG	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGH >1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FFEG	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGH <1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FFEH	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGH >1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FFEH	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGH <1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FFEH	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGH >1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FFEH	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGH <1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FFEJ	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGH >1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FFEJ	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGH <1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FSF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGH >1/2025	LATCH-GAS PRESSURE HIGH	W6DR3FSF	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGL <1/2025	LATCH-GAS PRESSURE LOW	W6DR3FFE	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGL >1/2025	LATCH-GAS PRESSURE LOW	W6DR3FFE	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGL <1/2025	LATCH-GAS PRESSURE LOW	W6DR3FFEG	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGL >1/2025	LATCH-GAS PRESSURE LOW	W6DR3FFEG	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGL <1/2025	LATCH-GAS PRESSURE LOW	W6DR3FFEH	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGL >1/2025	LATCH-GAS PRESSURE LOW	W6DR3FFEH	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGL <1/2025	LATCH-GAS PRESSURE LOW	W6DR3FFEH	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGL >1/2025	LATCH-GAS PRESSURE LOW	W6DR3FFEH	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGL <1/2025	LATCH-GAS PRESSURE LOW	W6DR3FFEJ	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGL >1/2025	LATCH-GAS PRESSURE LOW	W6DR3FFEJ	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLGL <1/2025	LATCH-GAS PRESSURE LOW	W6DR3FSF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLGL >1/2025	LATCH-GAS PRESSURE LOW	W6DR3FSF	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLMA <1/2025	LATCH-MAIN AIR LOW	W6DR3FFE	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX

COMPONENT PARTS LIST

W6DR3FPL/2025206N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
CLMA >1/2025	LATCH-MAIN AIR LOW	W6DR3FFE	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLMA <1/2025	LATCH-MAIN AIR LOW	W6DR3FFEG	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLMA >1/2025	LATCH-MAIN AIR LOW	W6DR3FFEG	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLMA <1/2025	LATCH-MAIN AIR LOW	W6DR3FFEH	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLMA >1/2025	LATCH-MAIN AIR LOW	W6DR3FFEH	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLMA <1/2025	LATCH-MAIN AIR LOW	W6DR3FFEH	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLMA >1/2025	LATCH-MAIN AIR LOW	W6DR3FFEH	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLMA <1/2025	LATCH-MAIN AIR LOW	W6DR3FFEJ	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLMA >1/2025	LATCH-MAIN AIR LOW	W6DR3FFEJ	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CLMA <1/2025	LATCH-MAIN AIR LOW	W6DR3FSF	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	HIGH VOLT BX
CLMA >1/2025	LATCH-MAIN AIR LOW	W6DR3FSF	09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	HIGH VOLT BX
CM	**>>CONTROL MODULE**				
CM100	CONTROL MODULE	W6DR3FFEJ	96SD022A	CM100 CONTROL MODULE W/ENCL	FIRE CONTRL PNL
CM100	CONTROL MODULE	W6DR3FFEG	96SD022A	CM100 CONTROL MODULE W/ENCL	FIRE CONTRL PNL
CP	**>>PHOTOEYE-LOAD DOOR**				
CPLDC	PHOTOEYE-LOAD DOOR CLOSED	W6DR3FI1	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	LOAD DOOR
CPLDC	PHOTOEYE-LOAD DOOR CLOSED	W6DR3FI3	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	LOAD DOOR
CPLDO	PHOTOEYE-LOAD DOOR OPEN	W6DR3FI1	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	LOAD DOOR
CR	**>>RELAY-PILOT OR CONTROL**				
CRBAA	RELAY-BASKET MOTOR CCW	W6DR3FMTB	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRBAC	RELAY-BASKET MOTOR CW	W6DR3FMTB	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRCA	RELAY-COMBUSTION AIR	W6DR3FMTC	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRCDC	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
CRDH	RELAY-DISCHARGE DOOR CLOSED	W6DR3FFEK	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-FIRE SAFETIES O,K.	W6DR3FFEK	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	W6DR3FFEK	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRFET	RELAY-FIRE CONTROLLER TRIPPED	W6DR3FFEL	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
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 PNL
CRGA	RELAY-GAS VALVE ENABLED	W6DR3FFEK	09C024D37	4PDT "KH" 110/120V	FIRE CONTR PNL
CRLDC	RELAY-LOAD DOOR CLOSED	W6DR3FEV	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRMA	RELAY-RUN BLOWER	W6DR3FMTM	09C024D37	4PDT "KH" 110/120V	HIGH VOLT BX
CRMA1	RELAY-RUN BLOWER (OPT) VAC LOAD SPD	W6DR3FMTM	09C024D37	4PDT MINITURE RELAY PT W/LED	BLOWER INV BX
CRS+	RELAY-3-WIRE	W6DR3FS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRSTX#	RELAY-SPRINKLER TRIPPED	W6DR3FS+A	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRSTY	RELAY-SPRINKLER NOT TRIPPED	W6DR3FS+A	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRV	RELAY-ENERGENICS OPERATE VACUUM	W6DR3FLSA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRXCB	RELAY-COMBUSTION DAMPER	W6DR3FI1	09C024DC12	RELAY 12VDC 14 PIN OMRON	LOW VOLT BOX
CRXMB	RELAY-MAIN AIR DAMPER	W6DR3FI1	09C024DC12	RELAY 12VDC 14 PIN OMRON	LOW VOLT BOX
CS	**>>CONTACTOR-MOTOR STARTER**				
CSCA	CONTACTOR-COMBUSTION AIR 64/72TG1L/R	W6DR3FMTC	09MC08C337	16A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSMA	CONTACTOR-MAIN AIR 64/72TG1L/R LO VOLT	W6DR3FMTM	09MC04U337	180A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSMA	CONTACTOR-MAIN AIR 64/72TG1L/R HI VOLT	W6DR3FMTM	09MC04T337	110A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSVS	CONTACTOR-BASKET INVERTER-64/72TG1L/R	W6DR3FMTB	09MC08C337	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**				
EECU	PROGRAMMING UNIT FOR LOW NOX	W6DR3FGML	09Y141	SEIMENS STANDARD PROGRAMMING DISPLAY FC	LOW VOLT BOX
EEDU	DISPLAY REMOTE FIRE EYE	W6DR3FFERD	09X160D	ED510 DISPLAY MEC120	MULTITRAC
EEEU	CONTROLLER-FIRE	W6DR3FE	09X151	FLAME SAFE CTL ASSY #MC120	FIRE CONTRL PNL
EEEU	CONTROLLER-FIRE	W6DR3FEA	09X150A3	FLAME SAFE CTL ASSY #MC120	FIRE CONTRL PNL
EEEU	CONTROLLER-FIRE	W6DR3FEB	09X151	BURNER CTL-AUSTR.110/50 10SEC	FIRE CONTRL PNL
EEEU	CONTROLLER-FIRE	W6DR3FEG	09X151	BURNER CTL-AUSTR.110/50 10SEC	FIRE CONTRL PNL
EEEU	CONTROLLER-FIRE	W6DR3FEH	09X160	MEC120RD, CHASSIS WITH DISPLAY AND REMOTE	FIRE CONTRL PNL
EEEU	CONTROLLER-UV SCANNER	W6DR3FEH	09X160A	MEUV4 UV AMPLIFIER FOR MEC120	BURNER
EEEU	CONTROLLER-UV SCANNER	W6DR3FEH	09X160A	MEUV4 UV AMPLIFIER FOR MEC120	BURNER
EEEU	CONTROLLER-FIRE	W6DR3FEJ	09X160	MEC120RD, CHASSIS WITH DISPLAY AND REMOTE	FIRE CONTRL PNL
EEEU	CONTROLLER-FIRE	W6DR3FFEK	09X150A3	FLAME SAFE CTL ASSY #MC120	FIRE CONTRL PNL

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
EEEU	CONTROLLER-FIRE LOW NOX	W6DR3FFEL	09Y140	SEIMENS SINGLE FUEL CONTROL UNIT 110V	FIRE CONTRL PNL
EEEU	CONTROLLER-UV SCANNER LOW NOX	W6DR3FFEL	09X160U	UV1A6 UV SCANNER FOR MEC120	BURNER
EEEU	CONTROLLER-FIRE	W6DR3FFERD	09X160P	MEP100 PROGRAMMER FOR MEC120	FIRE CONTRL PNL
EF	**>>FUSE OR FUSE HOLDER**				
EF37	FUSE-120V CONTROL CIRCUIT	W6DR3FHV	09FF006AHG	FUSE #BK/MDL 6 AMP 125V	HIGH VOLT BX
EFET	LIGHT FLASHING EXT TEMPERATURE HIGH	W6DR3FET	09H025V37	REACON ROTARY 5.5"DIA AMBER	EXT TEMP BOX
EFP1(HV)	FUSE=120V TRANSFORMER PRIMARY	W6DR3FHV	09FF003AWN	FUSE #KTK 3A600V=HPS HOLDER	HIGH VOLT BX
EFP1(LV)	FUSE=120V TRANSFORMER PRIMARY	W6DR3FHV	09FF005AWN	FUSE #KTK 5A600V=HPS HOLDER	HIGH VOLT BX
EFP2(HV)	FUSE=120V TRANSFORMER PRIMARY	W6DR3FHV	09FF003AWN	FUSE #KTK 3A600V=HPS HOLDER	HIGH VOLT BX
EFP2(LV)	FUSE=120V TRANSFORMER PRIMARY	W6DR3FHV	09FF005AWN	FUSE #KTK 5A600V=HPS HOLDER	HIGH VOLT BX
EL	**>>LIGHT-PILOT OR INDICATOR**				
ELBB	LIGHT-BURNER BOX PRESSURE	W6DR3FFEK	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELBB	LIGHT-BURNER BOX PRESSURE	W6DR3FSF	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELCA	LIGHT-COMBUSTION AIR LOW	W6DR3FFEA	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELCA	LIGHT-COMBUSTION AIR LOW	W6DR3FFEK	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
ELCA	LIGHT-COMBUSTION AIR LOW	W6DR3FSFL	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	W6DR3FSPR	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGH	LIGHT-GAS PRESSURE HIGH	W6DR3FFEA	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGH	LIGHT-GAS PRESSURE HIGH	W6DR3FFEK	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGH	LIGHT-GAS PRESSURE HIGH	W6DR3FSF	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGH	LIGHT-GAS PRESSURE HIGH	W6DR3FSFL	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGL	LIGHT-GAS PRESSURE LOW	W6DR3FFEA	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELGL	LIGHT-GAS PRESSURE LOW	W6DR3FFEK	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	W6DR3FSFL	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	W6DR3FFEA	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMA	LIGHT-MAIN AIR LOW	W6DR3FFEK	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
ELMA	LIGHT-MAIN AIR LOW	W6DR3FSF	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMA	LIGHT-MAIN AIR LOW	W6DR3FSFL	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	W6DR3FFEA	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
ELMI	LIGHT-IGNITION ENABLED	W6DR3FFEH	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMI	LIGHT-IGNITION ENABLED	W6DR3FFEJ	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMI	LIGHT-IGNITION ENABLED	W6DR3FFEK	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMI	LIGHT-IGNITION ENABLED	W6DR3FFEL	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	W6DR3FFEA	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
ELMT	LIGHT-MAIN GAS ENABLED	W6DR3FFEH	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMT	LIGHT-MAIN GAS ENABLED	W6DR3FFEJ	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMT	LIGHT-MAIN GAS ENABLED	W6DR3FFEK	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELMT	LIGHT-MAIN GAS ENABLED	W6DR3FFEL	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	W6DR3FFEG	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELPG	LIGHT-PILOT VALVE ENABLED	W6DR3FFEH	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELPG	LIGHT-PILOT VALVE ENABLED	W6DR3FFEJ	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELPG	LIGHT-PILOT VALVE ENABLED	W6DR3FFEK	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	LOW VOLT BOX
ELPG	LIGHT-PILOT VALVE ENABLED	W6DR3FFEL	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**				
EMS	**>>>EMERGENCY STOP SWITCHES**				
EMSK	SOLENOID-SPRINKLER	W6DR3FSPR	09K061D	SOLENOID 120V 60C #8940	SPRINKLER ASSY
EMSL	SWITCH-EMERGENCY STOP LEFT	W6DR3FS+	09N508	SW ASSY EMER STOP VERSION 3	SIDE OF MACH LF
EMSR	SWITCH-EMERGENCY STOP RIGHT	W6DR3FS+	09N508	SW ASSY EMER STOP VERSION 3	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

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
ET	**>>THERMAL OVERLOAD DEVICES**				
ETBA	OVERLOAD-64/72TG1L/R-ALL VOLTAGES	W6DR3FMTB	09FTD0037T	MCS OL RELAY ADJ.RANGE 3.7-12	HIGH VOLT BX
ETCA	O'LOAD-CMBSTN AIR 64/72TG1L/R ALLVOLT	W6DR3FMTC	09FTD0010T	MCS OL RELAY ADJ.RANGE 1.0-2.9	HIGH VOLT BX
ETDB (<03-09)	OVERLOAD-DYNAMIC BRAKE	W6DR3FMTB	09F024A	OL RELAY 1P SZ1 SQD #9065-C01	HIGH VOLT BX
ETMA	OVERLOAD-64/72TG1-LOW VOLTAGE	W6DR3FMTM	09FTC0570T	OL RELAY 57-180A AB #193-A3M5	HIGH VOLT BX
ETMA	OVERLOAD-64/72TG1-HIGH VOLTAGE	W6DR3FMTM	09FTC0230T	OL RELAY 23-75A AB #193-A3K4	HIGH VOLT BX
ETMA	OVERLOAD-MAIN AIR MOTOR	W6DR3FMTM	09FTD0030T	OL RELAY 30-150A AB #193-EEHF	HIGH VOLT BX
EX	**>>TRANSFORMERS**				
EX37	TRANSFORMER-208/240>120VAC	W6DR3FHV	09U249AA37	XFMR 200-240V PRI/120VSEC/250VA	HIGH VOLT BX
EX37	TRANSFORMER-380/480>120VAC	W6DR3FHV	09U200AAB	XFMR 380-480V/240-120V-250VA	HIGH VOLT BX
EX37	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 50HZ	MOTOR-BASKET ROTATION	W6DR3FMTB	39T030EAM	3HP 2P TEFC 220/380/440 50C	MACHINE BASE
MRBA 60HZ	MOTOR-BASKET ROTATION	W6DR3FMTB	39T030EAN	3HP2P TEFC 208/230/460 60C	MACHINE BASE
MRCA	MOTOR-COMBUSTION AIR	W6DR3FMTC	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	MACHINE BASE
MRMA	MOTOR-MAIN AIR 50040TG1L&R =600V	W6DR3FMTM	39T075AAX	7.5HP 2P TEFC 600V3P60 HPUMP	MACHINE TOP
MRMA	MOTOR-MAIN AIR 64058TG1L&R <250V	W6DR3FMTM	39T250AAH	25HP 2P TEFC 208V3P60C	MACHINE TOP
MRMA	MOTOR-MAIN AIR 64058TG1L&R >250V	W6DR3FMTM	39T250AAU	25HP 2P TEFC UNIVOLTS	MACHINE TOP
MRMA	MOTOR-MAIN AIR 64058TG1L&R =600V	W6DR3FMTM	39T250AAX	25HP 2P TEFC 600V3P60C	MACHINE TOP
MRMA	MOTOR-BLOWER	W6DR3FMTM	39T300ABU	30HP 2P TEFC UNIVOLT JUNCTION BOX F3 LOCAT	MACHINE TOP
MTVCA	FAN-INVERTER COOLING COMBUSTION AIR	W6DR3FMTC	13AF100A37	FAN 92CFM115V60 NEWARK #90F6921	CMBSTN INV BX
MTVMA	FAN-INVERTER COOLING MAIN AIR	W6DR3FMTM	13AF100A37	FAN 92CFM115V60 NEWARK #90F6921	MAIN AIR INV BX
MV	**>>INVERTERS AND RELATED PARTS**				
MVBA	INVERTER-BASKET <250V	W6DR3FMTB	09MWD01174	GA500 INVERTER 11 AMP 230V	HIGH VOLT BX
MVBA	INVERTER-BASKET <250V	W6DR3FMTB	09MWB01174	V1000 INVERTER 11AMP 230V	HIGH VOLT BX
MVBA	INVERTER-BASKET 50,64TG1>250V	W6DR3FMTB	09MWD00596	GA500 INVERTER 5.6 AMP 460V	HIGH VOLT BX
MVBA	INVERTER-BASKET 50,64TG1>250V	W6DR3FMTB	09MWB00596	V1000 INVERTER 5.5AMP 460V	HIGH VOLT BX
MVBA	INVERTER-BASKET 72072TG1L&R>250V	W6DR3FMTB	09MWD00596	GA500 INVERTER 5.6 AMP 460V	HIGH VOLT BX
MVBA	INVERTER-BASKET 72072TG1L&R>250V	W6DR3FMTB	09MWD00996	GA500 INVERTER 9.2 AMP 460V	HIGH VOLT BX
MVBA	INVERTER-BASKET 72072TG1L&R>250V	W6DR3FMTB	09MWB00996	V1000 INVERTER 9.2AMP 460V	HIGH VOLT BX
MVBMA	INVERTER BRAKE MODULE 72072TG1>250V	W6DR3FMTM	09MVBT25HC	BRAKE MODULE-OPEN CHASSIS	BLOWER INV BX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
MVBR	INVERTER-BRAKE RESISTOR	W6DR3FMTM	09MV050REV	RESISTOR 50 OHM 225W #FVT200-50	BLOWER INV BX
MVCA	INVERTER-COMBUSTION AIR	W6DR3FMTC	09MWD00796	GA500 INVERTER 7.3 AMP 460V	HIGH VOLT BX
MVCA	INVERTER-COMBUSTION AIR	W6DR3FMTC	09MWB00796	V1000 INVERTER 7.2AMP 460V	HIGH VOLT BX
MVDBC	INVERTER-BRAKE RESISTOR	W6DR3FMTC	09MV100RES	RESIST 100 OHM 225WATT ADJ	CMBSTN INV BX
MVDBR	INVERTER-BRAKE RESISTOR-64TG1	W6DR3FMTB	09MV100RES	RESIST 100 OHM 225WATT ADJ	HIGH VOLT BX
MVDBR	INVERTER-BRAKE RESISTOR-72072TG1	W6DR3FMTB	09MV050REV	RESISTOR 50 OHM 225W #FVT200-50	HIGH VOLT BX
MVMA	INVERTER-BLOWER 50,64TG1<250V	W6DR3FMTM	09MWE07574	GA800 INVERTER 75 AMP 230V	BLOWER INV BX
MVMA	INVERTER-BLOWER 50,64TG1<250V	W6DR3FMTM	09MWC07574	A1000 INVERTER 75 AMP	BLOWER INV BX
MVMA	INVERTER-BLOWER 50,64TG1>250V	W6DR3FMTM	09MWE03996	GA800 INVERTER 39 AMP 460V	BLOWER INV BX
MVMA	INVERTER-BLOWER 50,64TG1>250V	W6DR3FMTM	09MWC03996	A1000 INVERTER 39 AMP	BLOWER INV BX
MVMA	INVERTER-BLOWER 72072TG1>250V	W6DR3FMTM	09MWE06096	GA800 INVERTER 60 AMP 460V	BLOWER INV BX
MVMA	INVERTER-BLOWER 72072TG1>250V	W6DR3FMTM	09MWC06096	A1000 INVERTER 60 AMP	BLOWER INV BX
MVMA	INVERTER-BLOWER 64TG1<250V	W6DR3FMTM	09MWE04596	GA800 INVERTER 45 AMP 460V	BLOWER INV BX
MVMA	INVERTER-BLOWER 64TG1<250V	W6DR3FMTM	09MWC04596	A1000 INVERTER 45 AMP	BLOWER INV BX
MVRMA	REACTOR-BLOWER 50,64TG1<250V	W6DR3FMTM	09MX300A74	REACTOR 25/30HP 230V 80A	BLOWER INV BX
MVRMA	REACTOR-BLOWER 50,64TG1>250V	W6DR3FMTM	09MX250A96	REACTOR 25HP 460V 35A	BLOWER INV BX
MVRMA	REACTOR-BLOWER 72072TG1>250V	W6DR3FMTM	09MX400A96	REACTOR 40HP 460V 55A	BLOWER INV BX
MVRMA	ARRESTOR-POWER SECONDARY	W6DR3FMTM	09X001B	SECONDARY ARRESTER 650V3P WYE ONLY	HIGH VOLT BX
MVRT	REACTOR, BASKET 72072TG1L&R<250V	W6DR3FMTB	09MX050A74	REACTOR 5HP 230V 16A	HIGH VOLT BX
MVRT	REACTOR, BASKET 72072TG1L&R>250V	W6DR3FMTB	09MX050A96	REACTOR 5HP 460V 8A	HIGH VOLT BX
MVRT	REACTOR, BASKET 50,64TG1<250V	W6DR3FMTB	09MX030A74	REACTOR 3HP 230V 12A	HIGH VOLT BX
MVRT	REACTOR, BASKET 50,64TG1>250V	W6DR3FMTB	09MX030A96	REACTOR 3HP 460V 6A	HIGH VOLT BX
MVRTC	REACTOR, COMBUSTION 50,64TG1>250V	W6DR3FMTC	09MX030A96	REACTOR 3HP 460V 6A	HIGH VOLT BX
MVRTR	REACTOR-BLOWER MOTOR	W6DR3FMTM	09MX030A96	REACTOR 3HP 460V 6A	BLOWER INV BX
PX	**>>PROXIMITY SWITCH**				
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 (64+72)	W6DR3FI1	09RPS18ADS	PRXSW QK CONN 18M 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	W6DR3FGML	09RPS18ADS	PRXSW QK CONN 18MM NO-DC SHLD	LEFT REAR

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
PXXCB	PROX SWITCH-COMBUSTION DAMPER CLOSED	W6DR3FI1	09RPS18ADW	PROX SW QK CONN 18M NO-DC UNSHLD PNP OU	COMB DAMPER
PXXMB	PROX SWITCH-MAIN AIR DAMPER CLOSED	W6DR3FI1	09RPS18ADW	PROX SW QK CONN 18M NO-DC UNSHLD PNP OU	MAINAIR DAMPER
QR	**>>IGNITION DETECTOR**				
QRE1	DECTECTOR-IGNITION	W6DR3FFEA	09X150BAGA	COIL IGNITION DETECT.AUSTR.	FIRE BOX
QRE1	DECTECTOR-IGNITION	W6DR3FFEK	09X150BAGA	COIL IGNITION DETECT.AUSTR.	FIRE BOX
RS	**>>RESISTOR**				
RS01	RESISTOR-LOAD	W6DR3FTC	ECEUV8R	LOAD RESISTOR ASSY MILTOUCH	LOW VOLT BOX
SH	**>>SWITCH-HAND OPERATED**				
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	W6DR3FFEK	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
SHET	SWITCH-THERMOSTAT RESET	W6DR3FET	09N127C	KEYSW SPST 7A120VAC SCREW TERM	EXT TEMP BOX
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

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
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
SHSR	SWITCH-FIRE CONT RESET	W6DR3FFEL	09N405PB10	SWASS PBBK 1NO	SIDE OF DRYER
SHVL	SWITCH-MANUAL VACUUM LOAD	W6DR3FMTM	09N405PB11	SWASS PBBK 1NO/1NC	REAR OF DRYER
SHWJ	SWITCH-JOG	W6DR3FI1	09N405S320	SWASS S3W 2NO	RT DISC SIDE
SHWJ	SWITCH-JOG	W6DR3FI3	09N405S320	SWASS S3W 2NO	RT DISC SIDE
SK	**>>SWITCH-KEYLOCK**				
SKET	SWITCH-THERMOSTAT RESET	W6DR3FET	09N127C	KEYSW SPST 7A120VAC SCREW TERM	EXT TEMP BOX
SKPR	SWITCH-RUN/PROGRAM (KEY OP)	W6DR3FI1	09N127C	KEYSW SPST 7A120VAC SCREW TERM	PROCESSOR BX
SKPR	SWITCH-RUN/PROGRAM (KEY OP)	W6DR3FI3	09N127C	KEYSW SPST 7A120VAC SCREW TERM	PROCESSOR BX
SKSRR	SWITCH-FIRE EYE RESET LOW NOX	W6DR3FFEH	09N405S620	SWASS KEY CTR RTN FROM RIGHT 2NO	MULTITRAC SIDE
SKSRR	SWITCH-FIRE EYE RESET	W6DR3FFEH	09N405S620	SWASS KEY CTR RTN FROM RIGHT 2NO	MULTITRAC SIDE
SP	**>>SWITCH-PRESSURE**				
SPBB	SWITCH-BURNER BOX PRESSURE	W6DR3FFEK	09N19111	AIR PRESSW RANGE .08-.4	BURNER BOX
SPBB	SWITCH-BURNER BOX PRESSURE	W6DR3FSF	09N19111	AIR PRESSW RANGE .08-.4	BURNER BOX
SPCA	SWITCH-COMBUSTION AIR FOR 6458 DRYER	W6DR3FFEA	09N19106	GAS PRESS.SW. RANGE .4-4	REAR OF DRYER
SPCA	SWITCH-COMBUSTION AIR FOR 6458 DRYER	W6DR3FFEK	09N19106	GAS PRESS.SW. RANGE .4-4	REAR OF DRYER
SPCA	SWITCH-COMBUSTION AIR FOR 6458 DRYER	W6DR3FSF	09N19106	GAS PRESS.SW. RANGE .4-4	REAR OF DRYER
SPCA	SWITCH-COMBUSTION AIR FORLOW NOX	W6DR3FSFL	09N19106	GAS PRESS.SW. RANGE .4-4	REAR OF DRYER
SPGH	SWITCH-GAS HI PRESS EXCEPT 64 DRYER	W6DR3FFEA	09N19106A	GAS PRESS. SW. RANGE 1-20	RT FRNT BASE
SPGH	SWITCH-GAS HI PRESS 6458 DRYER	W6DR3FFEA	96SD026	GW50A2W/2.5-50MBAR GASPRESWITC	GAS PIPING
SPGH	SWITCH-GAS HI PRESS EXCEPT 64 DRYER	W6DR3FFEK	09N19106A	GAS PRESS. SW. RANGE 1-20	RT FRNT BASE
SPGH	SWITCH-GAS HI PRESSURE 6458 DRYER	W6DR3FFEK	96SD026	GW50A2W/2.5-50MBAR GASPRESWITC	RT FRNT BASE
SPGH	SWITCH-GAS HI PRESS EXCEPT 64/72 DRYER	W6DR3FSF	09N19106A	GAS PRESSW 2.0-20"WC #1996-20	RT FRNT BASE
SPGH	SWITCH-GAS HI PRESS 6458 & 7272 DRYER	W6DR3FSF	96SD015	GAO-A2-4-5 HI&LO GASPRESSWITCH	GAS PIPING
SPGH	SWITCH-GAS HI PRESSURE LOW NOX	W6DR3FSFL	09N19106B	GAS PRESS SW RANGE .2-2.4"WC	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 6458 & 7272 DRYER	W6DR3FFEK	96SD026	GW50A5W/2.5-50MBAR GASPRESWITC	GAS PIPING
SPGL	SWITCH-GAS LO PRESS 6458 & 7272 DRYER	W6DR3FSF	96SD015	GAO-A2-4-5 HI&LO GASPRESSWITCH	GAS PIPING
SPGL	SWITCH-GAS LOW PRESS LOW NOX	W6DR3FSFL	96SD015	GAO-A2-4-5 HI&LO GASPRESSWITCH	GAS PIPING
SPHD	SWITCH-BACK PRESSURE (ALL SIZES)	W6DR3FFEK	09N19109	GAS PRESS SW RANGE .2-2.4"WC	OUTLET DUCT

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
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 PNL
SPMA	SWITCH-MAIN AIR-ALL SIZES	W6DR3FFEK	09N19106B	GAS PRESS SW RANGE .2-2.4"WC	FIRE CONT PNL
SPMA	SWITCH-MAIN AIR-ALL SIZES	W6DR3FSF	09N19106B	GAS PRESS SW RANGE .2-2.4"WC	FIRE CONT PNL
SPMA	SWITCH-MAIN AIR-ALL SIZES LOW NOX	W6DR3FSFL	09N19106B	GAS PRESS SW RANGE .2-2.4"WC	FIRE CONT PNL
ST	**>>SWITCH-TEMPERATURE**				
ST225-1	SWITCH-DRYER BASKET TEMP. SAFETY	W6DR3FSPR	30RA225T	THERMOSTAT CLOSES AT 225-DEG F	ABOVE LOAD DR
ST225-2	SWITCH-OUTLET TEMP.SAFETY PROBE	W6DR3FSPR	30R0225P	THERMOSW.FENWAL CLOSE @ 225F	BLWR HOUSING
ST240-2 72TG1	SWITCH-OUTLET TEMP SAFETY PROBE	W6DR3FSPR	30R0240P	THERMOSW.FENWAL CLOSE @ 240F	BLWR HOUSING
ST550A	SWITCH-INLET TEMP SAFETY PROBE #1	W6DR3FFEA	30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550A	SWITCH-INLET TEMP SAFETY PROBE #1	W6DR3FFEK	30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550A	SWITCH-INLET TEMP SAFETY PROBE #1	W6DR3FSF	30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550A	SWITCH-INLET TEMP SAFETY PROBE #1	W6DR3FSFL	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	W6DR3FFEK	30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550B	SWITCH-INLET TEMP SAFETY PROBE #2	W6DR3FSF	30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
ST550B	SWITCH-INLET TEMP SAFETY PROBE #2	W6DR3FSFL	30R0550P	THERMOSW.FENWAL CLOSE @ 550F	RT LOWER BSKT
STBB	SWITCH-BURNER BOX THERMOSTAT	W6DR3FFEK	30RA175T	THERMOSTAT OPENS AT 175F	BURNER BOX
STBB	SWITCH-BURNER BOX THERMOSTAT	W6DR3FSF	30RA175T	THERMOSTAT OPENS AT 175F	BURNER BOX
STDB	SWITCH-DYNAMIC BRAKE THERMOSTAT	W6DR3FMTB	30RA175T	THERMOSTAT OPENS AT 175F	HIGH VOLT BX
STDBC	SWITCH-DYNAMIC BRAKE THERMOSTAT	W6DR3FMTC	30RA175T	THERMOSTAT OPENS AT 175F	CMBSTN INV BX
STDBM	SWITCH-DYNAMIC BRAKE OVERHEATED	W6DR3FMTM	30RA175T	THERMOSTAT OPENS AT 175F	BLOWER INV BX
STET	SWITCH-EXTERNAL TEMPERATURE	W6DR3FET	30RA175T	THERMOSTAT OPENS AT 175F	MTG OVER DRYR
T	**>>>THERMOCOUPLES**				
T2	THERMOCOUPLE INLET TEMP PROBE	W6DR3FTC	30R0045P	DRYER T/C PROBE 24" W/BUSHNG	LOWER HOUSE
T3	THERMOCOUPLE OUTLET TEMP. PROBE	W6DR3FTC	30R0055P	TEMP PRBE 6X1/4"TYPE J T/C LDS	BLWR 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

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
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
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
VEMAI	VALVE-VACUUM LOADING	W6DR3FMTM	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEMAI2	VALVE-VACUUM LOADING	W6DR3FMTM	96R302B37	1/8"AIRPILOT 3W NO 120V50/60	AIR VALVE BX
VEMG	VALVE-GAS VALVE ACTUATOR ON-OFF	W6DR3FFE	96S1501	ACTUATOR ON-OFF #V4055D1043	GAS TRAIN
VEMG	VALVE-GAS VALVE ACTUATOR ON-OFF	W6DR3FFEA	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
VEMG	VALVE-GAS VALVE ACTUATOR ON-OFF	W6DR3FFEH	96S1501	ACTUATOR ON-OFF #V4055D1043	GAS TRAIN
VEMG	VALVE-GAS VALVE ACTUATOR ON-OFF	W6DR3FFEH	A77VG022E	RATIO AIR 1.5" VALTRAIN 2MLBTU LT TO RT UL795	GAS TRAIN
VEMG	VALVE-GAS VALVE ACTUATOR ON-OFF	W6DR3FFEJ	A77VG022	1.5" VALTRAIN 2MLBTU LT TO RT IRI	GAS TRAIN
VEMG	VALVE-GAS VALVE ACTUATOR ON-OFF	W6DR3FFEK	A77VG021	1.5"VALTRAIN 2MLBTU LT TO RT AUST AGA	GAS TRAIN
VEMG	VALVE-GAS VALVE ACTUATOR ON-OFF	W6DR3FFEL	A77VG022F	RATIO AIR 1.5" VALTRAIN 2MLBTU RT TO LFT	GAS TRAIN
VEMI	TRANSFORMER-IGNITION	W6DR3FFE	09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PNL
VEMI	TRANSFORMER-IGNITION	W6DR3FFEA	09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PNL
VEMI	TRANSFORMER-IGNITION	W6DR3FFEG	09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PNL
VEMI	TRANSFORMER-IGNITION	W6DR3FFEH	09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PNL
VEMI	TRANSFORMER-IGNITION	W6DR3FFEH	09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PNL
VEMI	TRANSFORMER-IGNITION	W6DR3FFEJ	09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PNL
VEMI	TRANSFORMER-IGNITION	W6DR3FFEK	09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PNL
VEMI	TRANSFORMER-IGNITION	W6DR3FFEL	09X175	IGNITION TRANSFRMER Q624A1014B	FIRE CONT PNL
VEMMA	ACCUATOR-AIR DAMPER	W6DR3FFEL	09Y144	SEIMENS ACTUATOR FOR LMV3, 27 IN-LB	REAR OF DRYER
VEMMF	ACCUATOR-GAS DAMPER	W6DR3FFEL	09Y144	SEIMENS ACTUATOR FOR LMV3, 27 IN-LB	REAR OF DRYER
VEMMG	VALVE-MODUL GAS VLV	W6DR3FGM	96SD018	DMA 12B120 ACTUATR 12 SEC TIME	GAS TRAIN
VEMMG	VALVE-MODUL GAS VLV	W6DR3FGMA	96SD018	DMA 12B120 ACTUATR 12 SEC TIME	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" AIRPIILOT 3W NC 120V50/60	AIR VALVE BX
VENT	VALVE-VENT	W6DR3FFEA	96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VENT	VALVE-VENT	W6DR3FFEK	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
VEPG	VALVE-PILOT VALVE ENABLED	W6DR3FFEH	96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
VEPG	VALVE-PILOT VALVE ENABLED	W6DR3FFEH	96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG	VALVE-PILOT VALVE ENABLED	W6DR3FFEJ	96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VEPG	VALVE-PILOT VALVE ENABLED LOW NOX	W6DR3FFL	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	W6DR3FFEK	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	W6DR3FFEK	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
VEVT	VALVE-VENT	W6DR3FFEL	96TCC2BA37	3/8" N/C 2WAY 120V50/60C VALVE	GAS TRAIN
VP	**>>VALVE-PROOF OF CLOSURE**				

PELLERIN MILNOR CORPORATION
LIMITED STANDARD WARRANTY

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

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

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

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

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

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

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

BIUUUD19 (Published) Book specs- Dates: 20081231 / 20081231 / 20081231 Lang: ENG01 Applic: UUU

How to Get the Necessary Repair Components

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

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

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

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

To write to the Milnor factory:

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

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

— End of BIUUUD19 —

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

How to Use Milnor® Electrical Schematic Diagrams

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

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

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

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

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

1. Component Prefix Classifications and Descriptions

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

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

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

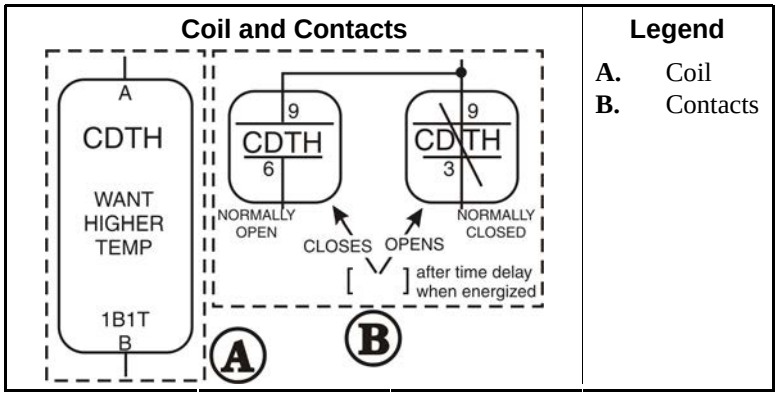
BA=Printed Circuit Board—Insulating substrate on which a thin pattern of copper conductors has been formed to connect discrete electronic components also mounted on the board.

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

Figure 1: Circuit Breaker (CB)

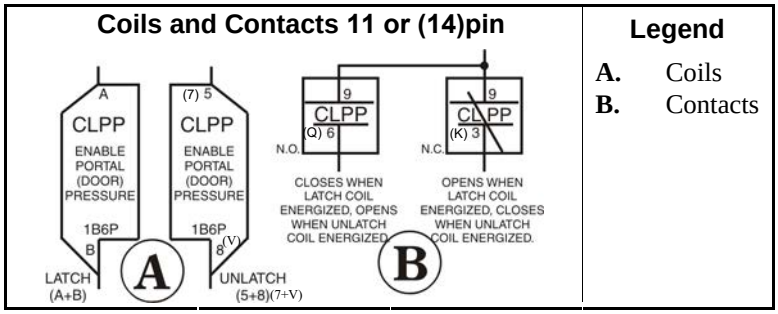
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



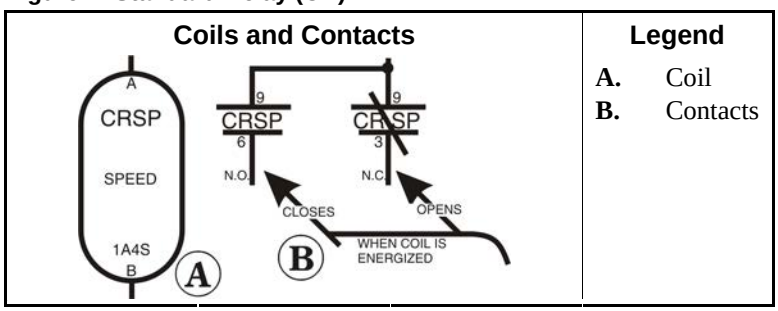
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



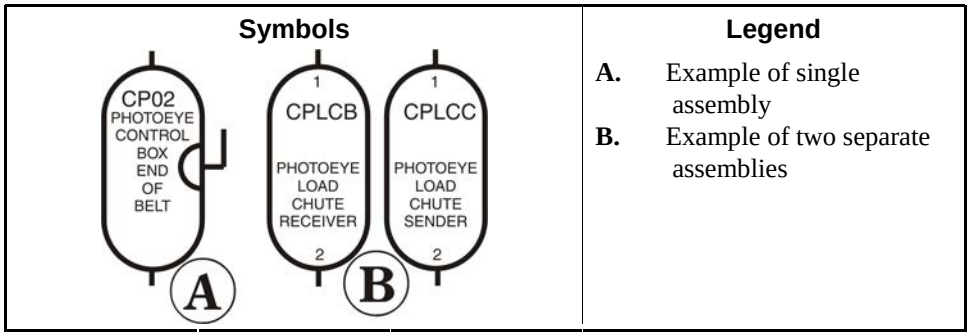
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



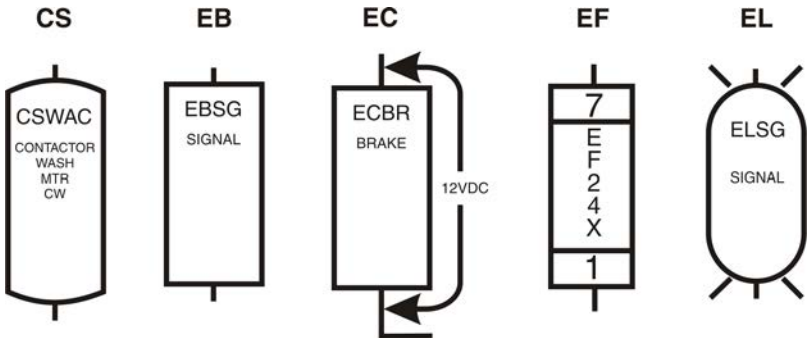
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these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

Figure 5: Photo-eye (CP)



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

Figure 6: Other Control Symbols



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

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

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

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

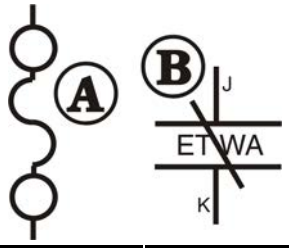
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

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

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

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

Figure 7: Thermal Overload (ET)

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

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

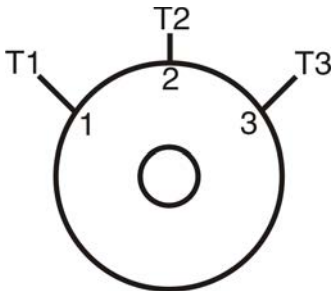
KB=Keyboard—Device similar to a typewriter for making entries to a computer.

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

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

Figure 8: Transformer (EX)

Figure 9: Electric Motor (MR)

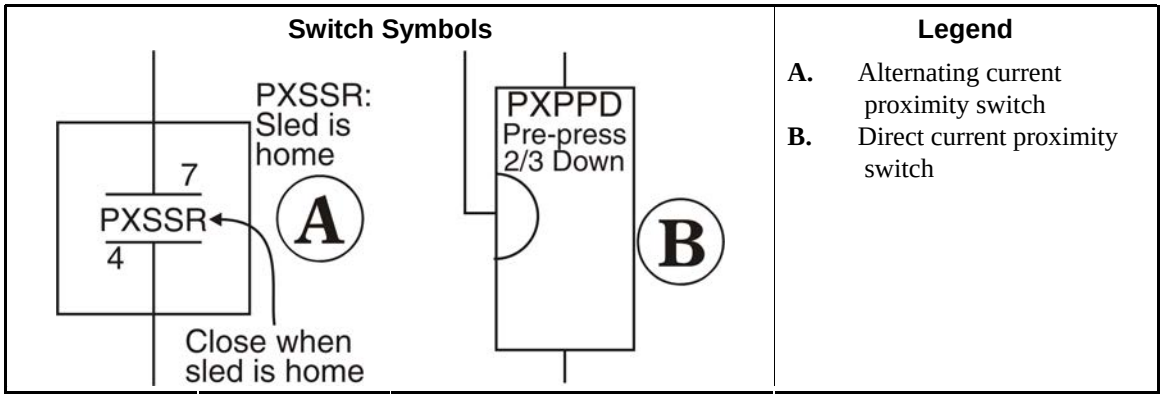


MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the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

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

PX=Proximity Switch (Figure 10)—A device which reacts to the proximity of an 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)

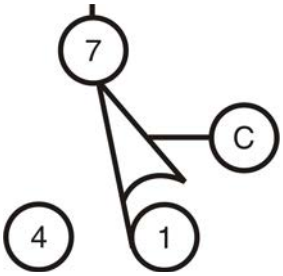
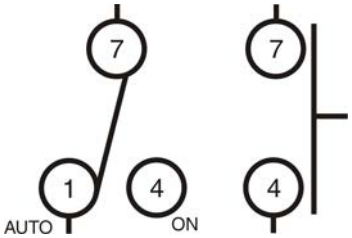


Figure 12: Hand Operated Switch (SH)



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)

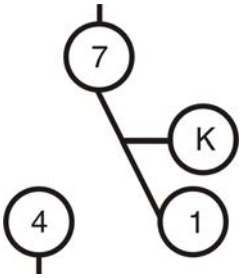
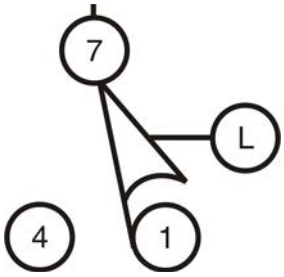


Figure 14: Level Switch (SL)



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)

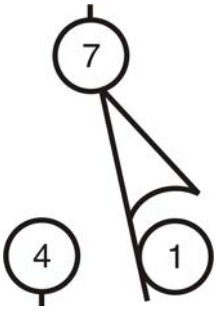
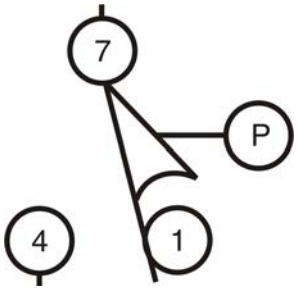


Figure 16: Pressure Switch (SP)



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)

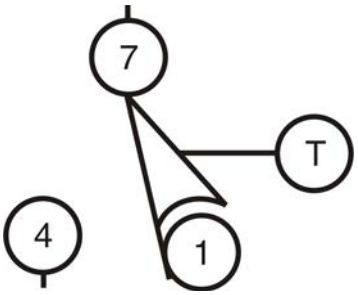
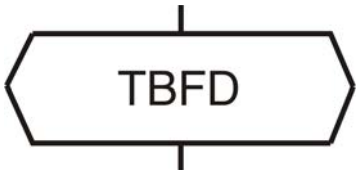


Figure 18: Terminal Board (TB)



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)

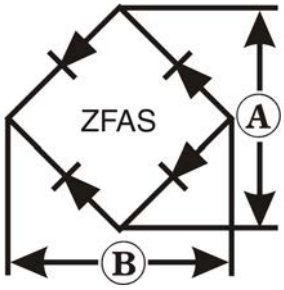
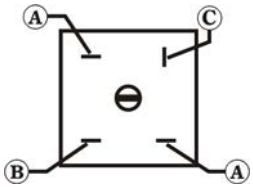
Component Symbol	Legend
	**A.** Alternating current input **B.** Direct current output

Figure 21: Bridge Rectifier

Component	Legend
	**A.** Alternating current in **B.** Negative direct current out **C.** Positive direct current out

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.

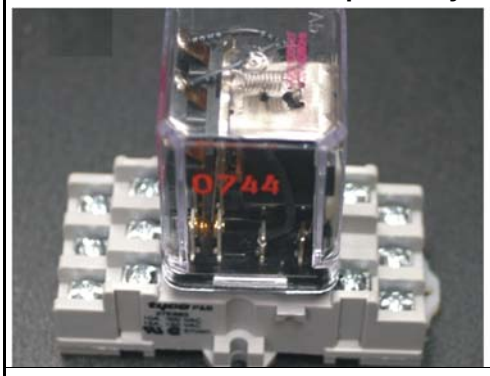
2. Component Terminal Numbering

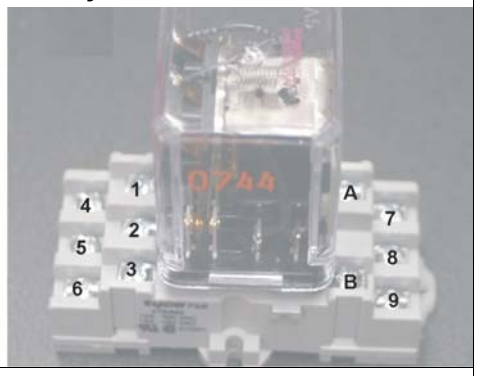
CAUTION 1: Risk of Mis-wiring—Due to electrical component manufacturing inconsistencies, the pin numbers imprinted on components such as connectors and relay bases used on Milnor machines often do not correspond to the pin numbers shown in the schematics.

- 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.

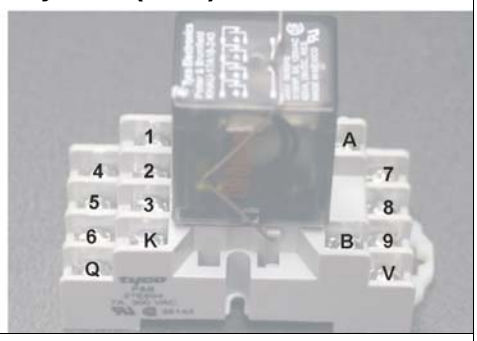
Figure 22: Plug-in Relays

11-pin Relay with Grey Base

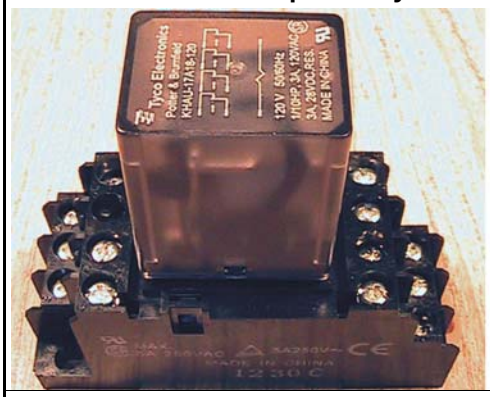


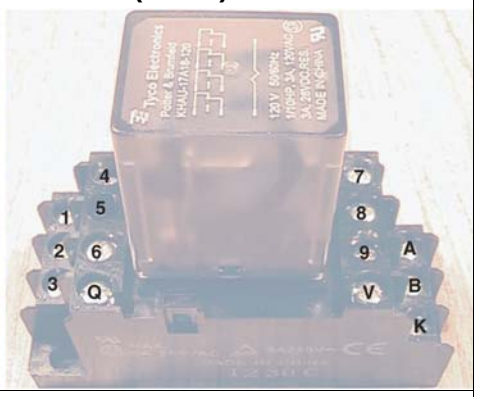


14-pin Relay with Grey Base (older)

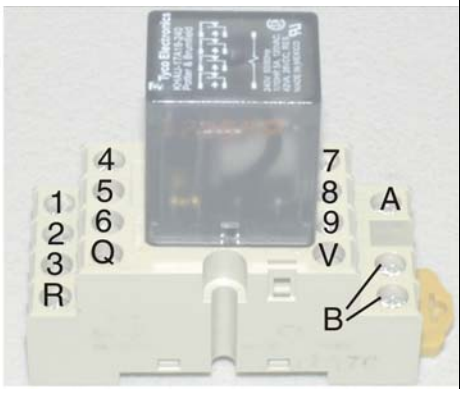


14-pin Relay with Black Base (newer)





14-pin Relay with Beige Base (rare)



Legend

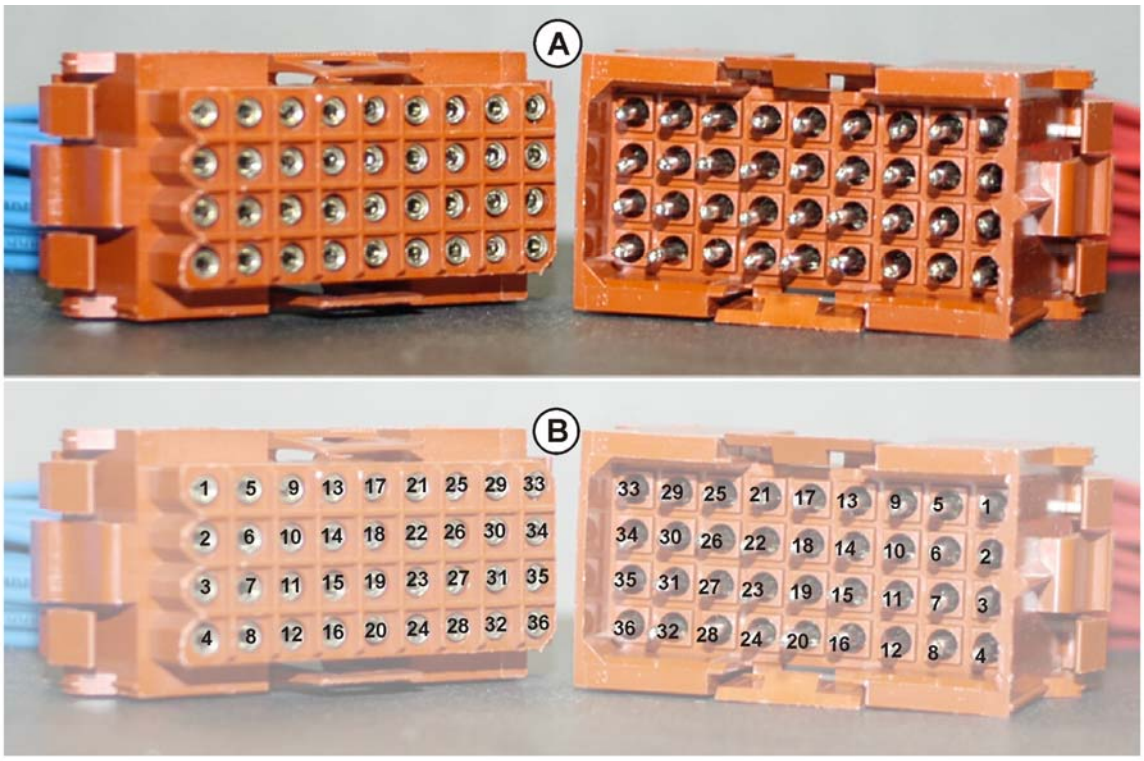
Left. View of relay and base

Right. Same view, showing pin numbers

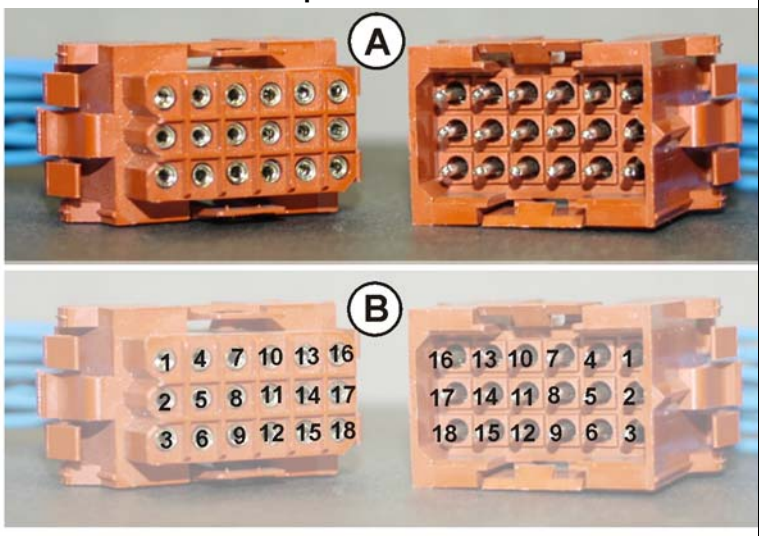
Note 3: Relay functional names ending with the letter "M" (e.g., CRxxM) are not discrete components but are a component of a printed circuit board. They are usually not individually replaceable.

Figure 23: AMP Connector Pin Locations

36-pin Connector



18-pin Connector

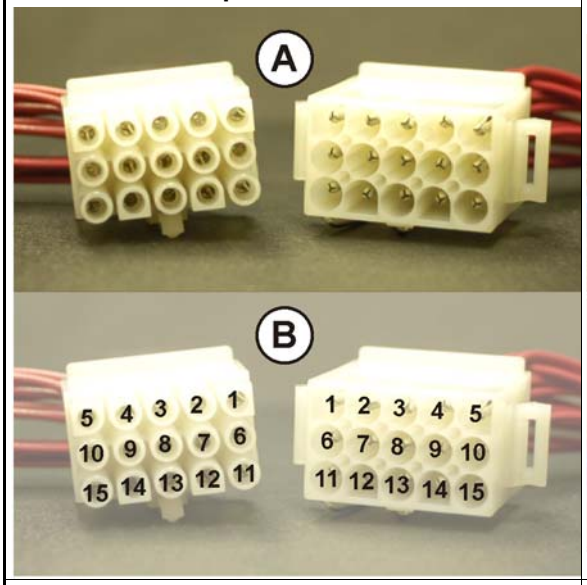


Legend

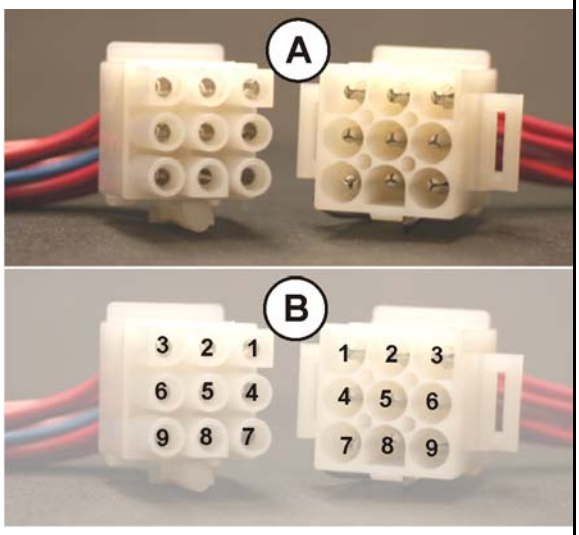
A. View of mating halves of connector
B. Same view, showing assigned pin numbers

Figure 24: Molex Connector Pin Locations

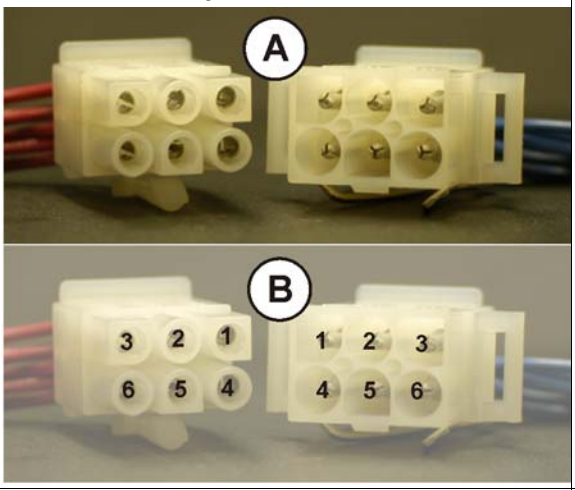
15-pin Connector



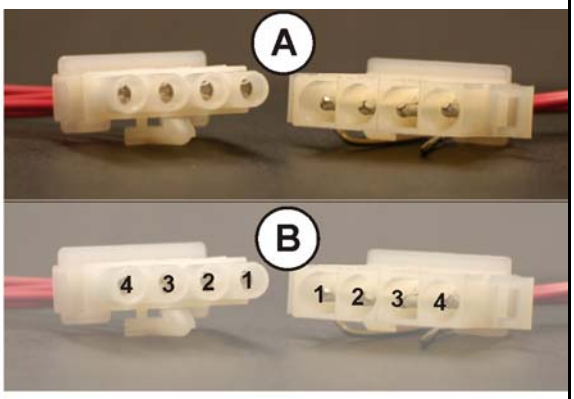
9-pin Connector



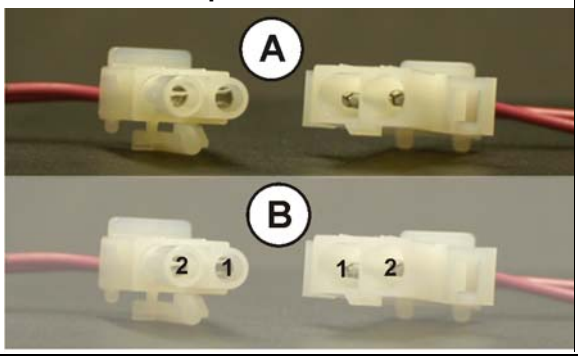
6-pin Connector



4-Pin Connector



2-pin Connector



Legend

A. View of mating halves of connector
B. Same view, showing assigned pin numbers

Figure 25: Pressure Switch

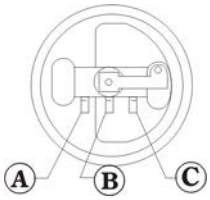
Component	Legend
	**A.** Contact 1—Normally open **B.** Contact 2—Normally closed **C.** Contact 3—Common

Figure 26: Toggle Switch

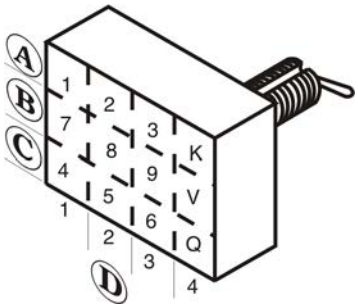
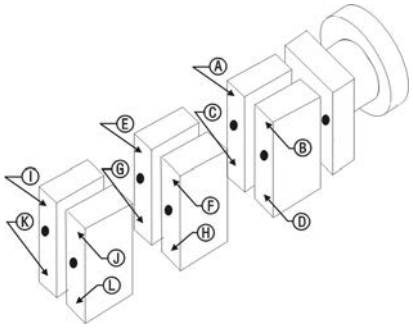
Component	Legend
	**A.** Normally closed contacts **B.** Common contacts **C.** Normally open contacts **D.** Pole

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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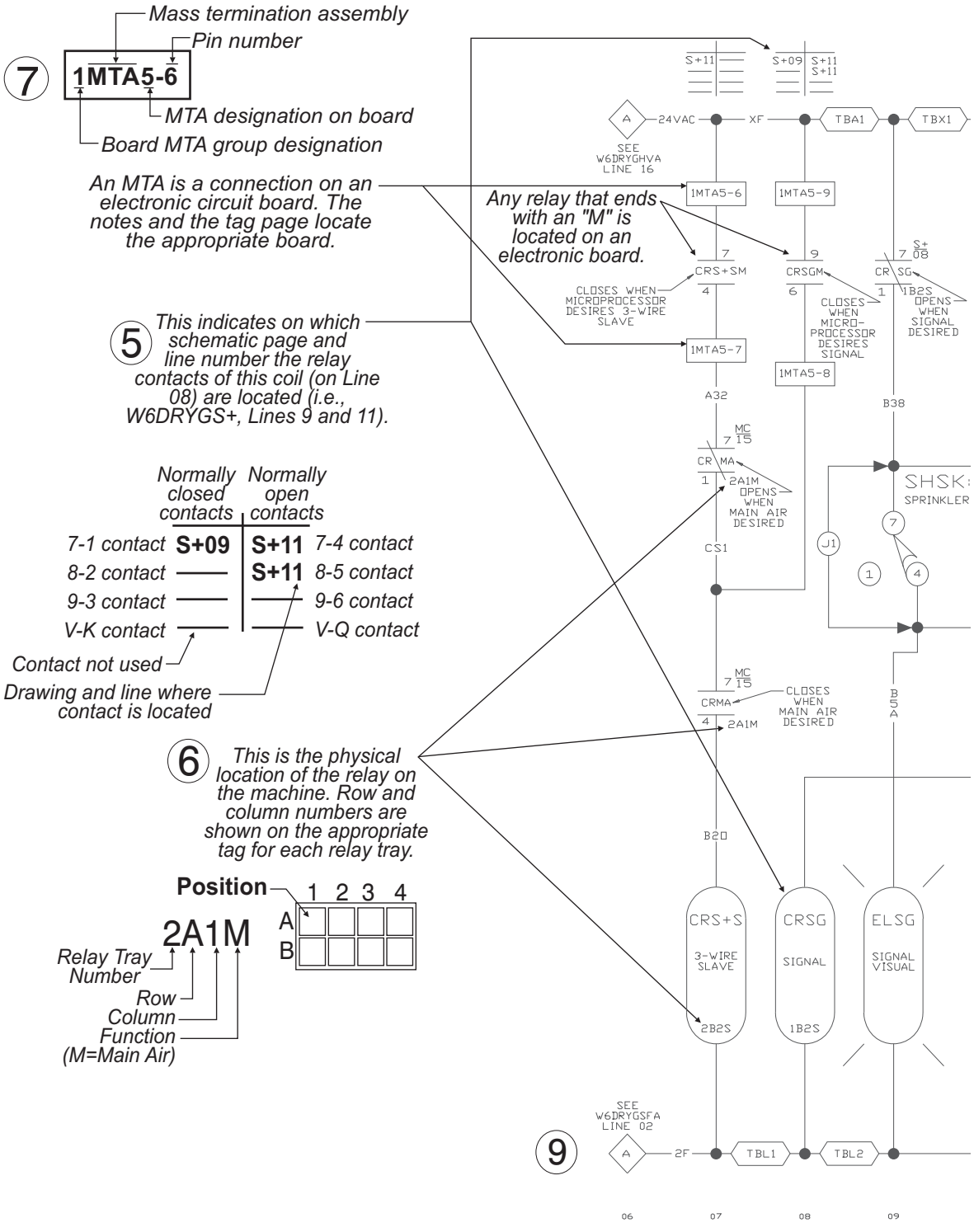
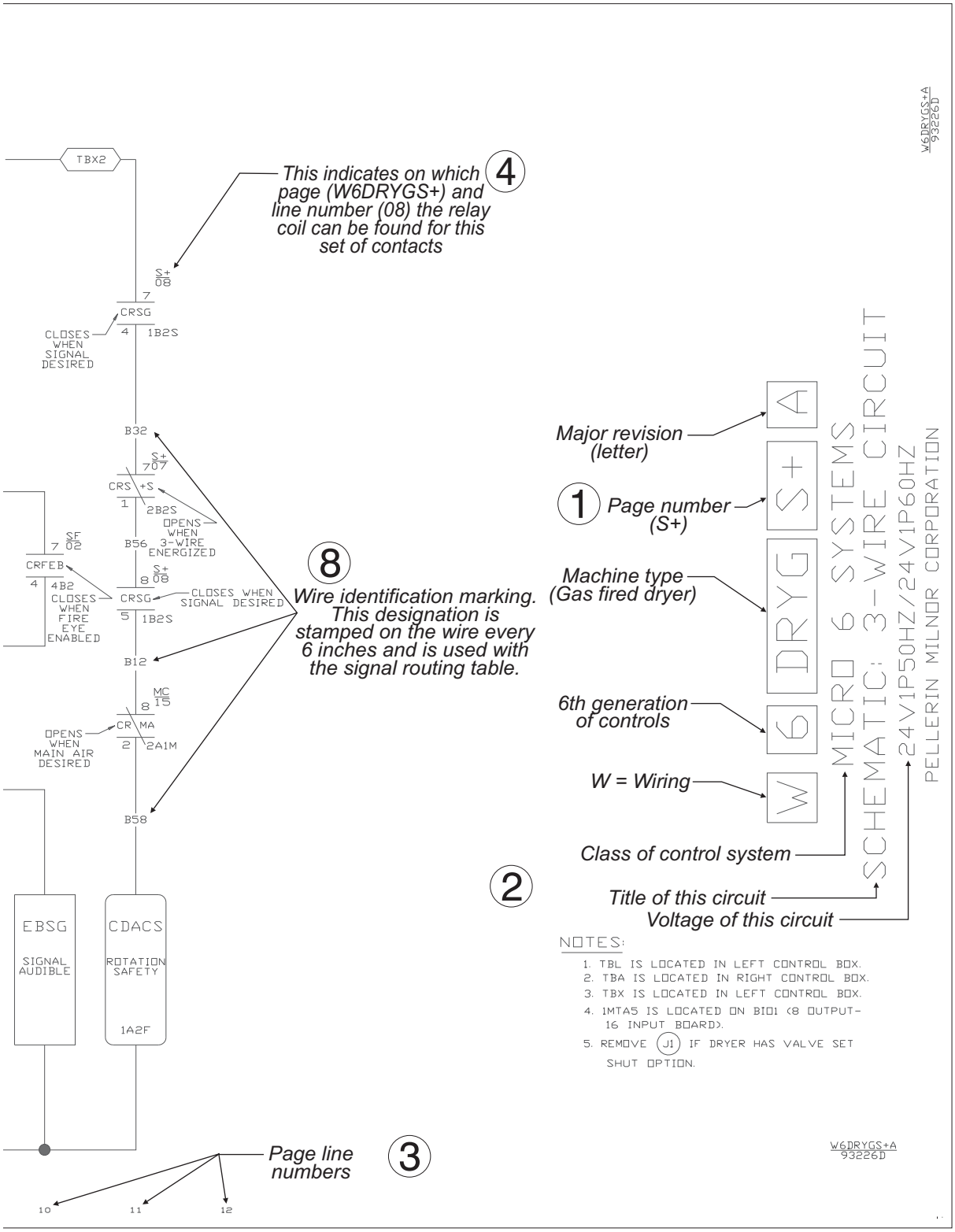


BMP010012 (left) / 2018343



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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 (2.5mm²) 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	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 (1.0mm²) 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 (1.0mm²) 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 (①) 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.	Most Significant	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 peripherial board.												

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

Signal Direction	Common Connection*			Dedicated Connection			Display / code	Board / code	Function Name / Signal Name
	Multi-terminal	Pin	Wire	Multi-terminal	Pin	Wire			
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 peripherial 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.	Most Significant	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 Direc-tion	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:

i2/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

Signal name on schematic (e.g., Drycode A, B, etc.)-->		Decimal Value of Group	Most Significant		Binary Data Signals						Least Significant
			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**
		0							0	0	0	0
		1							0	0	0	1
		2							0	0	1	0
		3							0	0	1	1
		4							0	1	0	0
		5							0	1	0	1
		6							0	1	1	0
		7							0	1	1	1
		8							1	0	0	0
		9							1	0	0	1
		10							1	0	1	0
		11							1	0	1	1
		12							1	1	0	0
		13							1	1	0	1
		14							1	1	1	0
		15							1	1	1	1

The number of data signals required for typical ranges of batch codes are as follows:

Code Range	Signals Required
00-15	A-D
00-31	A-E
00-63	A-F
000-127	A-G
000-255	A-H
000-511	A-I or J
0000-1023	A-J or K

For brevity, this table shows only the binary numbers for decimals 0 - 15 (e.g., decimal 7 = binary 0111).

Use the "Decimal Value of Signal" values above, to convert between decimal and binary, for any decimal number between 16 and 1023.

See explanations of decimal / binary conversion herein.

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.

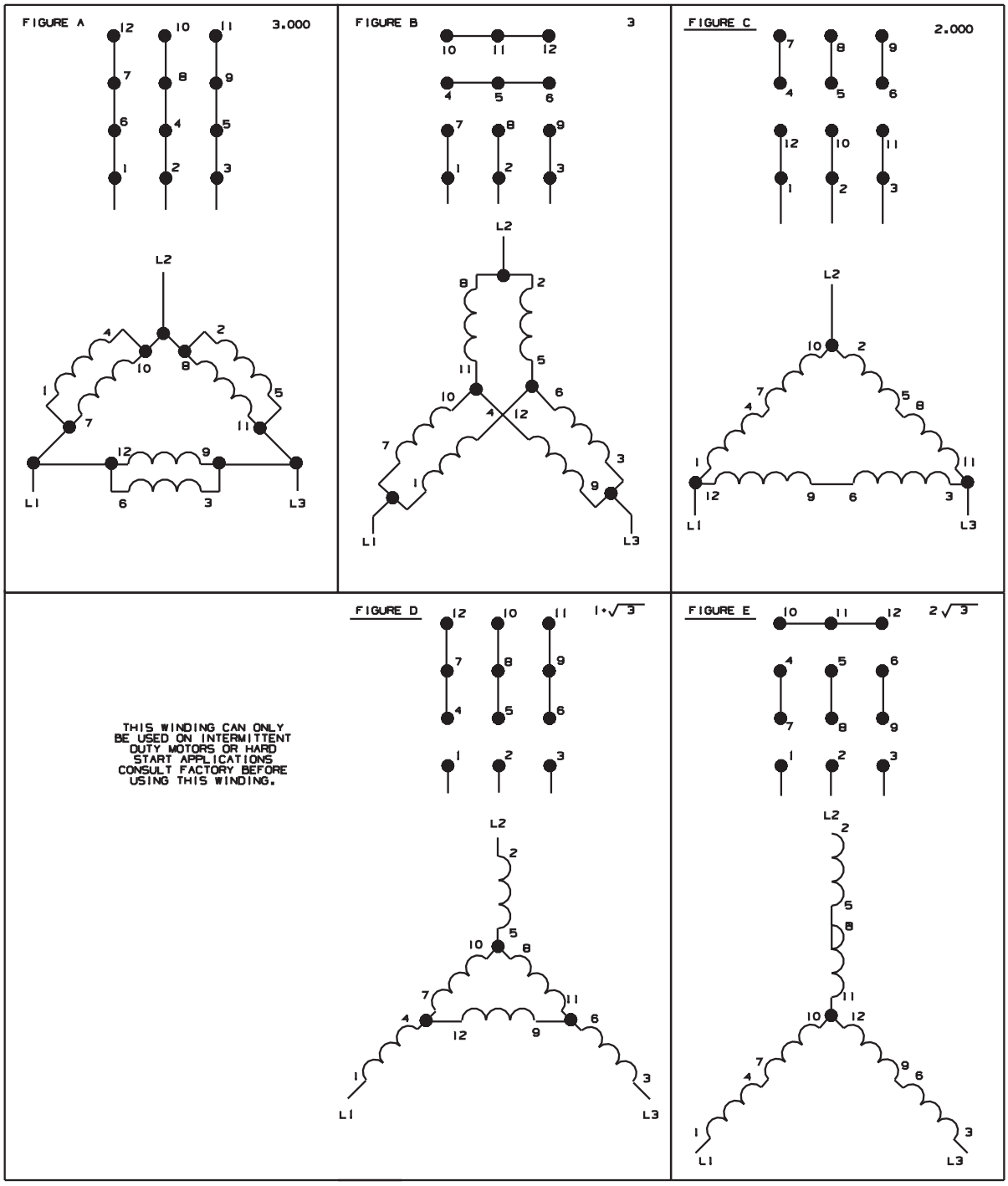
5.2. Converting Binary to Decimal—Referring to Table 6, if you want to convert binary to decimal, simply sum the decimal values corresponding to the 1's in each position of the binary number. Keep in mind that while a 1 in any position has a certain positive decimal value, a 0 (zero) in any position 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		U	
		50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ
A	1.000	208	230			200	220	220	240	200-220	208-240
B	$\sqrt{3}$				208	346	380	380		346-380	380
C	2.000	416	460	220	240	400	440	440	480	400-440	440-480
D	$1 \div \sqrt{3}$						600				600
E	$2\sqrt{3}$			380							



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

BMP850029

MOTOR CONNECTION DIAGRAMS

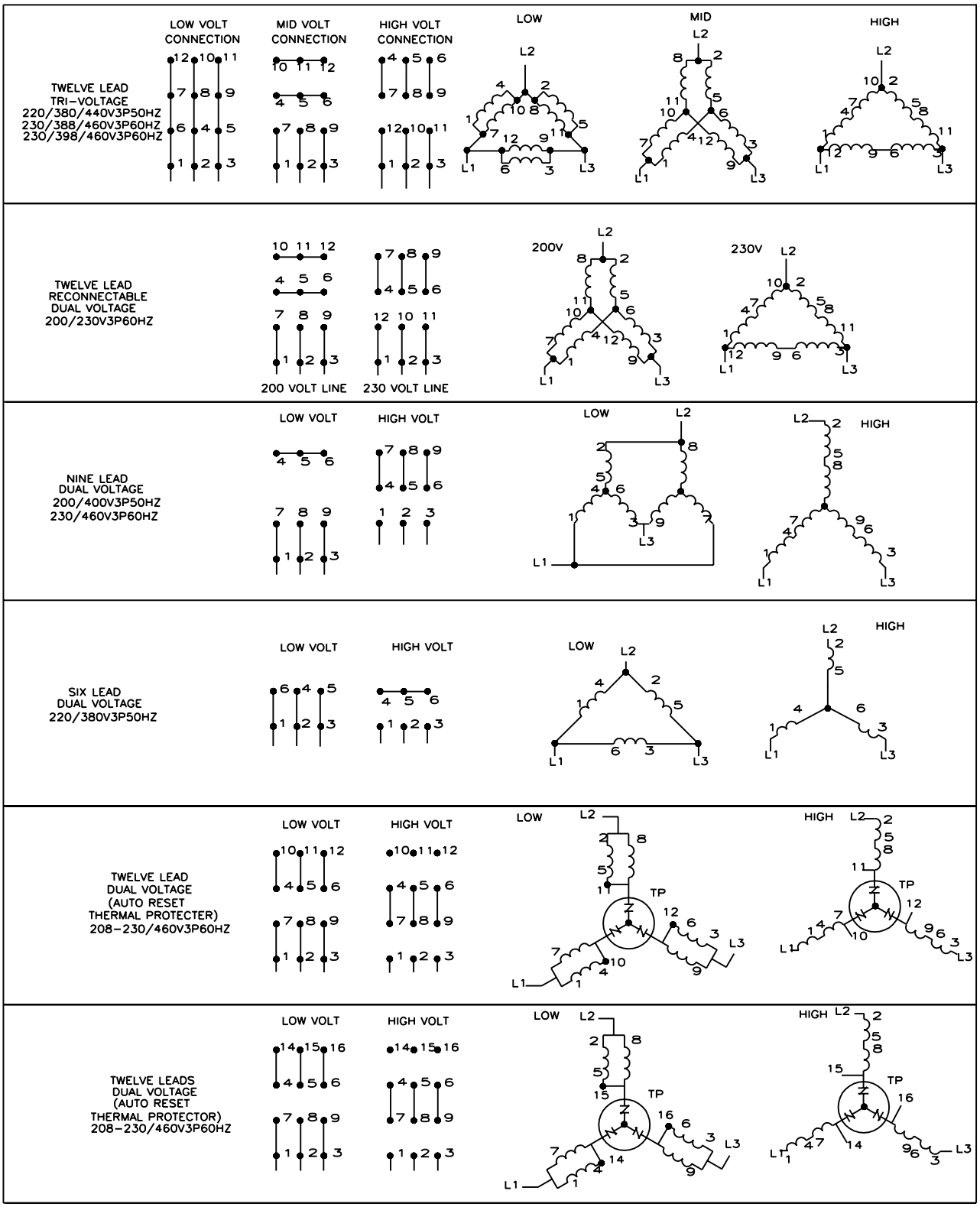
THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS

(ONLY FOR MOTOR SUFFIXES LISTED)

PELLERIN MILNOR CORPORATION

BMP850029
993628

BMP850029
993628



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

B2TAG96015
2008293G

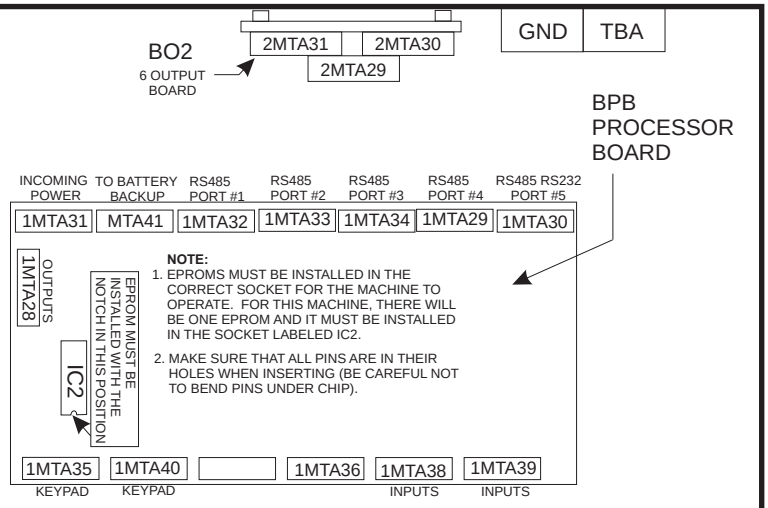
W6DR3FTG1
2020336B

MICRO 6 SYSTEMS
DRYER COMBUSTION
MOTOR INVERTER BOX

PELLERIN MILNOR CORPORATION

B2T2015007
2019394A

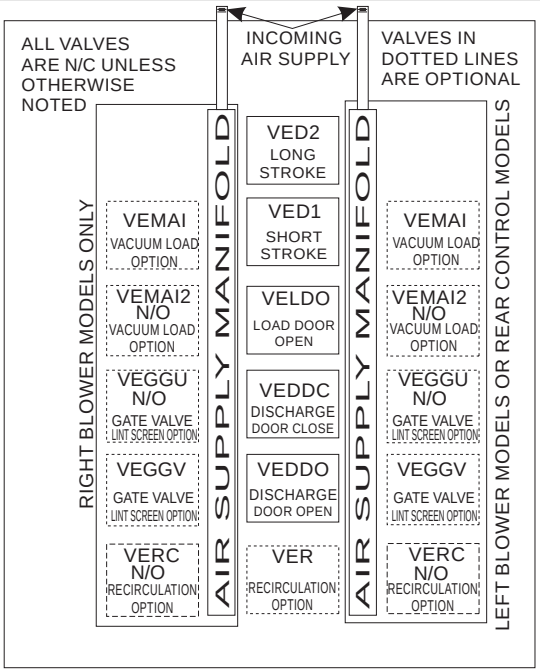
W6DR3FTG1
GAS DRYER MACHINE TAGS
PELLERIN MILNOR CORPORATION



MICRO 6 SYSTEMS
186 PROCESSOR CONTROL BOX

FOR ALL LEFT/RIGHT DRYERS
CONTROLLED BY MULTI-TRAC™ CONTROLLER
PELLERIN MILNOR CORPORATION

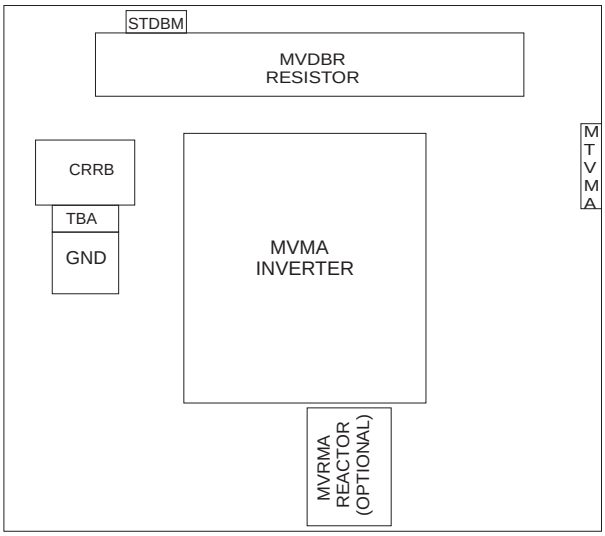
B2T2001010
2025023A



MICRO 6 SYSTEMS
ALL LEFT/RIGHT GAS DRYERS
AIR VALVE BOX

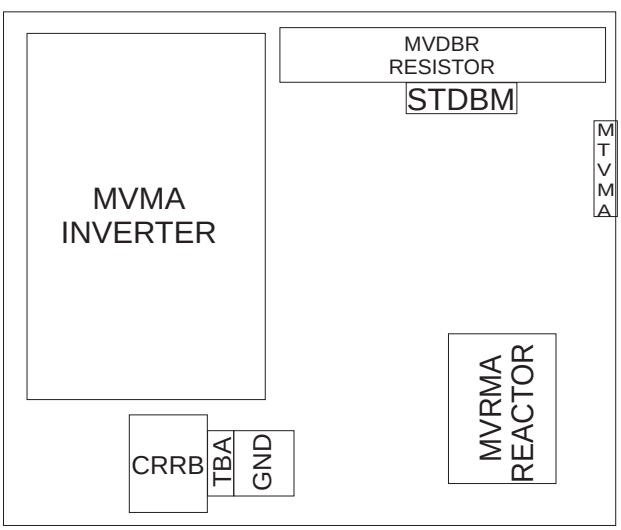
PELLERIN MILNOR CORPORATION

B2T2001008
2025023A



MICRO 6 SYSTEMS
50xxx & 64xxx DRYER

B2T2005010
2020333A

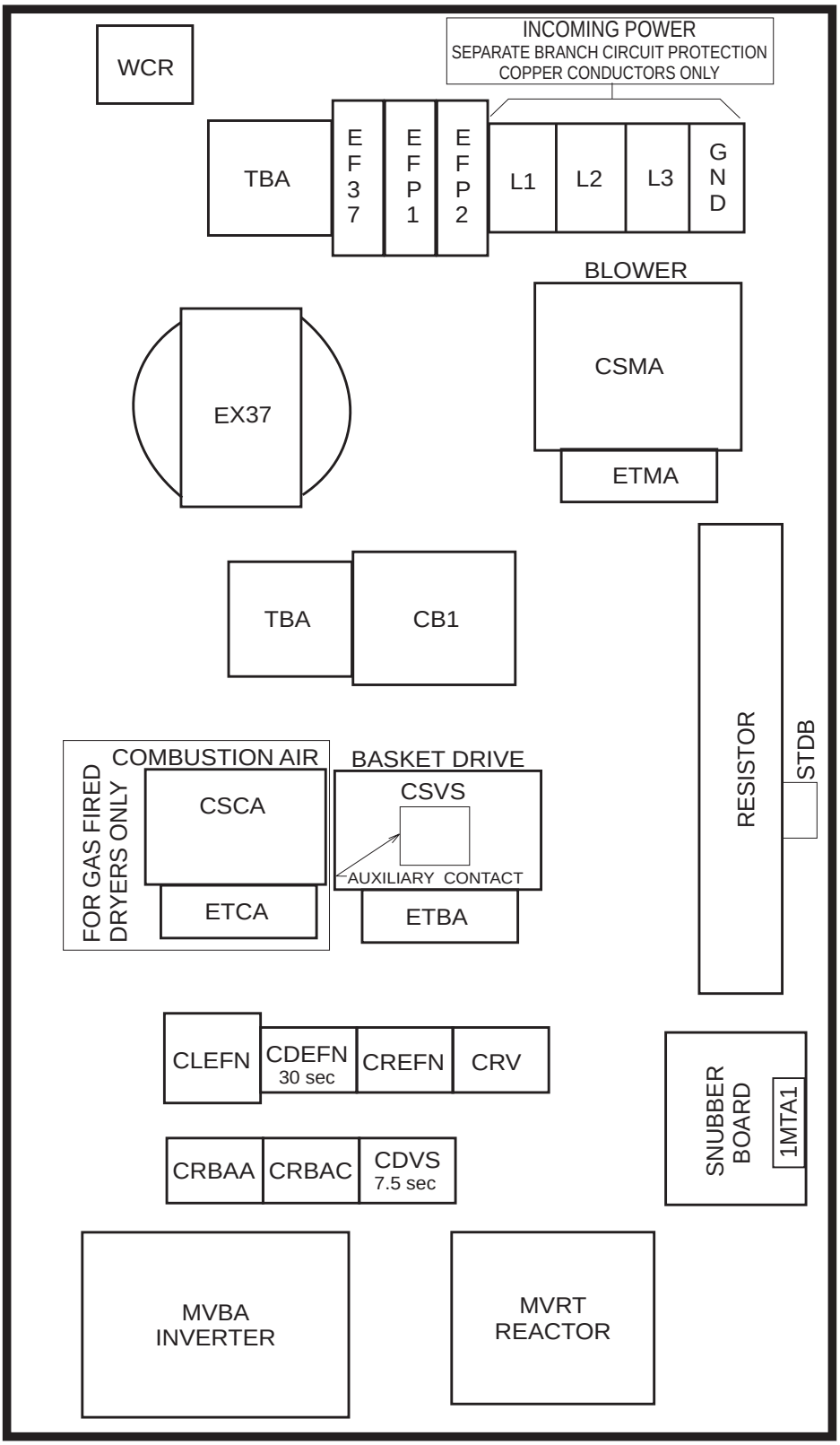


MICRO 6 SYSTEMS
7676 DRYER BLOWER MOTOR INVERTER

PELLERIN MILNOR CORPORATION

B2T2013017
2020333A

W6DR3FTG4
2025023B



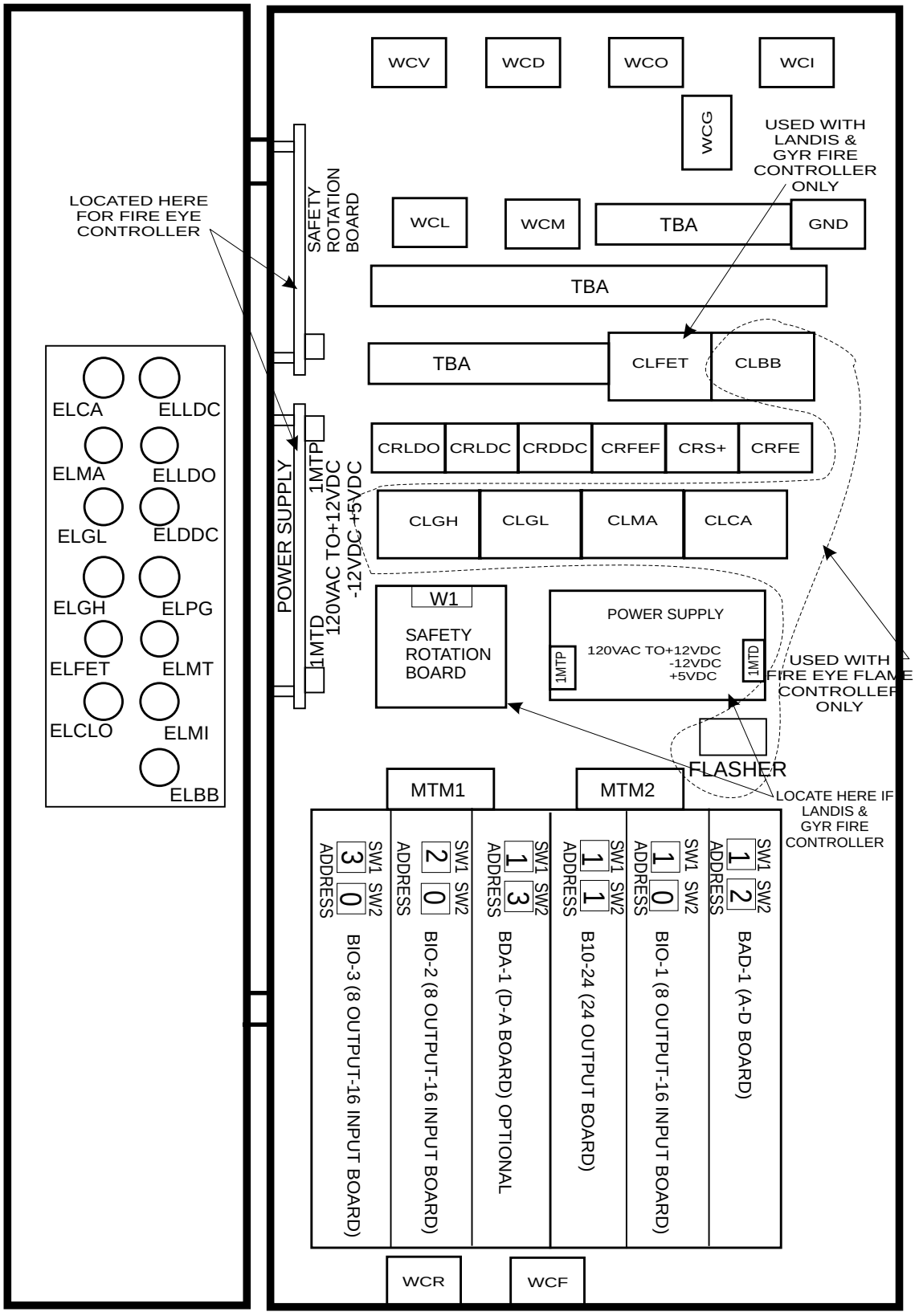
MICRO 6 SYSTEM MARK V CONTROLS
50040TG2L/R, 50050TG1L/R
50040TS2L/R, 50050TS1L/R
HIGH VOLTAGE PANEL

B2T2008013
2025023A

PELLERIN MILNOR CORPORATION

W6DR3FTG4
2025023B

W6DR3FTG4
GAS DRYER MACHINE TAGS
PELLERIN MILNOR CORPORATION

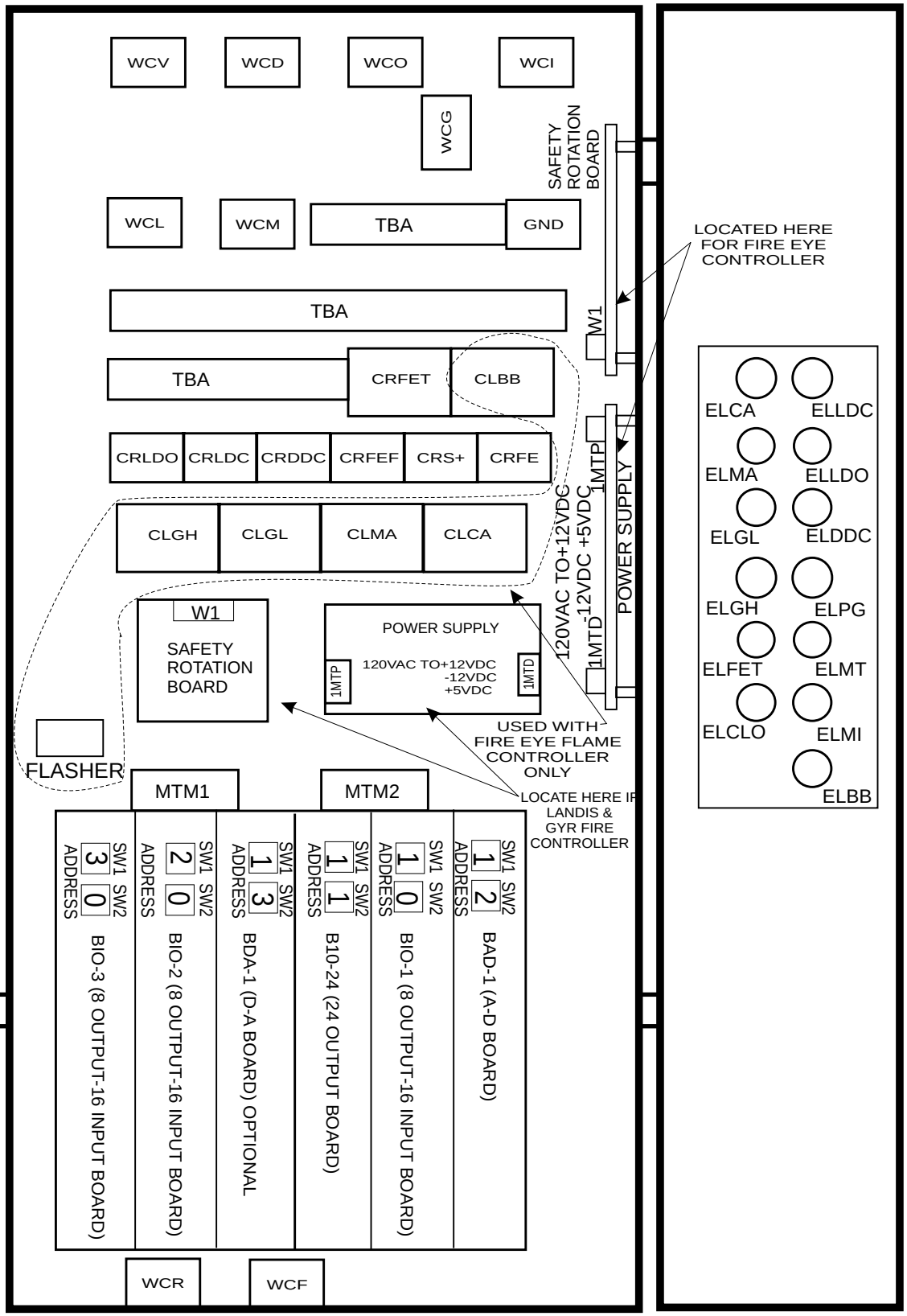


MICRO 6 SYSTEMS MARK V CONTROLS
50040, 50050TG2L
DRYER LOW VOLTAGE PANEL

B2T2008012
2012124G

PELLERIN MILNOR CORPORATION

W6DR3FTG5
2009345B



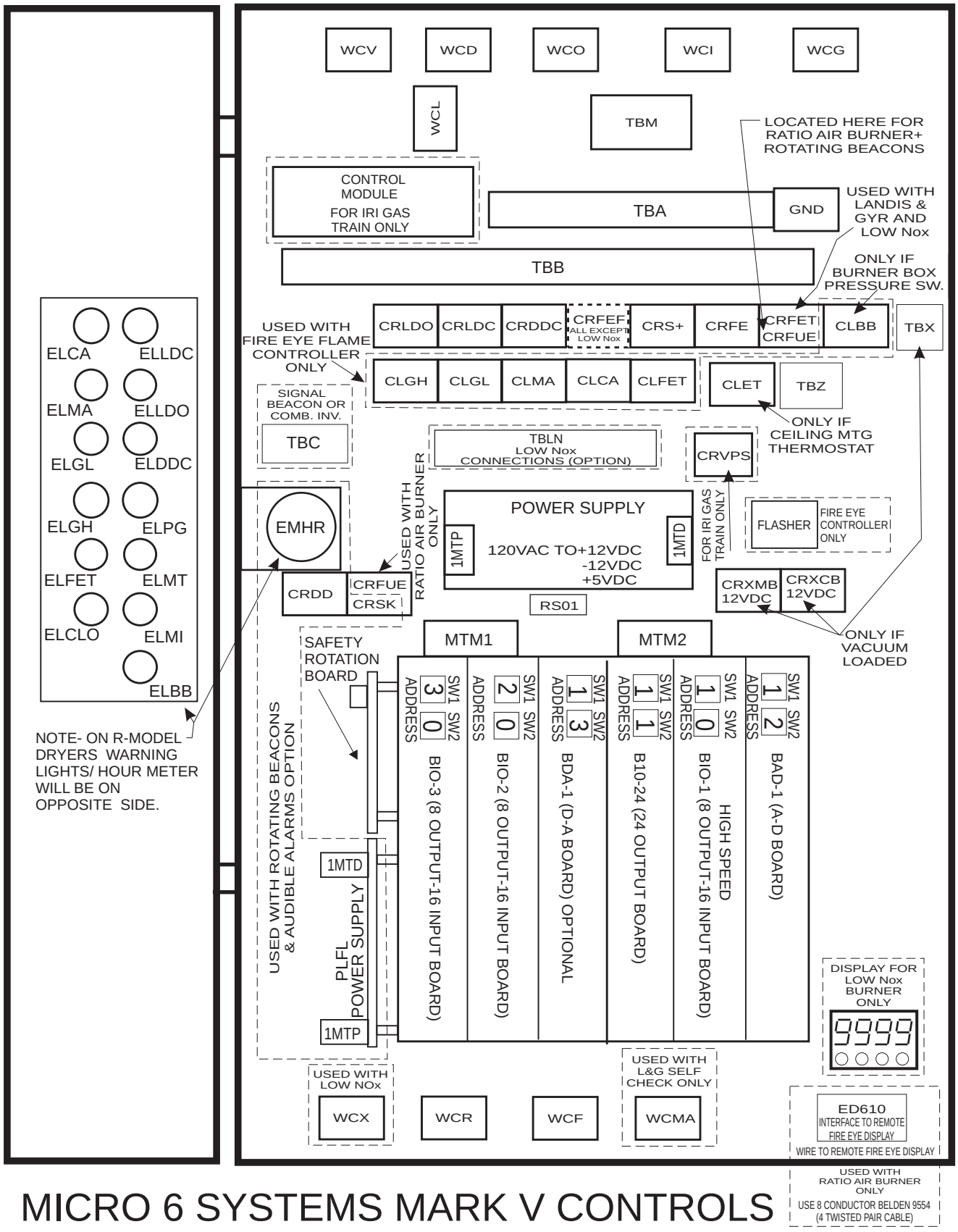
MICRO 6 SYSTEMS MARK V CONTROLS
50040/50050TG2R
DRYER LOW VOLTAGE PANEL

B2T2008011
2012124A

PELLERIN MILNOR CORPORATION

W6DR3FTG5

GAS DRYER MACHINE TAGS
PELLERIN MILNOR CORPORATION

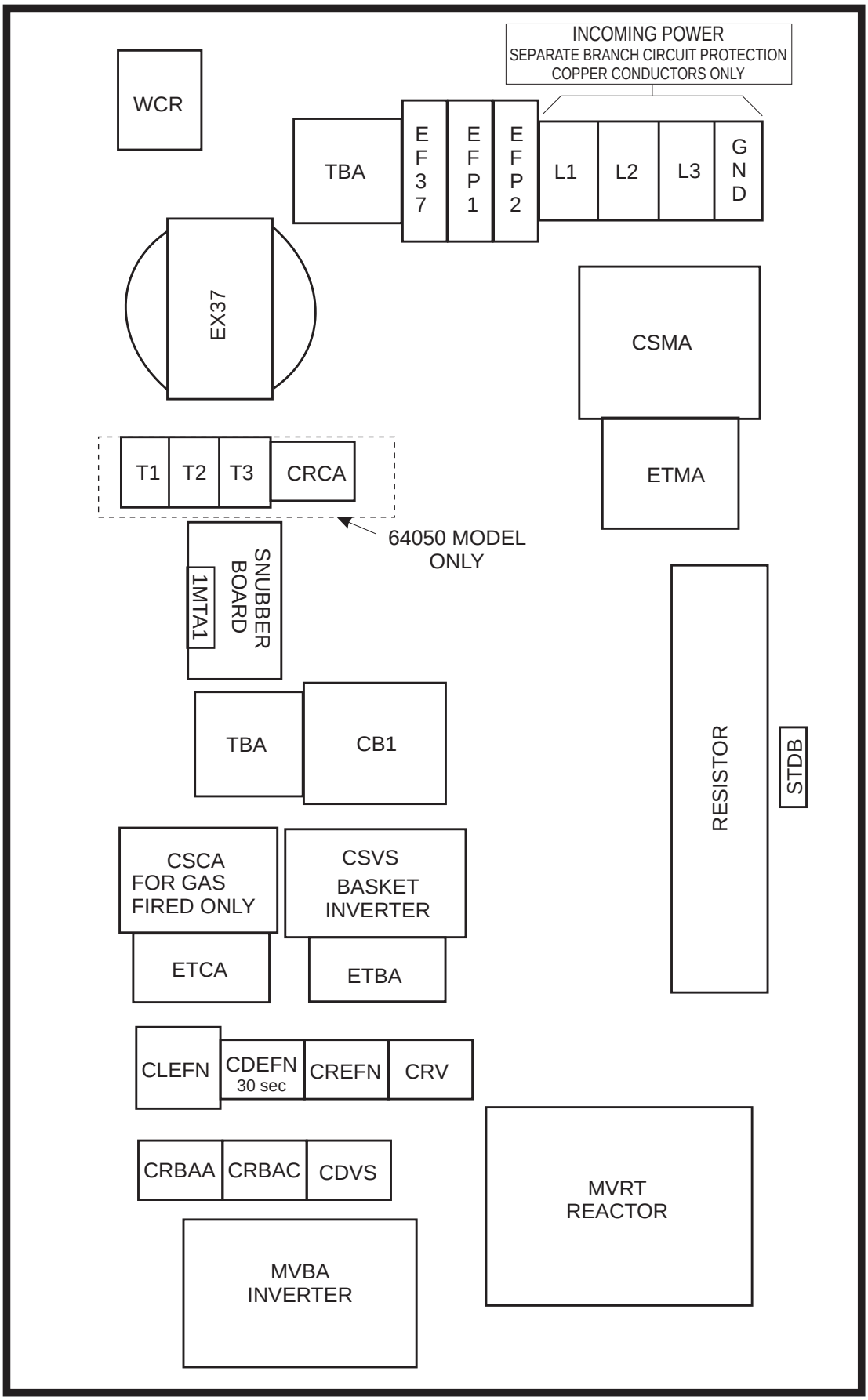


MICRO 6 SYSTEMS MARK V CONTROLS
50xx, 64xx, 72xx, 76xx & 82xxTG1L&R
DRYER LOW VOLTAGE PANEL

PELLERIN MILNOR CORPORATION

B2T2002006
2026022A

W6DR3FTG6
2026023B



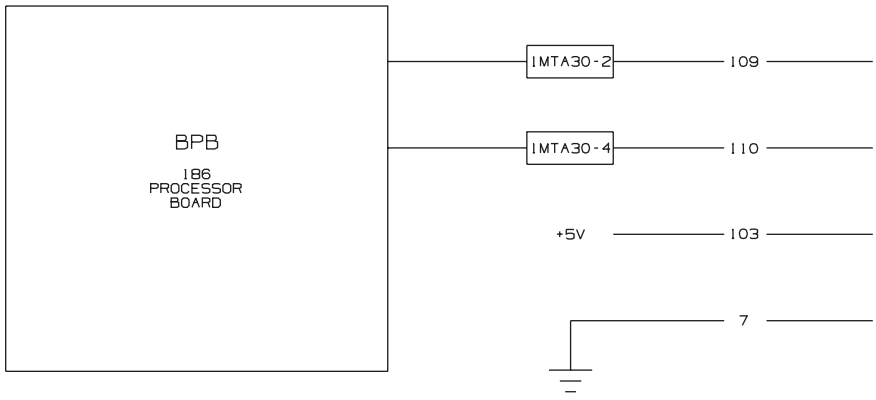
W6DR3FTG6
GAS DRYER MACHINE TAGS
PELLERIN MILNOR CORPORATION

MICRO 6 SYSTEM MARK V CONTROLS
ALL 64, 72, 76 & 82 LEFT/RIGHT DRYERS
HIGH VOLTAGE PANEL

PELLERIN MILNOR CORPORATION

B2T2001009
2019172A

W6DR3FTG6
2026023B



00 01 02 03 04 05 06 07 08 09

W6DR3FD
9725181

W6DR3FD

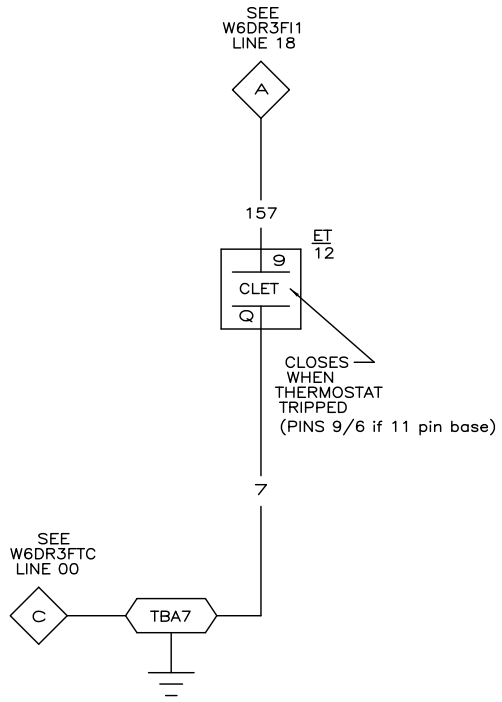
MICRO 6 SYSTEMS SERIAL CONTROLS
MARK V
SCHEMATIC: DISPLAY

PELLERIN MILNOR CORPORATION

NOTES

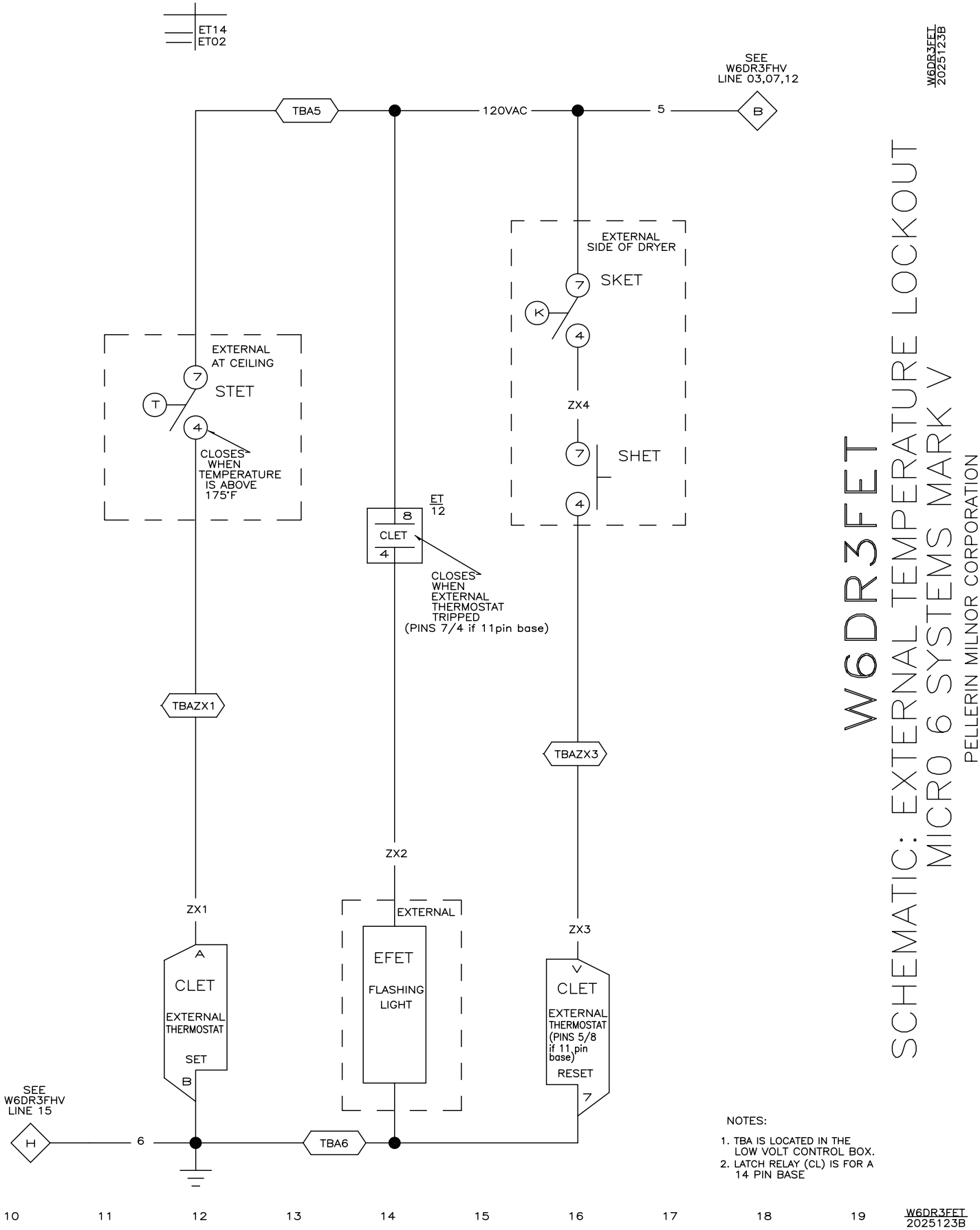
1. 1MTA30 IS LOCATED ON BPB (PROCESSOR BOARD).
2. 1MTA1 IS LOCATED ON DISPLAY BOARD.

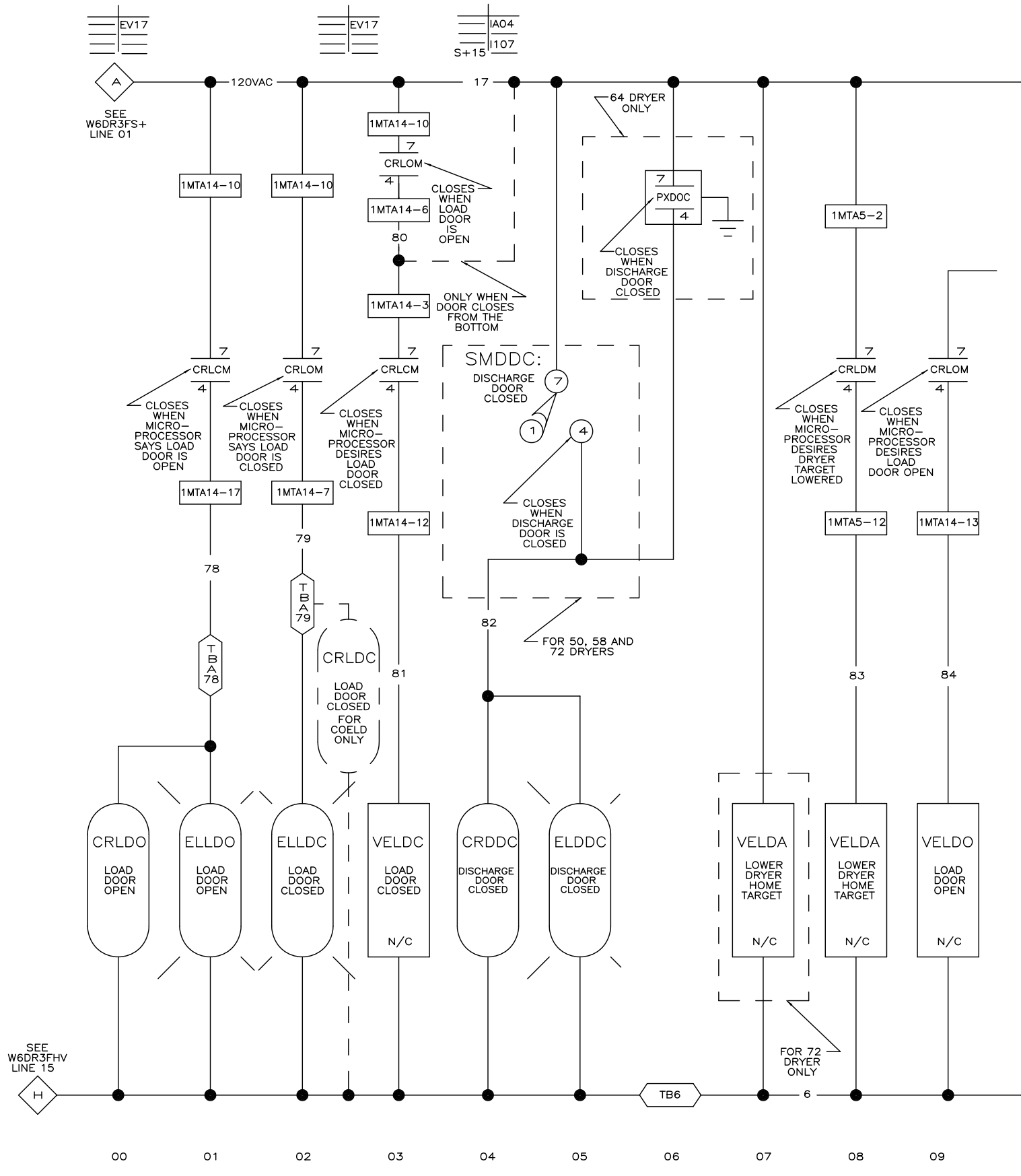
10 11 12 13 14 15 16 17 18 19



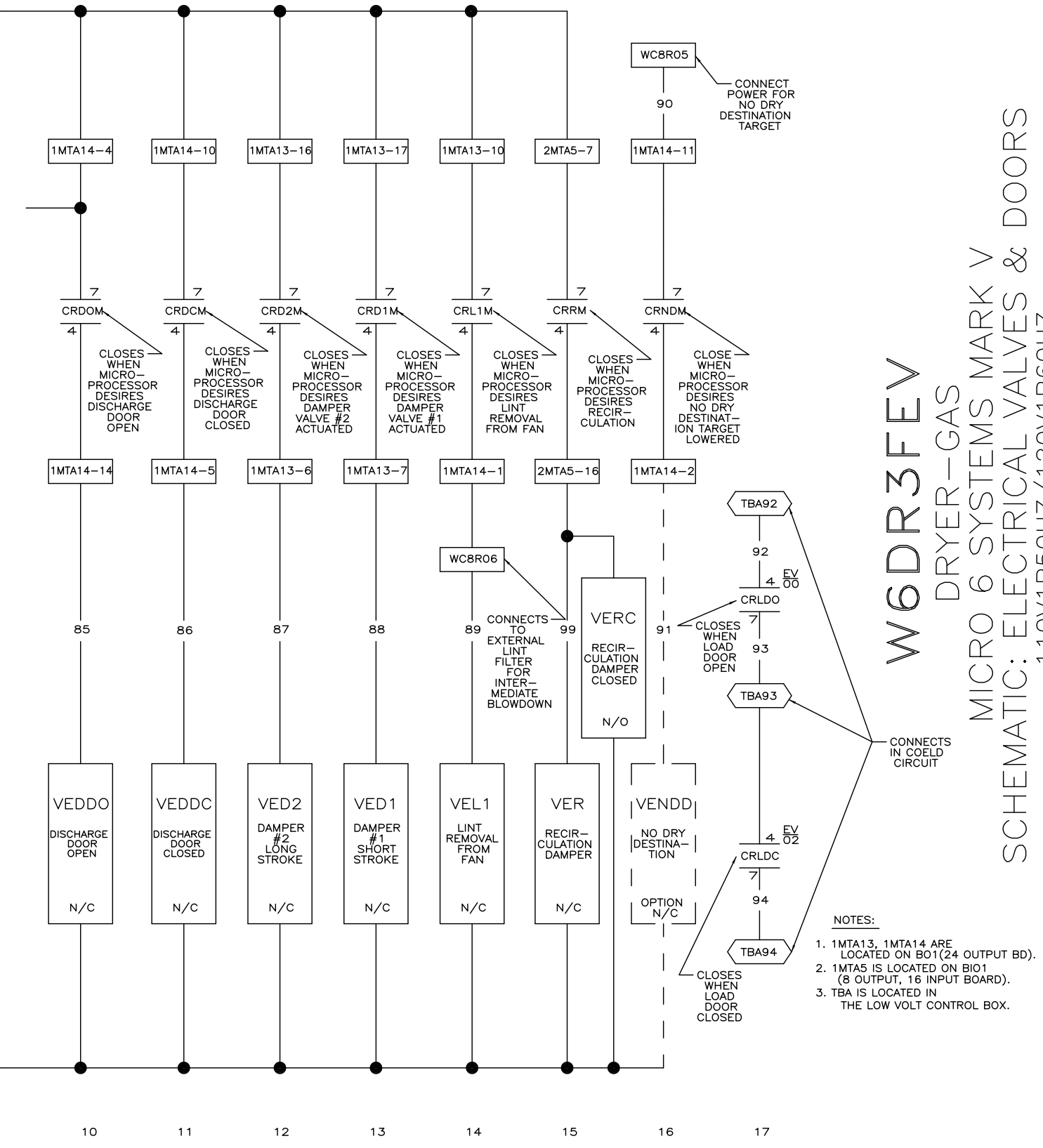
00 01 02 03 04 05 06 07 08 09

W6DR3FET
2025123B


W6DR3FET
SCHEMATIC: EXTERNAL TEMPERATURE LOCKOUT
MICRO 6 SYSTEMS MARK V
PELLERIN MILNOR CORPORATION
W6DR3FET
20251123B
ET14
ET02
SEE W6DR3FHV LINE 03,07,12
TBA5
120VAC
5
B
EXTERNAL SIDE OF DRYER
7
SKET
K
4
ZX4
7
SHET
4
EXTERNAL AT CEILING
7
STET
T
4
CLOSES WHEN TEMPERATURE IS ABOVE 175°F
ET 12
8
CLET
4
CLOSES WHEN EXTERNAL THERMOSTAT TRIPPED (PINS 7/4 if 11pin base)
TBAZX1
TBAZX3
ZX2
ZX1
EXTERNAL
ZX3
A
CLET
EXTERNAL THERMOSTAT
SET
B
EFET
FLASHING LIGHT
V
CLET
EXTERNAL THERMOSTAT (PINS 5/8 if 11 pin base)
RESET
7
SEE W6DR3FHV LINE 15
H
6
TBA6
NOTES:
1. TBA IS LOCATED IN THE LOW VOLT CONTROL BOX.
2. LATCH RELAY (CL) IS FOR A 14 PIN BASE
10
11
12
13
14
15
16
17
18
19
W6DR3FET
2025123B



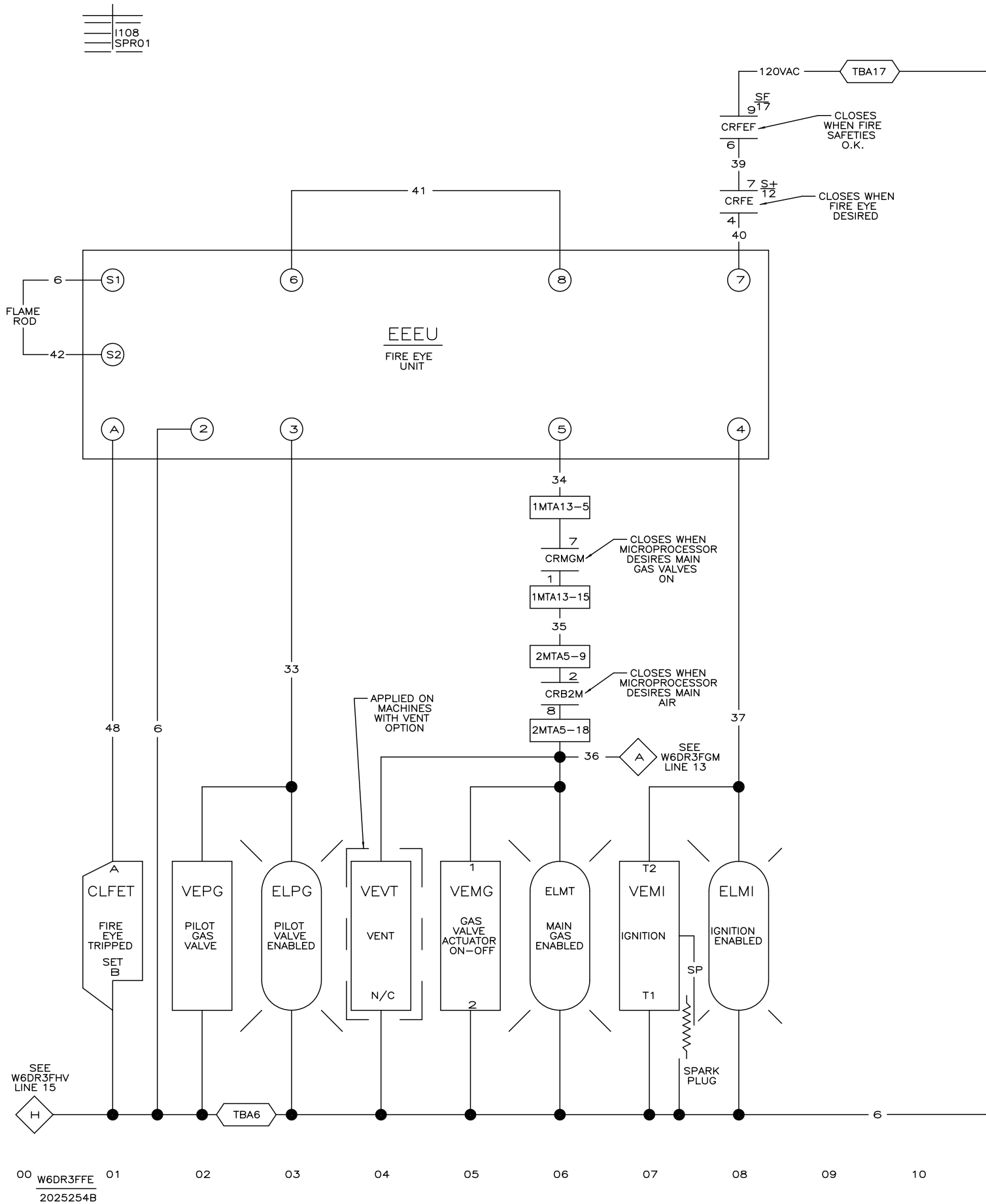
W6DR3FEV
2024245B



NOTES:

1. 1MTA13, 1MTA14 ARE LOCATED ON BO1(24 OUTPUT BD).
2. 1MTA5 IS LOCATED ON BIO1 (8 OUTPUT, 16 INPUT BOARD).
3. TBA IS LOCATED IN THE LOW VOLT CONTROL BOX.

W6DR3FEV
DRYER–GAS
MICRO 6 SYSTEMS MARK V
SCHEMATIC: ELECTRICAL VALVES & DOORS
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION


I108
SPR01
120VAC
TBA17
SF
9 17
CRFEF
CLOSES WHEN FIRE SAFETIES O.K.
6
39
7 S+
12
CRFE
CLOSES WHEN FIRE EYE DESIRED
4
40
41
6
S1
FLAME ROD
42
S2
EEEU
FIRE EYE UNIT
6
8
7
A
2
3
5
4
34
1MTA13–5
7
CRMGM
CLOSES WHEN MICROPROCESSOR DESIRES MAIN GAS VALVES ON
1
1MTA13–15
35
2MTA5–9
2
CRB2M
CLOSES WHEN MICROPROCESSOR DESIRES MAIN AIR
8
2MTA5–18
33
APPLIED ON MACHINES WITH VENT OPTION
48
6
37
36
A
SEE W6DR3FGM LINE 13
A
CLFET
FIRE EYE TRIPPED
SET B
VEPG
PILOT GAS VALVE
ELPG
PILOT VALVE ENABLED
VEVT
VENT
N/C
1
VEMG
GAS VALVE ACTUATOR ON–OFF
2
ELMT
MAIN GAS ENABLED
T2
VEMI
IGNITION
T1
SP
SPARK PLUG
ELMI
IGNITION ENABLED
SEE W6DR3FHV LINE 15
H
TBA6
6
00
W6DR3FFE
2025254B
01
02
03
04
05
06
07
08
09
10

17 — A — SEE W6DR3FS+ LINE 01

SHSR:
SAFETY RESET

7 — 1 — 4 — 38

CLFET
FIRE EYE TRIPPED RESET
(PINS 5/8 if 11 pin base)
7

CLGH
GAS PRESSURE HIGH RESET
(PINS 5/8 if 11 pin base)
7

CLGL
GAS PRESSURE LOW RESET
(PINS 5/8 if 11 pin base)
7

CLMA
MAIN AIR LOW RESET
(PINS 5/8 if 11 pin base)
7

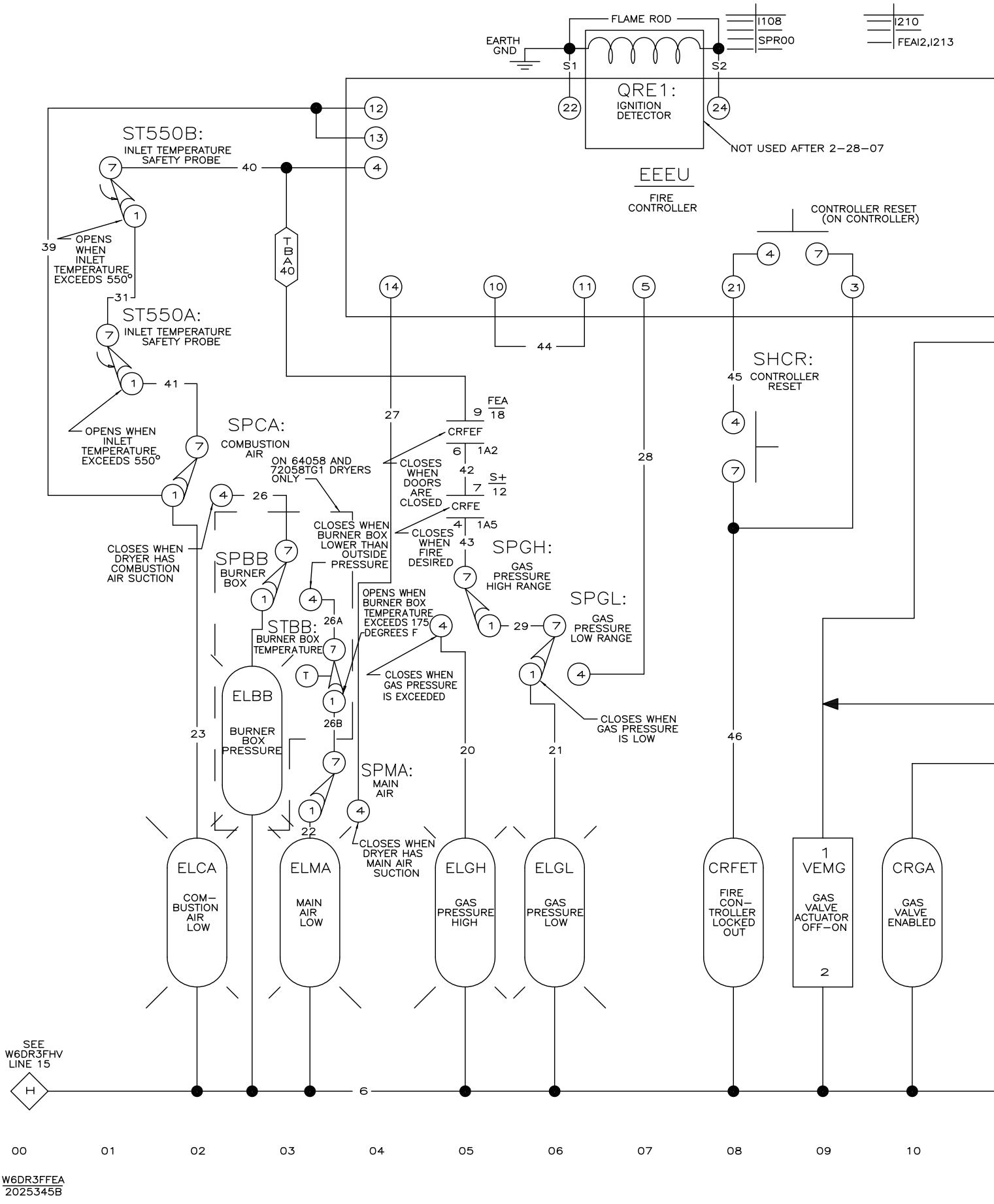
CLCA
COMBUSTION AIR LOW RESET
(PINS 5/8 if 11 pin base)
7

CLBB
BURNER BOX RESET
(PINS 5/8 if 11 pin base)
7

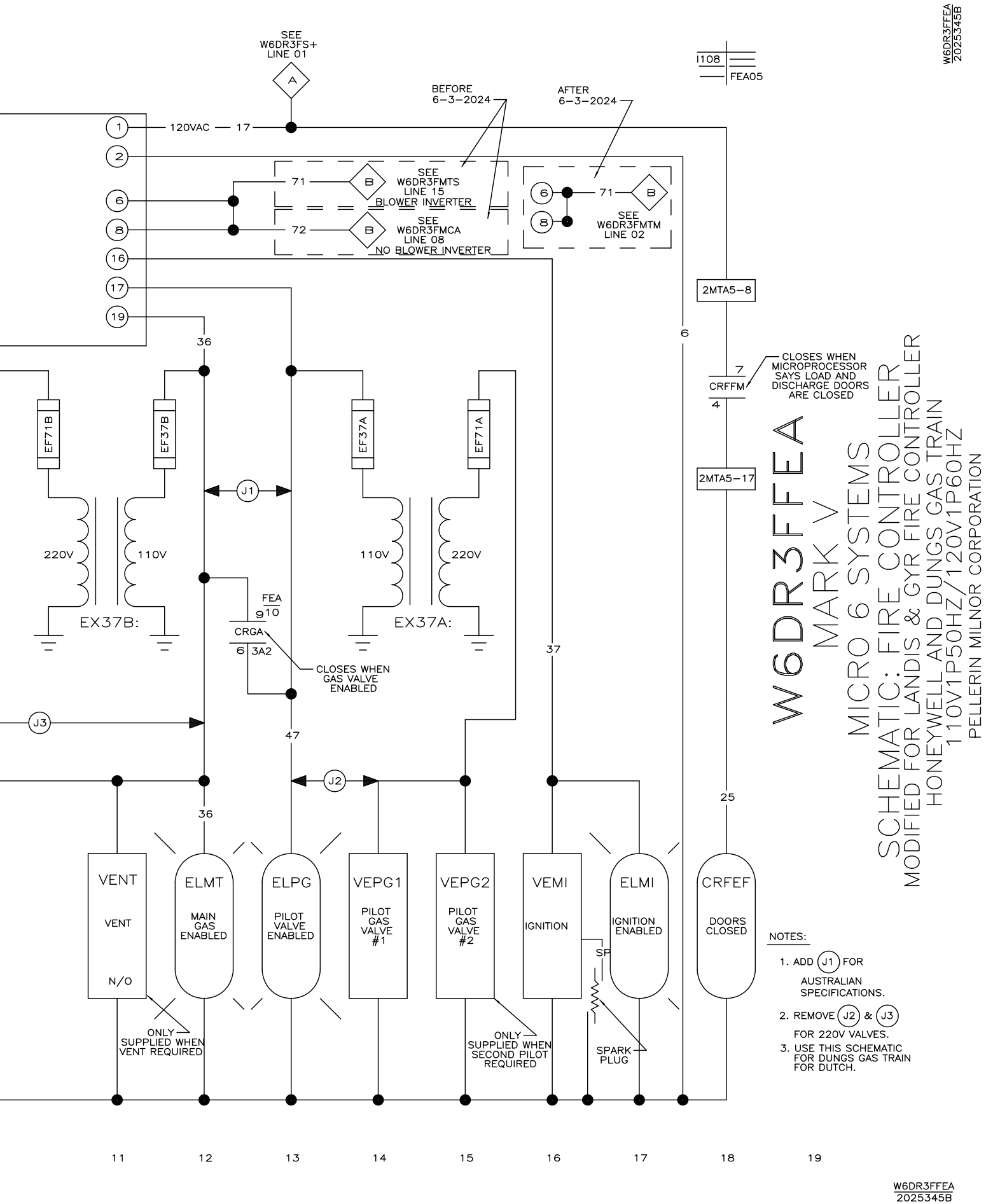
6

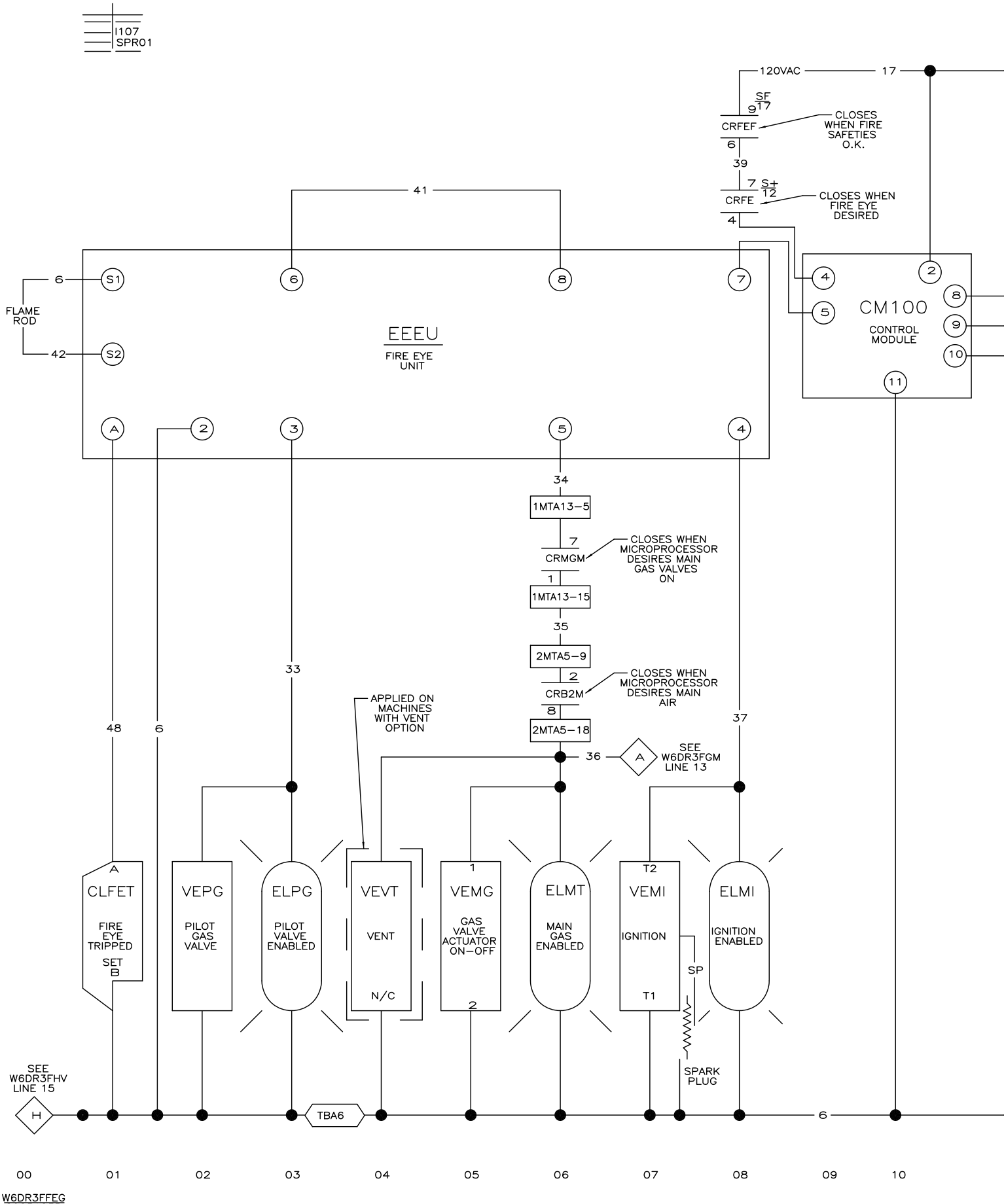
11 12 13 14 15 16 17 18 19

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

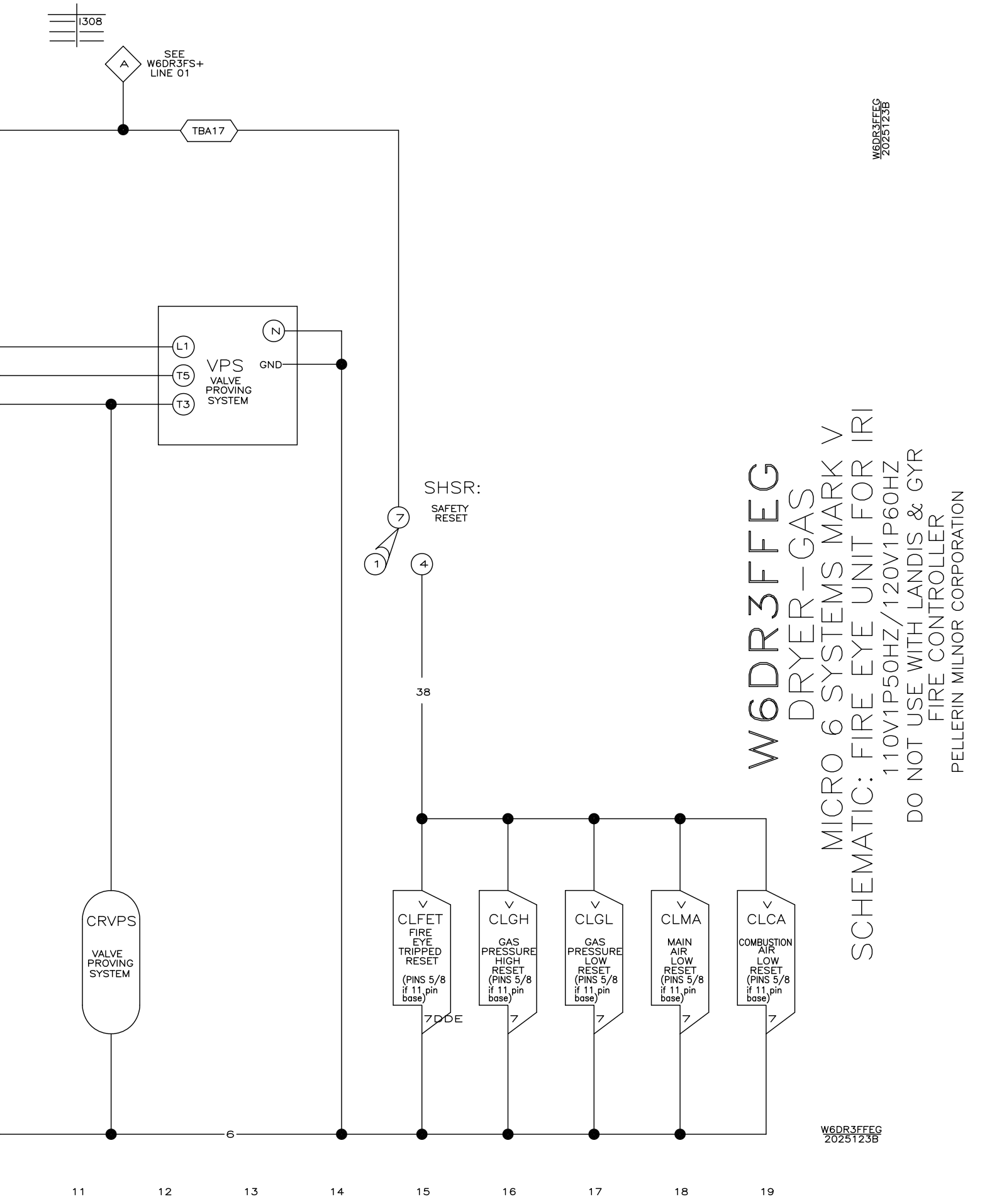


W6DR3FFEA
2025345B


W6DR3FFEA
2025345B
SEE
W6DR3FS+
LINE 01
A
I108
FEA05
BEFORE
6-3-2024
AFTER
6-3-2024
1
2
6
8
16
17
19
120VAC
17
71
B
SEE
W6DR3FMTS
LINE 15
BLOWER INVERTER
72
B
SEE
W6DR3FMCA
LINE 08
NO BLOWER INVERTER
6
8
71
B
SEE
W6DR3FMTM
LINE 02
2MTA5-8
2MTA5-17
6
7
CRFFM
4
CLOSES WHEN
MICROPROCESSOR
SAYS LOAD AND
DISCHARGE DOORS
ARE CLOSED
36
EF71B
EF37B
EF37A
EF71A
J1
220V
110V
110V
220V
EX37B:
EX37A:
FEA
9 10
CRGA
6 3A2
CLOSES WHEN
GAS VALVE
ENABLED
37
J3
47
J2
36
25
VENT
VENT
N/O
ELMT
MAIN
GAS
ENABLED
ELPG
PILOT
VALVE
ENABLED
VEPG1
PILOT
GAS
VALVE
#1
VEPG2
PILOT
GAS
VALVE
#2
VEMI
IGNITION
SP
ELMI
IGNITION
ENABLED
CRFEF
DOORS
CLOSED
ONLY
SUPPLIED WHEN
VENT REQUIRED
ONLY
SUPPLIED WHEN
SECOND PILOT
REQUIRED
SPARK
PLUG
11
12
13
14
15
16
17
18
19
W6DR3FFEA
MARK V
SCHEMATIC: FIRE CONTROLLER
MICRO 6 SYSTEMS
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.
W6DR3FFEA
2025345B

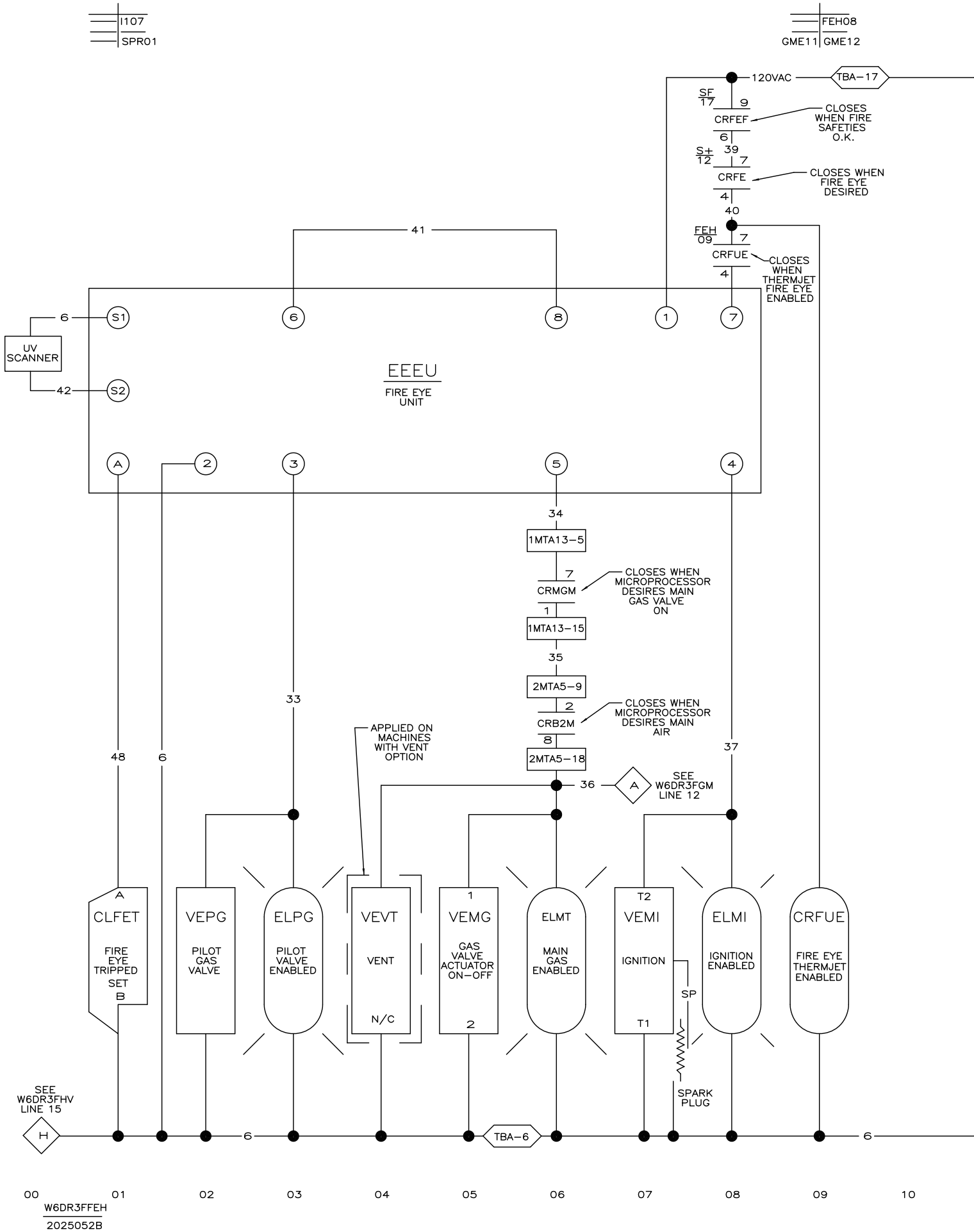


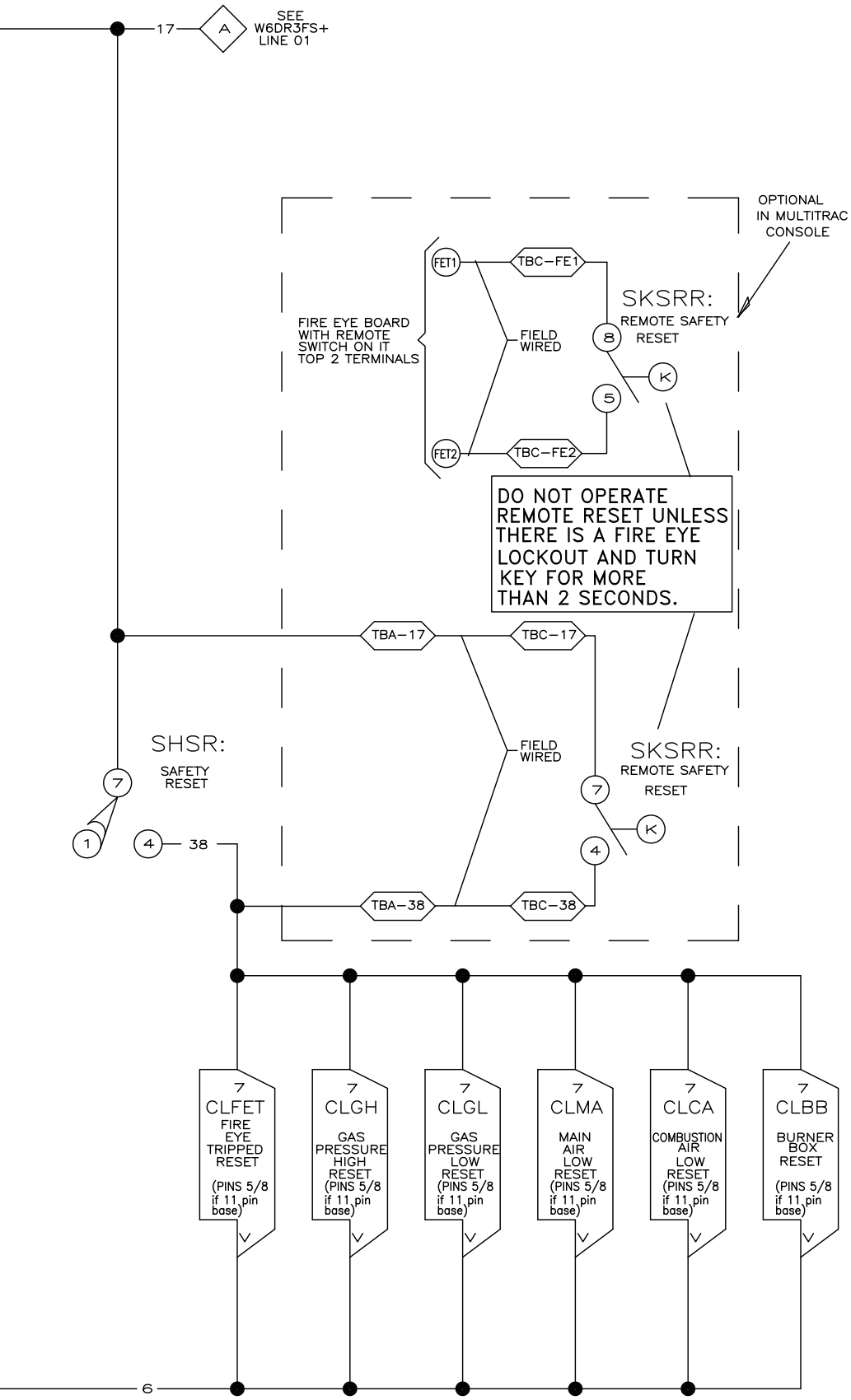
W6DR3FFEG
2025123B



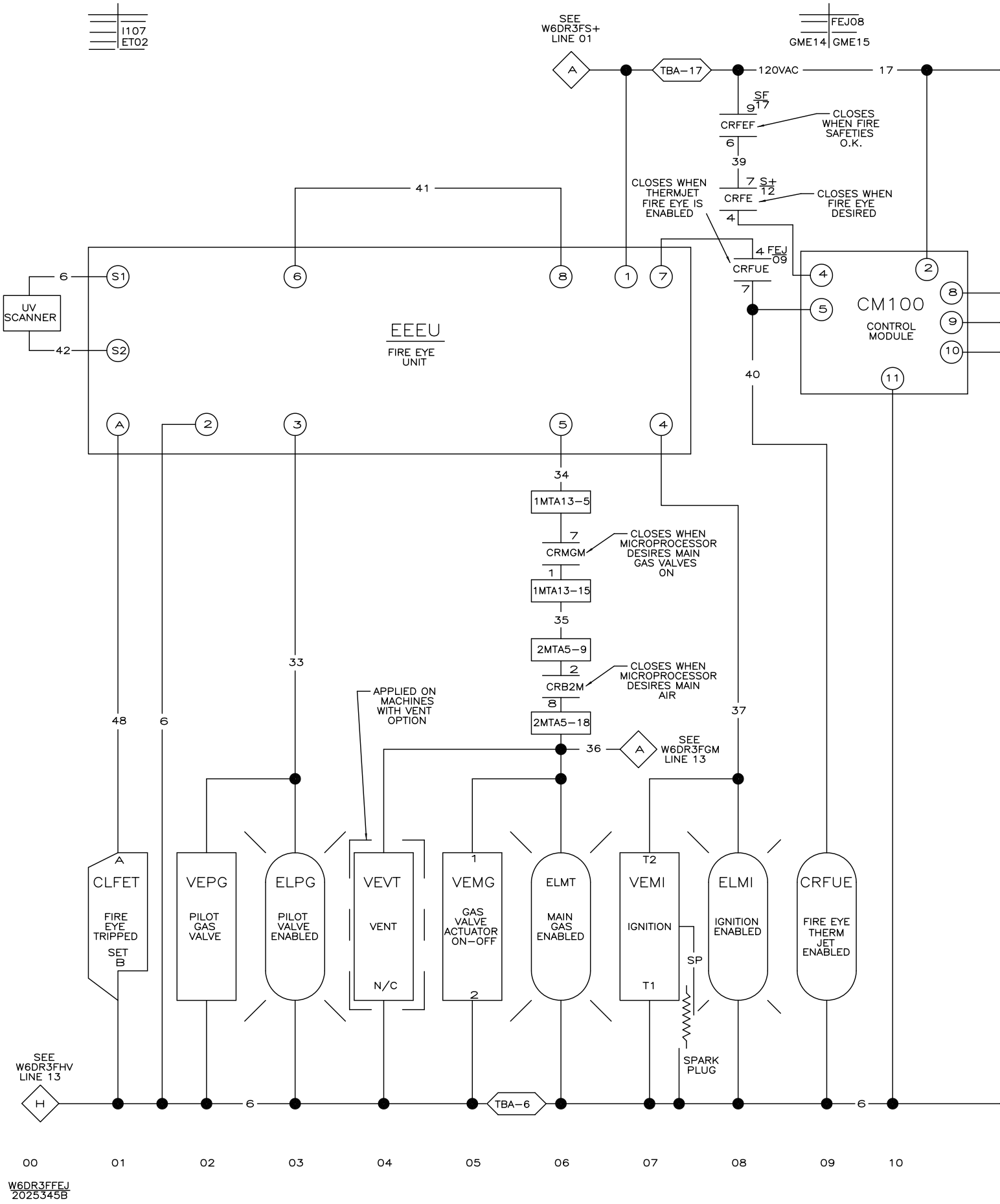
W6DR3FFEG
2025123B

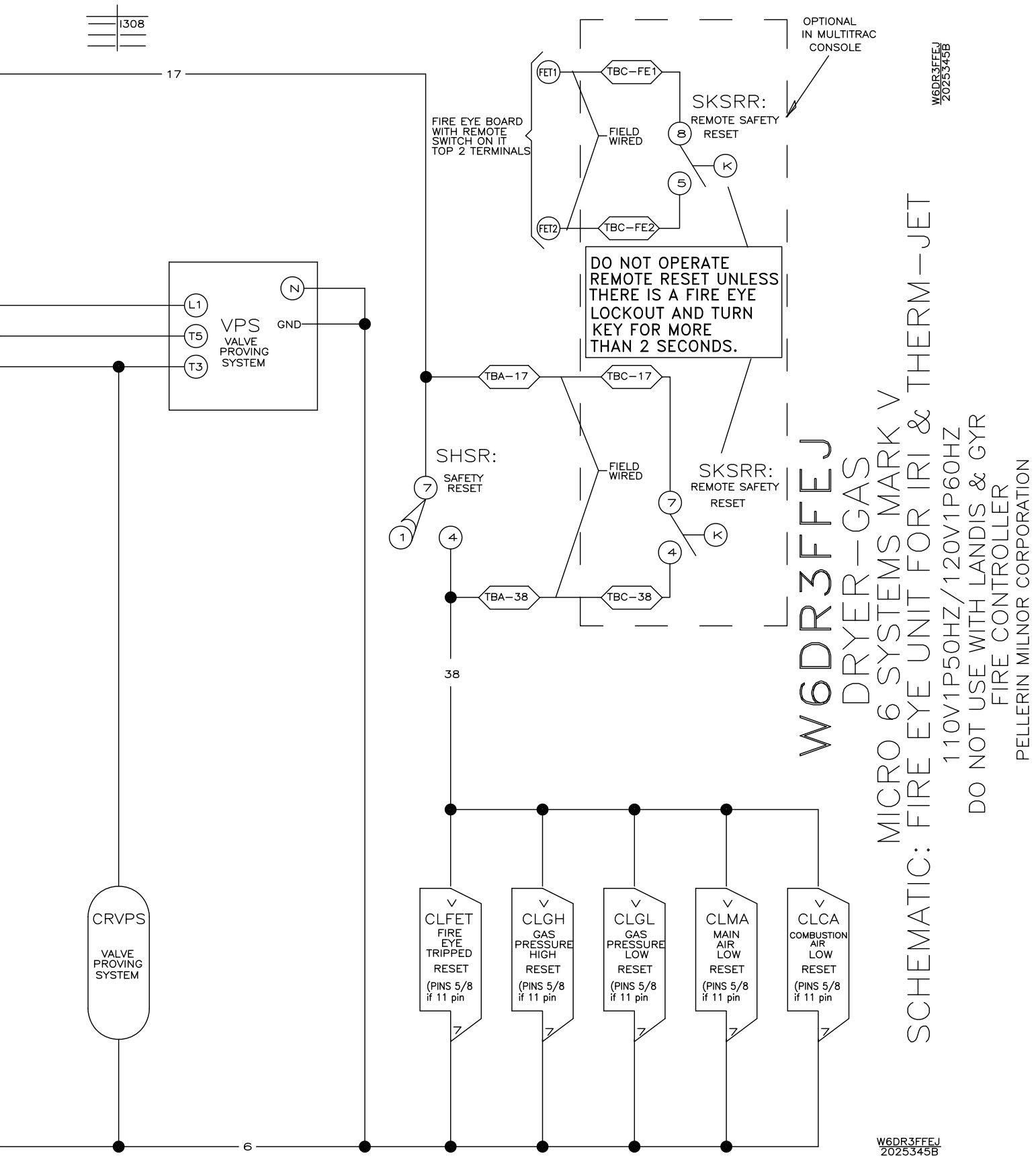
W6DR3FFEG
DRYER–GAS
MICRO 6 SYSTEMS MARK V
SCHEMATIC: FIRE EYE UNIT FOR IRI
110V1P50HZ/120V1P60HZ
DO NOT USE WITH LANDIS & GYR
FIRE CONTROLLER
PELLERIN MILNOR CORPORATION

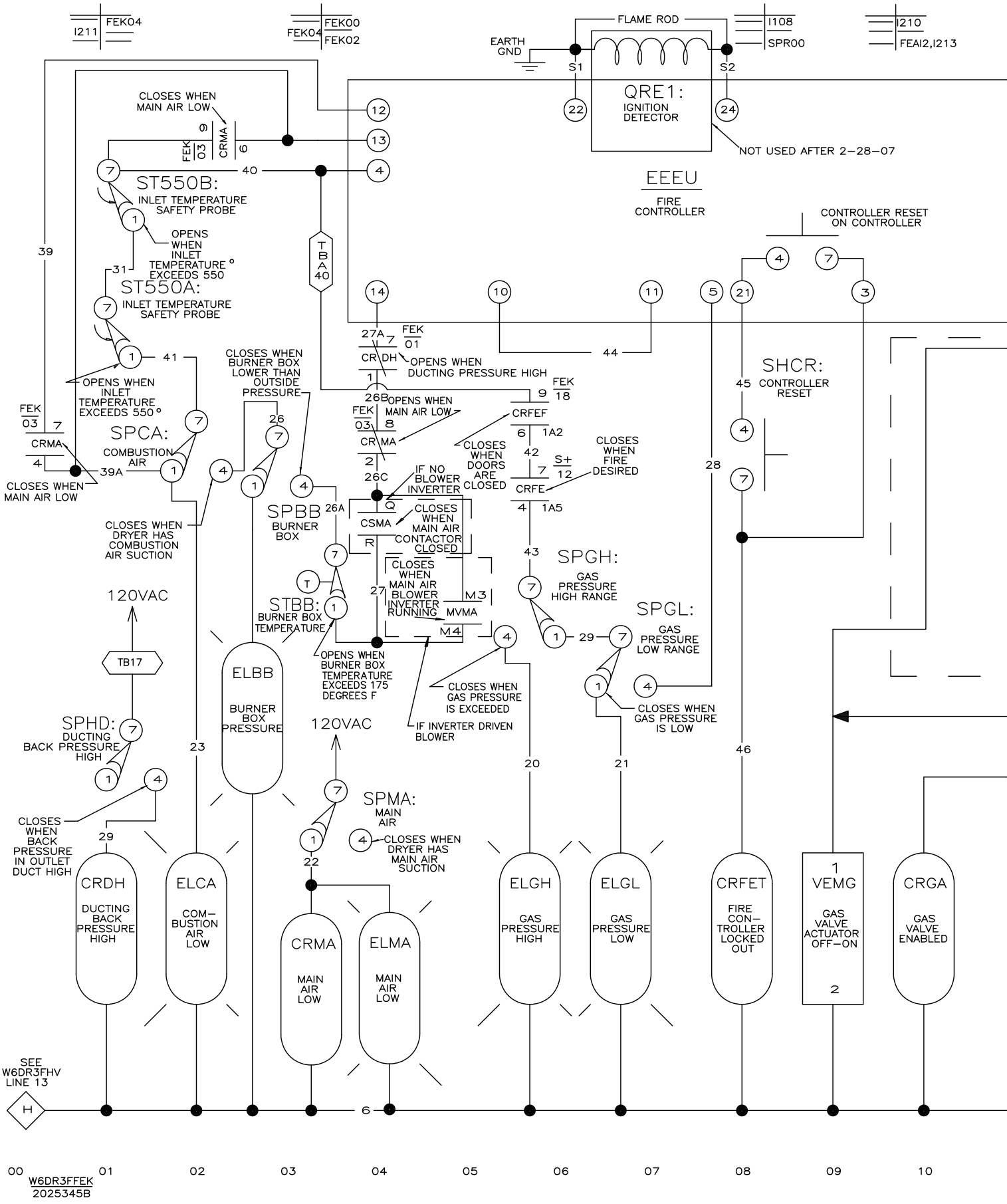

I107
SPR01
FEH08
GME11 GME12
120VAC
TBA–17
SF 17 9
CRFEF
CLOSES WHEN FIRE SAFETIES O.K.
6
S+ 12 39 7
CRFE
CLOSES WHEN FIRE EYE DESIRED
4
40
FEH 09 7
CRFUE
CLOSES WHEN THERMJET FIRE EYE ENABLED
4
41
6
S1
6
8
1
7
UV SCANNER
42
S2
EEEU
FIRE EYE UNIT
A
2
3
5
4
34
1MTA13–5
7
CRMGM
CLOSES WHEN MICROPROCESSOR DESIRES MAIN GAS VALVE ON
1
1MTA13–15
35
2MTA5–9
2
CRB2M
CLOSES WHEN MICROPROCESSOR DESIRES MAIN AIR
8
2MTA5–18
33
APPLIED ON MACHINES WITH VENT OPTION
48
6
37
36
A
SEE W6DR3FGM LINE 12
A
CLFET
FIRE EYE TRIPPED SET
B
VEPG
PILOT GAS VALVE
ELPG
PILOT VALVE ENABLED
VEVT
VENT
N/C
1
VEMG
GAS VALVE ACTUATOR ON–OFF
2
ELMT
MAIN GAS ENABLED
T2
VEMI
IGNITION
T1
SP
SPARK PLUG
ELMI
IGNITION ENABLED
CRFUE
FIRE EYE THERMJET ENABLED
SEE W6DR3FHV LINE 15
H
6
TBA–6
6
00
01
02
03
04
05
06
07
08
09
10
W6DR3FFEH
2025052B

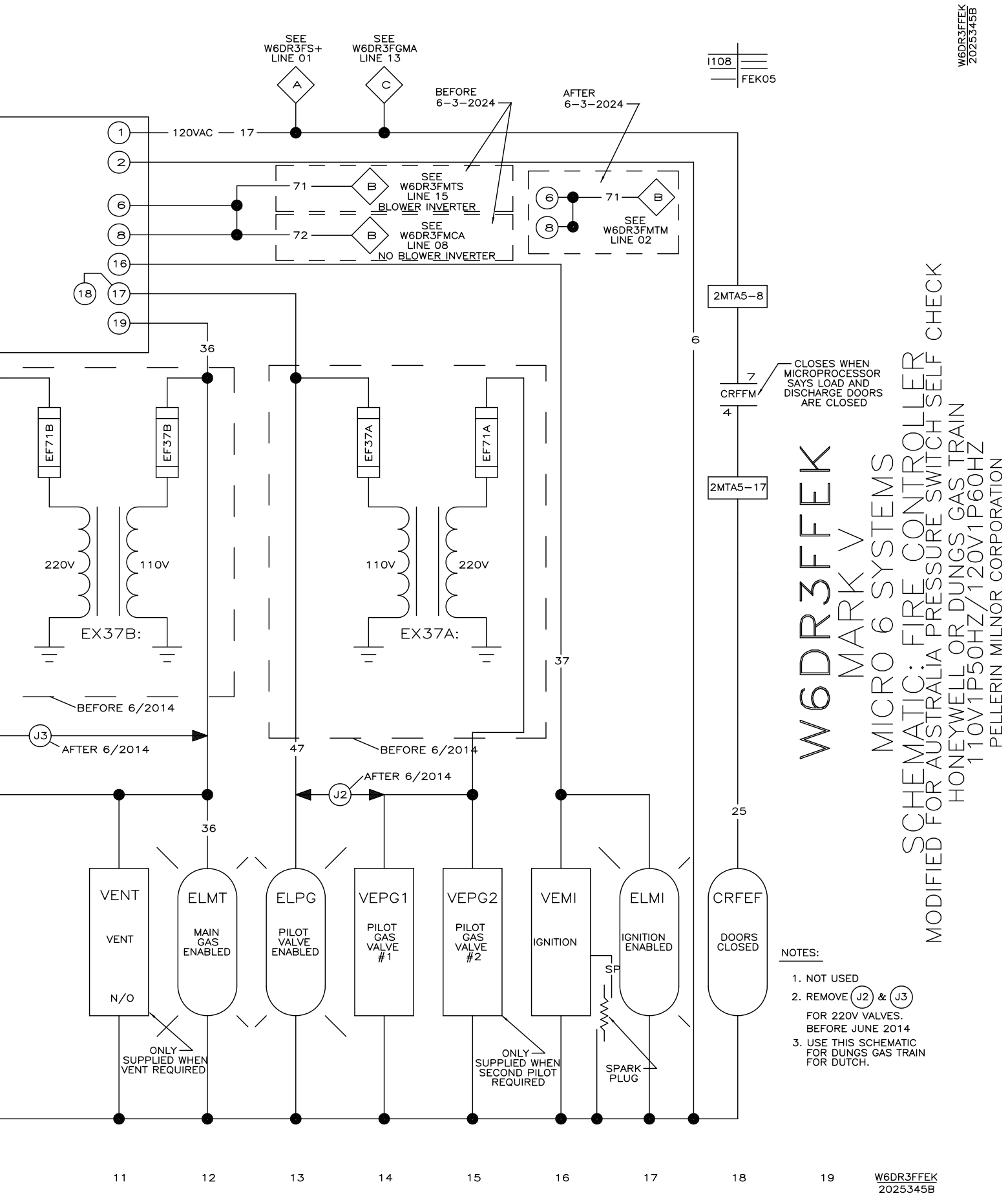


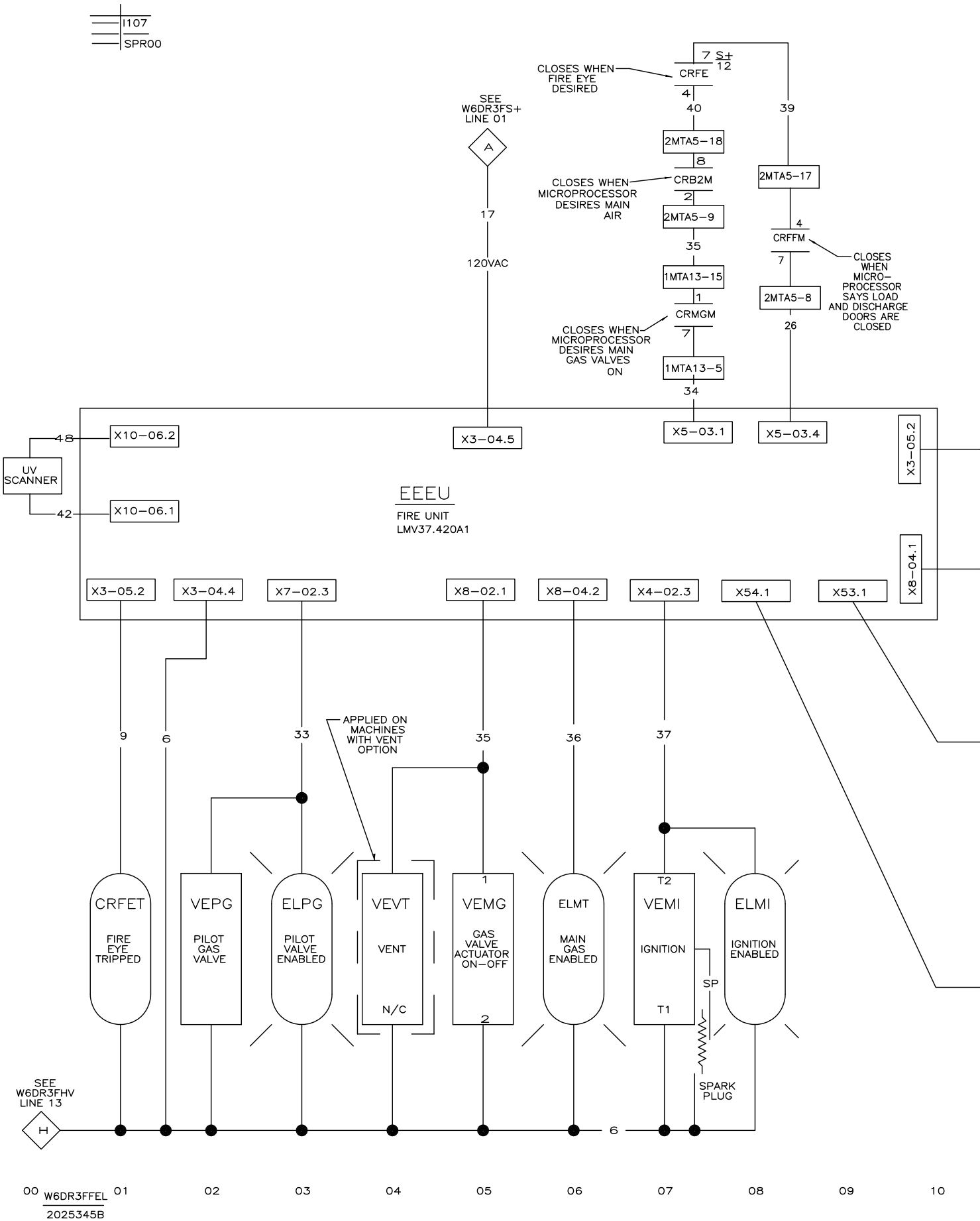
W6DR3FFEH
DRYER–GAS
MICRO 6 SYSTEMS MARK V
SCHEMATIC: FIRE EYE W/THERM JET
110V1P50HZ/120V1P60HZ
DO NOT USE WITH LANDIS & GYR
FIRE CONTROLLER
PELLERIN MILNOR CORPORATION

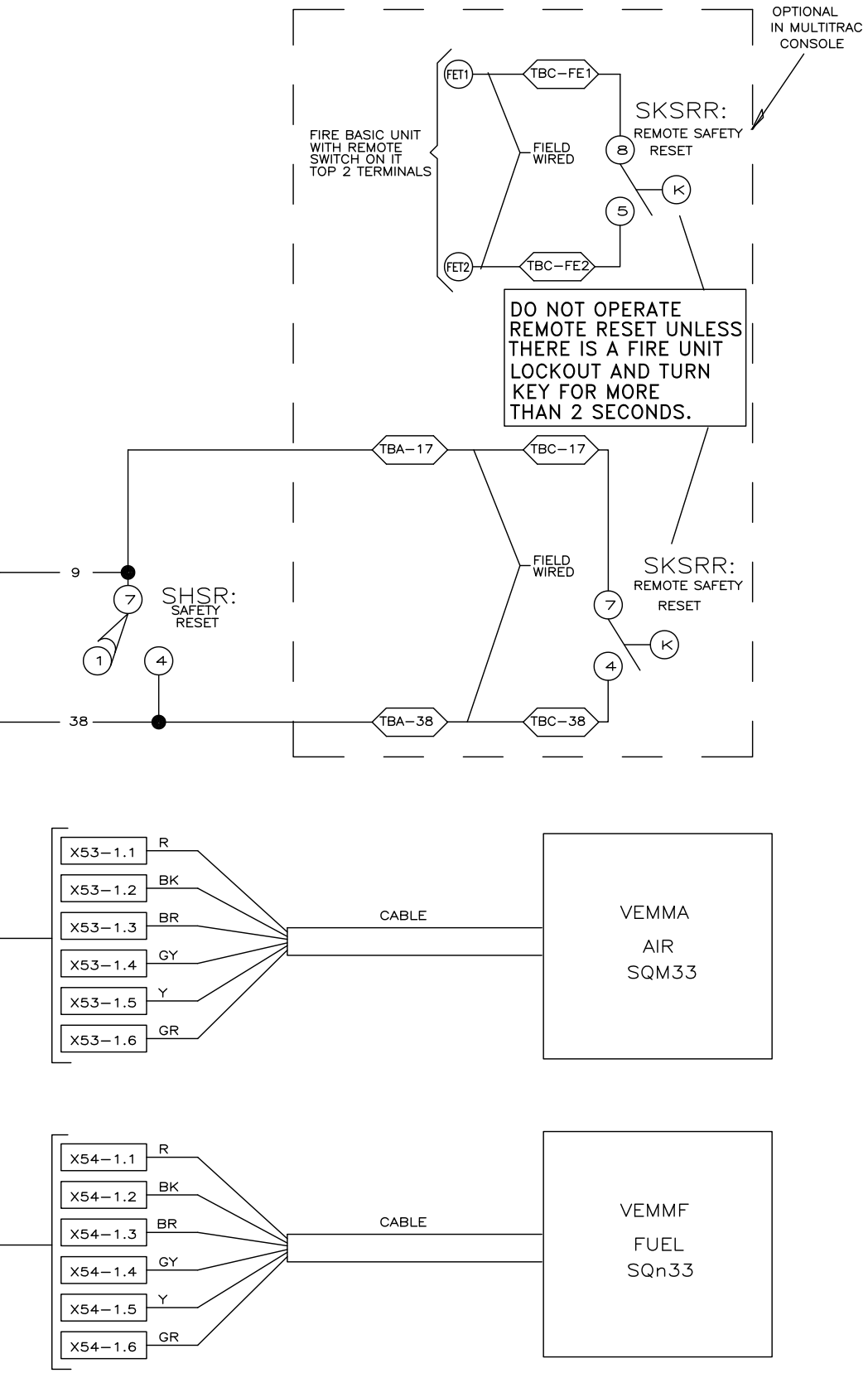

I107
ET02
SEE
W6DR3FS+
LINE 01
FEJ08
GME14 GME15
A
TBA–17
120VAC
17
SF
9 17
CRFEF
6
CLOSES
WHEN FIRE
SAFETIES
O.K.
39
7 S+
12
CRFE
4
CLOSES WHEN
THERMJET
FIRE EYE IS
ENABLED
CLOSES WHEN
FIRE EYE
DESIRED
41
4 FEJ
09
CRFUE
7
6
S1
UV
SCANNER
42
S2
EEEU
FIRE EYE
UNIT
6
8
1
7
4
5
CM100
CONTROL
MODULE
2
8
9
10
11
40
A
2
3
5
4
34
1MTA13–5
7
CRMGM
CLOSES WHEN
MICROPROCESSOR
DESIRES MAIN
GAS VALVES
ON
1
1MTA13–15
35
2MTA5–9
2
CRB2M
CLOSES WHEN
MICROPROCESSOR
DESIRES MAIN
AIR
8
2MTA5–18
33
APPLIED ON
MACHINES
WITH VENT
OPTION
48
6
37
36
A
SEE
W6DR3FGM
LINE 13
A
CLFET
FIRE
EYE
TRIPPED
SET
B
VEPG
PILOT
GAS
VALVE
ELPG
PILOT
VALVE
ENABLED
VEVT
VENT
N/C
1
VEMG
GAS
VALVE
ACTUATOR
ON–OFF
2
ELMT
MAIN
GAS
ENABLED
T2
VEMI
IGNITION
T1
SP
ELMI
IGNITION
ENABLED
CRFUE
FIRE EYE
THERM
JET
ENABLED
SPARK
PLUG
SEE
W6DR3FHV
LINE 13
H
6
TBA–6
6
00
01
02
03
04
05
06
07
08
09
10
W6DR3FFEJ
2025345B


1308
17
OPTIONAL
IN MULTITRAC
CONSOLE
FET1
TBC–FE1
FIELD
WIRED
SKSRR:
REMOTE SAFETY
RESET
8
K
5
FET2
TBC–FE2
FIRE EYE BOARD
WITH REMOTE
SWITCH ON IT
TOP 2 TERMINALS
DO NOT OPERATE
REMOTE RESET UNLESS
THERE IS A FIRE EYE
LOCKOUT AND TURN
KEY FOR MORE
THAN 2 SECONDS.
L1
T5
T3
VPS
VALVE
PROVING
SYSTEM
N
GND
TBA–17
TBC–17
SHSR:
7
SAFETY
RESET
1
4
FIELD
WIRED
SKSRR:
REMOTE SAFETY
RESET
7
K
4
TBA–38
TBC–38
38
CRVPS
VALVE
PROVING
SYSTEM
V
CLFET
FIRE
EYE
TRIPPED
RESET
(PINS 5/8
if 11 pin
7
V
CLGH
GAS
PRESSURE
HIGH
RESET
(PINS 5/8
if 11 pin
7
V
CLGL
GAS
PRESSURE
LOW
RESET
(PINS 5/8
if 11 pin
7
V
CLMA
MAIN
AIR
LOW
RESET
(PINS 5/8
if 11 pin
7
V
CLCA
COMBUSTION
AIR
LOW
RESET
(PINS 5/8
if 11 pin
7
6
11
12
13
14
15
16
17
18
19
W6DR3FFEJ
2025345B
W6DR3FFEJ
DRYER–GAS
SCHEMATIC: FIRE EYE UNIT FOR IRI & THERM–JET
MICRO 6 SYSTEMS MARK V
110V1P50HZ/120V1P60HZ
DO NOT USE WITH LANDIS & GYR
FIRE CONTROLLER
PELLERIN MILNOR CORPORATION
W6DR3FFEJ
2025345B


I211 FEK04
FEK04 FEK00 FEK02
FLAME ROD
EARTH GND
S1
S2
I108 SPR00
I210 FEAI2,I213
QRE1: IGNITION DETECTOR
NOT USED AFTER 2-28-07
EEEU FIRE CONTROLLER
CONTROLLER RESET ON CONTROLLER
CLOSES WHEN MAIN AIR LOW
FEK 03 9 CRMA 6
ST550B: INLET TEMPERATURE SAFETY PROBE
OPENS WHEN INLET TEMPERATURE ° EXCEEDS 550
ST550A: INLET TEMPERATURE SAFETY PROBE
OPENS WHEN INLET TEMPERATURE EXCEEDS 550 °
CLOSES WHEN MAIN AIR LOW
SPCA: COMBUSTION AIR
CLOSES WHEN DRYER HAS COMBUSTION AIR SUCTION
CLOSES WHEN BURNER BOX LOWER THAN OUTSIDE PRESSURE
TBA 40
FEK 01 CR DH OPENS WHEN DUCTING PRESSURE HIGH
FEK 03 8 CR MA OPENS WHEN MAIN AIR LOW
FEK 18 CRFEF 1A2
CLOSES WHEN DOORS ARE CLOSED
CRFE 1A5
CLOSES WHEN FIRE DESIRED
SHCR: CONTROLLER RESET
IF NO BLOWER INVERTER
SPBB BURNER BOX
CSMA CLOSES WHEN MAIN AIR CONTACTOR CLOSED
CLOSES WHEN MAIN AIR BLOWER INVERTER RUNNING M3 MVMA M4
SPGH: GAS PRESSURE HIGH RANGE
SPGL: GAS PRESSURE LOW RANGE
CLOSES WHEN GAS PRESSURE IS EXCEEDED
CLOSES WHEN GAS PRESSURE IS LOW
IF INVERTER DRIVEN BLOWER
120VAC
TB17
STBB: BURNER BOX TEMPERATURE
OPENS WHEN BURNER BOX TEMPERATURE EXCEEDS 175 DEGREES F
ELBB BURNER BOX PRESSURE
SPHD: DUCTING BACK PRESSURE HIGH
CLOSES WHEN BACK PRESSURE IN OUTLET DUCT HIGH
120VAC
SPMA: MAIN AIR
CLOSES WHEN DRYER HAS MAIN AIR SUCTION
CRDH DUCTING BACK PRESSURE HIGH
ELCA COM-BUSTION AIR LOW
CRMA MAIN AIR LOW
ELMA MAIN AIR LOW
ELGH GAS PRESSURE HIGH
ELGL GAS PRESSURE LOW
CRFET FIRE CON-TROLLER LOCKED OUT
1 VEMG GAS VALVE ACTUATOR OFF-ON 2
CRGA GAS VALVE ENABLED
SEE W6DR3FHV LINE 13
H
00 01 02 03 04 05 06 07 08 09 10
W6DR3FFEK
2025345B


W6DR3FFEK
2025345B
SEE W6DR3FS+ LINE 01
SEE W6DR3FGMA LINE 13
A
C
BEFORE 6-3-2024
AFTER 6-3-2024
I108
FEK05
1
2
6
8
16
18
17
19
120VAC
17
71
72
B
SEE W6DR3FMTS LINE 15 BLOWER INVERTER
SEE W6DR3FMCA LINE 08 NO BLOWER INVERTER
SEE W6DR3FMTM LINE 02
2MTA5-8
2MTA5-17
6
7
CRFFM
4
CLOSES WHEN MICROPROCESSOR SAYS LOAD AND DISCHARGE DOORS ARE CLOSED
36
EF71B
EF37B
EF37A
EF71A
220V
110V
EX37B:
EX37A:
37
BEFORE 6/2014
J3
AFTER 6/2014
47
J2
25
VENT
VENT
N/O
ELMT
MAIN GAS ENABLED
ELPG
PILOT VALVE ENABLED
VEPG1
PILOT GAS VALVE #1
VEPG2
PILOT GAS VALVE #2
VEMI
IGNITION
SP
ELMI
IGNITION ENABLED
CRFEF
DOORS CLOSED
ONLY SUPPLIED WHEN VENT REQUIRED
ONLY SUPPLIED WHEN SECOND PILOT REQUIRED
SPARK PLUG
NOTES:
1. NOT USED
2. REMOVE J2 & J3 FOR 220V VALVES. BEFORE JUNE 2014
3. USE THIS SCHEMATIC FOR DUNGS GAS TRAIN FOR DUTCH.
11
12
13
14
15
16
17
18
19
W6DR3FFEK
2025345B
W6DR3FFEK
MARK V
MICRO 6 SYSTEMS
SCHEMATIC: FIRE CONTROLLER
MODIFIED FOR AUSTRALIA PRESSURE SWITCH SELF CHECK
HONEYWELL OR DUNGS GAS TRAIN
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION


I107
SPR00
7 S+
12
CRFE
4
40
39
CLOSES WHEN FIRE EYE DESIRED
SEE W6DR3FS+ LINE 01
A
2MTA5–18
8
CRB2M
2
2MTA5–9
35
1MTA13–15
1
CRMGM
7
1MTA13–5
34
CLOSES WHEN MICROPROCESSOR DESIRES MAIN AIR
CLOSES WHEN MICROPROCESSOR DESIRES MAIN GAS VALVES ON
17
120VAC
2MTA5–17
4
CRFFM
7
2MTA5–8
26
CLOSES WHEN MICRO–PROCESSOR SAYS LOAD AND DISCHARGE DOORS ARE CLOSED
48
42
UV SCANNER
X10–06.2
X10–06.1
X3–04.5
X5–03.1
X5–03.4
X3–05.2
X8–04.1
EEEU
FIRE UNIT
LMV37.420A1
X3–05.2
X3–04.4
X7–02.3
X8–02.1
X8–04.2
X4–02.3
X54.1
X53.1
9
6
33
35
36
37
APPLIED ON MACHINES WITH VENT OPTION
CRFET
FIRE EYE TRIPPED
VEPG
PILOT GAS VALVE
ELPG
PILOT VALVE ENABLED
VEVT
VENT
N/C
1
VEMG
GAS VALVE ACTUATOR ON–OFF
2
ELMT
MAIN GAS ENABLED
T2
VEMI
IGNITION
T1
SP
ELMI
IGNITION ENABLED
SPARK PLUG
SEE W6DR3FHV LINE 13
H
6
00
01
02
03
04
05
06
07
08
09
10
W6DR3FFEL
2025345B



W6DR3FFEL
DRYER–GAS
MICRO 6 SYSTEMS MARK V
SCHEMATIC: FIRE UNIT W/THERM JET
110V1P50HZ/120V1P60HZ
LOW NOX BURNER
PELLERIN MILNOR CORPORATION

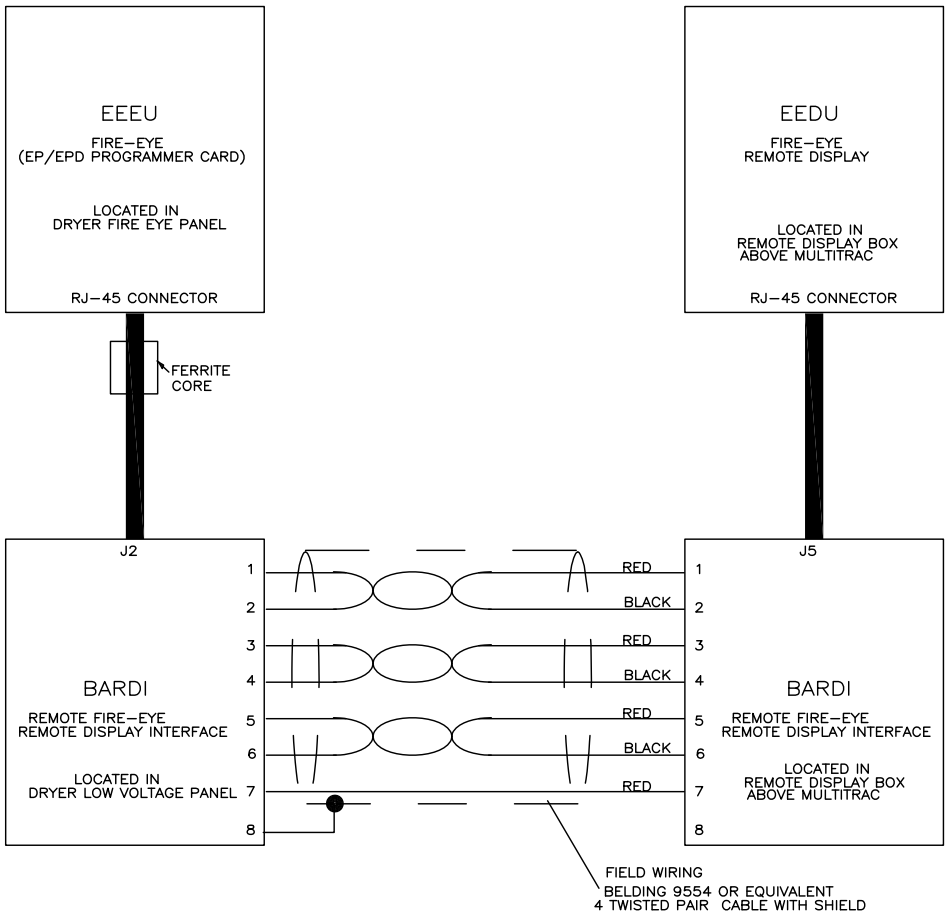
11 12 13 14 15 16 17 18 19

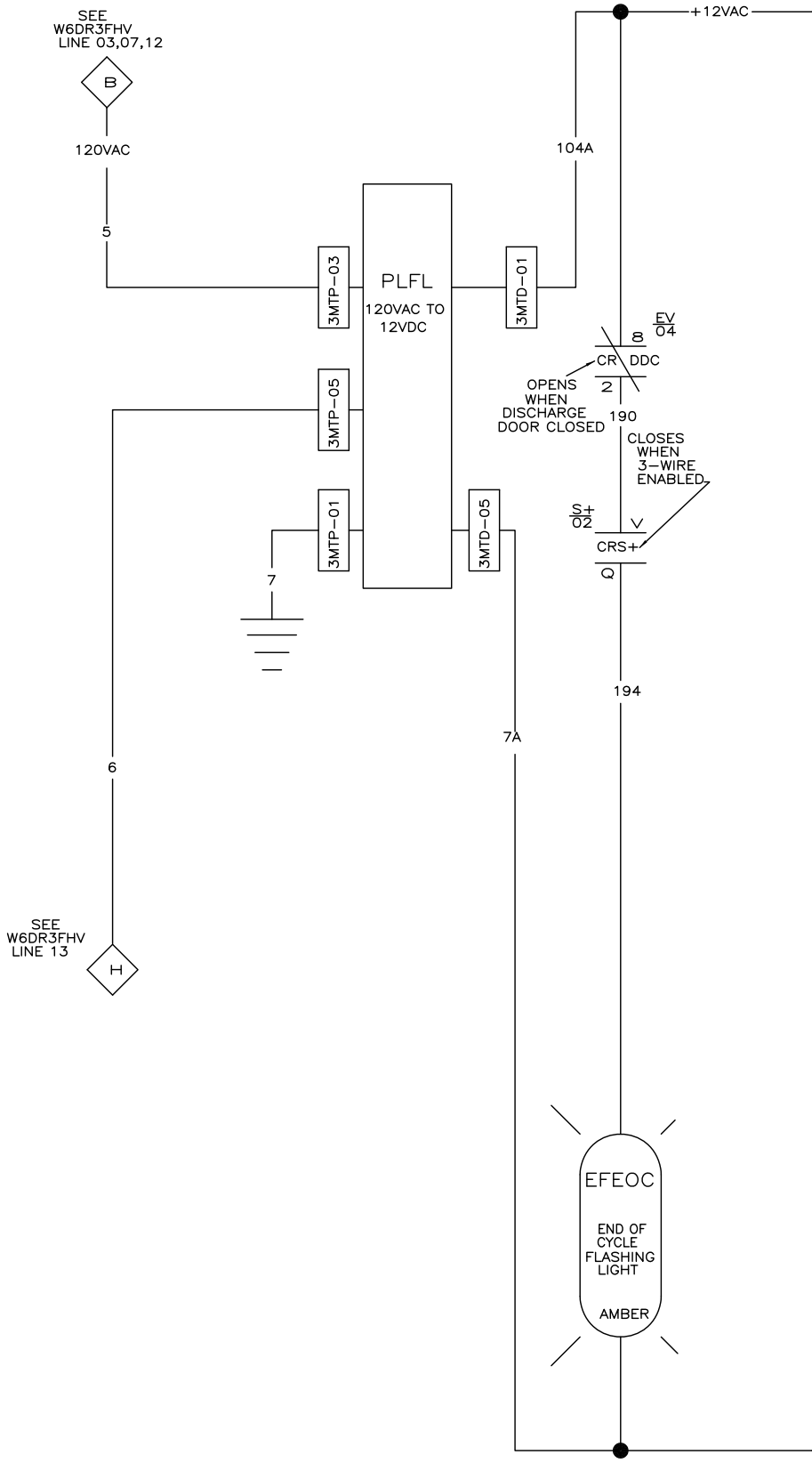
00 01 02 03 04 05 06 07 08 09 10

W6DR3FFERD
2014072B

W6DR3FFERD
MICRO 6 SYSTEMS MARK VI
SCHEMATIC: REMOTE FIRE EYE DISPLAY

PELLERIN MILNOR CORPORATION





00 01 02 03 04 05 06 07 08 09

W6DR3FFS
2024254B

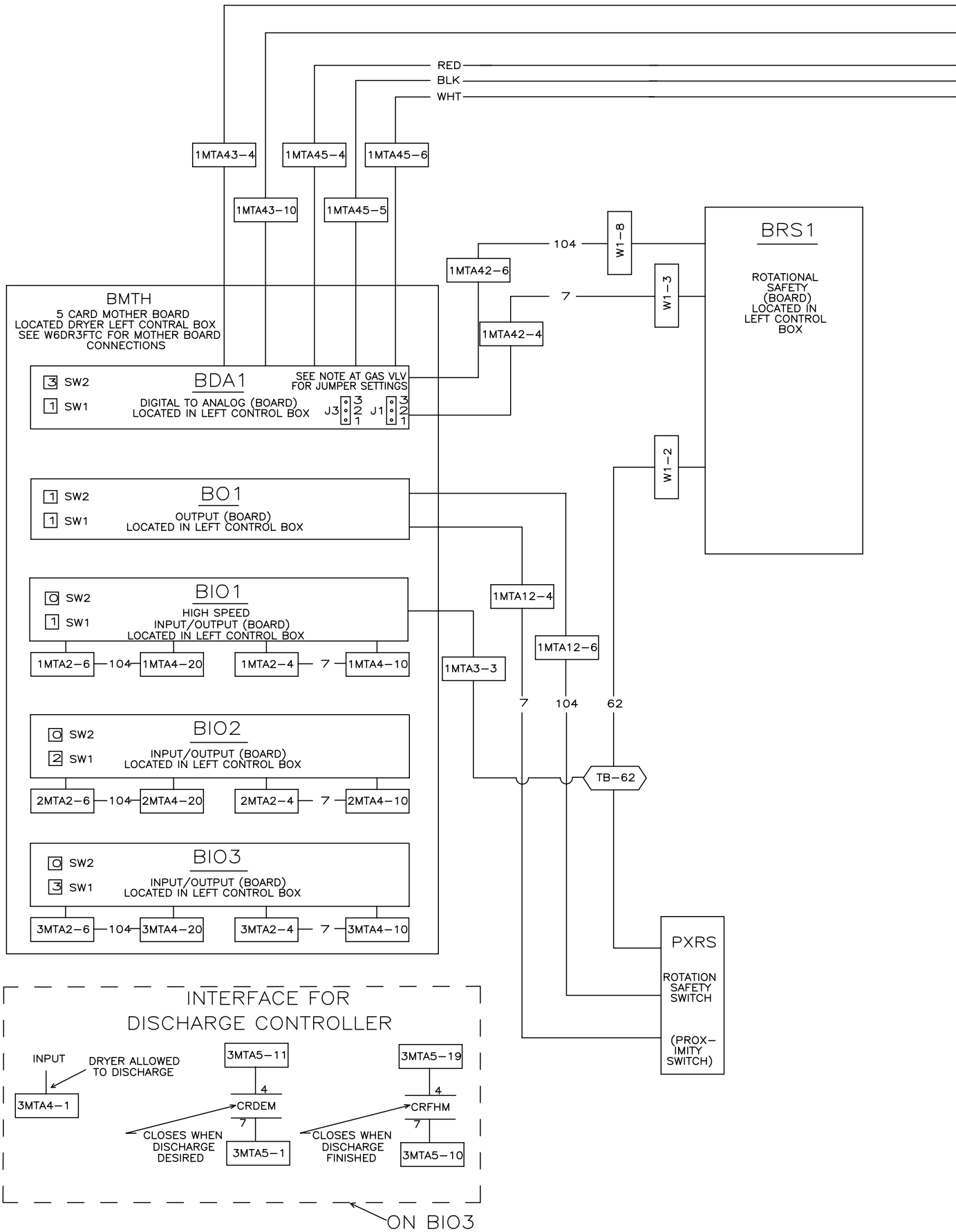
W6DR3FFS

SCHEMATIC: OPTIONAL FLASHING LED SIGNAL LIGHTS

PELLERIN MILNOR CORPORATION

W6DR3FFS
2024254B

W6DR3FFS
2024254B



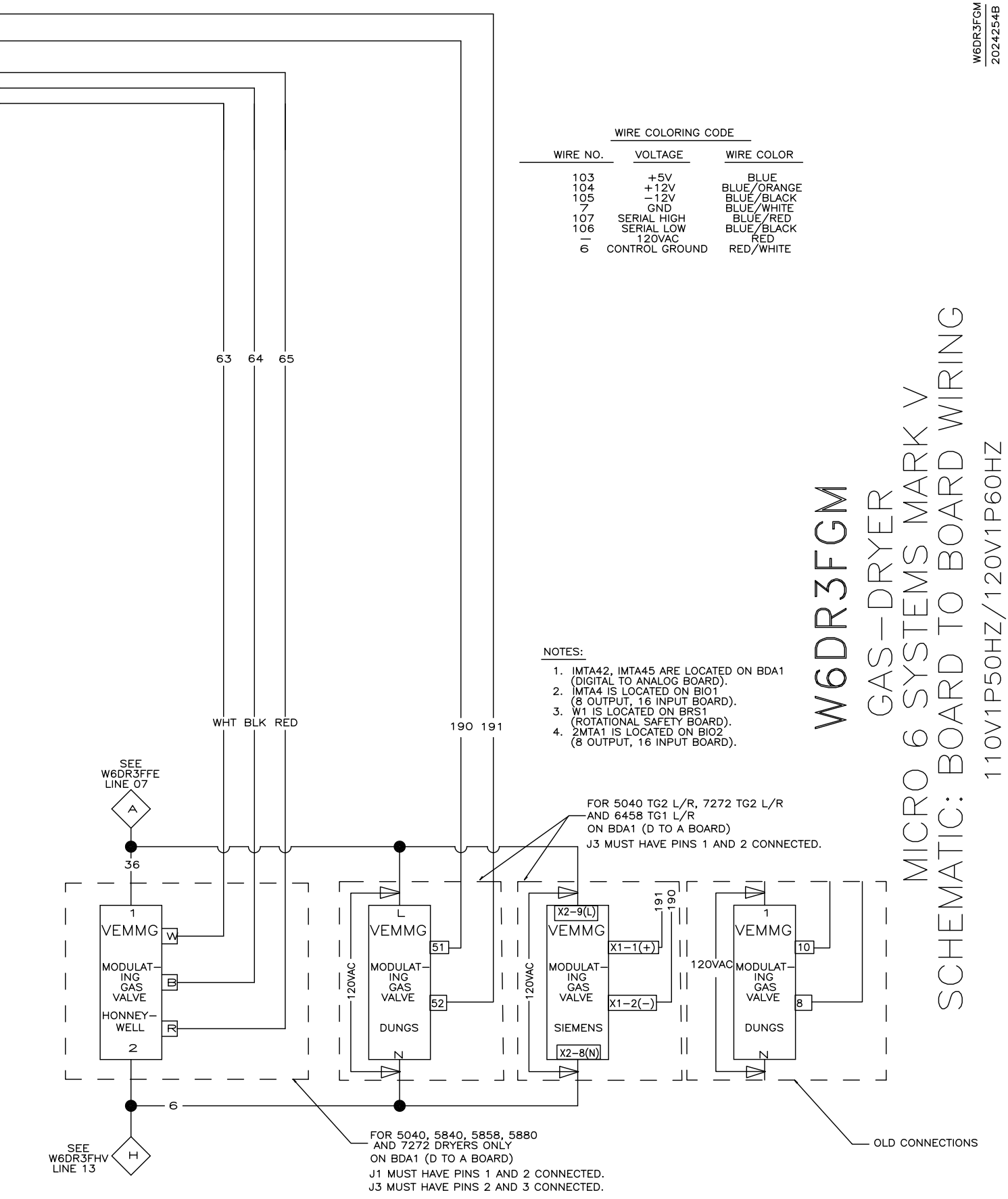
W6DR3FGM
2024254B

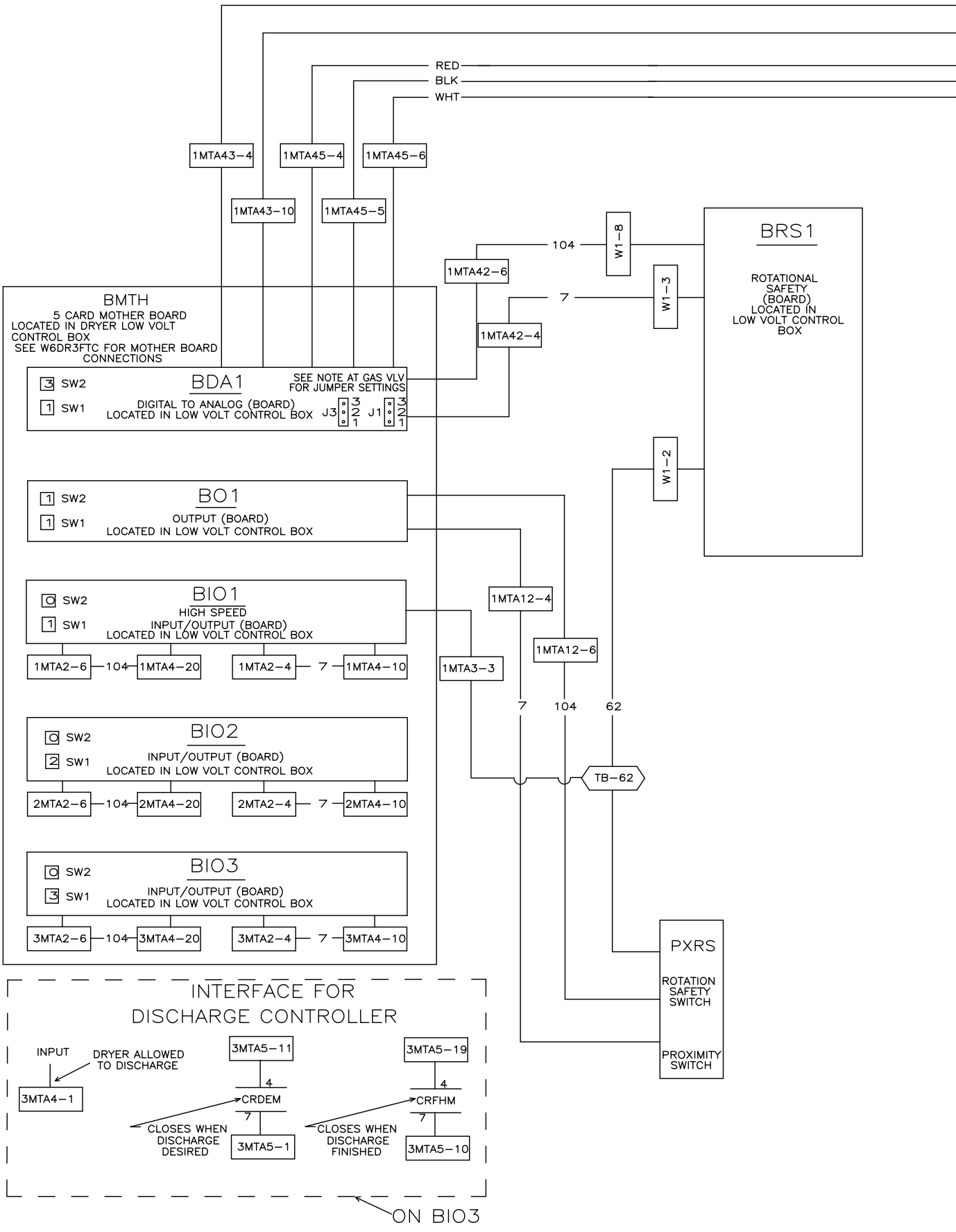
W6DR3FGM
GAS–DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: BOARD TO BOARD WIRING
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

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

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
2024282B

W6DR3FGMA

GAS–DRYER

MICRO 6 SYSTEMS MARK V

SCHEMATIC: BOARD TO BOARD WIRING

MODIFIED FOR LANDIS & GYR FIRE CONTROLLER

110V1P50HZ/120V1P60HZ

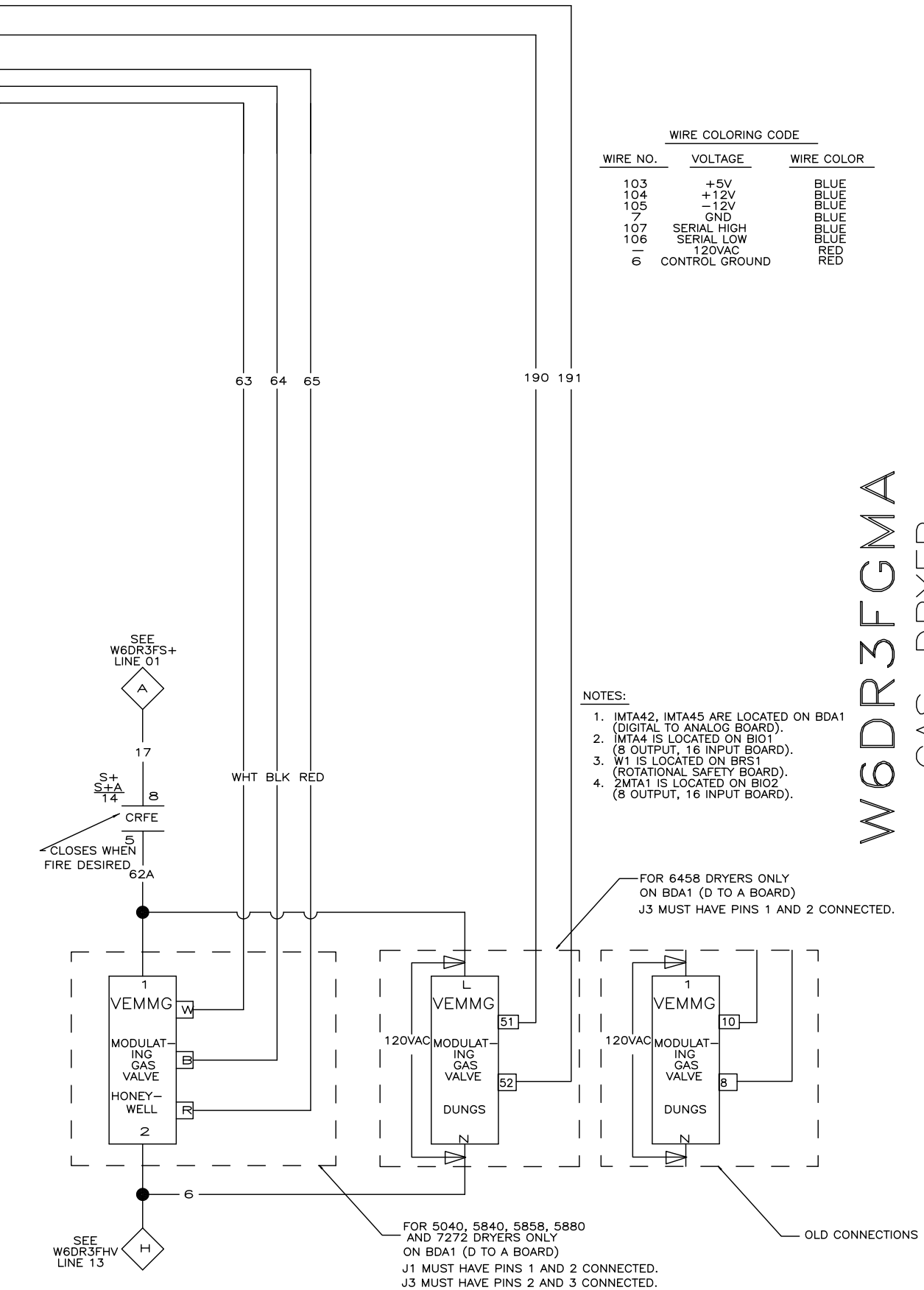
PELLERIN MILNOR CORPORATION

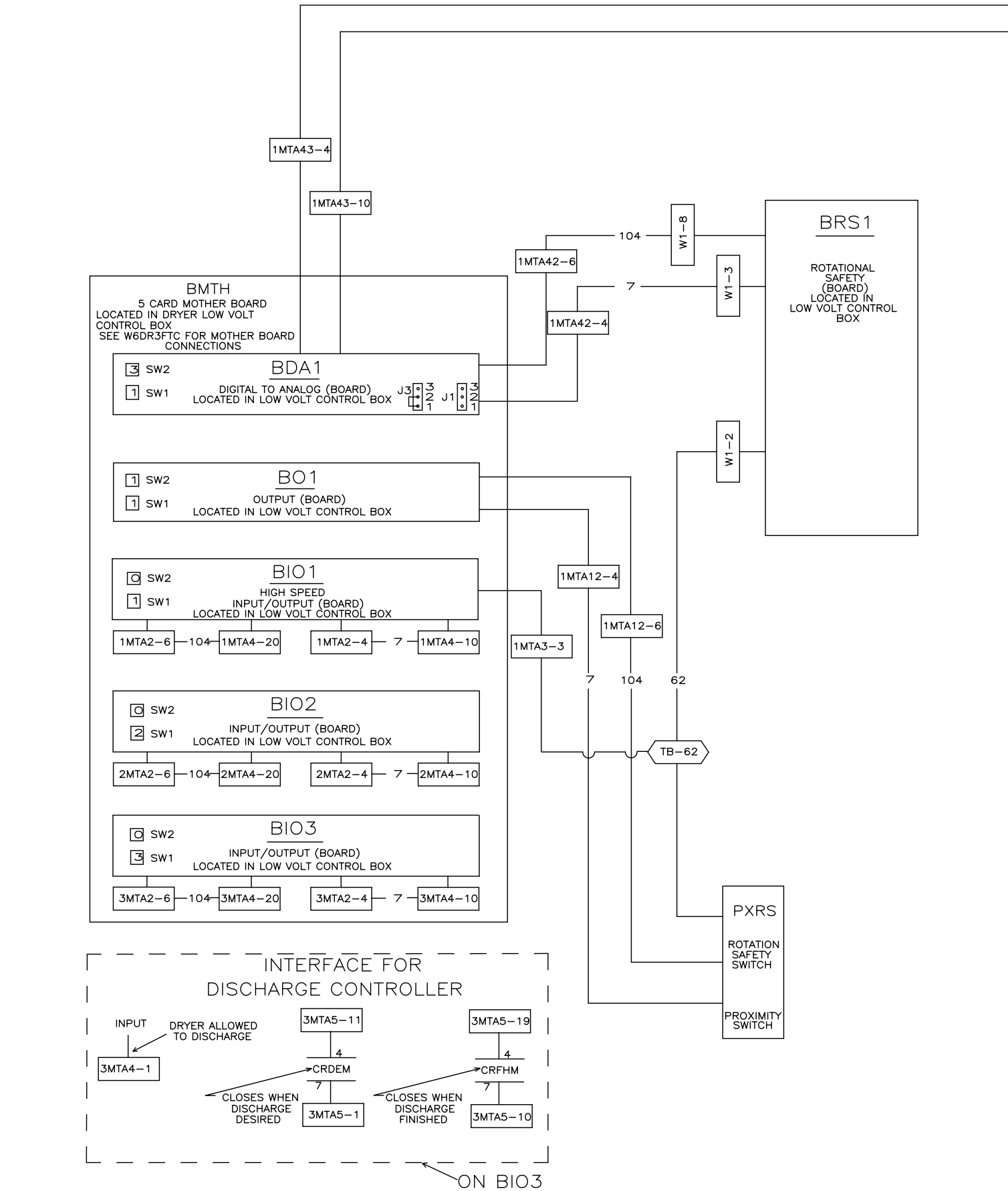
WIRE COLORING CODE

WIRE NO.	VOLTAGE	WIRE COLOR
103	+5V	BLUE
104	+12V	BLUE
105	−12V	BLUE
7	GND	BLUE
107	SERIAL HIGH	BLUE
106	SERIAL LOW	BLUE
—	120VAC	RED
6	CONTROL GROUND	RED

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).



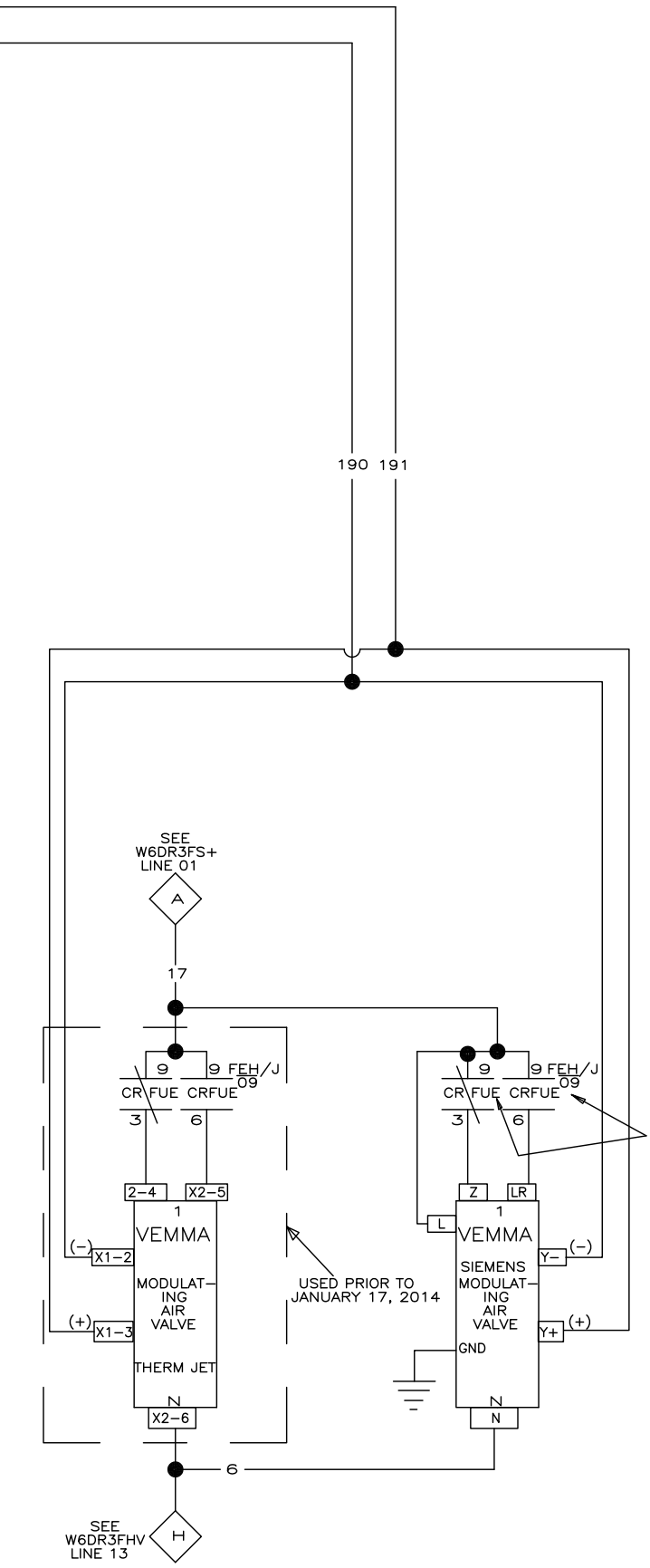


W6DR3FGME
2024282B

W6DR3FGME
GAS–DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: BOARD WIRING W/THERM JET
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

WIRE COLORING CODE

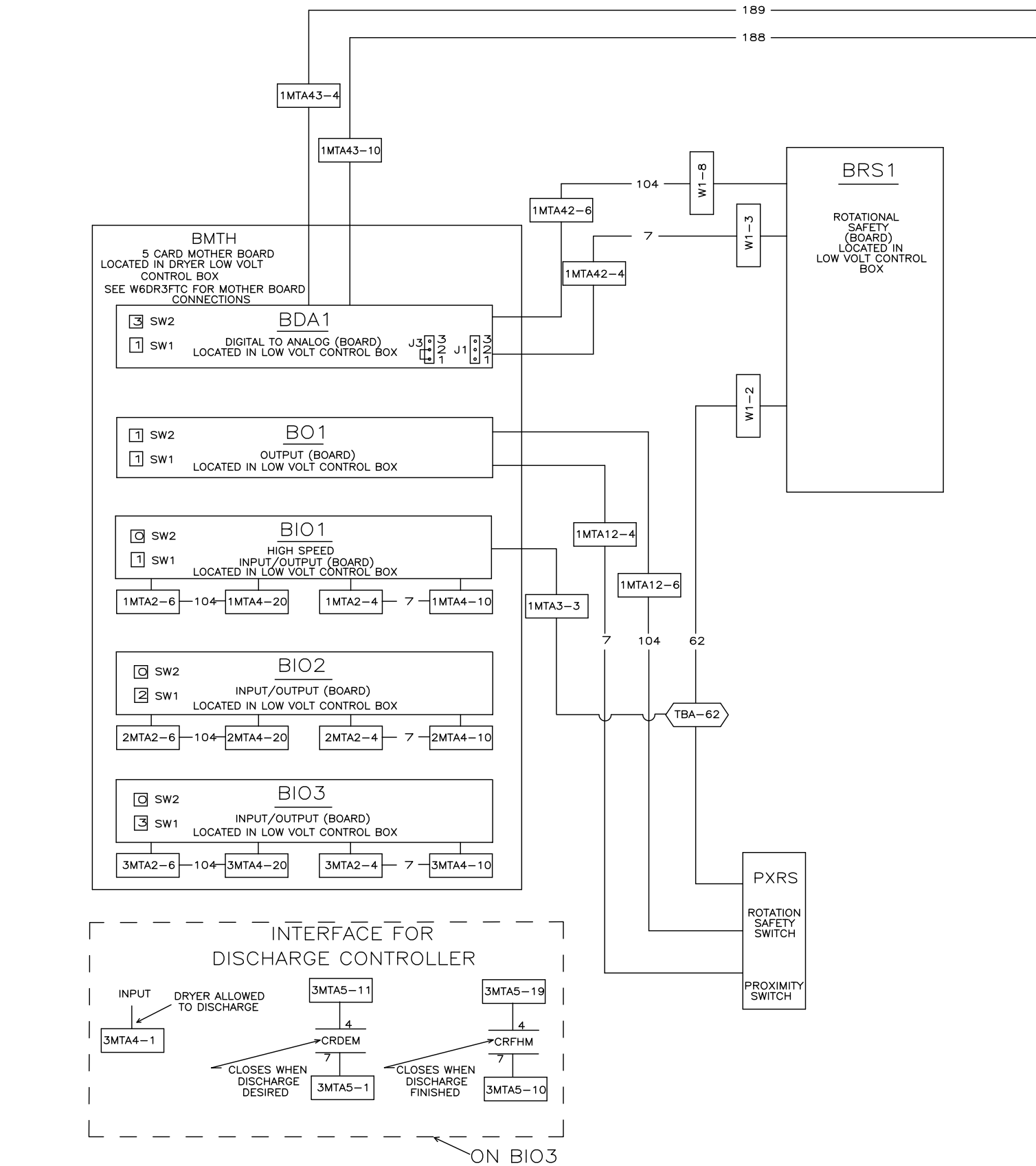
WIRE NO.	VOLTAGE	WIRE COLOR
103	+5V	BLUE
104	+12V	BLUE
105	−12V	BLUE
7	GND	BLUE
107	SERIAL HIGH	BLUE
106	SERIAL LOW	BLUE
—	120VAC	RED
6	CONTROL GROUND	RED



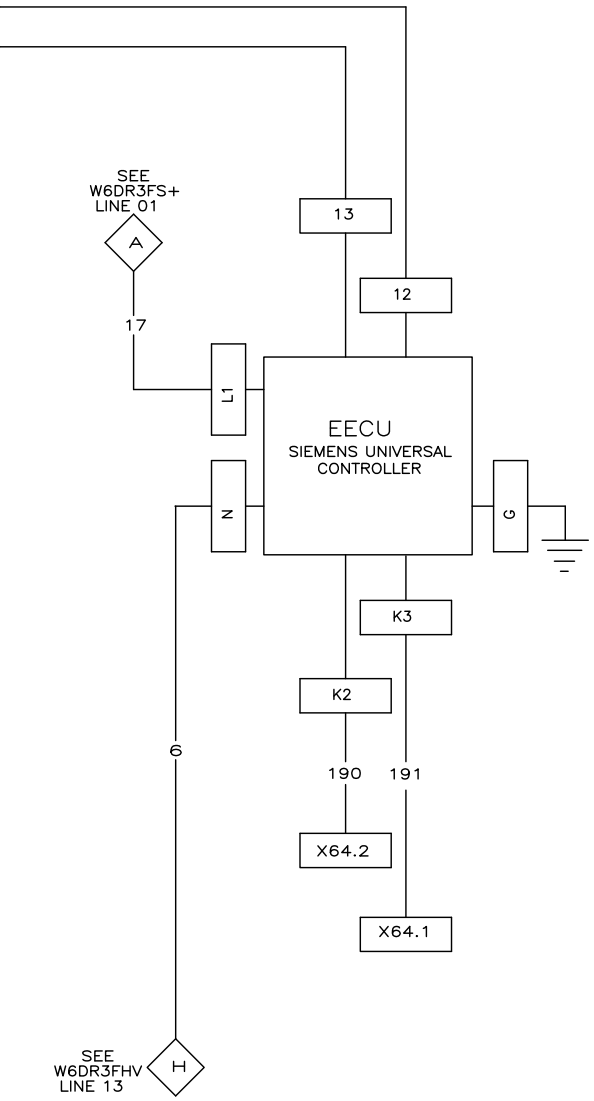
NOTES:

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).

11 12 13 14 15 16 17 18 19



W6DR3FGML
2024282B



WIRE COLORING CODE

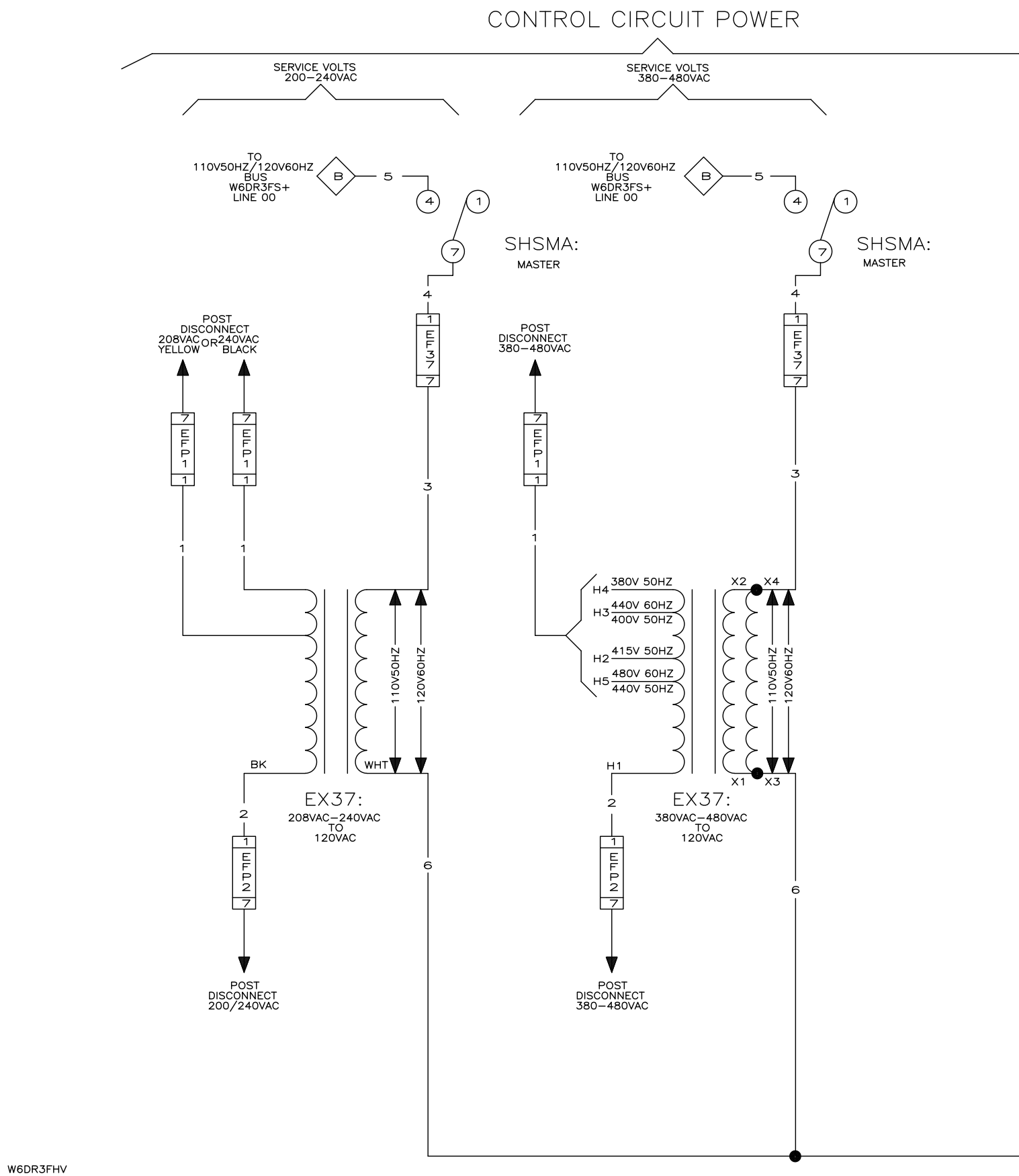
WIRE NO.	VOLTAGE	WIRE COLOR
103	+5V	BLUE
104	+12V	BLUE
105	−12V	BLUE
7	GND	BLUE
107	SERIAL HIGH	BLUE
106	SERIAL LOW	BLUE
—	120VAC	RED
6	CONTROL GROUND	RED

W6DR3FGML
GAS—DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: BOARD WIRING W/THERM JET
LOW—NOX BURNER
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

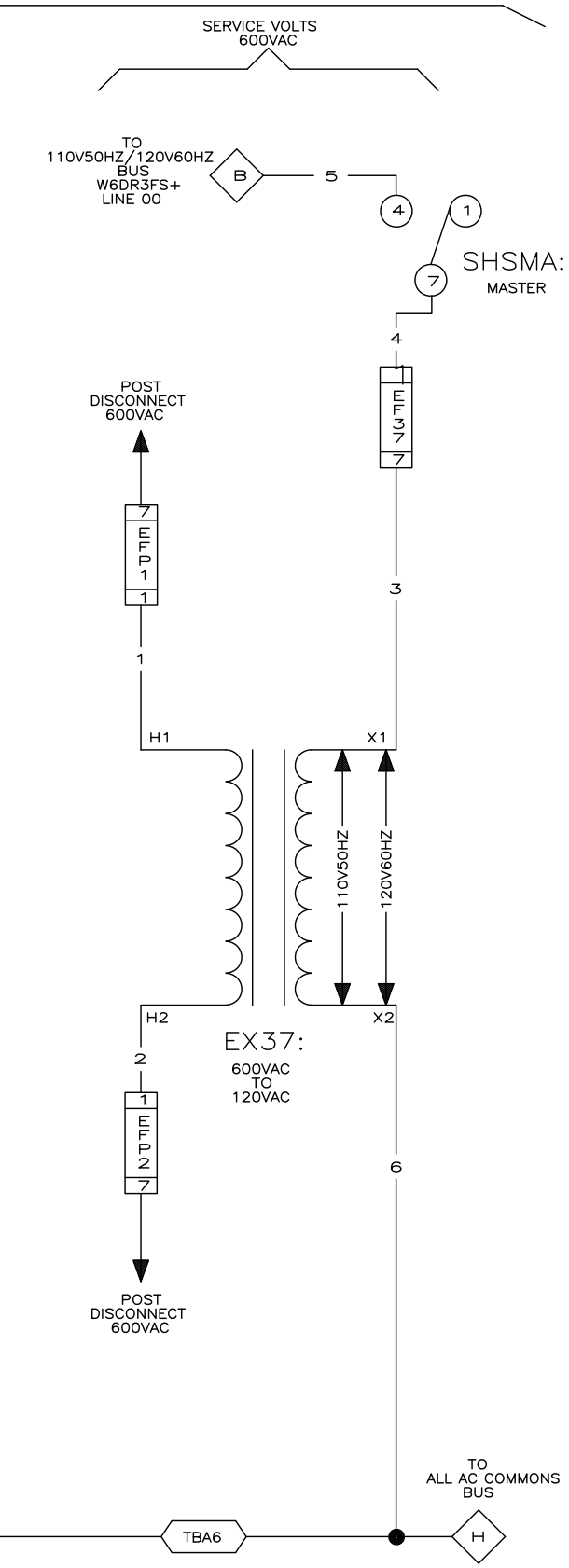
NOTES:

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).
5. X64 IS LOCATED ON EECU (FIRE UNIT).

11 12 13 14 15 16 17 18 19

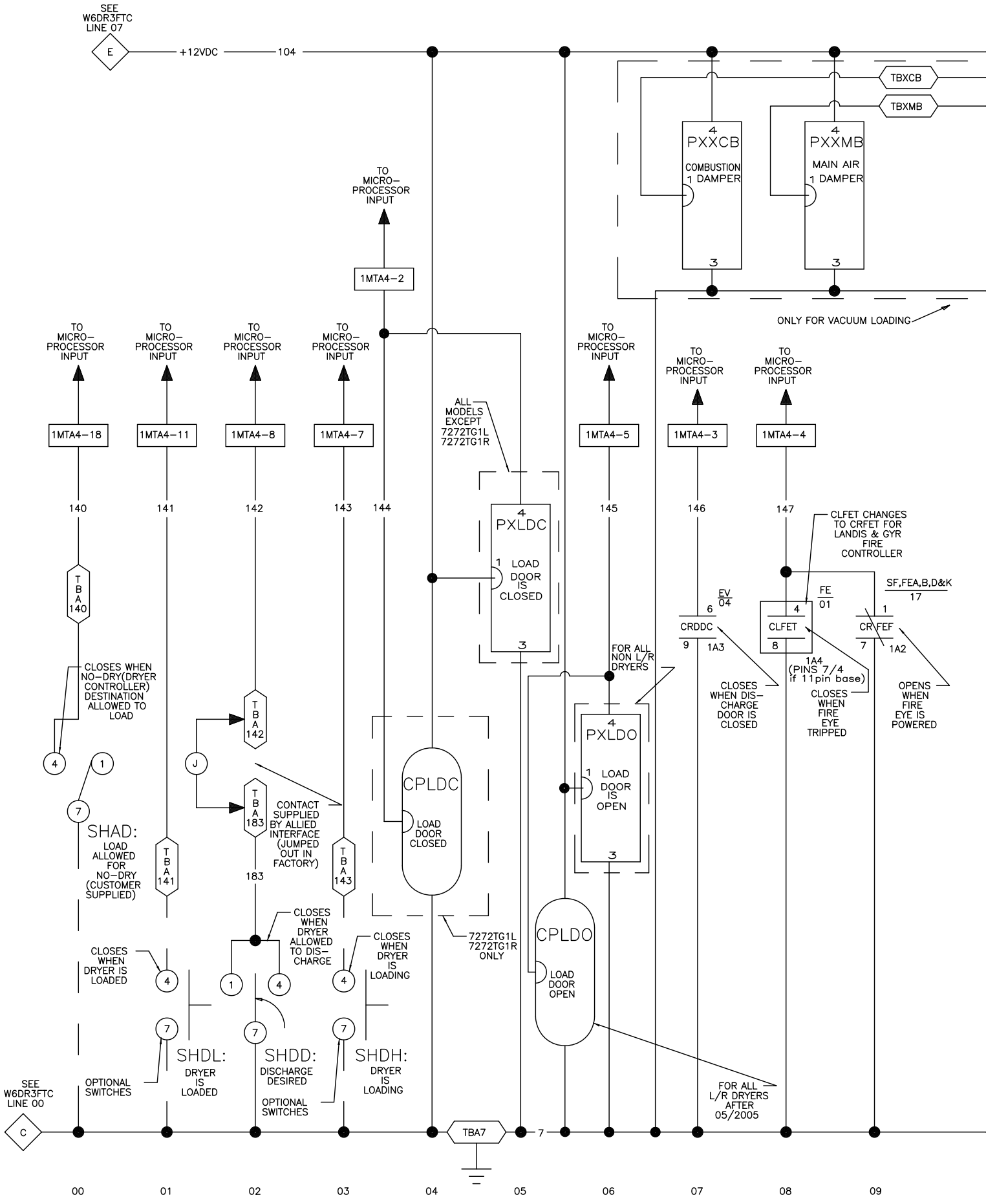


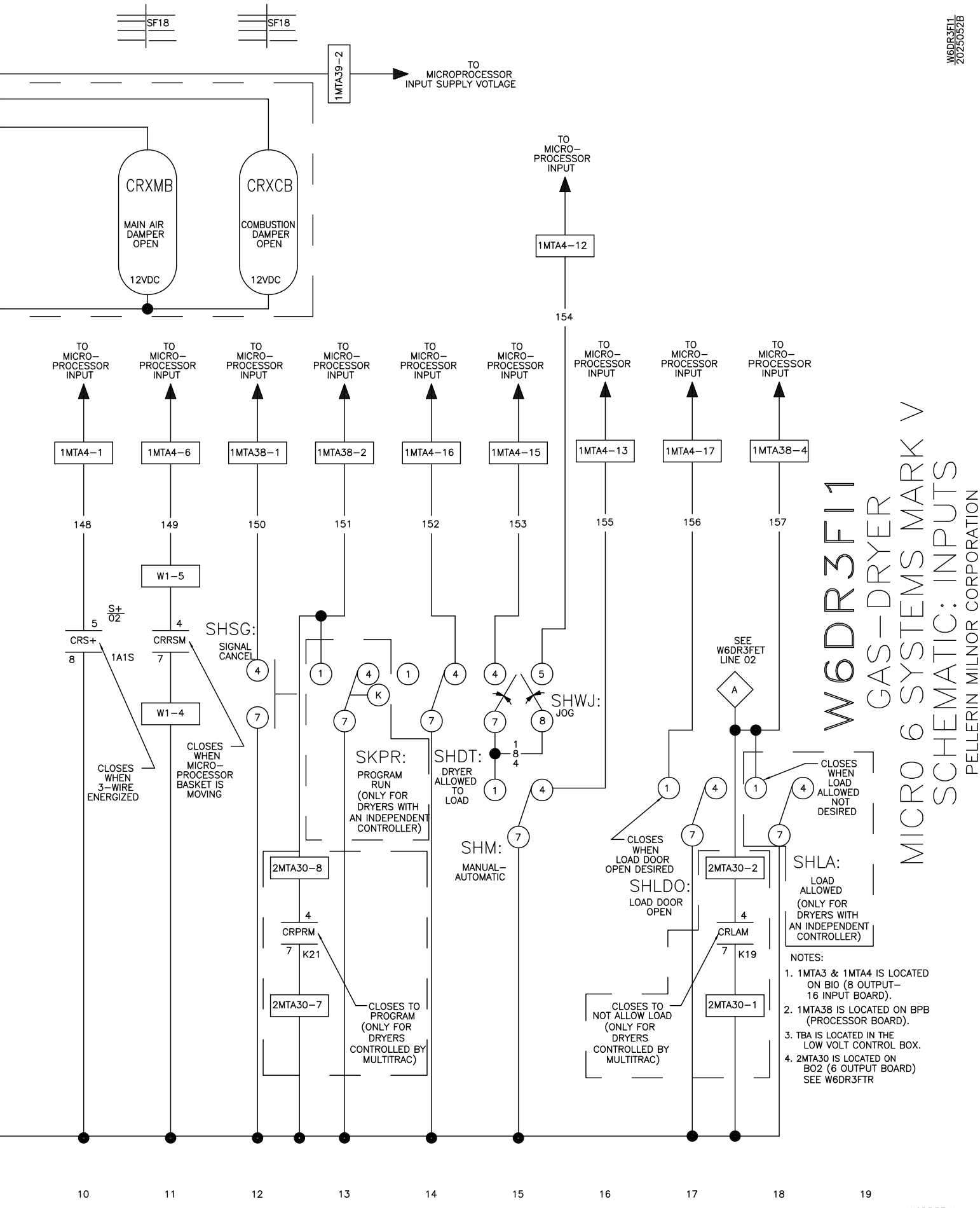
W6DR3FHV
2024282B



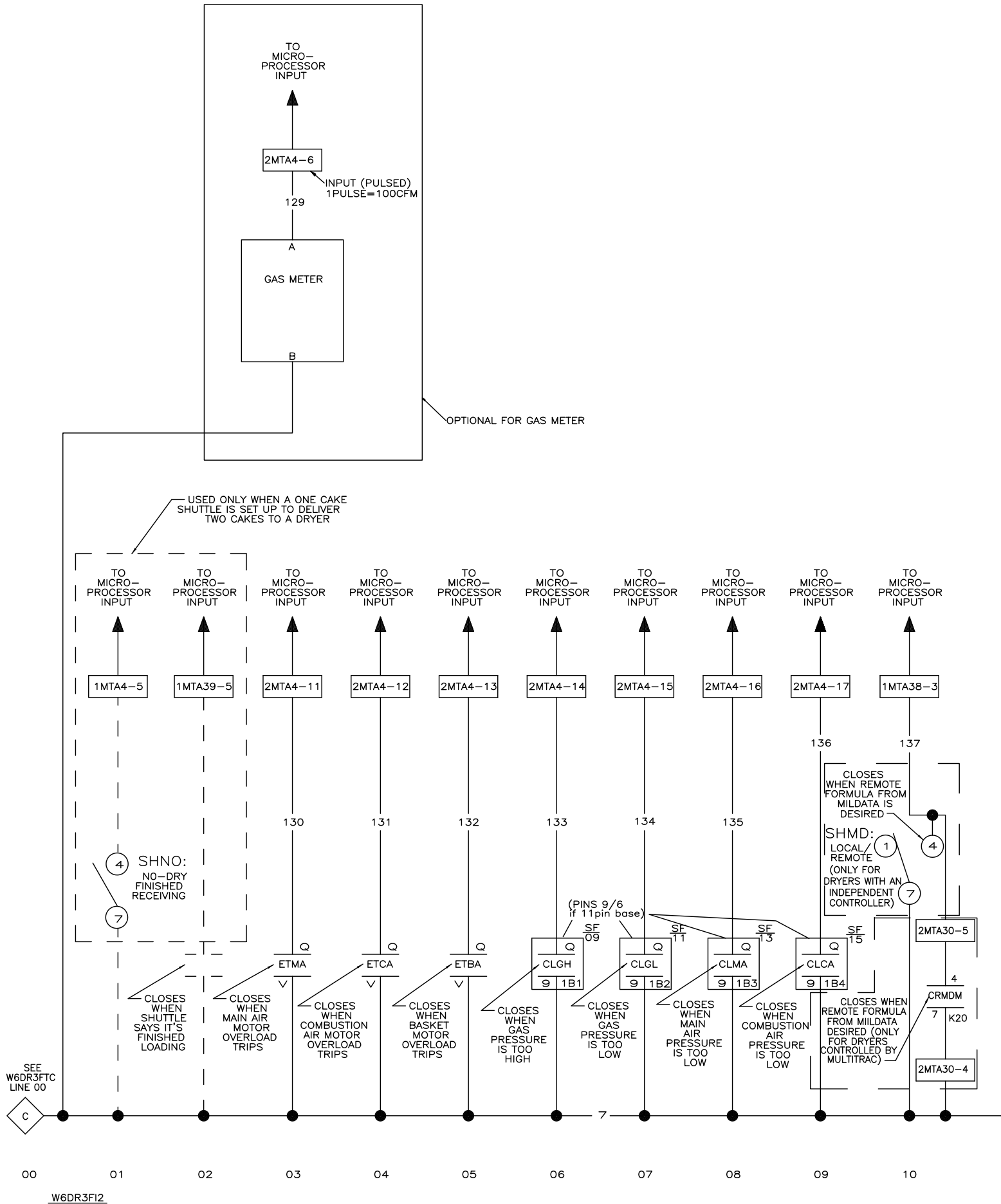
W6DR3FHV
GAS–DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: 110V50HZ/120V60HZ
CONTROL CIRCUIT POWER
PELLERIN MILNOR CORPORATION

11 12 13 14 15 16 17 18 19

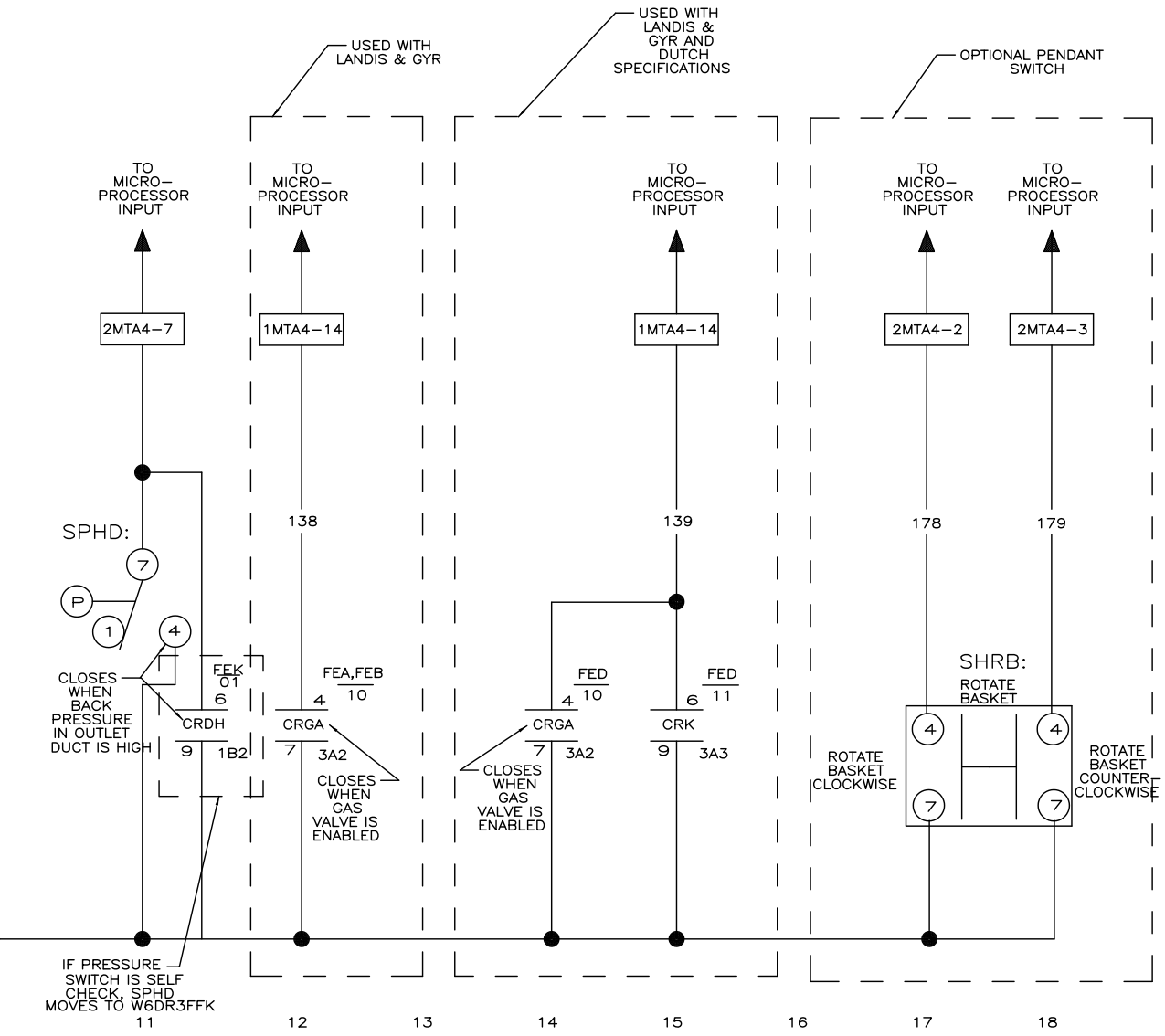

SEE W6DR3FTC LINE 07
E
+12VDC
104
TBXCB
TBXMB
4 PXXCB COMBUSTION 1 DAMPER 3
4 PXXMB MAIN AIR 1 DAMPER 3
ONLY FOR VACUUM LOADING
TO MICRO-PROCESSOR INPUT
1MTA4-2
1MTA4-18
1MTA4-11
1MTA4-8
1MTA4-7
1MTA4-5
1MTA4-3
1MTA4-4
ALL MODELS EXCEPT 7272TG1L 7272TG1R
4 PXLDC 1 LOAD DOOR IS CLOSED 3
4 PXLDO 1 LOAD DOOR IS OPEN 3
CPLDC LOAD DOOR CLOSED
CPLDO LOAD DOOR OPEN
7272TG1L 7272TG1R ONLY
FOR ALL NON L/R DRYERS
FOR ALL L/R DRYERS AFTER 05/2005
CLFET CHANGES TO CRFET FOR LANDIS & GYR FIRE CONTROLLER
SF,FEA,B,D&K 17
EV 04
FE 01
6 CRDDC 9 1A3
4 CLFET 8 1A4 (PINS 7/4 if 11pin base)
1 CRFEF 7 1A2
CLOSES WHEN DIS-CHARGE DOOR IS CLOSED
CLOSES WHEN FIRE EYE TRIPPED
OPENS WHEN FIRE EYE IS POWERED
TBA 140
TBA 141
TBA 142
TBA 143
TBA 183
CLOSES WHEN NO-DRY(DRYER CONTROLLER) DESTINATION ALLOWED TO LOAD
SHAD: LOAD ALLOWED FOR NO-DRY (CUSTOMER SUPPLIED)
CONTACT SUPPLIED BY ALLIED INTERFACE (JUMPED OUT IN FACTORY)
CLOSES WHEN DRYER IS LOADED
CLOSES WHEN DRYER ALLOWED TO DIS-CHARGE
CLOSES WHEN DRYER IS LOADING
SHDL: DRYER IS LOADED
SHDD: DISCHARGE DESIRED
SHDH: DRYER IS LOADING
OPTIONAL SWITCHES
OPTIONAL SWITCHES
SEE W6DR3FTC LINE 00
C
TBA7
140
141
142
143
144
145
146
147
183
00
01
02
03
04
05
06
07
08
09
W6DR3FI1
2025052B



W6DR3FI1
GAS–DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: INPUTS
PELLERIN MILNOR CORPORATION

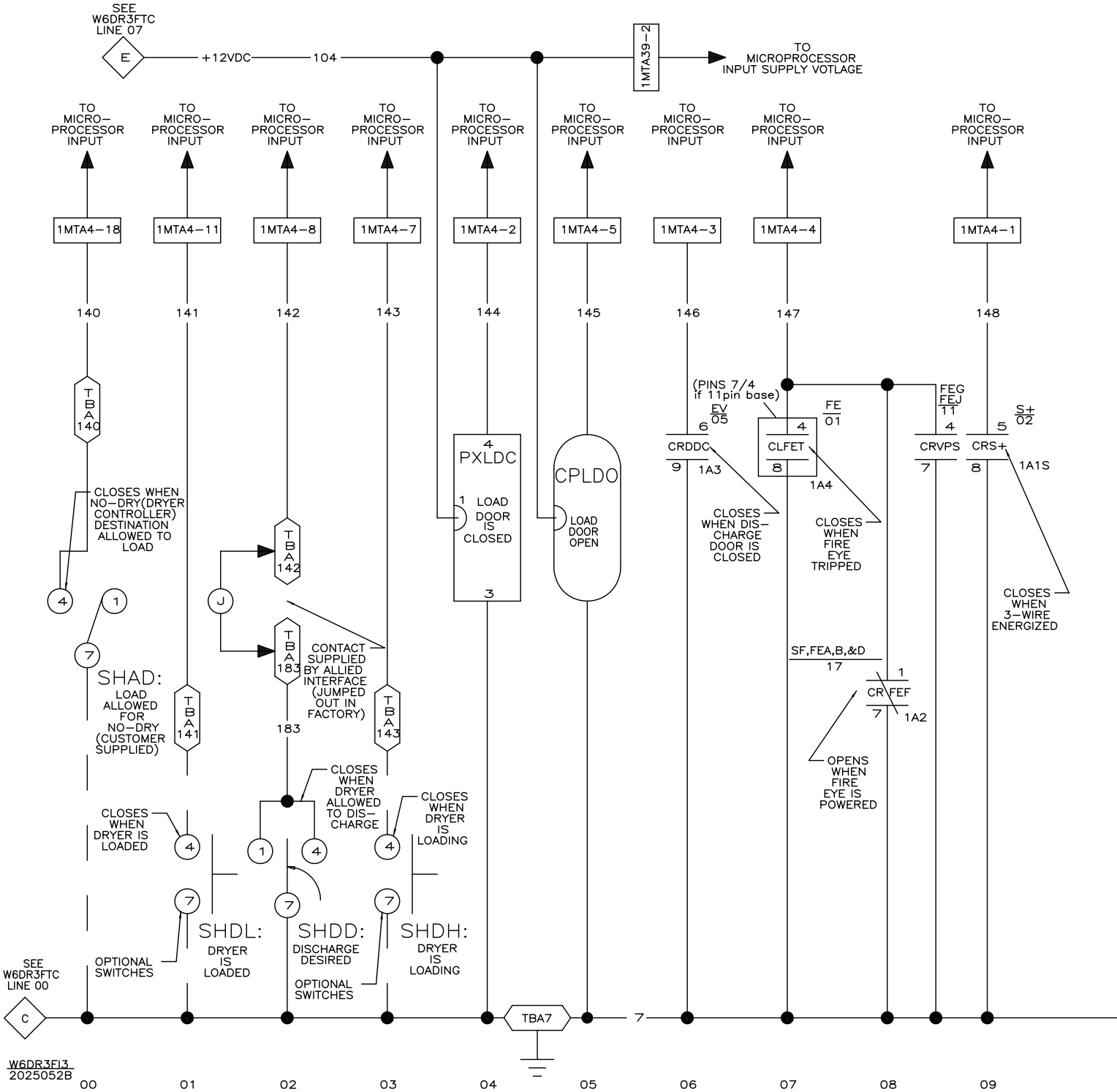

TO MICRO– PROCESSOR INPUT
2MTA4–6
INPUT (PULSED) 1PULSE=100CFM
129
A
GAS METER
B
OPTIONAL FOR GAS METER
USED ONLY WHEN A ONE CAKE SHUTTLE IS SET UP TO DELIVER TWO CAKES TO A DRYER
1MTA4–5
1MTA39–5
2MTA4–11
2MTA4–12
2MTA4–13
2MTA4–14
2MTA4–15
2MTA4–16
2MTA4–17
1MTA38–3
130
131
132
133
134
135
136
137
SHNO: NO–DRY FINISHED RECEIVING
CLOSES WHEN SHUTTLE SAYS IT'S FINISHED LOADING
CLOSES WHEN MAIN AIR MOTOR OVERLOAD TRIPS
CLOSES WHEN COMBUSTION AIR MOTOR OVERLOAD TRIPS
CLOSES WHEN BASKET MOTOR OVERLOAD TRIPS
CLOSES WHEN GAS PRESSURE IS TOO HIGH
CLOSES WHEN GAS PRESSURE IS TOO LOW
CLOSES WHEN MAIN AIR PRESSURE IS TOO LOW
CLOSES WHEN COMBUSTION AIR PRESSURE IS TOO LOW
CLOSES WHEN REMOTE FORMULA FROM MILDATA IS DESIRED
SHMD: LOCAL/ REMOTE (ONLY FOR DRYERS WITH AN INDEPENDENT CONTROLLER)
CLOSES WHEN REMOTE FORMULA FROM MIILDATA DESIRED (ONLY FOR DRYERS CONTROLLED BY MULTITRAC)
(PINS 9/6 if 11pin base)
ETMA
ETCA
ETBA
CLGH
CLGL
CLMA
CLCA
SF 09
SF 11
SF 13
SF 15
2MTA30–5
2MTA30–4
CRMDM
K20
SEE W6DR3FTC LINE 00
C
00
01
02
03
04
05
06
07
08
09
10
W6DR3FI2
2025094B

W6DR3FI2
GAS–DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: INPUTS
PELLERIN MILNOR CORPORATION



NOTES:

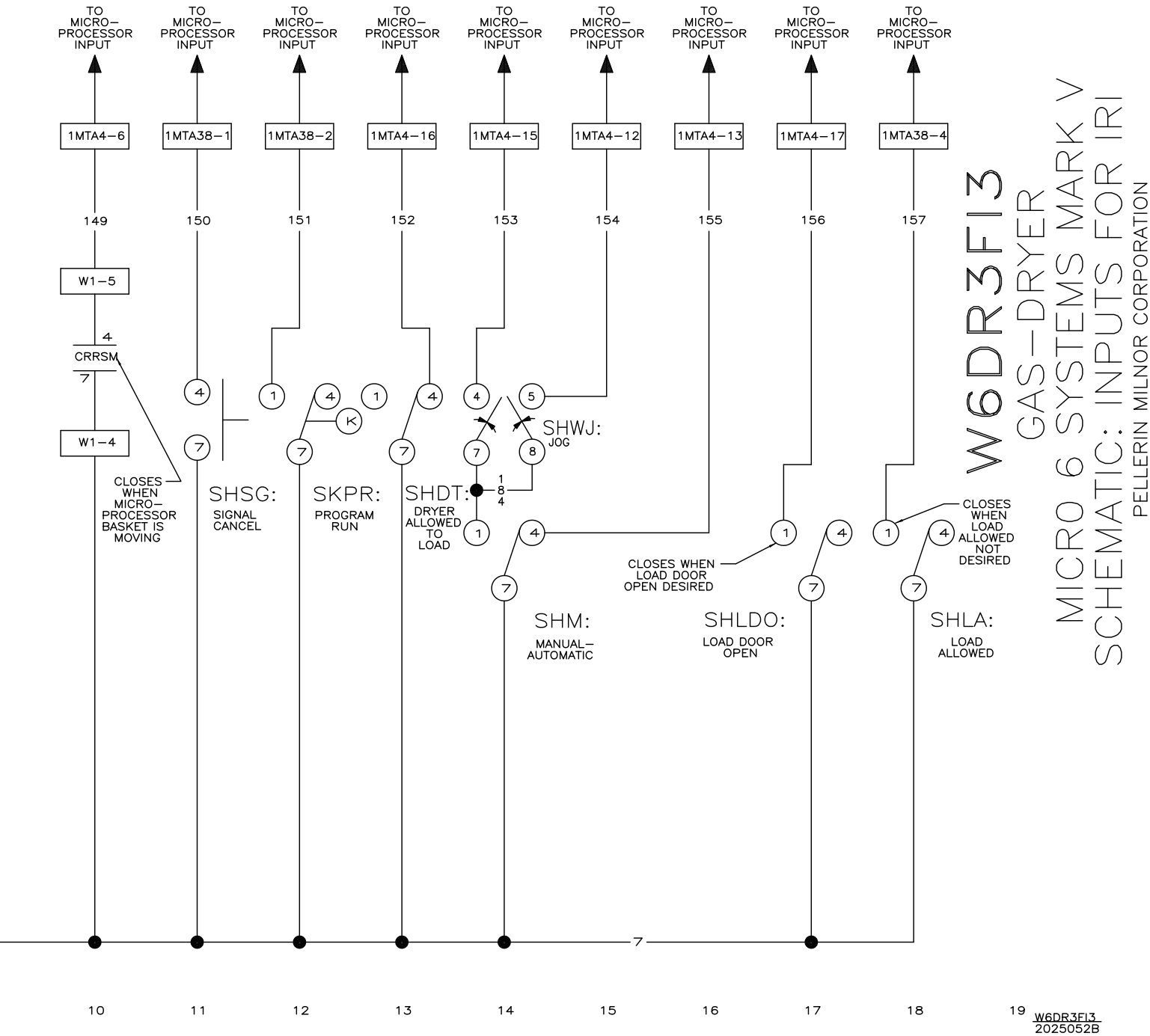
1. 1MTA4 IS LOCATED ON BI0–1 (8 OUTPUT–16 INPUT BOARD).
2. 1MTA38 IS LOCATED ON BPB (PROCESSOR BOARD).
3. 2MTA4 IS LOCATED ON BI0–2 (8 OUTPUT–16 INPUT BOARD).
4. 2MTA30 IS LOCATED ON BO2 (6 OUTPUT BOARD) SEE W6DR3FTR


SEE W6DR3FTC LINE 07
E
+12VDC
104
1MTA39–2
TO MICROPROCESSOR INPUT SUPPLY VOTLAGE
TO MICRO–PROCESSOR INPUT
1MTA4–18
1MTA4–11
1MTA4–8
1MTA4–7
1MTA4–2
1MTA4–5
1MTA4–3
1MTA4–4
1MTA4–1
140
141
142
143
144
145
146
147
148
TBA 140
TBA 141
TBA 142
TBA 143
TBA 183
CLOSES WHEN NO–DRY(DRYER CONTROLLER) DESTINATION ALLOWED TO LOAD
SHAD:
LOAD ALLOWED FOR NO–DRY (CUSTOMER SUPPLIED)
CONTACT SUPPLIED BY ALLIED INTERFACE (JUMPED OUT IN FACTORY)
183
PXLDC
LOAD DOOR IS CLOSED
CPLDO
LOAD DOOR OPEN
(PINS 7/4 if 11pin base)
EV 05
CRDDC
1A3
CLOSES WHEN DIS–CHARGE DOOR IS CLOSED
FE 01
CLFET
1A4
CLOSES WHEN FIRE EYE TRIPPED
FEG FEJ 11
CRVPS
S+ 02
CRS+
1A1S
CLOSES WHEN 3–WIRE ENERGIZED
SF,FEA,B,&D 17
CR FEF
1A2
OPENS WHEN FIRE EYE IS POWERED
CLOSES WHEN DRYER IS LOADED
CLOSES WHEN DRYER ALLOWED TO DIS–CHARGE
CLOSES WHEN DRYER IS LOADING
SHDL:
DRYER IS LOADED
SHDD:
DISCHARGE DESIRED
SHDH:
DRYER IS LOADING
OPTIONAL SWITCHES
OPTIONAL SWITCHES
SEE W6DR3FTC LINE 00
C
TBA7
7
W6DR3FI3
2025052B
00
01
02
03
04
05
06
07
08
09

NOTES:

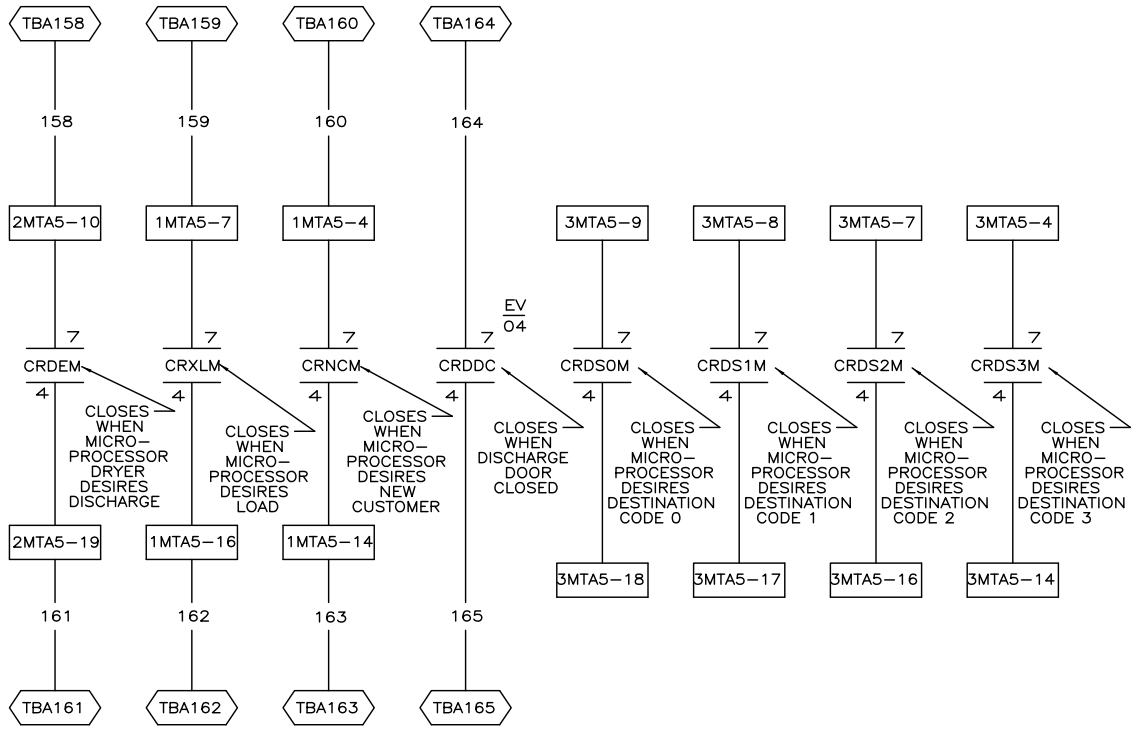
1. 1MTA3 & 1MTA4 IS LOCATED ON BI0 (8 OUTPUT–16 INPUT BOARD).
2. 1MTA38 IS LOCATED ON BPB (PROCESSOR BOARD).
3. TBA IS LOCATED IN THE LOW VOLT CONTROL BOX.

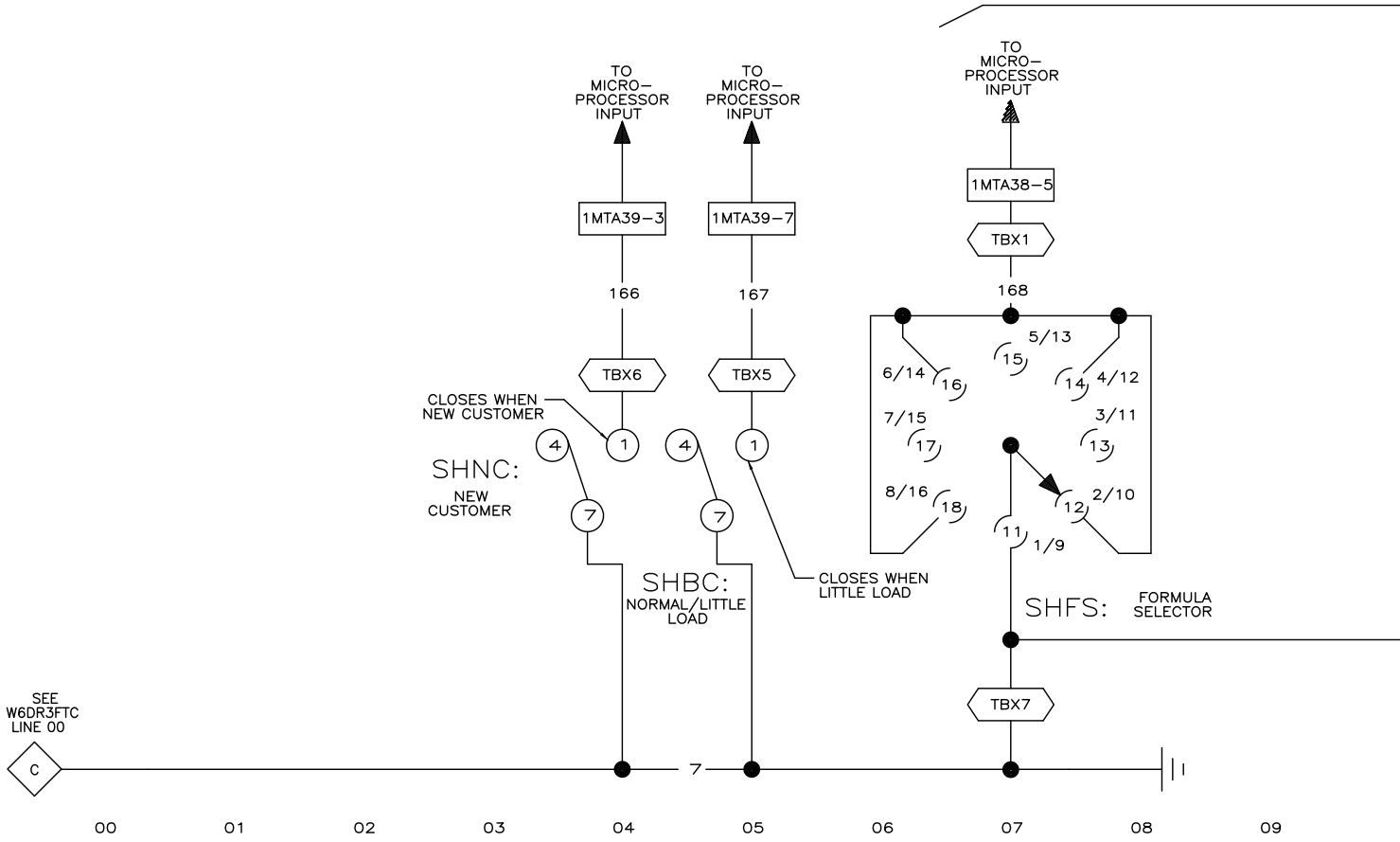
W6DR3FI3
20250052B



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

W6DR3FI3
20250052B





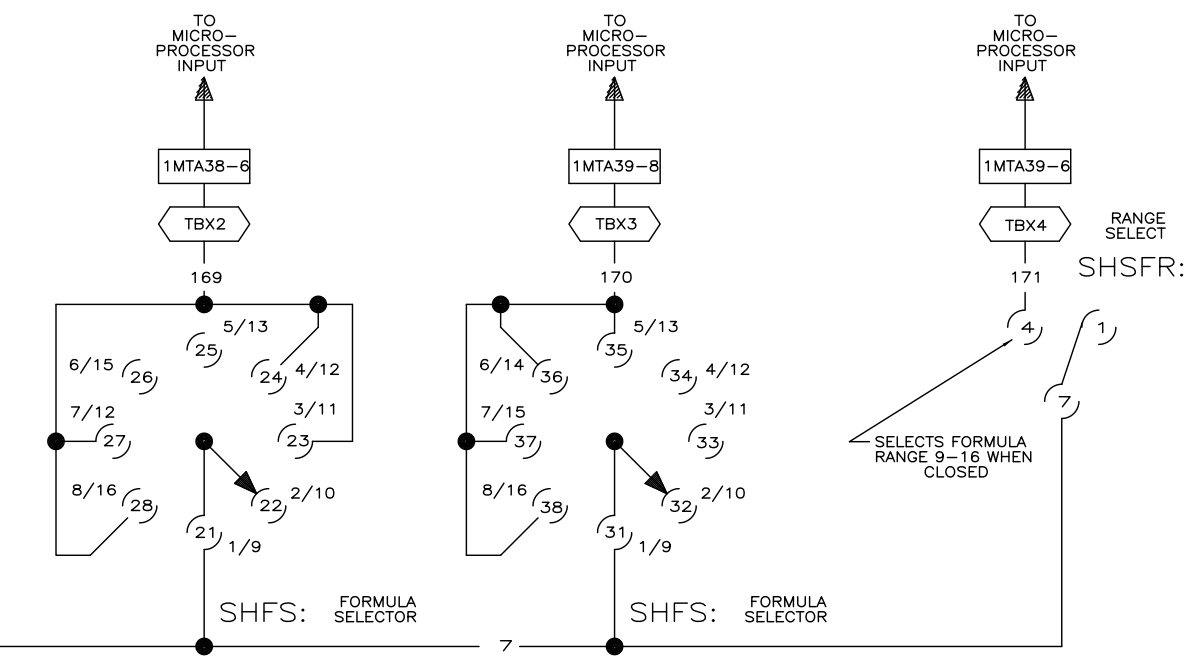
W6DR3FIA
2024284B

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

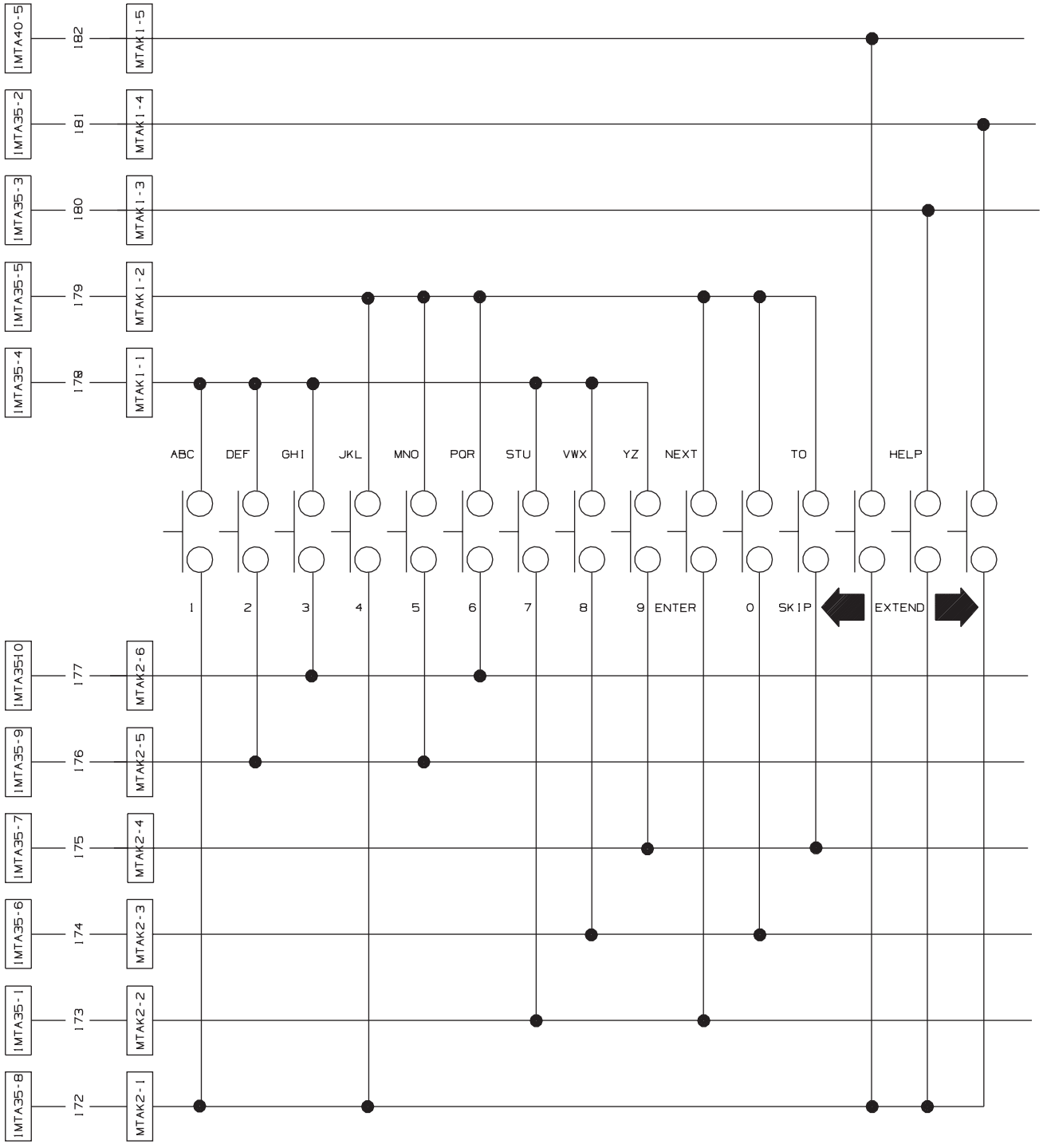
NOTES

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

REMOTE FORMULA SELECTOR STATION OPTION



10 11 12 13 14 15 16 17



LITHO IN U.S.A.

00 01 02 03 04 05 06 07 08 09 1

W6DR3FKP
97042B

W6DR3FKP

MICRO 6 SYSTEMS MARK V

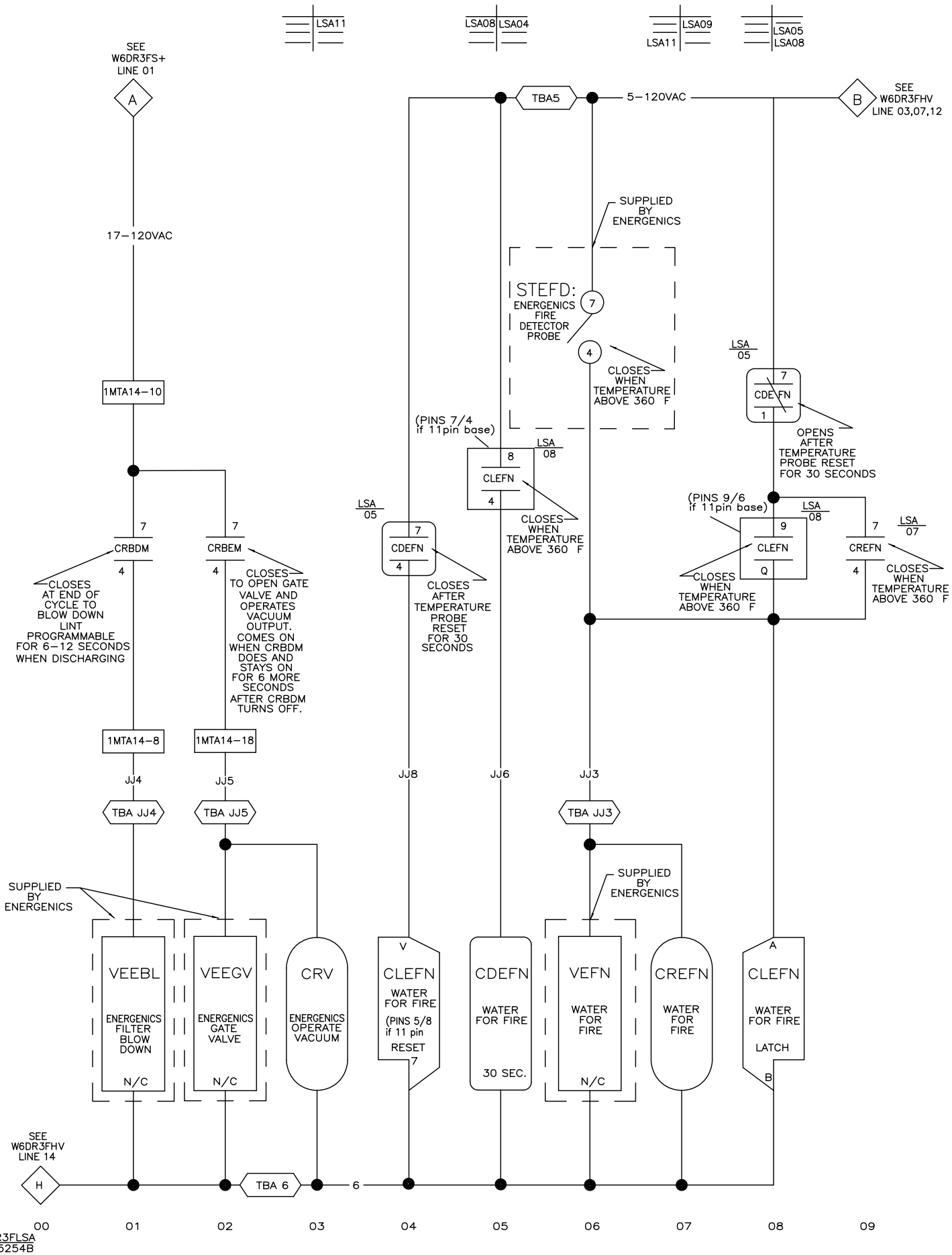
SCHEMATIC: KEYPAD (SERIAL CONTROLS)

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

NOTES:

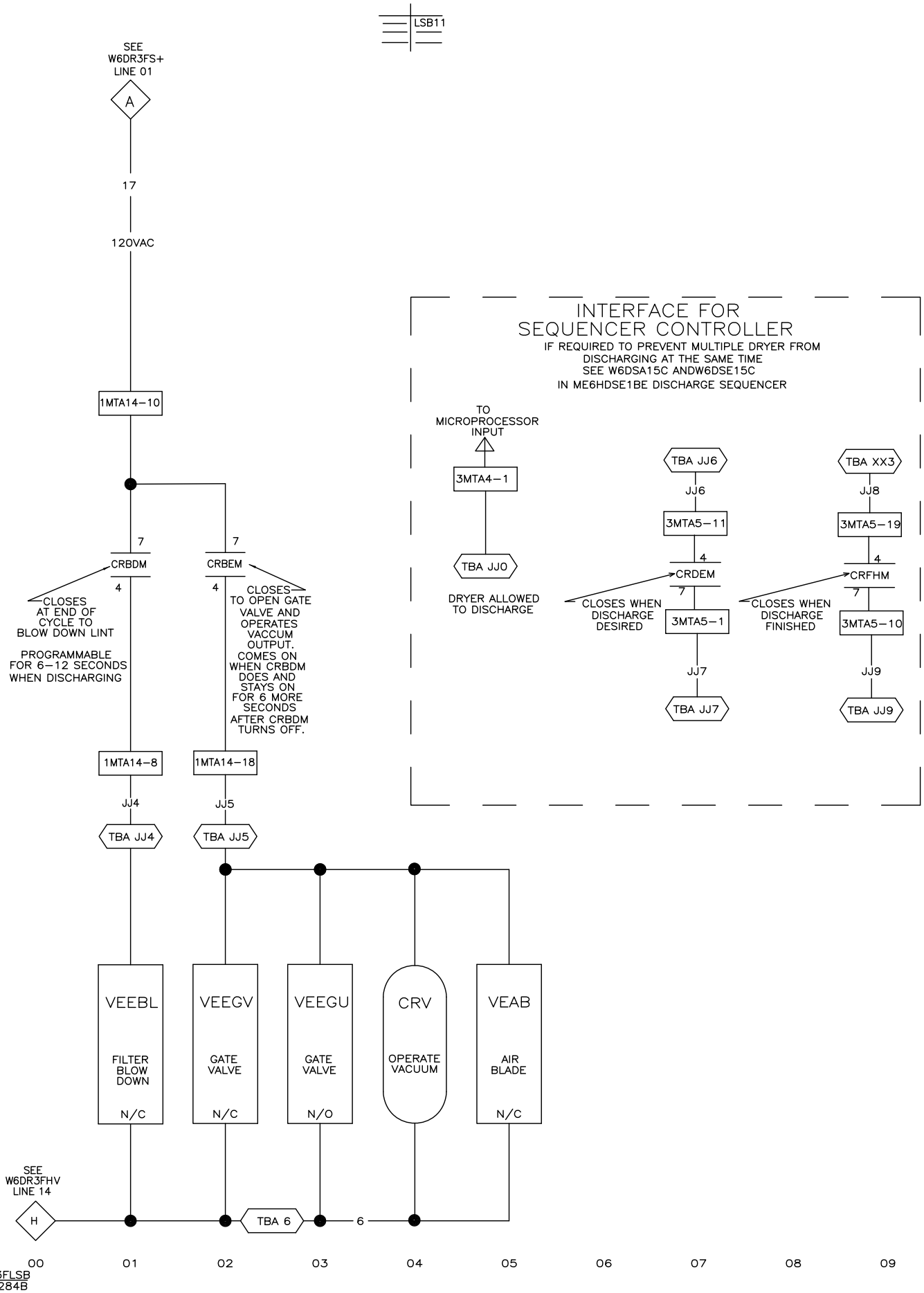
1. MTAK1 & MTAK2 ARE LOCATED ON KEYPAD.
2. IMTA35 & IMTA40 ARE LOCATED ON BPB (PROCESSOR BOARD).



W6DR3FLSA
2025254B

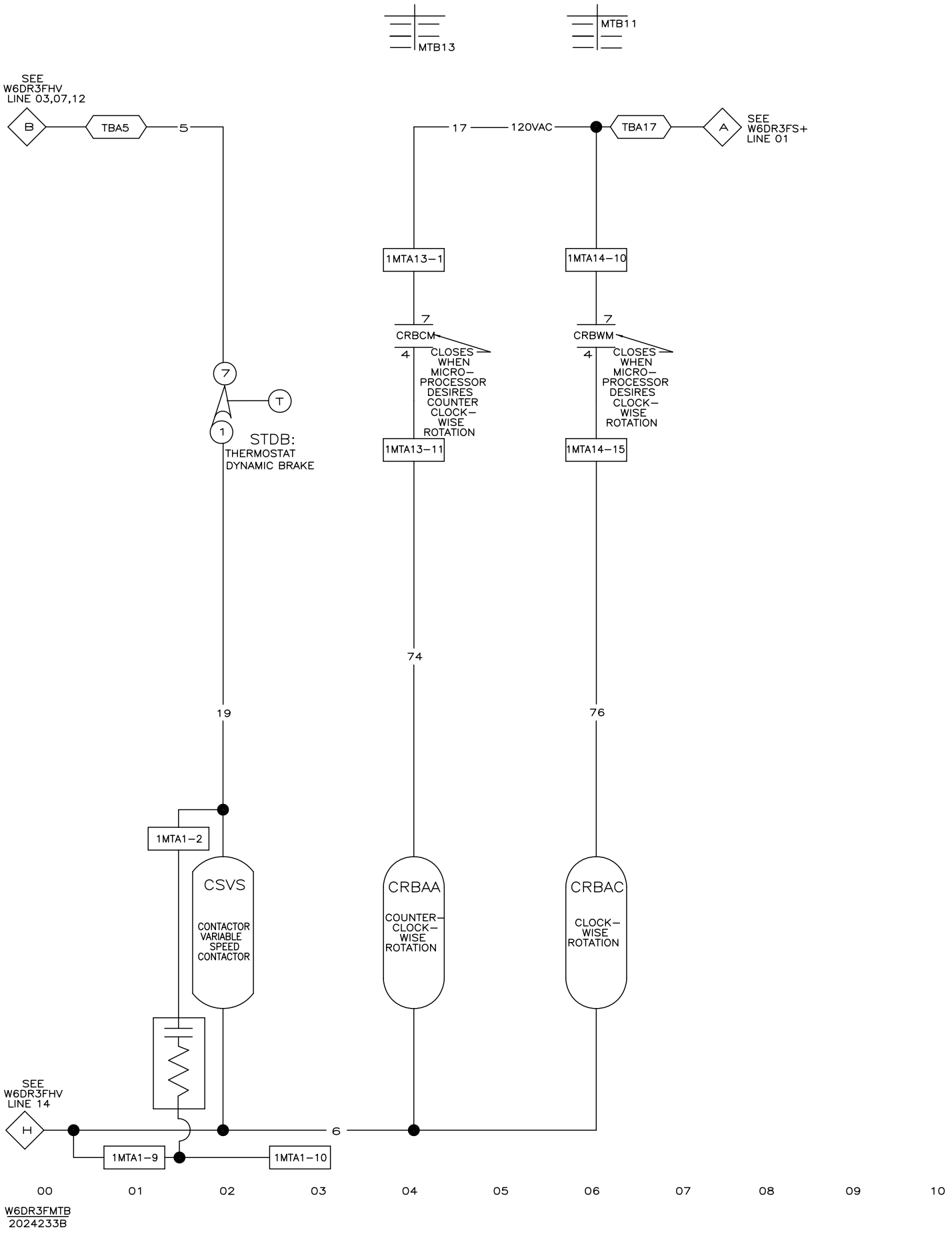
W6DR3FLSA
MICRO 6 SYSTEMS MARK V
SCHEMATIC: ENERGENICS LINT FILTER
CLOSE COUPLED
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

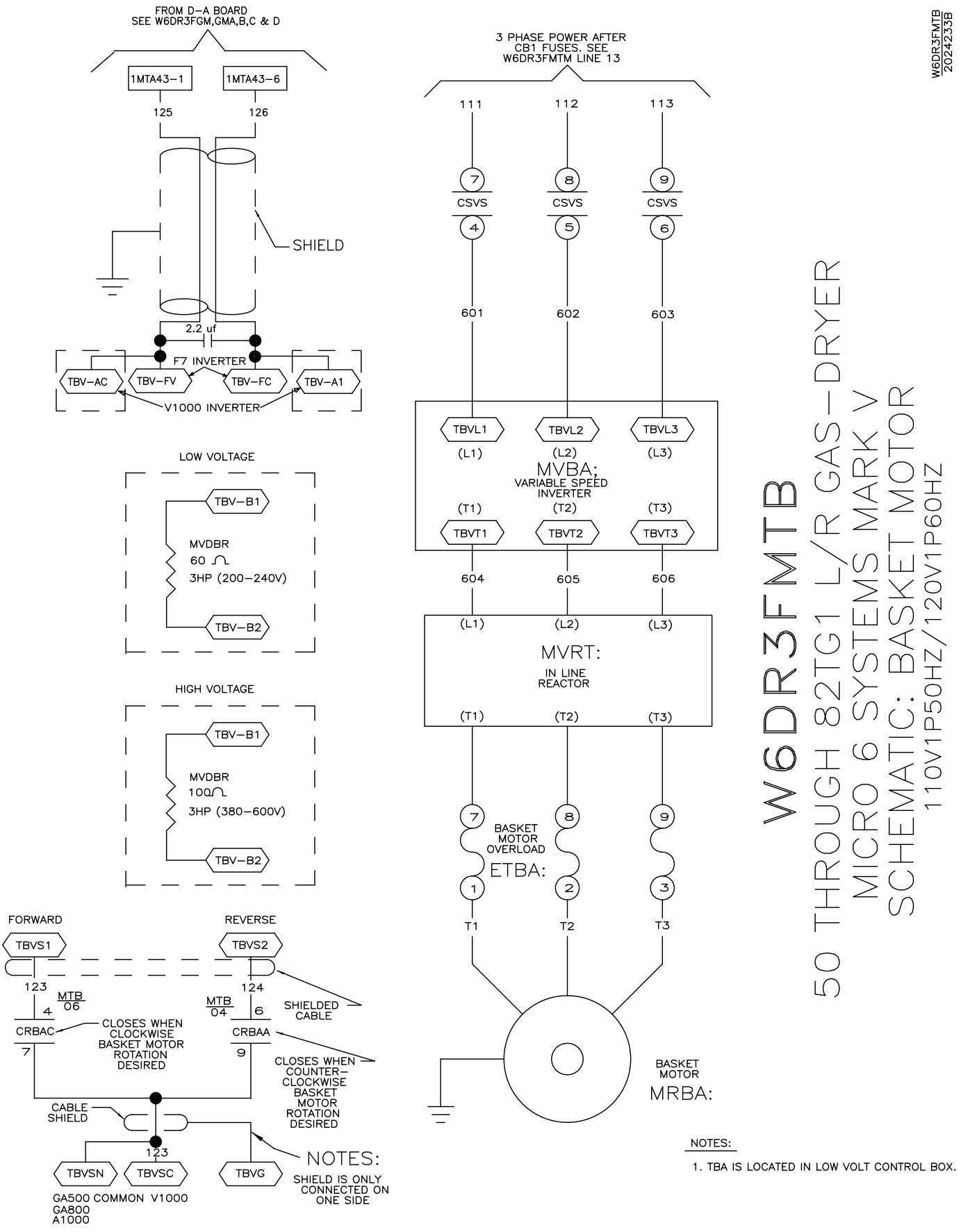
10 11 12 13 14 15 16 17 18 19

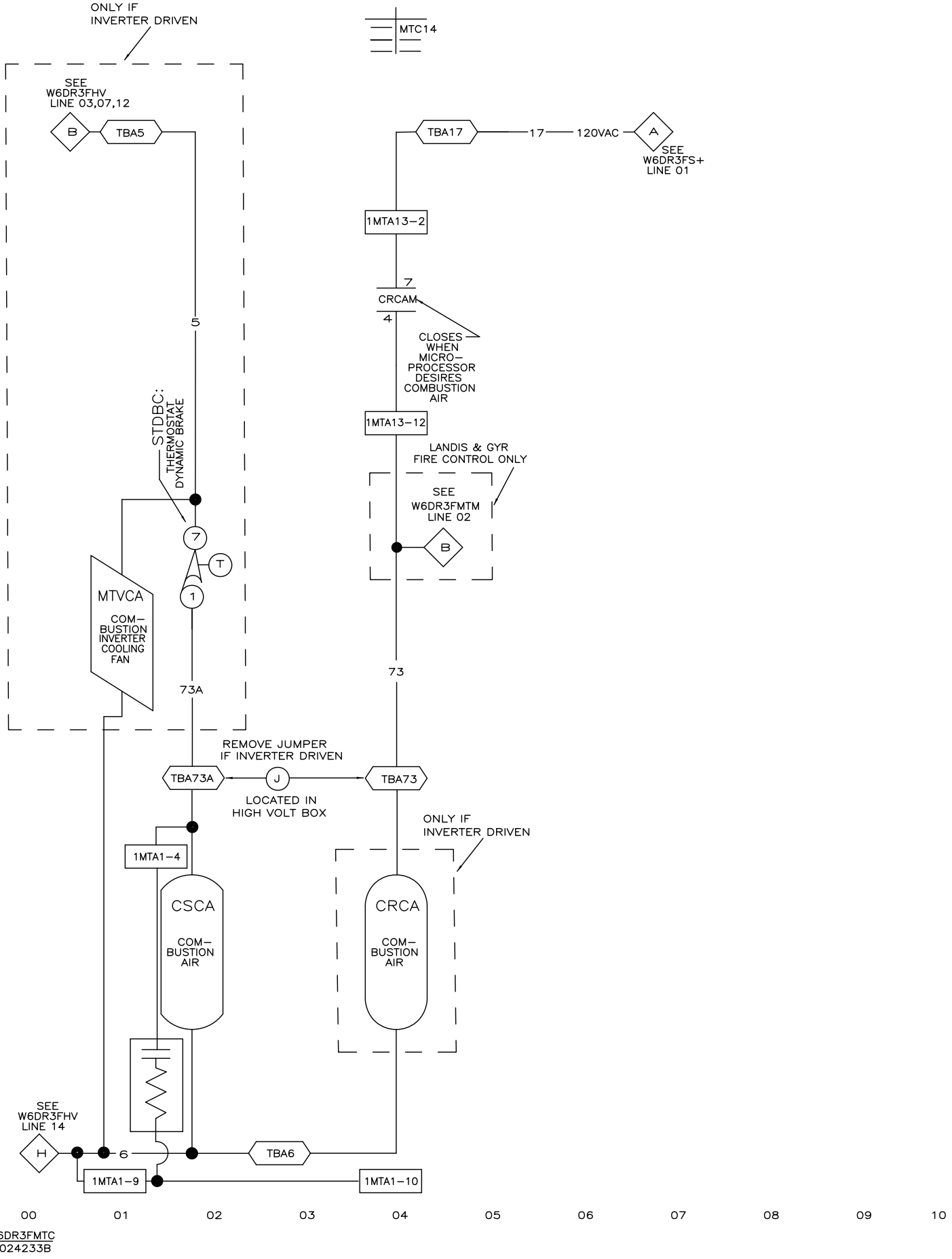

LSB11
SEE W6DR3FS+ LINE 01
A
17
120VAC
1MTA14–10
7
CRBDM
4
CLOSES AT END OF CYCLE TO BLOW DOWN LINT
PROGRAMMABLE FOR 6–12 SECONDS WHEN DISCHARGING
7
CRBEM
4
CLOSES TO OPEN GATE VALVE AND OPERATES VACCUM OUTPUT. COMES ON WHEN CRBDM DOES AND STAYS ON FOR 6 MORE SECONDS AFTER CRBDM TURNS OFF.
1MTA14–8
1MTA14–18
JJ4
JJ5
TBA JJ4
TBA JJ5
INTERFACE FOR SEQUENCER CONTROLLER
IF REQUIRED TO PREVENT MULTIPLE DRYER FROM DISCHARGING AT THE SAME TIME SEE W6DSA15C ANDW6DSE15C IN ME6HDSE1BE DISCHARGE SEQUENCER
TO MICROPROCESSOR INPUT
3MTA4–1
TBA JJ0
DRYER ALLOWED TO DISCHARGE
TBA JJ6
JJ6
3MTA5–11
4
CRDEM
7
CLOSES WHEN DISCHARGE DESIRED
3MTA5–1
JJ7
TBA JJ7
TBA XX3
JJ8
3MTA5–19
4
CRFHM
7
CLOSES WHEN DISCHARGE FINISHED
3MTA5–10
JJ9
TBA JJ9
VEEBL
FILTER BLOW DOWN
N/C
VEEGV
GATE VALVE
N/C
VEEGU
GATE VALVE
N/O
CRV
OPERATE VACUUM
VEAB
AIR BLADE
N/C
SEE W6DR3FHV LINE 14
H
TBA 6
6
00
01
02
03
04
05
06
07
08
09
W6DR3FLSB
2024284B

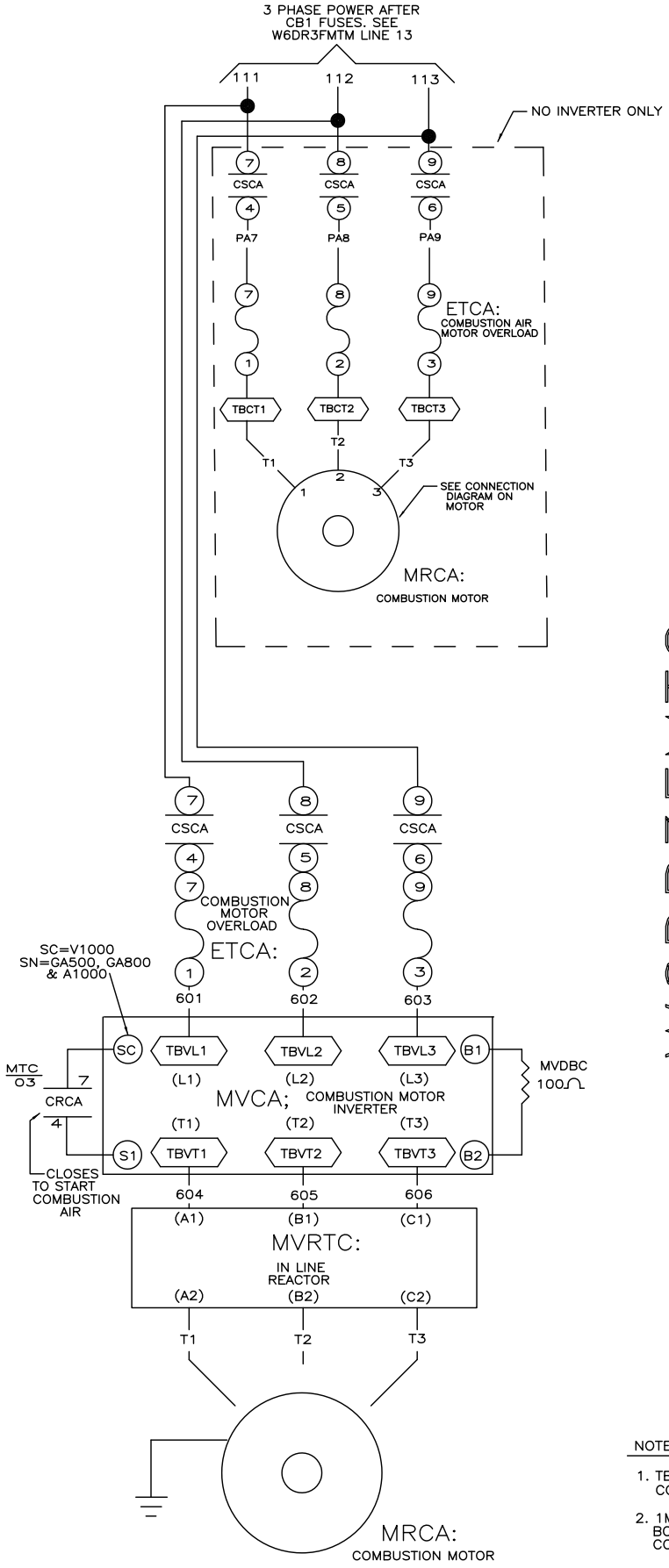
W6DR3FLSB
MICRO 6 SYSTEMS MARK V
SCHEMATIC: INTERNAL LINT SCREEN

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION


MTB13
MTB11
SEE W6DR3FHV LINE 03,07,12
B
TBA5
5
17
120VAC
TBA17
A
SEE W6DR3FS+ LINE 01
1MTA13–1
1MTA14–10
7
CRBCM
4
CLOSES WHEN MICRO–PROCESSOR DESIRES COUNTER CLOCK–WISE ROTATION
7
CRBWM
4
CLOSES WHEN MICRO–PROCESSOR DESIRES CLOCK–WISE ROTATION
7
T
1
STDB:
THERMOSTAT
DYNAMIC BRAKE
1MTA13–11
1MTA14–15
74
19
76
1MTA1–2
CSVS
CONTACTOR VARIABLE SPEED CONTACTOR
CRBAA
COUNTER–CLOCK–WISE ROTATION
CRBAC
CLOCK–WISE ROTATION
SEE W6DR3FHV LINE 14
H
6
1MTA1–9
1MTA1–10
00
01
02
03
04
05
06
07
08
09
10
W6DR3FMTB
2024233B


FROM D–A BOARD
SEE W6DR3FGM,GMA,B,C & D
1MTA43–1
1MTA43–6
125
126
SHIELD
2.2 uf
F7 INVERTER
TBV–AC
TBV–FV
TBV–FC
TBV–A1
V1000 INVERTER
LOW VOLTAGE
TBV–B1
MVDBR
60
3HP (200–240V)
TBV–B2
HIGH VOLTAGE
TBV–B1
MVDBR
100
3HP (380–600V)
TBV–B2
FORWARD
REVERSE
TBVS1
TBVS2
123
124
MTB 06
MTB 04
4
6
CRBAC
CRBAA
7
9
CLOSES WHEN CLOCKWISE BASKET MOTOR ROTATION DESIRED
SHIELDED CABLE
CLOSES WHEN COUNTER–CLOCKWISE BASKET MOTOR ROTATION DESIRED
CABLE SHIELD
123
TBVSN
TBVSC
TBVG
GA500 COMMON V1000
GA800
A1000
NOTES:
SHIELD IS ONLY CONNECTED ON ONE SIDE
3 PHASE POWER AFTER CB1 FUSES. SEE W6DR3FMTM LINE 13
111
112
113
7
8
9
CSVS
CSVS
CSVS
4
5
6
601
602
603
TBVL1
TBVL2
TBVL3
(L1)
(L2)
(L3)
MVBA;
VARIABLE SPEED INVERTER
(T1)
(T2)
(T3)
TBVT1
TBVT2
TBVT3
604
605
606
(L1)
(L2)
(L3)
MVRT:
IN LINE REACTOR
(T1)
(T2)
(T3)
7
8
9
BASKET MOTOR OVERLOAD
ETBA:
1
2
3
T1
T2
T3
BASKET MOTOR
MRBA:
W6DR3FMTB
2024233B
W6DR3FMTB
50 THROUGH 82TG1 L/R GAS–DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: BASKET MOTOR
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION
NOTES:
1. TBA IS LOCATED IN LOW VOLT CONTROL BOX.
11
12
13
14
15
16
17
18
W6DR3FMTB
2024233B


ONLY IF
INVERTER DRIVEN
SEE
W6DR3FHV
LINE 03,07,12
B
TBA5
5
STDBC:
THERMOSTAT
DYNAMIC BRAKE
7
T
1
MTVCA
COM–
BUSTION
INVERTER
COOLING
FAN
73A
MTC14
TBA17
17
120VAC
A
SEE
W6DR3FS+
LINE 01
1MTA13–2
7
CRCAM
4
CLOSES
WHEN
MICRO–
PROCESSOR
DESIRES
COMBUSTION
AIR
1MTA13–12
LANDIS & GYR
FIRE CONTROL ONLY
SEE
W6DR3FMTM
LINE 02
B
73
REMOVE JUMPER
IF INVERTER DRIVEN
TBA73A
J
TBA73
LOCATED IN
HIGH VOLT BOX
ONLY IF
INVERTER DRIVEN
1MTA1–4
CSCA
COM–
BUSTION
AIR
CRCA
COM–
BUSTION
AIR
SEE
W6DR3FHV
LINE 14
H
6
TBA6
1MTA1–9
1MTA1–10
00
01
02
03
04
05
06
07
08
09
10
W6DR3FMTC
2024233B



W6DR3FMTC
2024233B

W6DR3FMTC
5040, 64058 & 72072TG1 L/R GAS–DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: COMBUSTION MOTOR
110V1P50HZ/120V1P60HZ

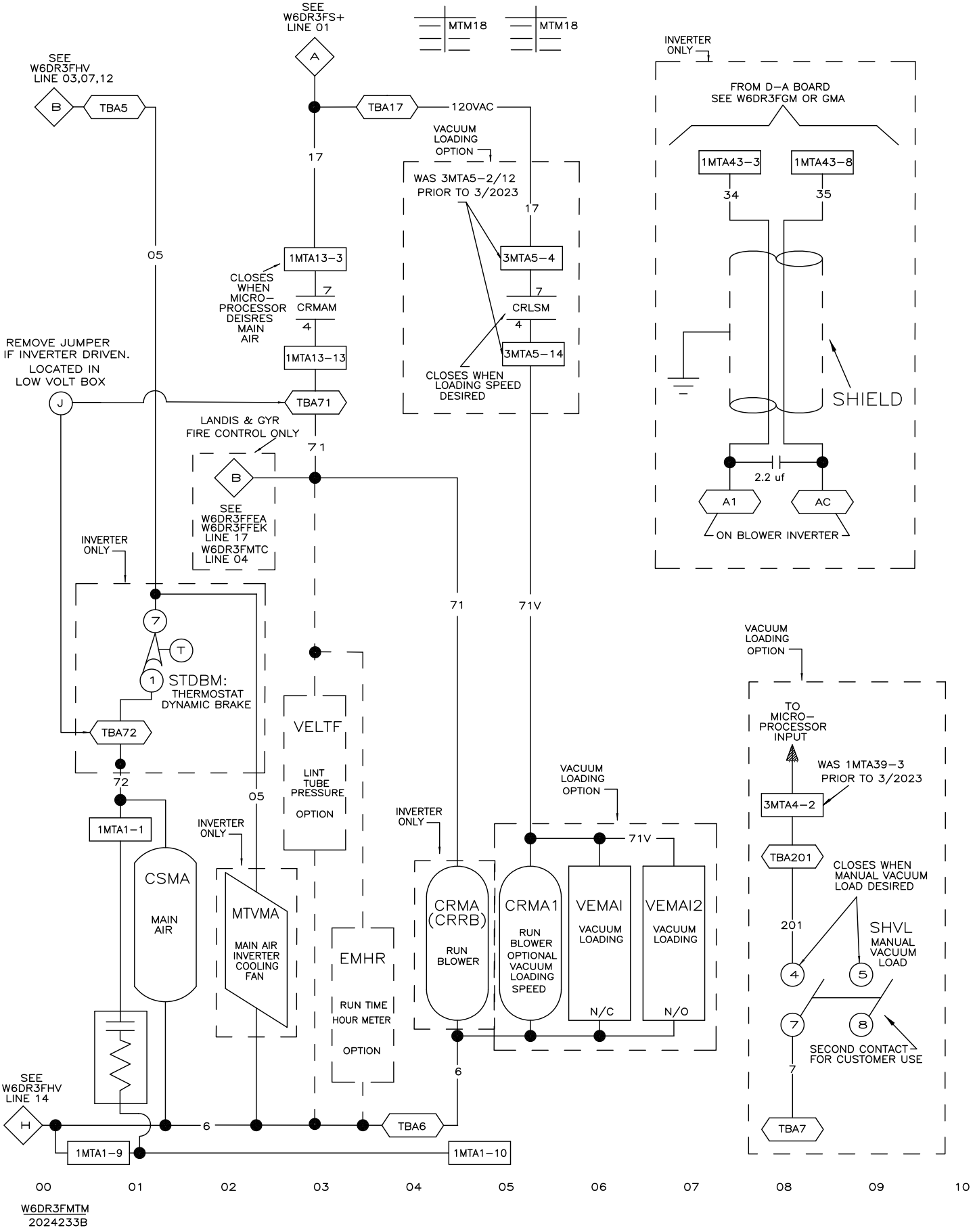
PELLERIN MILNOR CORPORATION

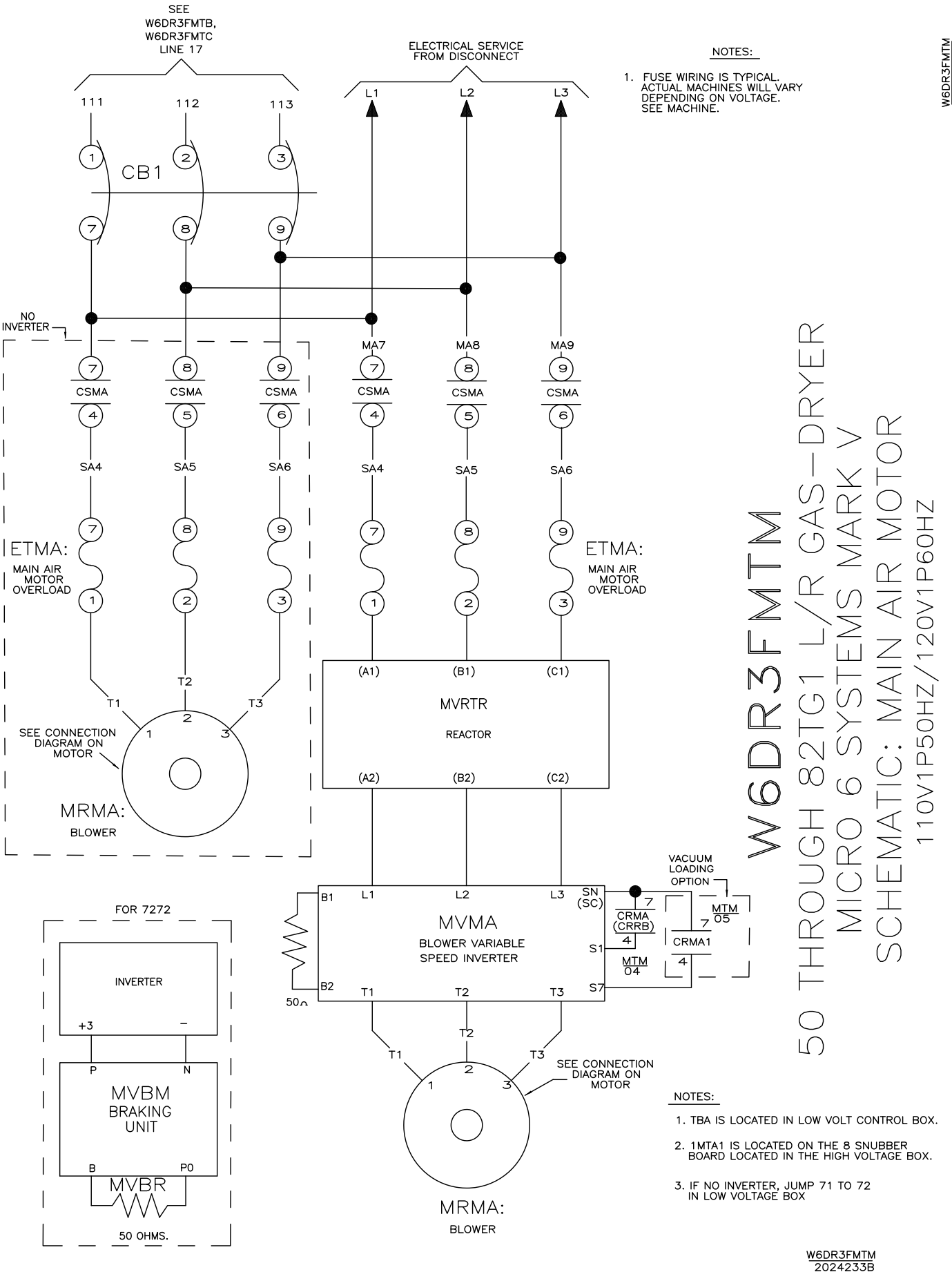
NOTES:

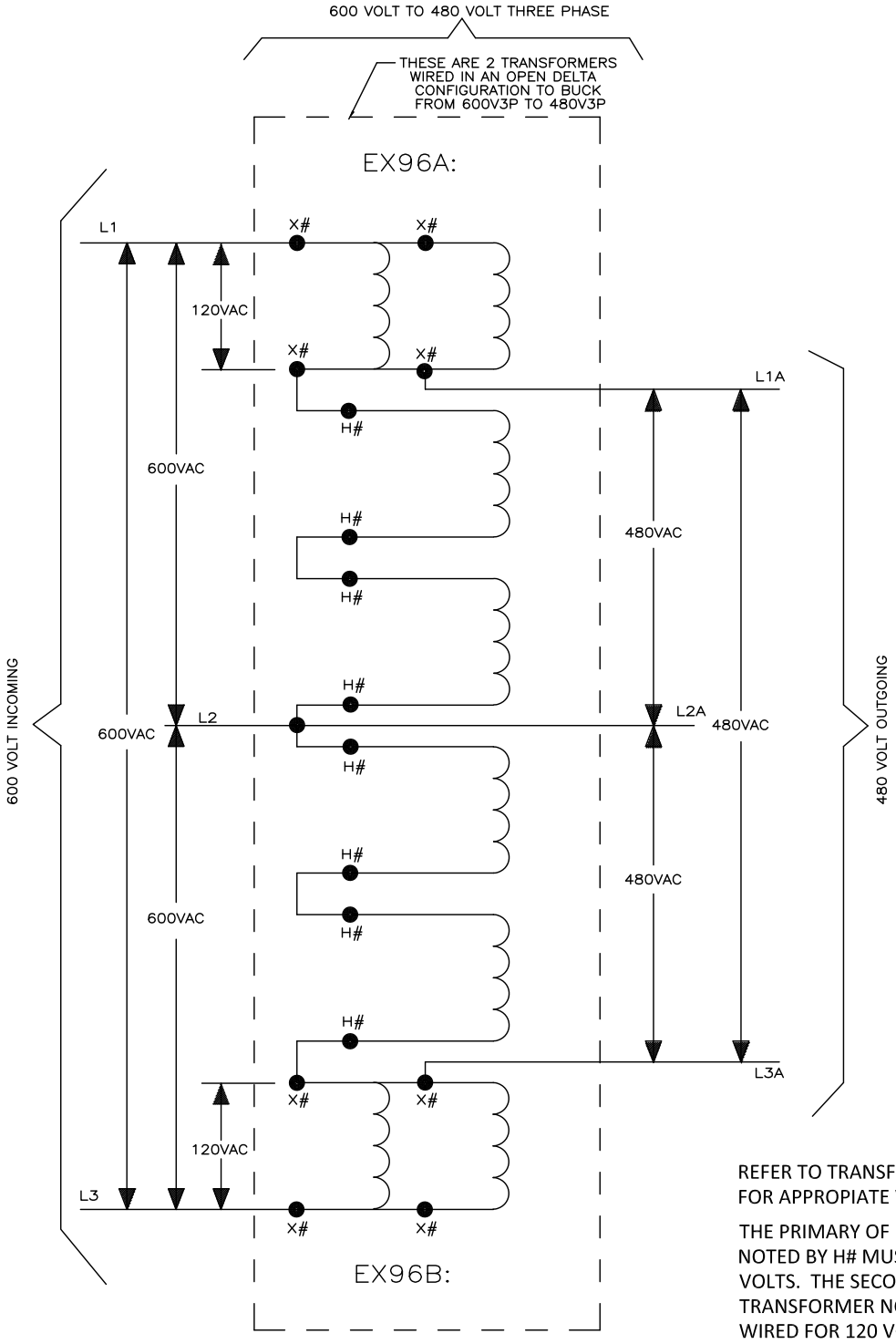
1. TBA IS LOCATED IN LOW VOLT CONTROL BOX
2. 1MTA1 IS LOCATED ON THE 8 SNUBBER BOARD LOCATED IN THE HIGH VOLTAGE CONTROL BOX

11 12 13 14 15 16 17 18

W6DR3FMTC
2024233B


SEE W6DR3FS+ LINE 01
MTM18
MTM18
SEE W6DR3FHV LINE 03,07,12
A
B
TBA5
TBA17
120VAC
INVERTER ONLY
FROM D-A BOARD SEE W6DR3FGM OR GMA
1MTA43-3
1MTA43-8
34
35
VACUUM LOADING OPTION
WAS 3MTA5-2/12 PRIOR TO 3/2023
17
05
1MTA13-3
CLOSES WHEN MICRO-PROCESSOR DEISRES MAIN AIR
7
CRMAM
4
1MTA13-13
3MTA5-4
7
CRLSM
4
3MTA5-14
CLOSES WHEN LOADING SPEED DESIRED
REMOVE JUMPER IF INVERTER DRIVEN. LOCATED IN LOW VOLT BOX
J
TBA71
LANDIS & GYR FIRE CONTROL ONLY
71
SHIELD
2.2 uf
A1
AC
ON BLOWER INVERTER
B
SEE W6DR3FFEA W6DR3FFEK LINE 17 W6DR3FMTC LINE 04
INVERTER ONLY
71
71V
7
T
1
STDBM: THERMOSTAT DYNAMIC BRAKE
TBA72
VELTF
LINT TUBE PRESSURE OPTION
VACUUM LOADING OPTION
TO MICRO-PROCESSOR INPUT
WAS 1MTA39-3 PRIOR TO 3/2023
3MTA4-2
TBA201
CLOSES WHEN MANUAL VACUUM LOAD DESIRED
72
05
1MTA1-1
INVERTER ONLY
INVERTER ONLY
VACUUM LOADING OPTION
71V
201
SHVL MANUAL VACUUM LOAD
4
5
CSMA
MAIN AIR
MTVMA
MAIN AIR INVERTER COOLING FAN
EMHR
RUN TIME HOUR METER
OPTION
CRMA (CRRB)
RUN BLOWER
CRMA1
RUN BLOWER OPTIONAL VACUUM LOADING SPEED
VEMAI
VACUUM LOADING
N/C
VEMAI2
VACUUM LOADING
N/O
7
8
SECOND CONTACT FOR CUSTOMER USE
7
6
SEE W6DR3FHV LINE 14
H
6
TBA6
TBA7
1MTA1-9
1MTA1-10
00
01
02
03
04
05
06
07
08
09
10
W6DR3FMTM
2024233B


SEE W6DR3FMTB, W6DR3FMTC LINE 17
ELECTRICAL SERVICE FROM DISCONNECT
NOTES:
1. FUSE WIRING IS TYPICAL. ACTUAL MACHINES WILL VARY DEPENDING ON VOLTAGE. SEE MACHINE.
W6DR3FMTM 2024233B
111
112
113
L1
L2
L3
CB1
NO INVERTER
MA7
MA8
MA9
CSMA
SA4
SA5
SA6
ETMA:
MAIN AIR MOTOR OVERLOAD
T1
T2
T3
SEE CONNECTION DIAGRAM ON MOTOR
MRMA:
BLOWER
(A1)
(B1)
(C1)
MVRTR
REACTOR
(A2)
(B2)
(C2)
VACUUM LOADING OPTION
MTM 05
B1
B2
50Ω
SN (SC)
CRMA (CRRB)
CRMA1
MTM 04
S1
S7
MVMA
BLOWER VARIABLE SPEED INVERTER
FOR 7272
INVERTER
+3
–
P
N
MVBM
BRAKING UNIT
B
P0
MVBR
50 OHMS.
W6DR3FMTM
50 THROUGH 82TG1 L/R GAS–DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: MAIN AIR MOTOR
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION
NOTES:
1. TBA IS LOCATED IN LOW VOLT CONTROL BOX.
2. 1MTA1 IS LOCATED ON THE 8 SNUBBER BOARD LOCATED IN THE HIGH VOLTAGE BOX.
3. IF NO INVERTER, JUMP 71 TO 72 IN LOW VOLTAGE BOX
W6DR3FMTM 2024233B
11
12
13
14
15
16
17
18



REFER TO TRANSFORMER WIRING DIAGRAM FOR APPROPIATE WIRE NUMBERS.

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

00 01 02 03 04 05 06 07 08 09 10

W6DR3FMT6
2019466B

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
2019466B

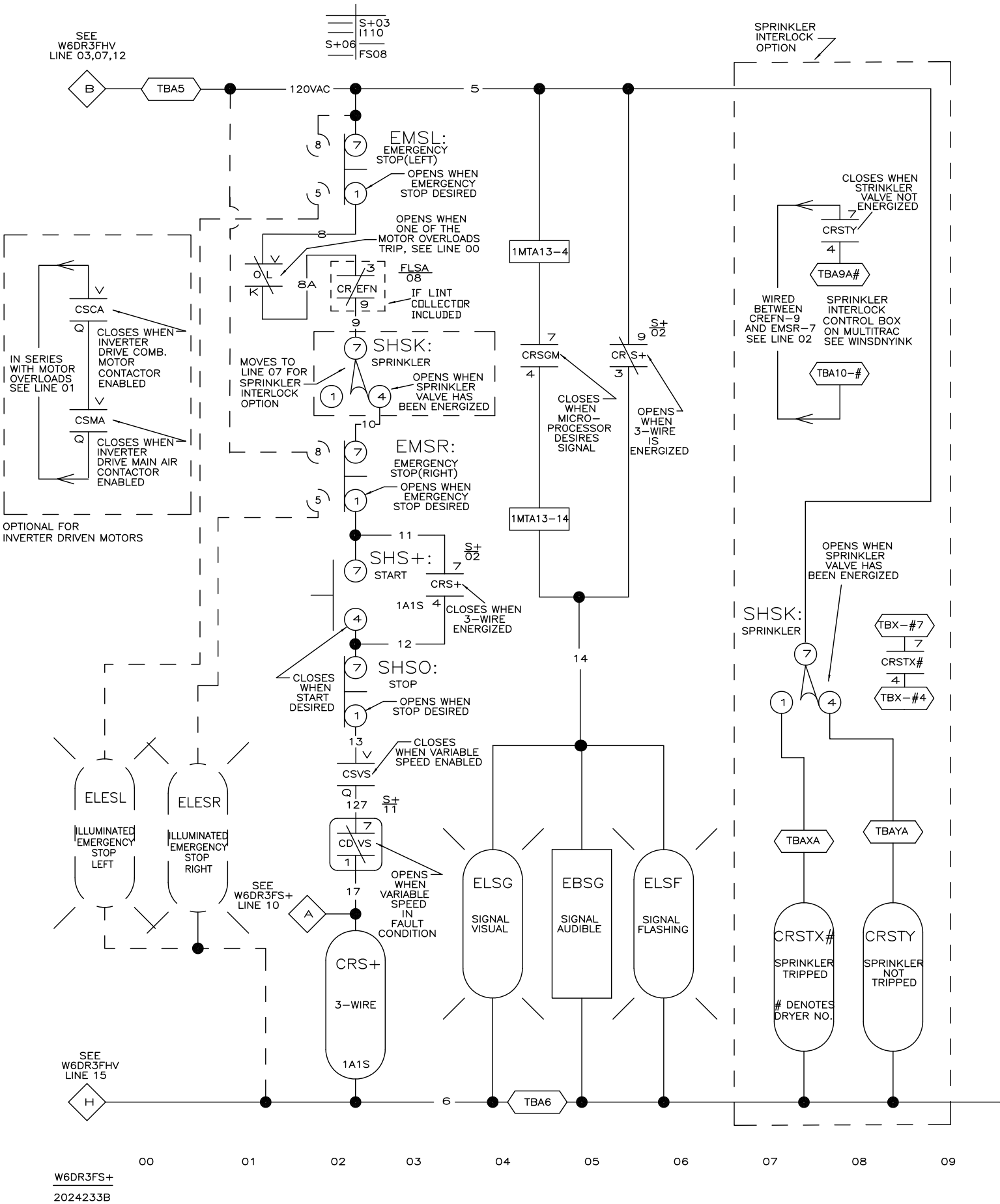
W6DR3FMT6

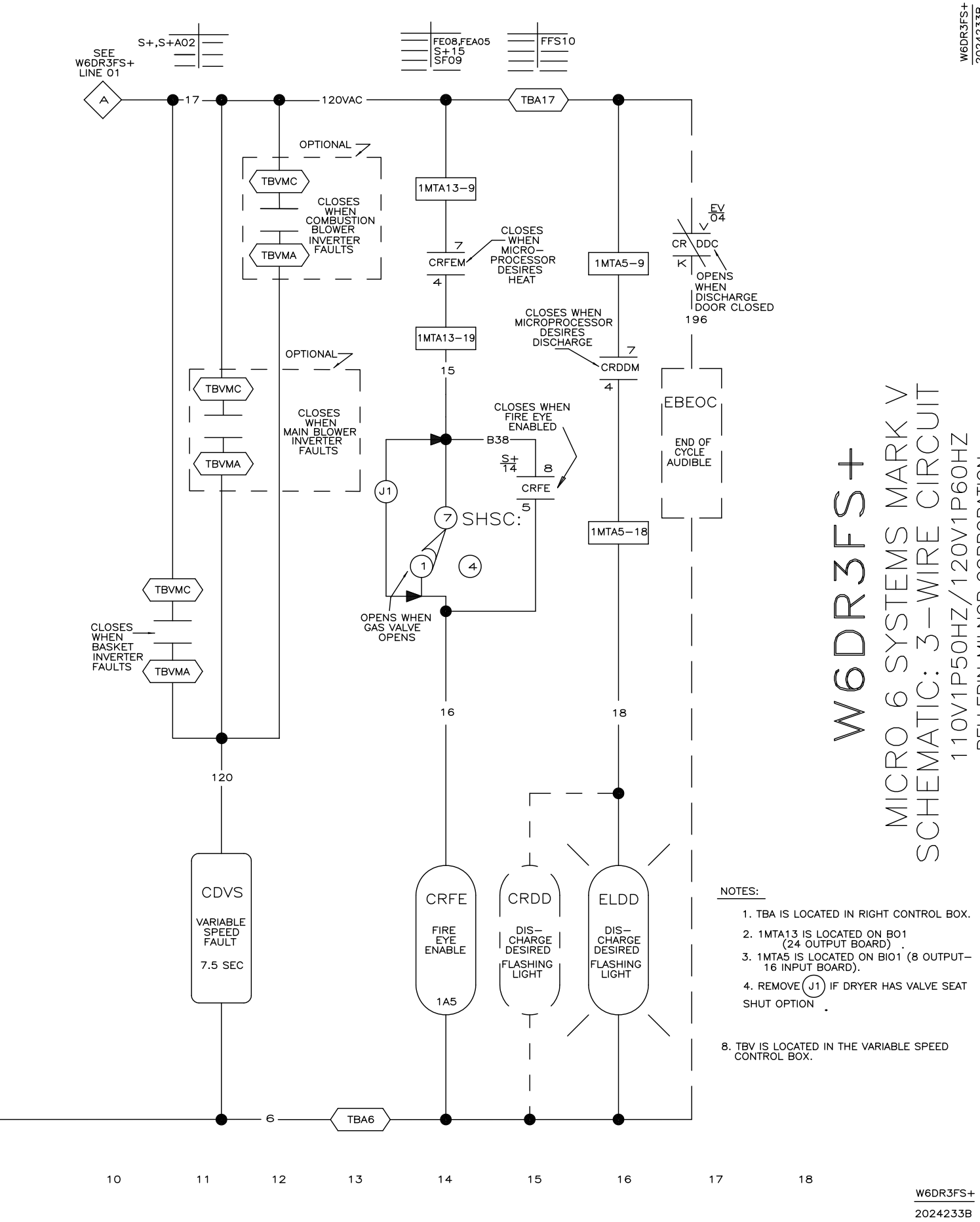
GAS DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: 600V TO 480V FOR COMBUSTION AIR, BASKET, BLOWER INVERTERS AND THERM JET COMBUSTION MOTOR

PELLERIN MILNOR CORPORATION

11 12 13 14 15 16 17

W6DR3FMT6
2019466B


SEE W6DR3FHV LINE 03,07,12
B
TBA5
120VAC
5
S+03
I110
S+06
FS08
SPRINKLER INTERLOCK OPTION
EMSL:
EMERGENCY STOP(LEFT)
OPENS WHEN EMERGENCY STOP DESIRED
OPENS WHEN ONE OF THE MOTOR OVERLOADS TRIP, SEE LINE 00
OL
K
8A
CR/EFN
FLSA
08
IF LINT COLLECTOR INCLUDED
1MTA13-4
CSCA
CLOSES WHEN INVERTER DRIVE COMB. MOTOR CONTACTOR ENABLED
IN SERIES WITH MOTOR OVERLOADS SEE LINE 01
CSMA
CLOSES WHEN INVERTER DRIVE MAIN AIR CONTACTOR ENABLED
OPTIONAL FOR INVERTER DRIVEN MOTORS
SHSK:
SPRINKLER
MOVES TO LINE 07 FOR SPRINKLER INTERLOCK OPTION
OPENS WHEN SPRINKLER VALVE HAS BEEN ENERGIZED
CRSGM
CLOSES WHEN MICRO-PROCESSOR DESIRES SIGNAL
CR S+
OPENS WHEN 3-WIRE IS ENERGIZED
CLOSES WHEN STRINKLER VALVE NOT ENERGIZED
CRSTY
TBA9A#
WIRED BETWEEN CREFN-9 AND EMSR-7 SEE LINE 02
SPRINKLER INTERLOCK CONTROL BOX ON MULTITRAC SEE WINSDNYINK
TBA10-#
EMSR:
EMERGENCY STOP(RIGHT)
OPENS WHEN EMERGENCY STOP DESIRED
1MTA13-14
SHS+:
START
CRS+
1A1S
CLOSES WHEN 3-WIRE ENERGIZED
OPENS WHEN SPRINKLER VALVE HAS BEEN ENERGIZED
SHSK:
SPRINKLER
TBX-#7
CRSTX#
TBX-#4
SHSO:
STOP
CLOSES WHEN START DESIRED
OPENS WHEN STOP DESIRED
CSVS
CLOSES WHEN VARIABLE SPEED ENABLED
CDVS
OPENS WHEN VARIABLE SPEED IN FAULT CONDITION
ELESL
ILLUMINATED EMERGENCY STOP LEFT
ELESR
ILLUMINATED EMERGENCY STOP RIGHT
SEE W6DR3FS+ LINE 10
A
CRS+
3-WIRE
1A1S
ELSG
SIGNAL VISUAL
EBSG
SIGNAL AUDIBLE
ELSF
SIGNAL FLASHING
TBAXA
TBAYA
CRSTX#
SPRINKLER TRIPPED
# DENOTES DRYER NO.
CRSTY
SPRINKLER NOT TRIPPED
SEE W6DR3FHV LINE 15
H
TBA6
00
01
02
03
04
05
06
07
08
09
W6DR3FS+
2024233B

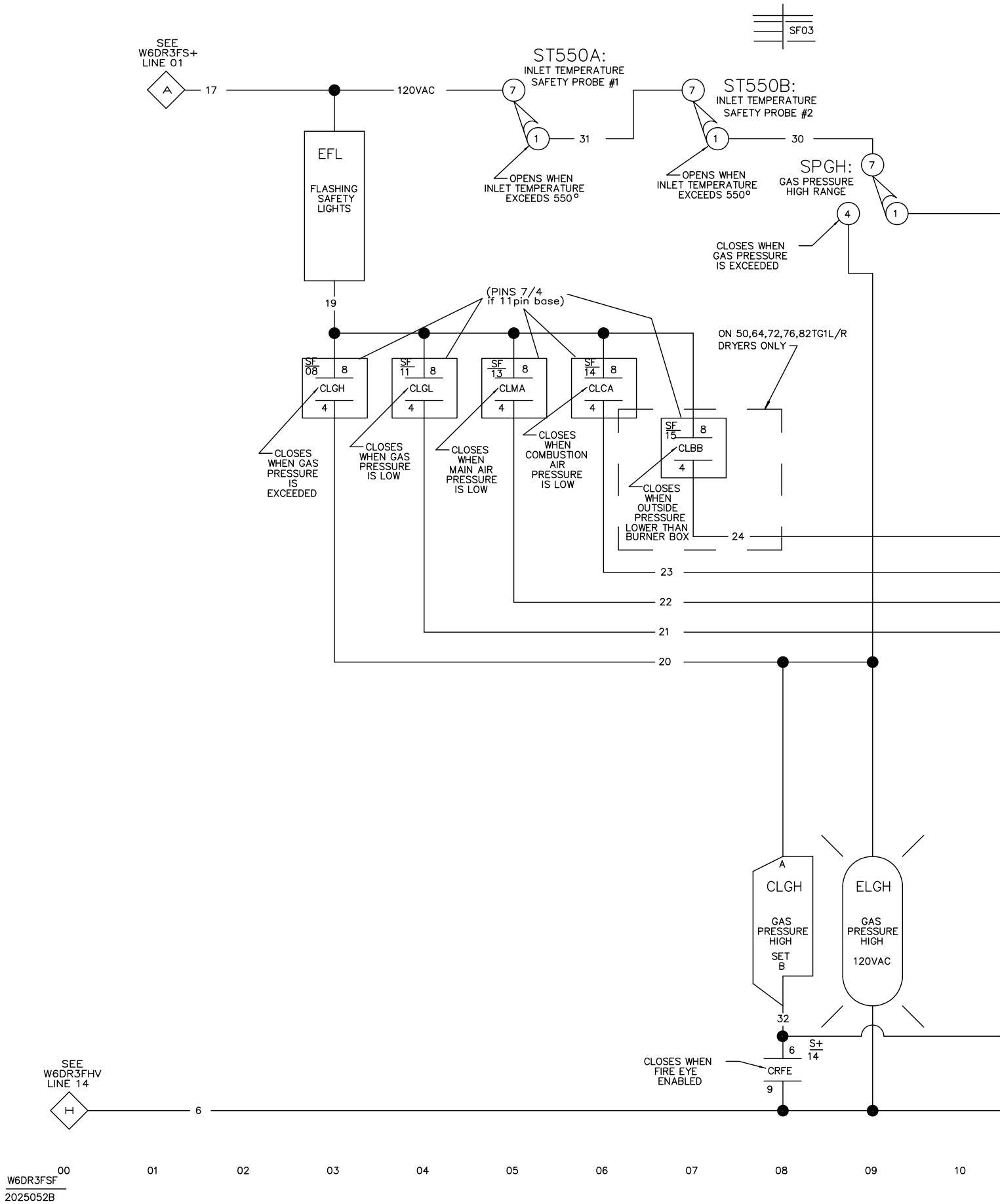


W6DR3FS+
MICRO 6 SYSTEMS MARK V
SCHEMATIC: 3-WIRE CIRCUIT
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

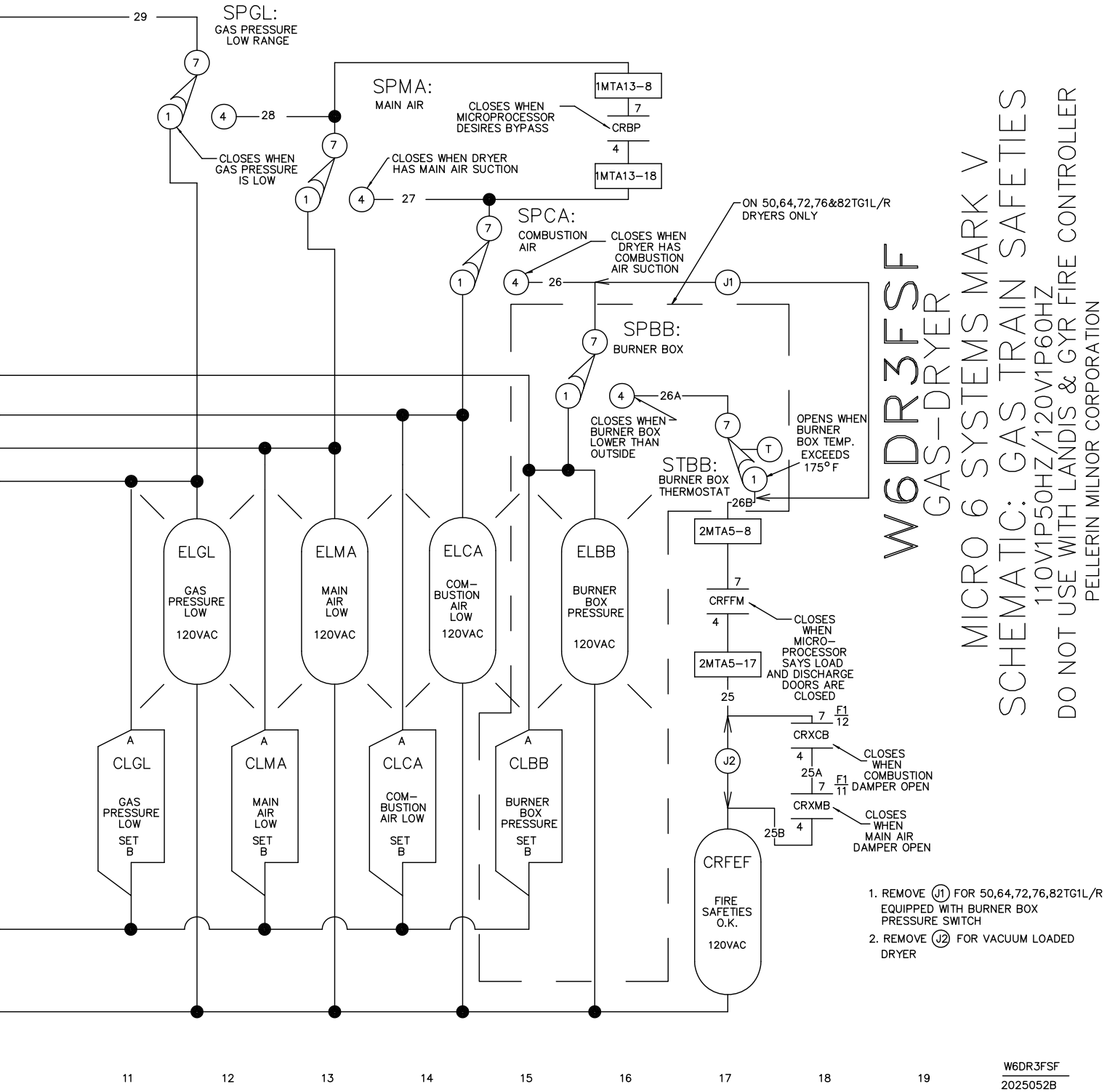
1. TBA IS LOCATED IN RIGHT CONTROL BOX.
2. 1MTA13 IS LOCATED ON BO1 (24 OUTPUT BOARD) .
3. 1MTA5 IS LOCATED ON BIO1 (8 OUTPUT-16 INPUT BOARD).
4. REMOVE (J1) IF DRYER HAS VALVE SEAT SHUT OPTION .

8. TBV IS LOCATED IN THE VARIABLE SPEED CONTROL BOX.

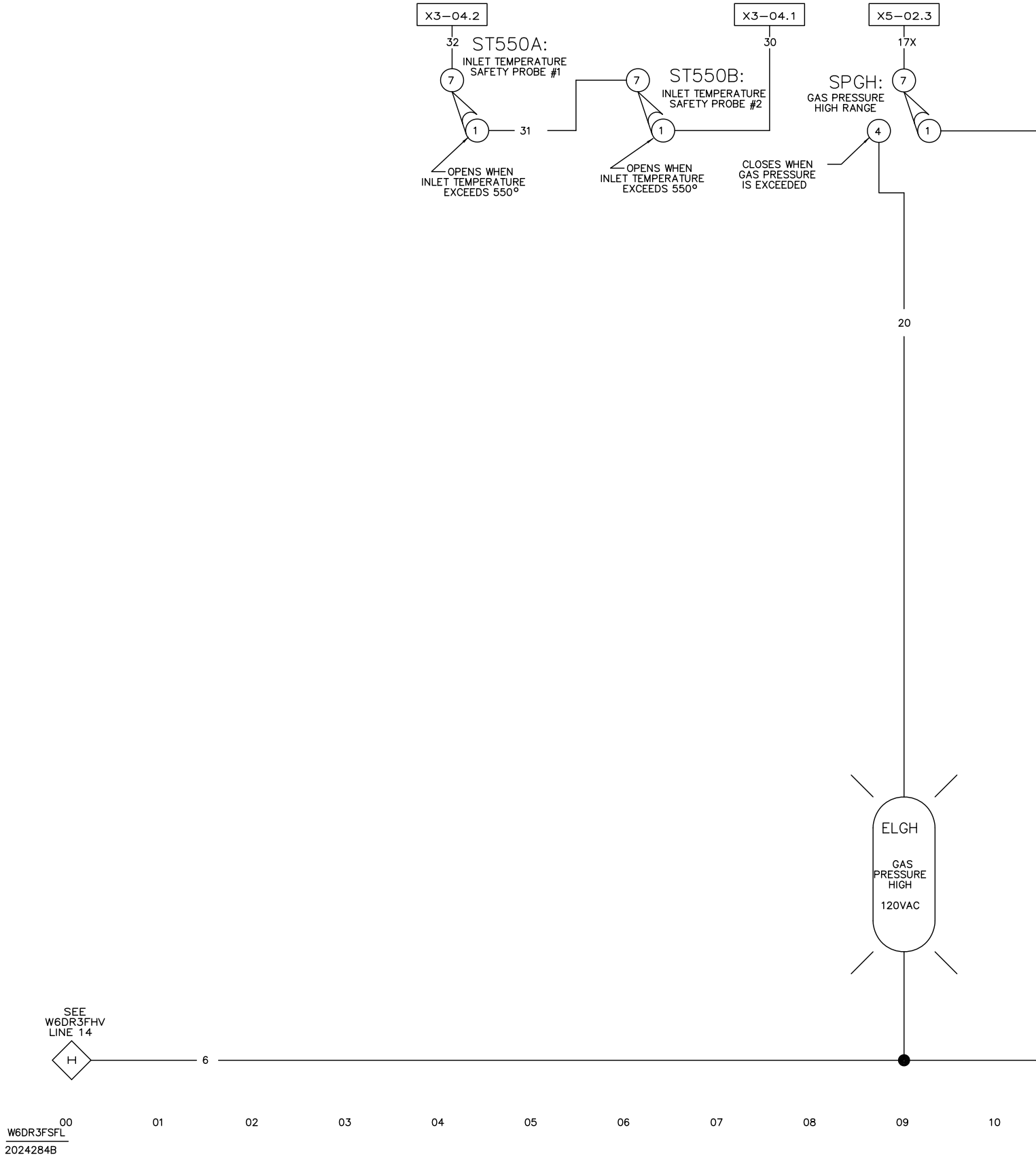

SF03
SEE W6DR3FS+ LINE 01
A
17
120VAC
ST550A:
INLET TEMPERATURE SAFETY PROBE #1
7
1
31
OPENS WHEN INLET TEMPERATURE EXCEEDS 550°
ST550B:
INLET TEMPERATURE SAFETY PROBE #2
7
1
30
OPENS WHEN INLET TEMPERATURE EXCEEDS 550°
SPGH:
GAS PRESSURE HIGH RANGE
7
1
4
CLOSES WHEN GAS PRESSURE IS EXCEEDED
EFL
FLASHING SAFETY LIGHTS
19
(PINS 7/4 if 11pin base)
ON 50,64,72,76,82TG1L/R DRYERS ONLY
SF 08 8
CLGH
4
SF 11 8
CLGL
4
SF 13 8
CLMA
4
SF 14 8
CLCA
4
SF 15 8
CLBB
4
CLOSES WHEN GAS PRESSURE IS EXCEEDED
CLOSES WHEN GAS PRESSURE IS LOW
CLOSES WHEN MAIN AIR PRESSURE IS LOW
CLOSES WHEN COMBUSTION AIR PRESSURE IS LOW
CLOSES WHEN OUTSIDE PRESSURE LOWER THAN BURNER BOX
24
23
22
21
20
A
CLGH
GAS PRESSURE HIGH
SET B
ELGH
GAS PRESSURE HIGH
120VAC
32
6
S+ 14
CLOSES WHEN FIRE EYE ENABLED
CRFE
9
SEE W6DR3FHV LINE 14
H
6
00
01
02
03
04
05
06
07
08
09
10
W6DR3FSF
2025052B

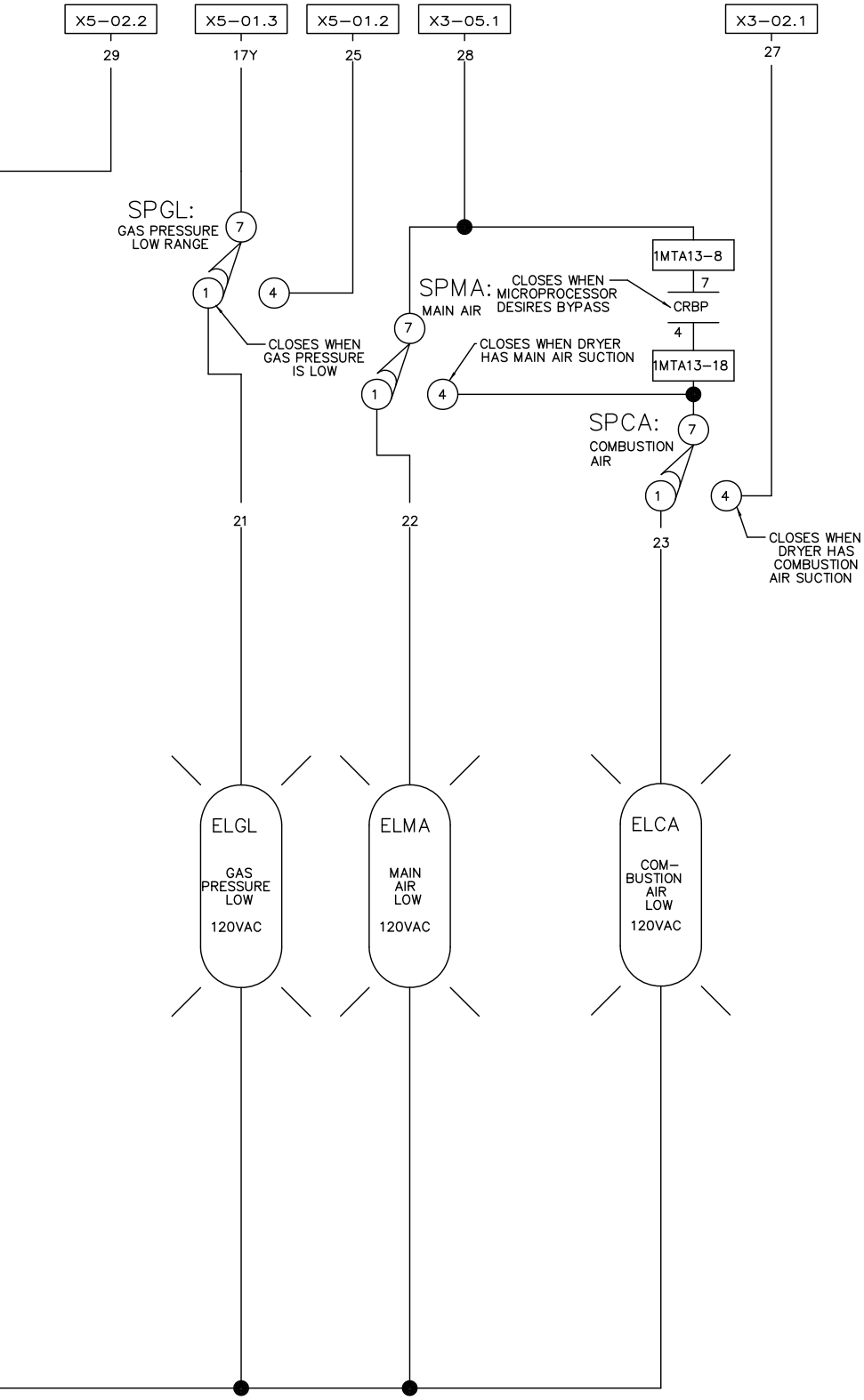
SF04 SF05 SF06 GI08 SF07 I108 FE09 FE08

W6DR3FSF 2025052B



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

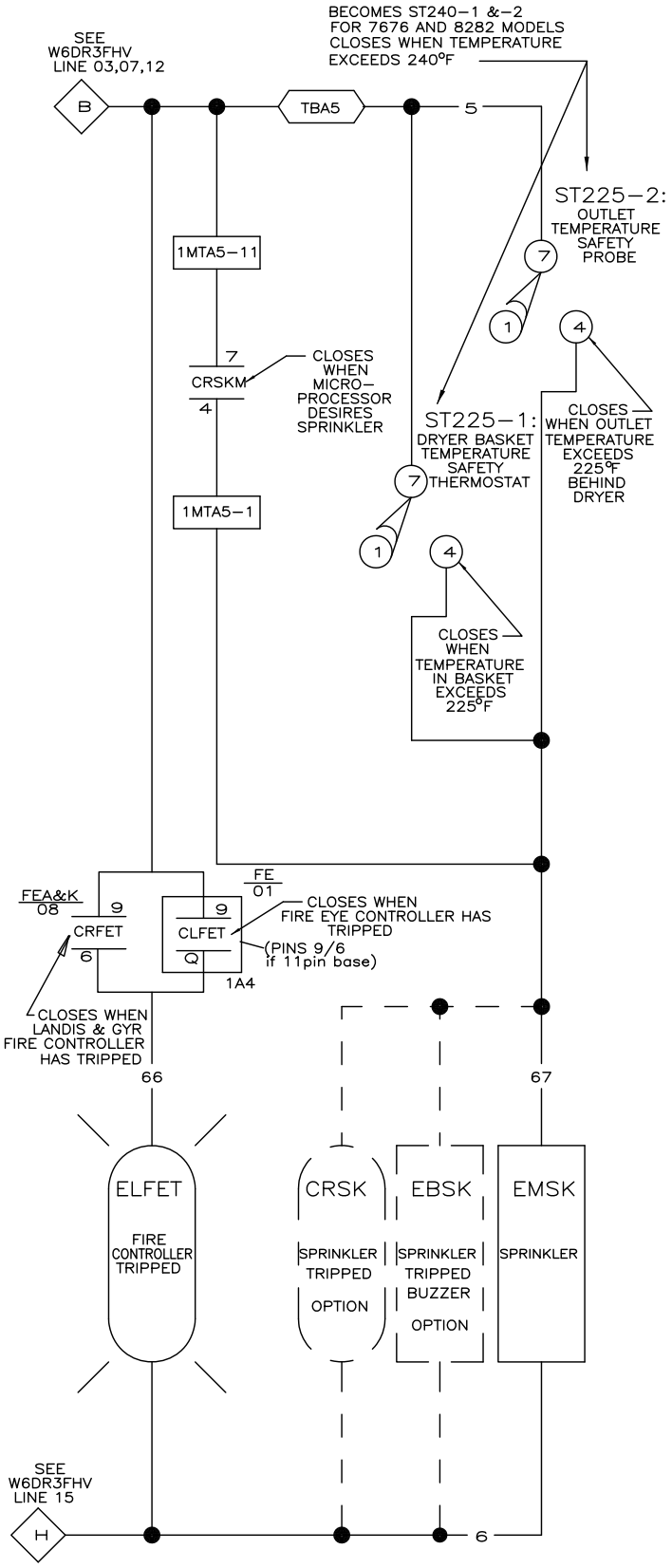

X3–04.2
32
ST550A:
INLET TEMPERATURE
SAFETY PROBE #1
7
1
31
OPENS WHEN
INLET TEMPERATURE
EXCEEDS 550°
X3–04.1
30
7
ST550B:
INLET TEMPERATURE
SAFETY PROBE #2
1
OPENS WHEN
INLET TEMPERATURE
EXCEEDS 550°
X5–02.3
17X
SPGH:
GAS PRESSURE
HIGH RANGE
7
4
1
CLOSES WHEN
GAS PRESSURE
IS EXCEEDED
20
ELGH
GAS
PRESSURE
HIGH
120VAC
SEE
W6DR3FHV
LINE 14
H
6
00
01
02
03
04
05
06
07
08
09
10
W6DR3FSFL
2024284B



W6DR3FSFL
2024284B

W6DR3FSFL
GAS–DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: GAS TRAIN SAFETIES
110V1P50HZ/120V1P60HZ
FOR LOW NOX BURNER
PELLERIN MILNOR CORPORATION

W6DR3FSFL
2024284B


SEE W6DR3FHV LINE 03,07,12
B
BECOMES ST240–1 &–2 FOR 7676 AND 8282 MODELS CLOSES WHEN TEMPERATURE EXCEEDS 240°F
TBA5
5
ST225–2: OUTLET TEMPERATURE SAFETY PROBE
7
1
4
1MTA5–11
7
CRSKM
4
CLOSES WHEN MICRO–PROCESSOR DESIRES SPRINKLER
ST225–1: DRYER BASKET TEMPERATURE SAFETY THERMOSTAT
CLOSES WHEN OUTLET TEMPERATURE EXCEEDS 225°F BEHIND DRYER
1MTA5–1
CLOSES WHEN TEMPERATURE IN BASKET EXCEEDS 225°F
FE 01
FEA&K 08
9
CRFET
6
9
CLFET
Q
1A4
CLOSES WHEN FIRE EYE CONTROLLER HAS TRIPPED
(PINS 9/6 if 11pin base)
CLOSES WHEN LANDIS & GYR FIRE CONTROLLER HAS TRIPPED
66
67
ELFET
FIRE CONTROLLER TRIPPED
CRSK
SPRINKLER TRIPPED OPTION
EBSK
SPRINKLER TRIPPED BUZZER OPTION
EMSK
SPRINKLER
SEE W6DR3FHV LINE 15
H
6
00
01
02
03
04
05
06
07
08
09
10
W6DR3FSPR
2025094B

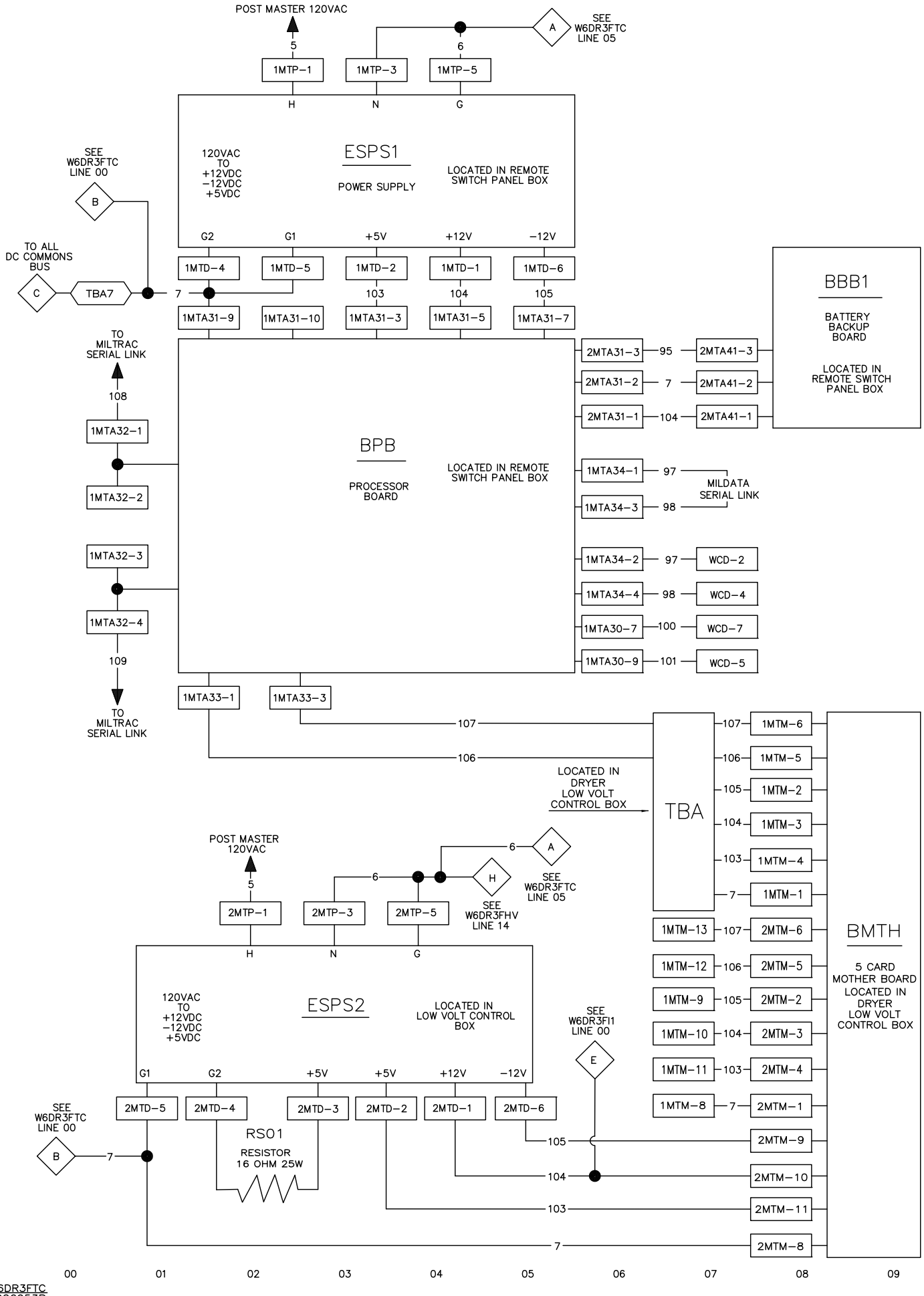
W6DR3FSPR

50 THROUGH 82TG1 L/R GAS—DRYER
MICRO 6 SYSTEMS MARK V
SCHEMATIC: SPRINKLER
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

NOTES:

1. TBA IS LOCATED IN LOW VOLT CONTROL BOX.



W6DR3FTC
2026053B

WIRE COLORING CODE

WIRE NO.	VOLTAGE	WIRE COLOR
103	+5V	BLUE
104	+12V	BLUE
105	−12V	BLUE
7	GND	BLUE
107	SERIAL HIGH	BLUE
106	SERIAL LOW	BLUE
109	MILNET HIGH	BLUE
108	MILNET LOW	BLUE
–	24VAC	RED
–	120VAC	RED
6	CONTROL GROUND	RED
–	DC WIRES	BLUE
–	AC WIRES	RED

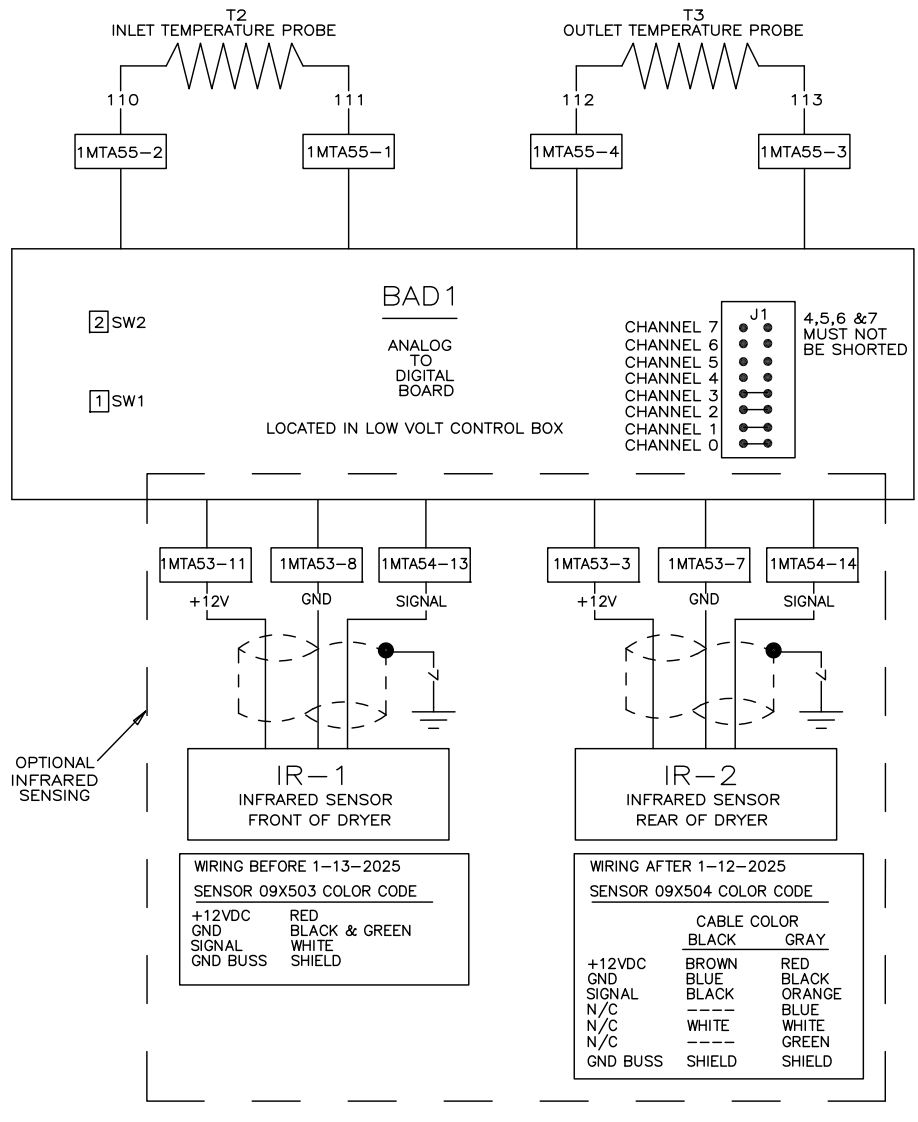
NOTE:

WHEN A DRYER IS CONTROLLED BY AN INDIVIDUAL DRYER CONTROLLER RATHER THAN A MULTITRAC DRYER CONTROLLER, THIS SCHEMATIC REPLACES W6DR3FTR FOR ESPS1, ESPS2, BMTH AND BPB WIRING.

W6DR3FTC

GAS–DRYER MICRO 6 SYSTEMS MARK V SCHEMATIC: 186 PROCESSOR FOR INDIVIDUAL DRYER CONTROLLER + THERMOCOUPLES

PELLERIN MILNOR CORPORATION



WIRING BEFORE 1–13–2025

SENSOR 09X503 COLOR CODE

+12VDC	RED
GND	BLACK & GREEN
SIGNAL	WHITE
GND BUSS	SHIELD

WIRING AFTER 1–12–2025

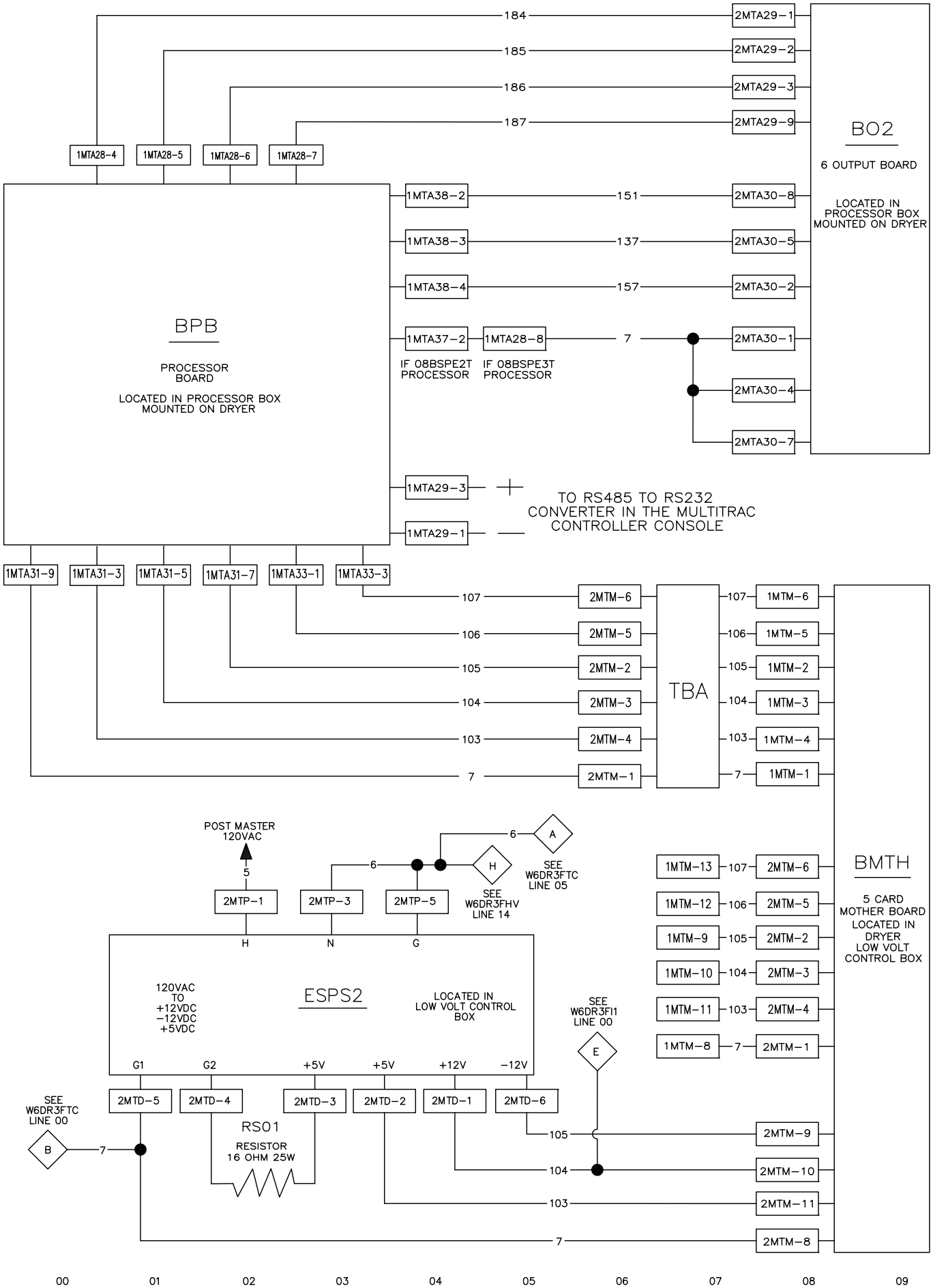
SENSOR 09X504 COLOR CODE

	CABLE COLOR	
	BLACK	GRAY
+12VDC	BROWN	RED
GND	BLUE	BLACK
SIGNAL	BLACK	ORANGE
N/C	----	BLUE
N/C	WHITE	WHITE
N/C	----	GREEN
GND BUSS	SHIELD	SHIELD

NOTES:

1. 1MTA1, 1MTA2, 2MTA1, 2MTA2 ARE LOCATED ON BSC1 (SIGNAL CONDITIONER BOARD).
2. 1MTA51, 1MTA52, 1MTA53, 1MTA54, 1MTA55 ARE LOCATED ON BAD1 (ANALOG TO DIGITAL BOARD).
4. 1MTA31, 1MTA32, 1MTA33, 1MTA34, 2MTA31 ARE LOCATED ON BPB (PROCESSOR BOARD).

10 11 12 13 14 15 16 17



W6DR3FTR
2026053B

W6DR3FTR

DRYER – GAS MICRO 6 SYSTEMS
SCHEMATIC; BOARD WIRING FOR INTERFACE WITH DRYER/SHUTTLE MULTITRAC CONTROLLER + THERMOCOUPLES

PELLERIN MILNOR CORPORATION

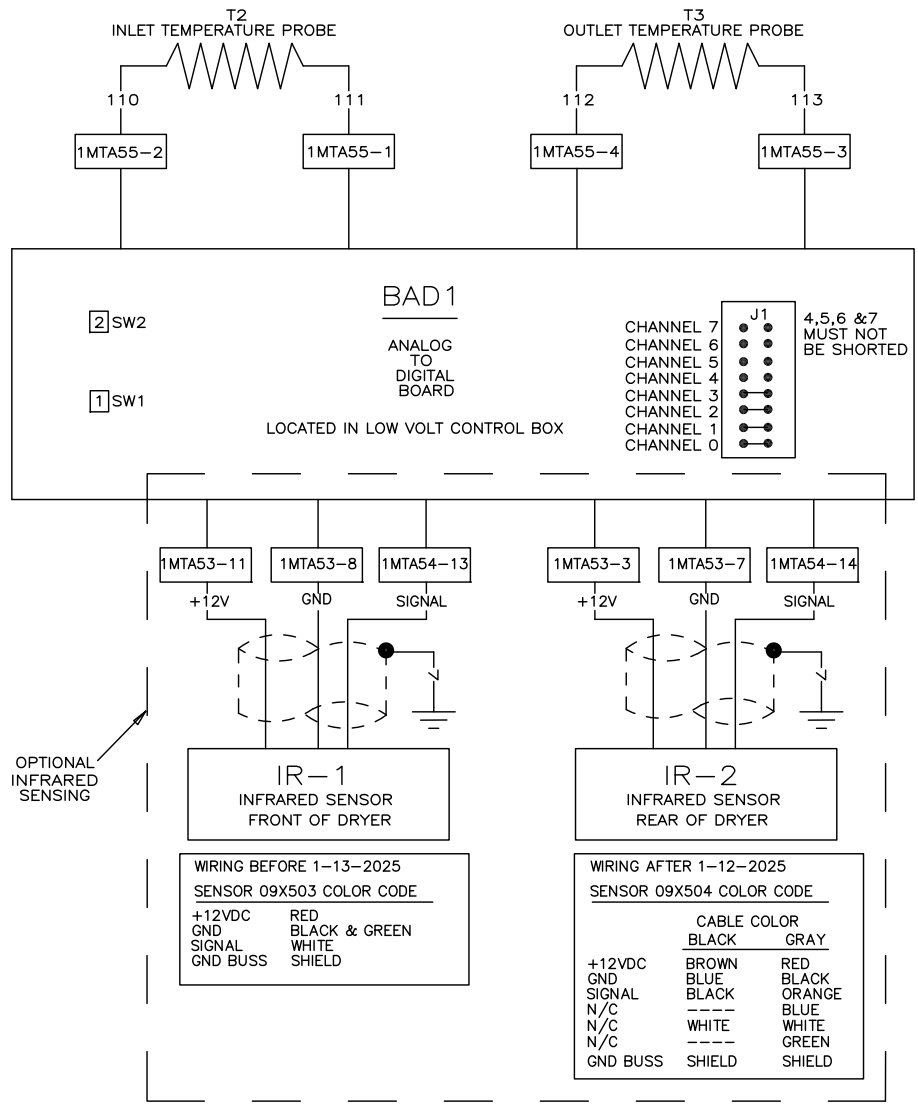
WIRE COLORING CODE

WIRE NO.	VOLTAGE	WIRE COLOR
103	+5V	BLUE
104	+12V	BLUE
105	–12V	BLUE
7	GND	BLUE
107	SERIAL HIGH	BLUE
106	SERIAL LOW	BLUE
109	MILNET HIGH	BLUE
108	MILNET LOW	BLUE
–	24VAC	RED
–	120VAC	RED
6	CONTROL GROUND	RED
–	DC WIRES	BLUE
–	AC WIRES	RED

NOTE:

WHEN A DRYER IS CONTROLLED BY A MULTITRAC CONTROLLER RATHER THAN AN INDIVIDUAL DRYER CONTROLLER, THIS SCHEMATIC REPLACES W6DR3FTC FOR ESPS2, BMTH AND BPB WIRING.

IT ALSO REPLACES W6DR3FD, W6DR3FKP AND THE DIRECT INPUTS FOR LOAD ALLOWED, MILDATA, AND PROGRAM KEY AS SHOWN ON W6DR3FI1



WIRING BEFORE 1–13–2025

SENSOR 09X503 COLOR CODE

+12VDC	RED
GND	BLACK & GREEN
SIGNAL	WHITE
GND BUSS	SHIELD

WIRING AFTER 1–12–2025

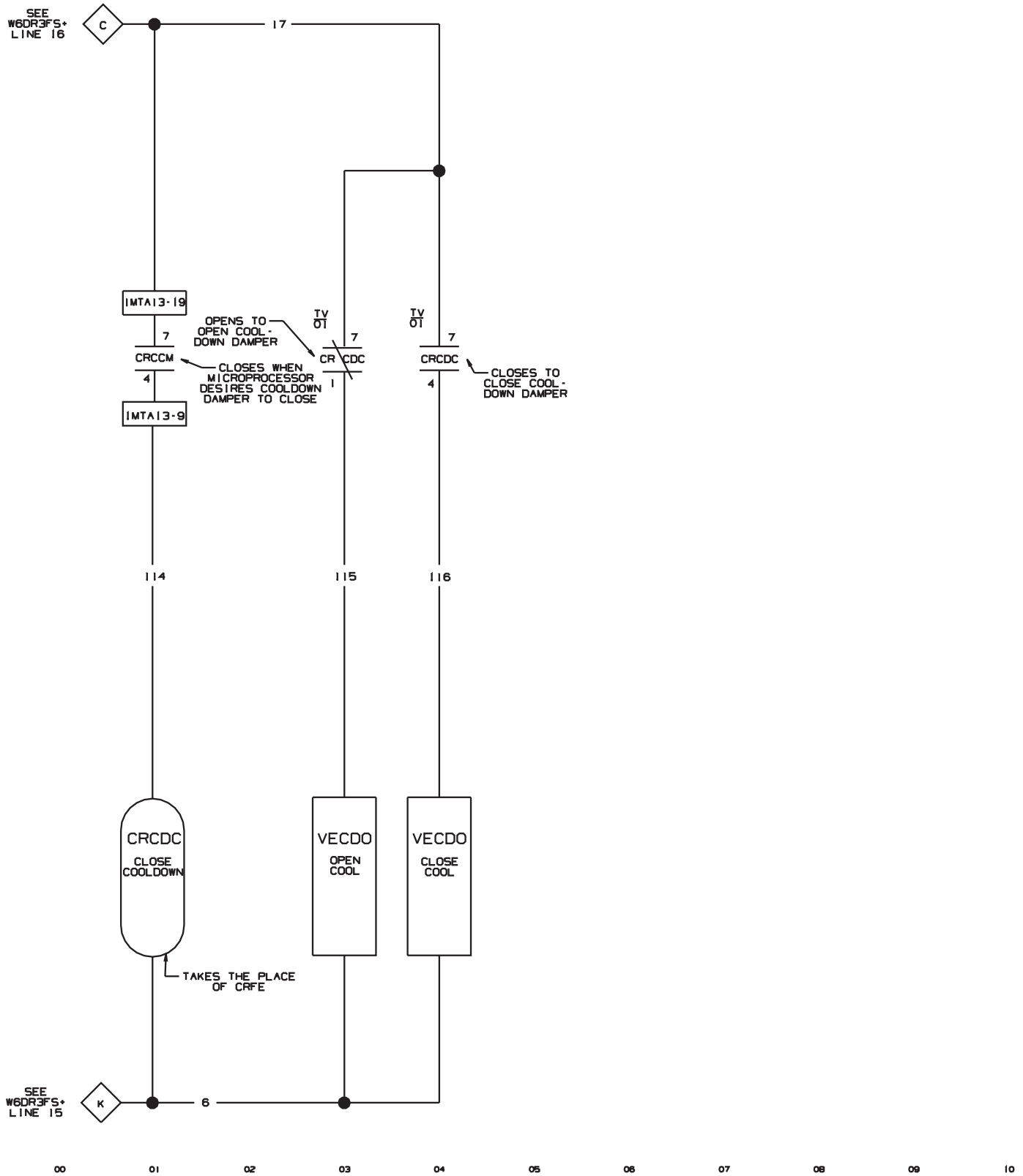
SENSOR 09X504 COLOR CODE

	CABLE COLOR	
	BLACK	GRAY
+12VDC	BROWN	RED
GND	BLUE	BLACK
SIGNAL	BLACK	ORANGE
N/C	----	BLUE
N/C	WHITE	WHITE
N/C	----	GREEN
GND BUSS	SHIELD	SHIELD

NOTES:

1. 1MTA1, 1MTA2, 2MTA1, 2MTA2 ARE LOCATED ON BSC1 (SIGNAL CONDITIONER BOARD).
2. 1MTA51, 1MTA52, 1MTA53, 1MTA54, 1MTA55 ARE LOCATED ON BAD1 (ANALOG TO DIGITAL BOARD).
4. 1MTA31, 1MTA32, 1MTA33, 1MTA34, 2MTA31 ARE LOCATED ON BPB (PROCESSOR BOARD).

10 11 12 13 14 15 16 17



W6DR3FTV
97507B

W6DR3FTV

GAS-DRYER

MICRO 6 SYSTEMS MARK V

SCHEMATIC: THERMAL OIL MODULATING VALVE

PELLERIN MILNOR CORPORATION