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Schematic/Electrical Parts

42044, 60044 & 72044

WR2, WR3

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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ME6HWR2ZAE/25502A

COMPONENT PARTS LIST

W6W5DZPL/2025502N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
001	CONTROL BOARDS INPUTS/OUTPUTS	W6W5DZTG1	B2T2014009	WR2/3,SR2/3 CONTROL BOARDS	LOW VOLT BOX
002	POWER SUPPLY SETTINGS	W6W5DZTG1	B2T2014012	TAG: MILTOUCH-EX POWER SUPY SET	LOW VOLT BOX
003	42044 LOW VOLTAGE CONTROL BOX	W6W5DZTG2	B2T2015001	TAG 42044WR2/3 LOW VOLT BOX	LOW VOLT BOX
004	42044 HIGH VOLTAGE CONTROL BOX	W6W5DZTG2	B2T2015008	TAG:4244WR2/SR2 SINGLE MTR HV BOX	HIGH VOLT BOX
005	60044 INVERTER CONTROL BOX	W6W5DZTG3	B2T2014017	60044WR2/3,SR2/3 INVERTER C-BOX	INVERTER BOX
006	60044 HIGH VOLTAGE CONTROL BOX	W6W5DZTG3	B2T2014018	60044WR2/3,SR2/3 HIGH VOLTAGE BOX	HIGH VOLT BOX
007	60044 LOW VOLTAGE CONTROL BOX	W6W5DZTG3	B2T2014011	60044WR2/3 LOW VOLT C-BOX	LOW VOLT BOX
008	72044 LOW VOLTAGE CONTROL BOX	W6W5DZTG4	B2T2016001	TAG:72044WR2 LOW VOLT BOX	LOW VOLT BOX
009	72044 HIGH VOLTAGE CONTROL BOX	W6W5DZTG4	B2T2015012	7244WR-SR2/3 MILTOUCH-EX HV C-BOX	HIGH VOLT BOX
BA	**>>PRINTED CIRCUIT BOARDS**				
BAD-1	BOARD-ANALOG TO DIGITAL CONVERTER	W6W5DZBW	08BSADCT	BD:SERIAL A-D CONVERT->TEST	LOW VOLT BOX
BDA-1	BOARD-HIGH RES DIGITAL TO ANALOG CONV.	W6W5DZBW	08BSDACHT	BD:HI-RES SERIAL D-A->TEST	LOW VOLT BOX
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6W5DZBW	08BS816CT	BOARD:8OUT-16INPUT-AUTOSPOT	LOW VOLT BOX
BIO-2	BOARD-8OUTPUT/16INPUT #2	W6W5DZBW	08BS816CT	BOARD:8OUT-16INPUT-AUTOSPOT	LOW VOLT BOX
BIO-A	BOARD-8OUTPUT/16INPUT #A (AUTOSPOT)	W6W5DZBW	08BS816CTA	BOARD-8OUT-16INPUT-AUTOSPOT	LOW VOLT BOX
BLB	BOARD-LEVEL RECEIVER/TRANSDUCER	W6W5DZBW	08BNLTT	LEVEL TRANSDUCER BD->TEST	LOW VOLT BOX
BO24-1	BOARD-24 OUTPUT #1	W6W5DZBW	08BSO24AT	BD:SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO24-2	BOARD-24 OUTPUT #2	W6W5DZBW	08BSO24AT	BD:SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO24-3	BOARD-24 OUTPUT #3	W6W5DZBW	08BSO24AT	BD:SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BPB	BOARD-ARM9 PROCESSOR+DISPLAY	W6W5DZBW	08BHA9D4T	ASSY:ARM9 PROC+8.4 OPTREX DSP-TESTED	PROCESSOR BOX
BSP	BOARD-SPEED SENSING	W6W5DZVP	08BNDSRBT	BD:SAFETY ROTATION SG 1MR-TEST	LOW VOLT BOX
CB	**>>CIRCUIT BREAKERS**				
CB1	CIRCUIT BREAKER- WASH MTR HIGH VOLT	W6W5DZMTA	09FC032CAA	IEC MINI CIR.BREAK 32A 480V3P	HIGH VOLT BOX
CB1	CIRCUIT BREAKER- WASH MTR LOW VOLT	W6W5DZMTA	09FC050CAA	IEC MINI CIR.BREAK 50A 480V3P	HIGH VOLT BOX
CB2	CIRCUIT BREAKER- AUTOSPOT	W6W5DZMTA	09FC016CAA	IEC MINI CIR.BREAK 16A 480V3P	HIGH VOLT BOX
CD	**>>RELAY-TIME DELAY**				
CDEXN	DELAY-EXTRACT HAS ENDED	W6W5DZSPA	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	LOW VOLT BOX
CDS+N	DELAY-3-WIRE DISABLE	W6W5DSSP	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	LOW VOLT BOX
CDS+N	DELAY-3-WIRE DISABLE	W6W5DZSPA	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	LOW VOLT BOX
CR	**>>RELAY-PILOT OR CONTROL**				
CRAS	RELAY-ENABLE JOG OR AUTOSPOT	W6W5DSS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRASA	RELAY-AUTOSPOT ENABLED	W6W5DZASA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX

COMPONENT PARTS LIST

NUMBER	THIS COMPONENT	THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
CRASB	RELAY-ENABLE RECOGNIZE SLOW	W6W5DZASA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRASH	RELAY-AUTOSPOT DESIRED	W6W5DZASA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRASHA	RELAY ENABLE INCH/AUTOSPOT	W6W5DZVP**B**	09C024D37	4PDT "KH" 110/120V	INVERTER BOX
CRASI	RELAY-AUTOSPOT DESIRED	W6W5DZASA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRASJ	RELAY-INCH NOT AUTOSPOT	W6W5DZASA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRASL	RELAY-RECOGNIZE SLOW	W6W5DZASA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRASM	RELAY-RECOGNIZE SLOW	W6W5DZASA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRASS	RELAY-AUTOSPOT STOP	W6W5DZASA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRASS	RELAY-AUTOSPOT STOP	W6W5DZS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRAST	RELAY-AUTOSPOT STOP	W6W5DZASA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRC01	RELAY-CHEM INTERPERT #1	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC02	RELAY-CHEM INTERPERT #2	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC03	RELAY-CHEM INTERPERT #3	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC04	RELAY-CHEM INTERPERT #4	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC05	RELAY-CHEM INTERPERT #5	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC06	RELAY-CHEM INTERPERT #6	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC07	RELAY-CHEM INTERPERT #7	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC08	RELAY-CHEM INTERPERT #8	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC09	RELAY-CHEM INTERPERT #9	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC10	RELAY-CHEM INTERPERT #10	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC11	RELAY-CHEM INTERPERT #11	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC12	RELAY-CHEM INTERPERT #12	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC13	RELAY-CHEM INTERPERT #13	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC14	RELAY-CHEM INTERPERT #14	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC15	RELAY-CHEM INTERPERT #15	W6W5DZCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRDL	RELAY-OPEN DOOR	W6W5DZS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRDL	RELAY-OPEN DOOR	W6W5DZS+A	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRPLA	RELAY-DOOR LATCH	W6W5DZSP	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRPLA	RELAY-DOOR LATCH	W6W5ZSSPA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRS+	RELAY-START 3-WIRE	W6W5DZS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRS+	RELAY-START 3-WIRE	W6W5ZSS+A	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRS+S	RELAY-START 3-WIRE	W6W5DZS+A	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRSP	RELAY-SPEED	W6W5DZSPA	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX

COMPONENT PARTS LIST

W6W5DZPL/2025502N

NUMBER	THIS COMPONENT	THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
CRWA	CONTACTOR-CCW WASH 72044 <250V	W6W5DZMCA	09C024D37	4PDT MINITURE RELAY PT W/LED 120VAC	HIGH VOLT BX
CRWC	CONTACTOR-CCW WASH 72044 <250V	W6W5DZMCA	09C024D37	4PDT MINITURE RELAY PT W/LED 120VAC	HIGH VOLT BX
CS	**>>CONTACTOR-MOTOR STARTER**				
CSDR	CONTACTOR-DRAIN MOTOR >250V	W6W5DZMC	09MC08D337	23A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSDR	CONTACTOR-DRAIN MOTOR >250V	W6W5DZMCA	09MC08D337	23A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSDR	CONTACTOR-DRAIN MOTOR <250V	W6W5DZMC	09MC08E337	30A 3P MCS CONT NR 120B5/6	
CSDR	CONTACTOR-DRAIN MOTOR <250V	W6W5DZMCA	09MC08E337	30A 3P MCS CONT NR 120B5/6	
CSE1	CONTACTOR-LOW EXTRACT MTR>250V	W6W5DZMC	09MC08G337	37A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSE1	CONTACTOR-LOW EXTRACT MTR>250V	W6W5DZMCA	09MC08G337	37A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSE1	CONTACTOR-LOW EXTRACT MTR<250V	W6W5DZMC	09MC08L337	60A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSE1	CONTACTOR-LOW EXTRACT MTR<250V	W6W5DZMCA	09MC08L337	60A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSE2	CONTACTOR-HIGH EXTRACT MTR>250V	W6W5DZMC	09MC08L337	60A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSE2	CONTACTOR-HIGH EXTRACT MTR>250V	W6W5DZMCA	09MC08L337	60A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSE2	CONTACTOR-HIGH EXTRACT MTR<250V	W6W5DZMC	09MC08N337	72A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSE2	CONTACTOR-HIGH EXTRACT MTR<250V	W6W5DZMCA	09MC08N337	72A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSJA	CONTACTOR-CCW JOG	W6W5DZMC	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSJA	CONTACTOR-CCW JOG	W6W5DZMCA	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSJC	CONTACTOR-CW JOG	W6W5DZMC	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSJC	CONTACTOR-CW JOG	W6W5DZMCA	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSVS	CONTACTOR-INVERTER 60044 <250V	W6W5DZS+	09MC08T337	115A 3P MCS CONT. NR 120V5/6	HIGH VOLT BX
CSVS	CONTACTOR-INVERTER 42044 >250V	W6W5DZS+	09MC08G337	37A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSVS	CONTACTOR-INVERTER 60044 >250V	W6W5DZS+	09MC08L337	60A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSVS	CONTACTOR-INVERTER 42044 <250V	W6W5DZS+	09MC08N337	72A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSWA	CONTACTOR-CCW WASH 72044 >250V	W6W5DZMC	09MR08E337	30A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSWA	CONTACTOR-CCW WASH 72044 <250V	W6W5DZMC	09MR08L337	60A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSWC	CONTACTOR-CCW WASH 72044 >250V	W6W5DZMC	09MR08E337	30A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSWC	CONTACTOR-CCW WASH 72044 <250V	W6W5DZMC	09MR08L337	60A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
EB	**>>BUZZER OR AUDIBLE SIGNAL**				
EBSG	BUZZER-SIGNAL AUDIBLE	W6W5DZS+	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	SWITCH PANEL
EBSG	BUZZER-SIGNAL AUDIBLE	W6W5DZS+A	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	SWITCH PANEL
EF	**>>FUSES**				
EF16X	FUSE-16VAC X BUSS	W6W5DZMC	09FF002AMG	FUSE BK/MDL 2 AMP 250V BUSS	HIGH VOLT BX
EF16X	FUSE-16VAC X BUSS	W6W5DZMCA	09FF002AMG	FUSE BK/MDL 2 AMP 250V BUSS	HIGH VOLT BX

COMPONENT PARTS LIST

NUMBER	THIS COMPONENT	THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
EF16Y	FUSE-16VAC Y BUSS	W6W5DZMC	09FF002AMG	FUSE BK/MDL 2 AMP 250V BUSS	HIGH VOLT BX
EF16Y	FUSE-16VAC Y BUSS	W6W5DZMCA	09FF002AMG	FUSE BK/MDL 2 AMP 250V BUSS	HIGH VOLT BX
EL	**>>LIGHT-PILOT OR INDICATOR**				
ELASI	LIGHT-POCKET SPOTTED	W6W5DZASA	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CYL SPOTTED PLT
ELPS	LIGHT-POCKET SPOTTED	W6W5DZAS	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CYL SPOTTED PLT
ELPS	LIGHT-POCKET SPOTTED	W6W5DZASB	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CYL SPOTTED PLT
ELPS	LIGHT-POCKET SPOTTED	W6W5DZASC	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CYL SPOTTED PLT
ELSG	LIGHT -SIGNAL	W6W5DZS+A	09J060WH37	LAMP 1/2" WH 120 TAB IDI1050QC4	SWITCH PANEL
ELSG	LIGHT -SIGNAL	W6W5ZSS+	09J060WH37	LAMP 1/2" WH 120 TAB IDI1050QC4	SWITCH PANEL
ELWVS	LIGHT-SPRAY DOWN	W6W5DSS+	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SWITCH PANEL
ELWVS	LIGHT-SPRAY DOWN	W6W5ZSS+A	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SWITCH PANEL
EM	**>>CLUTCH**				
EMAS	CLUTCH-AUTOSPOT	W6W5DZMC	54H164A	CLUTCH 12VDC MA-PM02B	AUTOSPOT MTR
EMAS	CLUTCH-AUTOSPOT	W6W5DZMCA	54H164A	CLUTCH 12VDC MA-PM02B	AUTOSPOT MTR
ES	**>>POWER SUPPLY-ELECTRONIC**				
ESPS	POWER SUPPLY-120V TO +12,-12,+5V	W6W5DSBW	08PSS3401T	40 WATT POWER SUPPLY TESTED	LOW VOLT BOX
ESPS2	POWER SUPPLY-120V TO +12	W6W5DSBW	08PSS2401T	PRW SUPY 40WATT 120/240V TO 12V TESTED	LOW VOLT BOX
ET	**>>>THERMAL OVER LOADS**				
ETAS (72MM)	OVERLOAD AUTOSPOT	W6W5DZMTA	09MTD0016T	EI PLUS OL RELAY 1.0-5.0A	HIGH VOLT BX
ETDR (72MM)	OVERLOAD-DRAIN MTR	W6W5DZMTA	09FTD0230T	E1 PLUS OL RELAY 20-100A	HIGH VOLT BX
ETE1 (72MM)	OVERLOAD-LOW EXTRACT MTR 346-600V	W6W5DZMTA	09MTD0121T	E1 PLUS OL RELAY 9-45A	HIGH VOLT BX
ETE1 (72MM)	OVERLOAD-LOW EXTRACT 200-240V	W6W5DZMTA	09FTD0230T	E1 PLUS OL RELAY 20-100A	HIGH VOLT BX
ETE2 (72MM)	OVERLOAD HIGH EXTRACT	W6W5DZMTA	09FTD0230T	E1 PLUS OL RELAY 20-100A	HIGH VOLT BX
ETVS (42SM)	OVERLOAD INVERTER MOTOR 200-240V	W6W5DZVP	09FTD0230T	E1 PLUS OL RELAY 20-100A	HIGH VOLT BX
ETVS (42SM)	OVERLOAD INVERTER MOTOR 346-600V	W6W5DZVP	09FTD0121T	E1 PLUS OL RELAY 9-45A	HIGH VOLT BX
ETVS (60SM)	OVERLOAD INVERTER MOTOR 200-240V	W6W5DZVPA	09FTD0230T	E1 PLUS OL RELAY 20-100A	HIGH VOLT BX
ETVS (60SM)	OVERLOAD INVERTER MOTOR 346-600V	W6W5DZVPA	09FTD0040T	OL RELAY 40-200A AB #193-EEJF	HIGH VOLT BX
ETWA (72MM)	OVERLOAD-WASH MTR 200-240V	W6W5DZMTA	09FTD0230T	E1 PLUS OL RELAY 20-100A	HIGH VOLT BX
ETWA (72MM)	OVERLOAD-WASH MTR 346-600V	W6W5DZMTA	09MTD0121T	E1 PLUS OL RELAY 9-45A	HIGH VOLT BX
EX	**>>TRANSFORMERS**				
EX37	TRANSFORMER-208/240>120VAC	W6W5SZPS	09UA025A37	XFMR 200-240PRI/120SEC 250V5/6	HIGH VOLT BX
EX37	TRANSFORMER-380/480>120VAC	W6W5SZPS	09UA025AAB	XFMR 380-480PRI/120-240SEC250V	HIGH VOLT BX
EX37	TRANSFORMER-600>120VAC	W6W5SZPS	09UA025A98	XFMR 600V PRI/120 SEC/250VA	HIGH VOLT BX

COMPONENT PARTS LIST

W6W5DZPL/2025502N

NUMBER	THIS COMPONENT	THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
EX96A	TRANSFORMER-600V-480V	W6W5DZMT6	09US050A96	XFMR 1PH 5KVA 240/280 X 120/240	SIDE OF MACHINE
EX96B	TRANSFORMER-600V-480V	W6W5DZMT6	09US050A96	XFMR 1PH 5KVA 240/280 X 120/240	SIDE OF MACHINE
MS	**>>>MOTOR SAVER**				
MS	MOTOR SAVER	W6W5DZVP	09X370	VOLT.MONT-MTR SAVER 190-480VAC	HIGH VOLT BOX
MS	MOTOR SAVER	W6W5DZVPA	09X370	VOLT.MONT-MTR SAVER 190-480VAC	HIGH VOLT BOX
MT	**>>MOTORS**				
MTAS	MOTOR-72044 AUTOSPOT 200-240V	W6W5DZMTA	39D250ABN	3/4HP 230/460V3P60+PROT=ASPT	TOP OF MACHINE
MTAS	MOTOR-72044 AUTOSPOT 600V	W6W5DZMTA	39D250ABX	3/4HP 575V3P60C +PROT =ASPT	TOP OF MACHINE
MTD	MOTOR-42044 DRIVE	W6W5DZVP	39G852AATD	50HP 6P 230/460/60	TOP OF MACHINE
MTD	MOTOR 60044 DRIVE	W6W5DZVPA	39G8A0AAT	50HP 6P 230/460/60	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 600V, 60HZ	W6W5DZMTA	39L120AAX	7.5HP 575V3P60C DR=7244U	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 220V, 60HZ	W6W5DZMTA	39L120AAM	7.5HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 346V, 50HZ	W6W5DZMTA	39L120AAM	7.5HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 380V, 60HZ	W6W5DZMTA	39L120AAM	7.5HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 400-415V, 50HZ	W6W5DZMTA	39L120AAM	7.5HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 440V, 60HZ	W6W5DZMTA	39L120AAM	7.5HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 200V, 50/60HZ	W6W5DZMTA	39L120AAM	7.5HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 208V 60HZ	W6W5DZMTA	39L120AAH	7.5HP ODP 208/240/6+220/380	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 220V 50HZ	W6W5DZMTA	39L120AAT	7.5HP ODP 240/480/60+220/380	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 240V, 60HZ	W6W5DZMTA	39L120AAT	7.5HP ODP 240/480/60+220/380	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 380V, 50HZ	W6W5DZMTA	39L120AAT	7.5HP ODP 240/480/60+220/380	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 440V, 50HZ	W6W5DZMTA	39L120AAT	7.5HP ODP 240/480/60+220/380	TOP OF MACHINE
MTDR	MOTOR-72044 DRAIN 480V, 60HZ	W6W5DZMTA	39L120AAT	7.5HP ODP 240/480/60+220/380	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 200V, 50/60HZ	W6W5DZMTA	39H215CM	15HP FAB 200/346/400/50+	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 220V, 60HZ	W6W5DZMTA	39H215CM	15HP FAB 200/346/400/50+	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 346V, 50HZ	W6W5DZMTA	39H215CM	15HP FAB 200/346/400/50+	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 380V, 60HZ	W6W5DZMTA	39H215CM	15HP FAB 200/346/400/50+	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 400-415V, 50HZ	W6W5DZMTA	39H215CM	15HP FAB 200/346/400/50+	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 440V, 60HZ	W6W5DZMTA	39H215CM	15HP FAB 200/346/400/50+	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 208V, 60HZ	W6W5DZMTA	39H215CH	15HP FAB 208/240/6+220/380	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 220V, 50HZ	W6W5DZMTA	39H215CT	15HP FAB 240/480/60+220/380	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 240V, 60HZ	W6W5DZMTA	39H215CT	15HP FAB 240/480/60+220/380	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 380V, 50HZ	W6W5DZMTA	39H215CT	15HP FAB 240/480/60+220/380	TOP OF MACHINE

COMPONENT PARTS LIST

NUMBER	THIS COMPONENT	THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
MTE1	MOTOR-72044 LOW EXTRACT 440V, 50HZ	W6W5DZMTA	39H215CT	15HP FAB 240/480/60+220/380	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 480V, 60HZ	W6W5DZMTA	39H215CT	15HP FAB 240/480/60+220/380	TOP OF MACHINE
MTE1	MOTOR-72044 LOW EXTRACT 600V, 60HZ	W6W5DZMTA	39H215CX	15HP FAB 600/60	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT 200V, 50/60HZ	W6W5DZMTA	39H314BAM	20HP FAB 286F 200/346/400+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT 220V, 60HZ	W6W5DZMTA	39H314BAM	20HP FAB 286F 200/346/400+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT	W6W5DZMTA	39H314BAM	20HP FAB 286F 200/346/400+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT	W6W5DZMTA	39H314BAM	20HP FAB 286F 200/346/400+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT	W6W5DZMTA	39H314BAM	20HP FAB 286F 200/346/400+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT	W6W5DZMTA	39H314BAM	20HP FAB 286F 200/346/400+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT 208V, 60HZ	W6W5DZMTA	39H314BAH	20HP FAB 286F 208/240/60+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT 220V, 50HZ	W6W5DZMTA	39H314BAT	20HP FAB 286F 240/480/380+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT	W6W5DZMTA	39H314BAT	20HP FAB 286F 240/480/380+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT	W6W5DZMTA	39H314BAT	20HP FAB 286F 240/480/380+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT	W6W5DZMTA	39H314BAT	20HP FAB 286F 240/480/380+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT	W6W5DZMTA	39H314BAT	20HP FAB 286F 240/480/380+	TOP OF MACHINE
MTE2	MOTOR-72044 HIGH EXTRACT	W6W5DZMTA	39H314BAX	20HP FAB 286F 575V3P60C	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 208V, 60HZ	W6W5DZMTA	39L210ABH	10HP 0DP 208/240/6+220/380	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 200V, 50/60HZ	W6W5DZMTA	39L210ABM	10HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 220V, 60HZ	W6W5DZMTA	39L210ABM	10HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 346V, 50HZ	W6W5DZMTA	39L210ABM	10HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 380V, 60HZ	W6W5DZMTA	39L210ABM	10HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 400-415V, 50HZ	W6W5DZMTA	39L210ABM	10HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 440V, 60HZ	W6W5DZMTA	39L210ABM	10HP 4P ODP 200/346/400/50+	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 600V, 60HZ	W6W5DZMTA	39L210ABX	10HP 575V3P60C 256U WA7244	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 220V, 50HZ	W6W5DZMTA	39L210ABT	10HP ODP 240/480/60+220/380	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 240V, 60HZ	W6W5DZMTA	39L210ABT	10HP ODP 240/480/60+220/380	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 380V, 50HZ	W6W5DZMTA	39L210ABT	10HP ODP 240/480/60+220/380	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 440V, 50HZ	W6W5DZMTA	39L210ABT	10HP ODP 240/480/60+220/380	TOP OF MACHINE
MTWA	MOTOR-72044 WASH 480V, 60HZ	W6W5DZMTA	39L210ABT	10HP ODP 240/480/60+220/380	TOP OF MACHINE
MV	**>>MOTOR POWER INVERTERS**				
MVDBM	BRAKING MODULE 60044WP2/3 >250V	W6W5DZVPA	09MVBT50HC	BRAKE MODULE-OPEN CHASSIS	INVERTER BOX
MVDBM	BRAKING MODULE 60044WP2/3 <250V	W6W5DZVPA	09MVBT25LC	BRAKEMODULE OPEN CHASIS INVERT	INVERTER BOX
MVDBR	RESISTOR-BRAKE 60044	W6W5DZVPA	09MV011RET	RESISTOR 11 OHM 1000 WATT	INVERTER BOX

COMPONENT PARTS LIST

NUMBER	THIS COMPONENT	THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
MVDBR	RESISTOR-BRAKE 42044	W6W5DZVP	09MV020RES	RESISTOR 20 OHM 300WATT	INVERTER BOX
MVDRB	RESISTOR 72044 DYNAMIC BRAKE	W6W5DZVP**B**	09MV050REV	RESISTOR 50 OHM 225W #FVT200-50	INVERTER BOX
MVINV	INVERTER-60044 <250V	W6W5DZVPA	09MWC18074	A1000 INVERTER 180AMPS	INVERTER BOX
MVINV	INVERTER-42044 <250V	W6W5DZVP	09MWC07574	A1000 INVERTER 75 AMP	INVERTER BOX
MVINV	INVERTER-60044 <250V	W6W5DZVPA	09MWC09196	A1000 INVERTER 91 AMP	INVERTER BOX
MVINV	INVERTER-42044 <250V	W6W5DZVP	09MWA03996	INVERTER 39AMPS 480V F7	INVERTER BOX
MVLF	FILTER-INVERTER LINE	W6W5DZVP	09MVFILTR1	RFI NOISE INPUT FILTER	INVERTER BOX
MVRCT	REACTOR-INVERTER 60044 <250V	W6W5DZVPA	09MX600A74	REACTOR 150HP 230V 200A	INVERTER BOX
MVRCT	REACTOR-INVERTER 72044 <250V	W6W5DZVPB	09MX600A74	REACTOR 150HP 230V 200A	INVERTER BOX
MVRCT	REACTOR-INVERTER 42044 <250V	W6W5DZVP	09MX300A74	REACTOR 25/30HP 230V 80A	INVERTER BOX
MVRCT	REACTOR-INVERTER 42044 >250V	W6W5DZVP	09MX300A96	REACTOR 30HP 460V 45A	INVERTER BOX
MVRCT	REACTOR-INVERTER 60044 >250V	W6W5DZVPA	09MX600A96	REACTOR 50/60HP 460V 80A	INVERTER BOX
MVRCT	REACTOR-INVERTER72044 >250V	W6W5DZVP**B**	09MX600A96	REACTOR 50/60HP 460V 80A	INVERTER BOX
NUMBER	**THIS COMPONENT**	**THIS COMPONENT**	**MILNOR P/N**	**DESCRIPTION**	**LOCATION**
PX	**>>PROXINITY SWITCH**				
PX1	PROX SW-POCKET 1 SPOTTED	W6W5DZAS	09RPS07RDS	7MM SENSING RECTANGULAR SHLD NPN	MACHINE REAR
PX1	PROX SW-POCKET 1 SPOTTED	W6W5DZASB1	09RPS07RES	7MM SENSING RECTANGULAR SHLD PNP	MACHINE REAR
PX1	PROX SW-POCKET 1 SPOTTED	W6W5DZASC	09RPS07RES	7MM SENSING RECTANGULAR SHLD PNP	MACHINE REAR
PX2	PROX SW-POCKET 1 & 2 SPOTTED	W6W5DZAS	09RPS07RDS	7MM SENSING RECTANGULAR SHLD NPN	MACHINE REAR
PX2	PROX SW-POCKET 1 & 2 SPOTTED	W6W5DZASB1	09RPS07RES	7MM SENSING RECTANGULAR SHLD PNP	MACHINE REAR
PX2	PROX SW-POCKET 1 & 2 SPOTTED	W6W5DZASC	09RPS07RDS	7MM SENSING RECTANGULAR SHLD NPN	MACHINE REAR
PX4	PROX SW-PCKT 2 SPTD,(PKT 3 SPTD FOR WR3	W6W5DZAS	09RPS07RDS	7MM SENSING RECTANGULAR SHLD NPN	MACHINE REAR
PX4	PROX SW-PCKT 2 SPTD,(PKT 3 SPTD FOR WR3	W6W5DZASB1	09RPS07RES	7MM SENSING RECTANGULAR SHLD PNP	MACHINE REAR
PX4	PROX SW-PCKT 2 SPOTTED	W6W5DZAS	09RPS07RDS	7MM SENSING RECTANGULAR SHLD NPN	MACHINE REAR
PXSP	PROX SWITCH-SPEED	W6W5DZVP	09RPS07RDS	7MM SENSING RECTANGULAR SHLD	MACHINE REAR
SCAS1	SWITCH-72044POCKET 1 SPOTTED	W6W5DZASA	09R015	ACTUATOR MICRO SWITCH #JV-5	MACHINE REAR
SCAS2	SWITCH-72044POCKET 2 SPOTTED	W6W5DZASA	09R015	ACTUATOR MICRO SWITCH #JV-5	MACHINE REAR
SCAS3	SWITCH-72044POCKET 3 SPOTTED	W6W5DZASA	09R015	ACTUATOR MICRO SWITCH #JV-5	MACHINE REAR
SH	**>>SWITCH-HAND OPERATED**				
SHAS	SWITCH-AUTOSPOT POCKET SELECT	W6W5DZVP	09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	SWITCH PANEL
SHAS	SWITCH-AUTOSPOT POCKET SELECT	W6W5DZVPA	09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	SWITCH PANEL
SHAS	SWITCH-AUTOSPOT POCKET SELECT	W6W5DZVPC	09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W6W5DZS+	09N405PB11	SWASS PBBK1NO/1NC	SWITCH PANEL

COMPONENT PARTS LIST

NUMBER	THIS COMPONENT	THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
SHDO	SWITCH-DOOR OPEN	W6W5DZS+A	09N405PB11	SWASS PBBK1NO/1NC	SWITCH PANEL
SHSMA	SWITCH-MASTER	W6W5DZSP	09N405M210	SWASS M2W 1NO	SWITCH PANEL
SHSMA	SWITCH-MASTER	W6W5DZSPA	09N405M210	SWASS M2W 1NO	SWITCH PANEL
SHSOE	SWITCH-EMERGENCY STOP	W6W5DZS+	09N505	SW ASSY EMER STOP	SWITCH PANEL
SHSOE	SWITCH-EMERGENCY STOP	W6W5DZS+A	09N505	SW ASSY EMER STOP	SWITCH PANEL
SHWCF	SWITCH-CHEM #1 FLUSH	W6W5DZCF	09N405S320	SWASS S3W 2NO	5 COMP. SUPPLY
SHWJ	SWITCH-JOG	W6W5DZASA	09N405S320	SWASS S3W 2NO	SWITCH PANEL
SM	**>>SWITCH-MECHANICAL OPERATED**				
SMD2	SWITCH-SECONDARY DOOR	W6W5DZS+	09RM01212S	CAPSW 12FT 180DEG ROLLER SILVER	DOOR
SMD2	SWITCH-SECONDARY DOOR	W6W5DZS+A	09RM01212S	CAPSW 12FT 180DEG ROLLER SILVER	DOOR
SMERB	SWITCH-EXCURSION	W6W5DSS+	09R008A	MICSW SPDT PAINTED BZE6-RN 01	SIDE OF MACHINE
SMERB	SWITCH-EXCURSION	W6W5DZS+A	09R008A	MICSW SPDT PAINTED BZE6-RN 01	SIDE OF MACHINE
SMPL1	SWITCH-1ST DOOR LATCHED LEFT	W6W5DZSP	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR ASSEMBY
SMPL1	SWITCH-1ST DOOR LATCHED LEFT	W6W5DZSPA	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR ASSEMBY
SMPL2	SWITCH-2ND DOOR LATCHED RIGHT	W6W5DZSP	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR ASSEMBY
SMPL2	SWITCH-2ND DOOR LATCHED RIGHT	W6W5DZSPA	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR ASSEMBY
SMWVB	SWITCH-MACHINE VIBRATION	W6W5DZS+	09R020	SWITCH NC VIBR #WZ-2RW84429-P52	LOW VOLT BOX
SMWVB	SWITCH-MACHINE VIBRATION	W6W5DZS+A	09R020	SWITCH NC VIBR #WZ-2RW84429-P52	LOW VOLT BOX
SP	**>>SWITCH-PRESSURE OPERATED**				
SPBR	PRESSURE SW-BRAKE	W6W5DZI1	09N082A	PRESSW NASON CLOSE @ 62 LB.	AIR VALVE BOX
ST	**>>SWITCH-TEMPERATURE**				
STDB	THERMOSTAT-DYNAMIC BRAKING RESISTOR	W6W5DZS+	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST
TP	**>>>TEMPERATURE PROBE**				
TP1	PROBE-TEMPERATURE	W6W5DZBW	30R0043PB	TEMPERATURE PROBE ASSY=BRASS	BOTTOM OF CYL.
VE	**>>VALVE-ELECTRIC OPERATED**				
VEB2R	VALVE-2ND BRAKE	W6W5DZSP	96R302A37	1/8"AIR PILOT 3WANO 120V50/60C	AIR VALVE BX
VEB2R	VALVE-2ND BRAKE	W6W5DZSPA	96R302A37	1/8"AIR PILOT 3WANO 120V50/60C	AIR VALVE BX
VEC01	VALVE-CHEMICAL #1 FLUSH	W6W5DZCF	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC02	VALVE-CHEMICAL #2 FLUSH	W6W5DZCF	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC03	VALVE-CHEMICAL #3 FLUSH 60044	W6W5DZCF	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC03	VALVE-CHEMICAL #3 FLUSH 42044	W6W5DZCF	96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC04	VALVE-CHEMICAL #4 FLUSH 60044	W6W5DZCF	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC04	VALVE-CHEMICAL #4 FLUSH 42044	W6W5DZCF	96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC

COMPONENT PARTS LIST

NUMBER	THIS COMPONENT	THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
VEC05	VALVE-CHEMICAL #5 FLUSH 60044	W6W5DZCF	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC05	VALVE-CHEMICAL #5 FLUSH 42044	W6W5DZCF	96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC06	VALVE-CHEMICAL #6 FLUSH	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VEC07	VALVE-CHEMICAL #7 FLUSH	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VEC08	VALVE-CHEMICAL #8 FLUSH	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VEC09	VALVE-CHEMICAL #9 FLUSH	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VEC10	VALVE-CHEMICAL #10 FLUSH	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VEC11	VALVE-CHEMICAL #11 FLUSH	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VEC12	VALVE-CHEMICAL #12 FLUSH	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VEC13	VALVE-CHEMICAL #13 FLUSH	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VEC14	VALVE-CHEMICAL #14 FLUSH	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VEC15	VALVE-CHEMICAL #15 FLUSH	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VECFM	VALVE-FLUSH MANIFOLD	W6W5DZCX	MESSAGE EW	SUPPLIED BY CUSTOMER	SUPPLY VLVST
VEDRR	VALVE-DRAIN TO REUSE	W6W5DZEV	96R302B37	1/8"AIRPILOT 3W NO 120V50/60	AIR VALVE BOX
VEDRR	VALVE-DRAIN TO REUSE	W6W5DZEVA	96R302B37	1/8"AIRPILOT 3W NO 120V50/60	AIR VALVE BOX
VEDRS	VALVE-DRAIN TO SEWER	W6W5DZEV	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEDRS	VALVE-DRAIN TO SEWER	W6W5DZEVA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEPL	VALVE-DOOR LATCH	W6W5DZSP	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEPL	VALVE-DOOR LATCH	W6W5DZSPA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEPPO	VALVE-DOOR SEAL	W6W5DZS+	96R302B37	1/8"AIRPILOT 3W NO 120V50/60	AIR VALVE BOX
VEPPO	VALVE-DOOR SEAL	W6W5DZS+A	96R302B37	1/8"AIRPILOT 3W NO 120V50/60	AIR VALVE BOX
VESC	VALVE-SPRAY	W6W5DZCF	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VESTM	VALVE-STEAM	W6W5DZEV	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VESTM	VALVE-STEAM	W6W5DZEVA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VETCW	VALVE-COOLDOWN	W6W5DZEV	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VETCW	VALVE-COOLDOWN	W6W5DZEVA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWBR	VALVE BRAKE RELEASE	W6W5DZEV	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWBR	VALVE BRAKE RELEASE	W6W5DZEVA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWCL	VALVE CLUTCH	W6W5DZSPA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWCLA	VALVE CLUTCH VENT	W6W5DZSPA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWPD	VALVE PUSH DOWN	W6W5DZSP	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWPD	VALVE PUSH DOWN	W6W5DZSPA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWS	VALVE-SPRAY DOWN	W6W5DZS+	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX

COMPONENT PARTS LIST

NUMBER	THIS COMPONENT	THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
VEWS	VALVE-SPRAY DOWN	W6W5DZS+A	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWSS	VALVE-SEAL SUCKER	W6W5DZSP	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWSS	VALVE-SEAL SUCKER	W6W5DZSPA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWVC	VALVE-COLD WATER IINLET	W6W5DZEV	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWVC	VALVE-COLD WATER IINLET	W6W5DZEVA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWVH	VALVE-HOT WATER INLET	W6W5DZEV	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWVH	VALVE-HOT WATER INLET	W6W5DZEVA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWVX	VALVE-EXTRA WATER INLET	W6W5DZEV	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
VEWVX	VALVE-EXTRA WATER INLET	W6W5DZEVA	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BOX
WF	**>>> WATER METERS**				
WFM	METER-INLET WATER	W6W5DZBW	30F515	FLOW SENSOR SIGNET P51530-P0	WATER INLET
XF	**>>> RECTIFIERS**				
ZFAS	RECTIFIER-AUTOSPOT CLUTCH	W6W5DZMC	09A020EBR	RECTIFIER(EBR)15A/600PIV	HIGH VOLT BOX
ZFAS	RECTIFIER-AUTOSPOT CLUTCH	W6W5DZMCA	09A020EBR	RECTIFIER(EBR)15A/600PIV	HIGH VOLT BOX

PELLERIN MILNOR CORPORATION
LIMITED STANDARD WARRANTY

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

Providing we receive written notification of a warranted defect within 30 days of its discovery, we will—at our option—repair or replace the defective part or parts, EX Factory (labor and freight specifically NOT included). We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is 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.

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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).

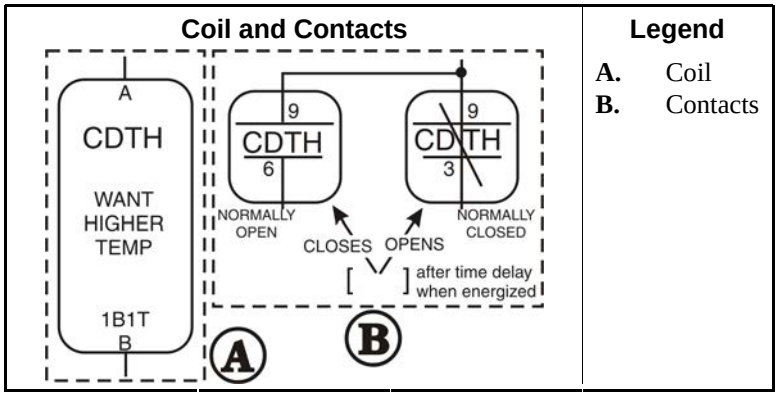
BA=Printed Circuit Board—Insulating substrate on which a thin pattern of copper conductors has been formed to connect discrete electronic components also mounted on the board.

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)

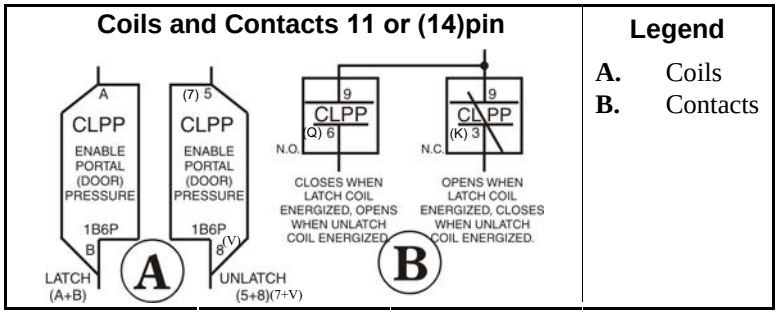
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



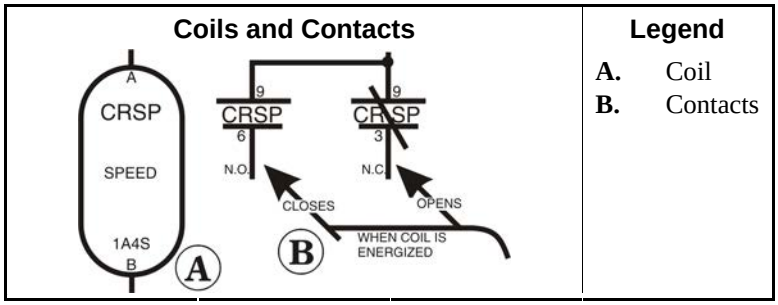
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



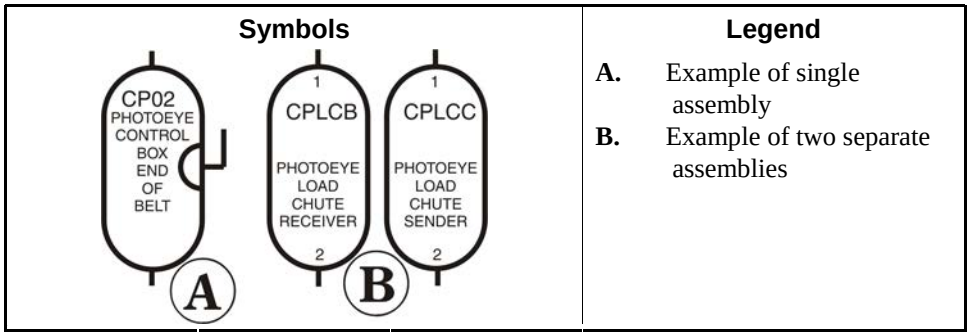
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



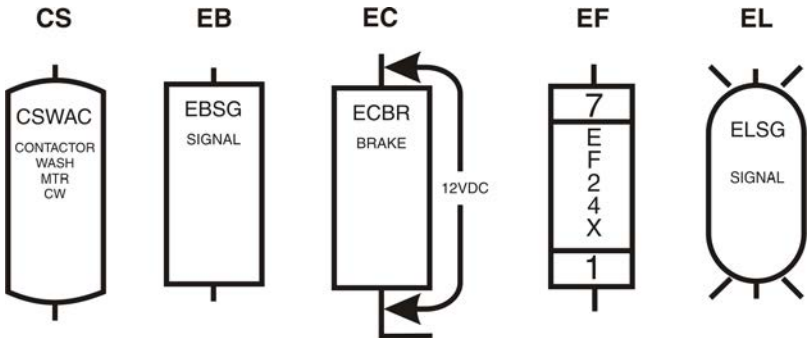
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these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

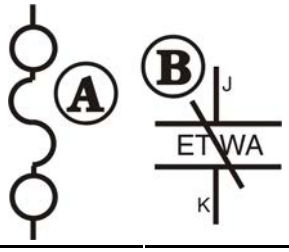
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

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.

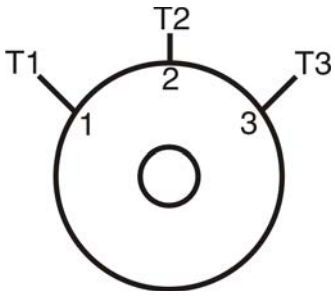
KB=Keyboard—Device similar to a typewriter for making entries to a computer.

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)

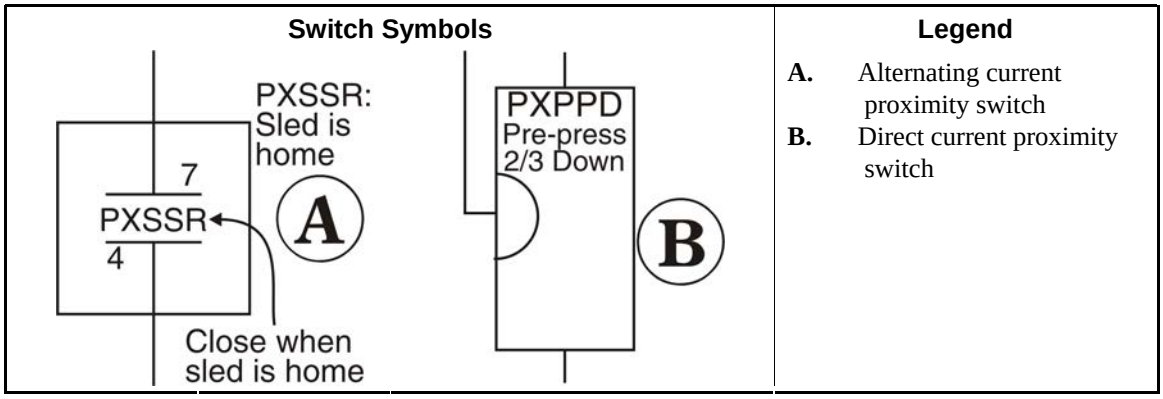


MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the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

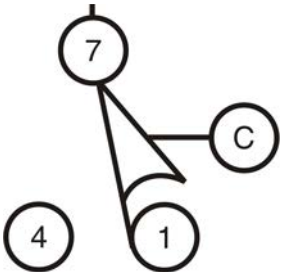
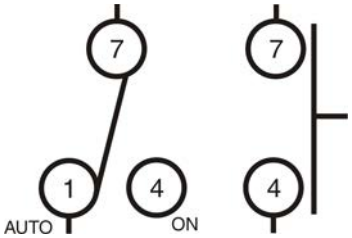


Figure 12: Hand Operated Switch (SH)



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)

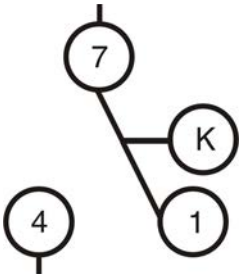
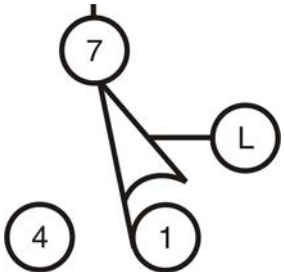


Figure 14: Level Switch (SL)



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)

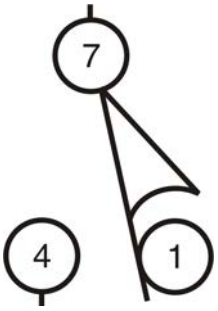
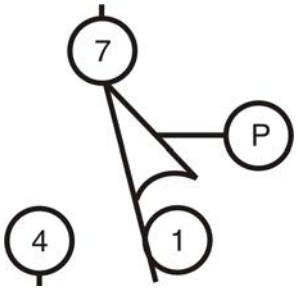


Figure 16: Pressure Switch (SP)



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)

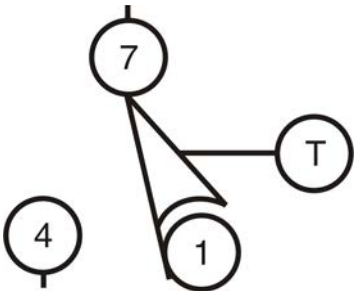
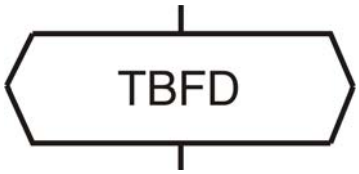


Figure 18: Terminal Board (TB)



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)

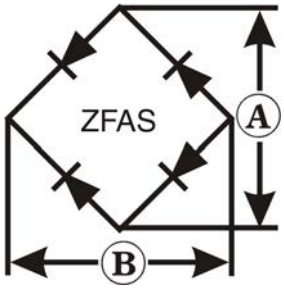
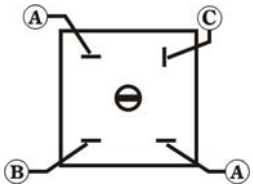
Component Symbol	Legend
	**A.** Alternating current input **B.** Direct current output

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.

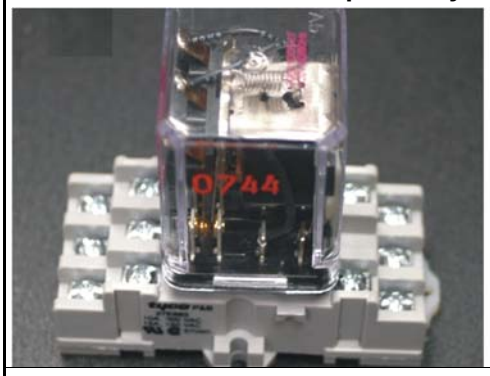
2. Component Terminal Numbering

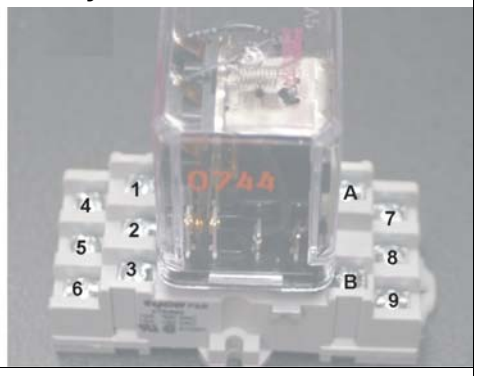
CAUTION 1: Risk of Mis-wiring—Due to electrical component manufacturing inconsistencies, the pin numbers imprinted on components such as connectors and relay bases used on Milnor machines often do not correspond to the pin numbers shown in the schematics.

- 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.

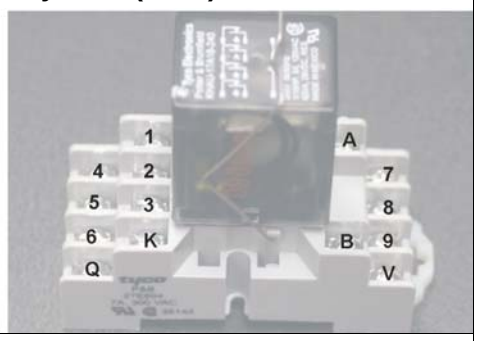
Figure 22: Plug-in Relays

11-pin Relay with Grey Base

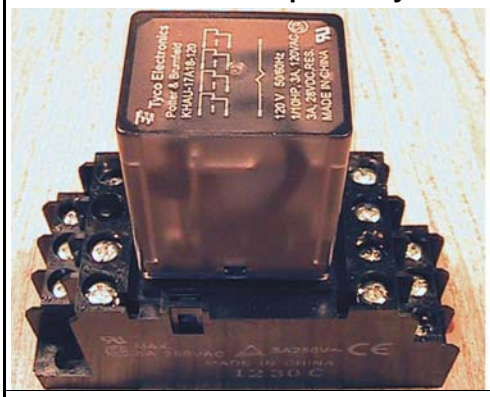


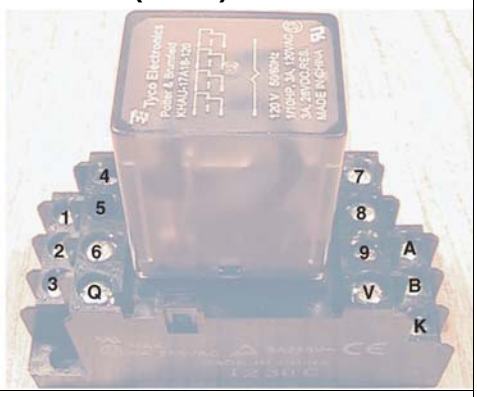


14-pin Relay with Grey Base (older)

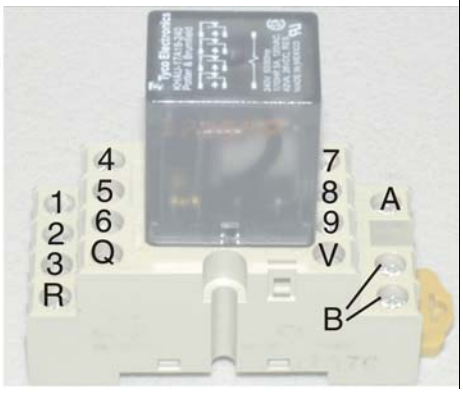


14-pin Relay with Black Base (newer)





14-pin Relay with Beige Base (rare)



Legend

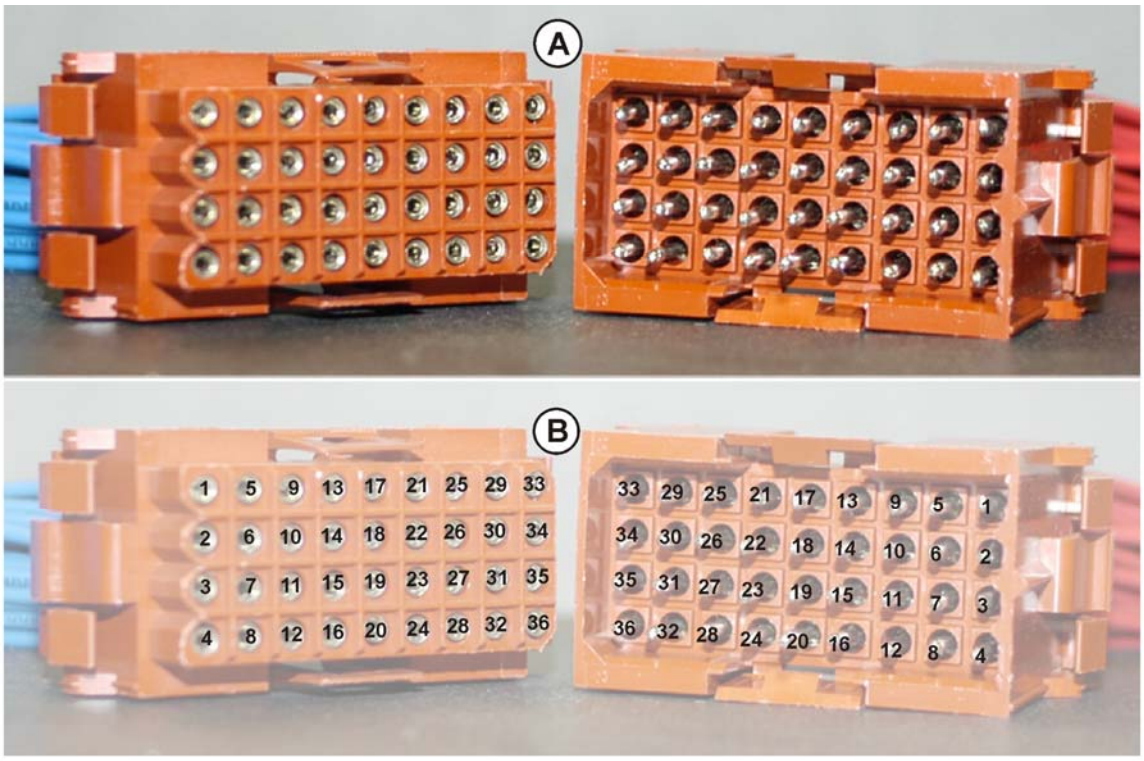
Left. View of relay and base

Right. Same view, showing pin numbers

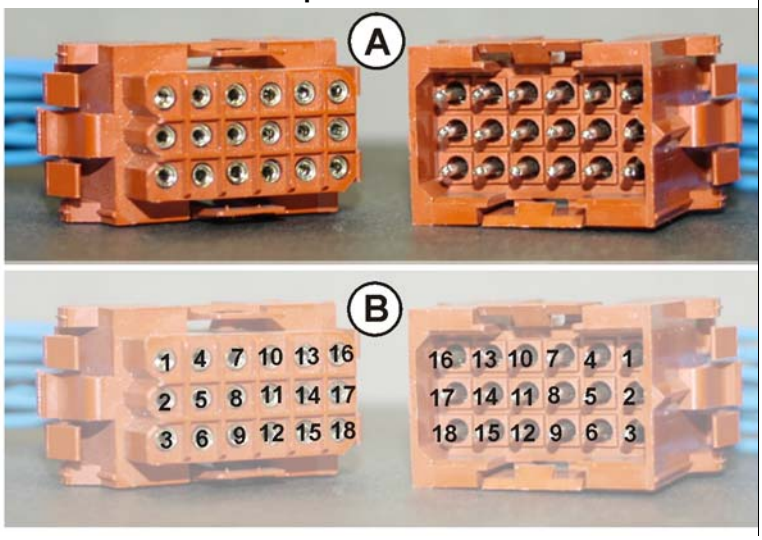
Note 3: Relay functional names ending with the letter "M" (e.g., CRxxM) are not discrete components but are a component of a printed circuit board. They are usually not individually replaceable.

Figure 23: AMP Connector Pin Locations

36-pin Connector



18-pin Connector

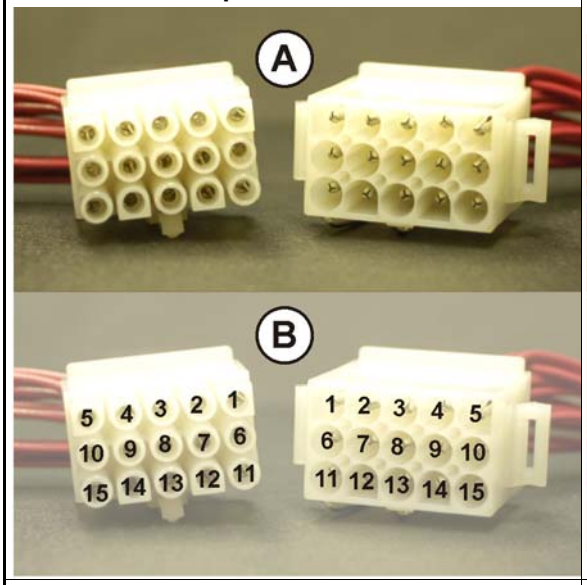


Legend

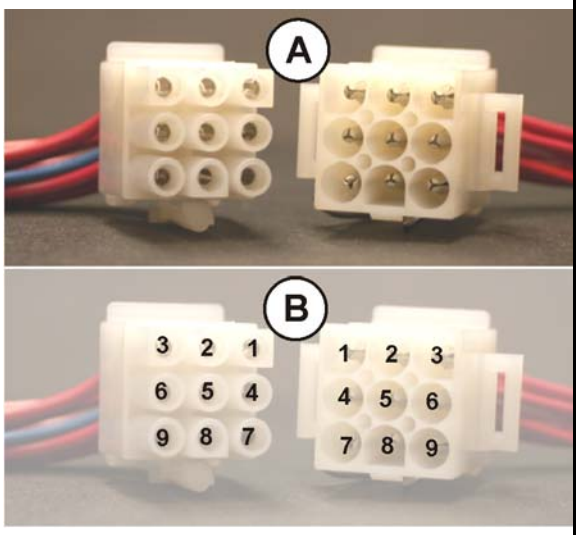
A. View of mating halves of connector
B. Same view, showing assigned pin numbers

Figure 24: Molex Connector Pin Locations

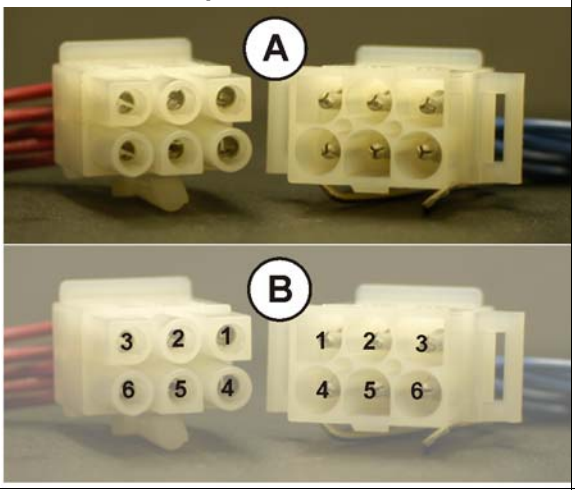
15-pin Connector



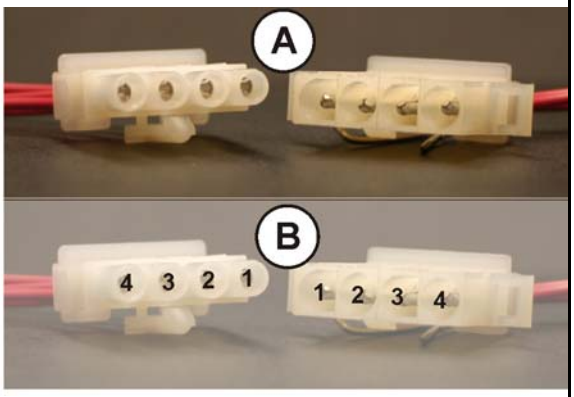
9-pin Connector



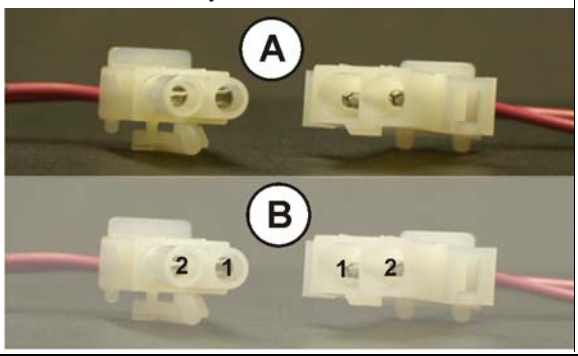
6-pin Connector



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

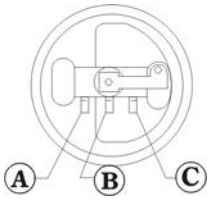
Component	Legend
	**A.** Contact 1—Normally open **B.** Contact 2—Normally closed **C.** Contact 3—Common

Figure 26: Toggle Switch

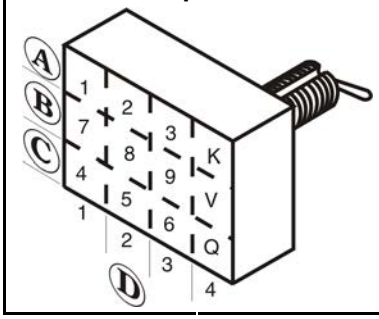
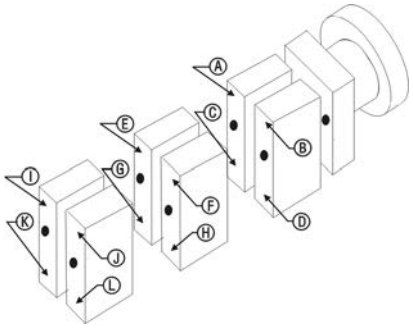
Component	Legend
	**A.** Normally closed contacts **B.** Common contacts **C.** Normally open contacts **D.** Pole

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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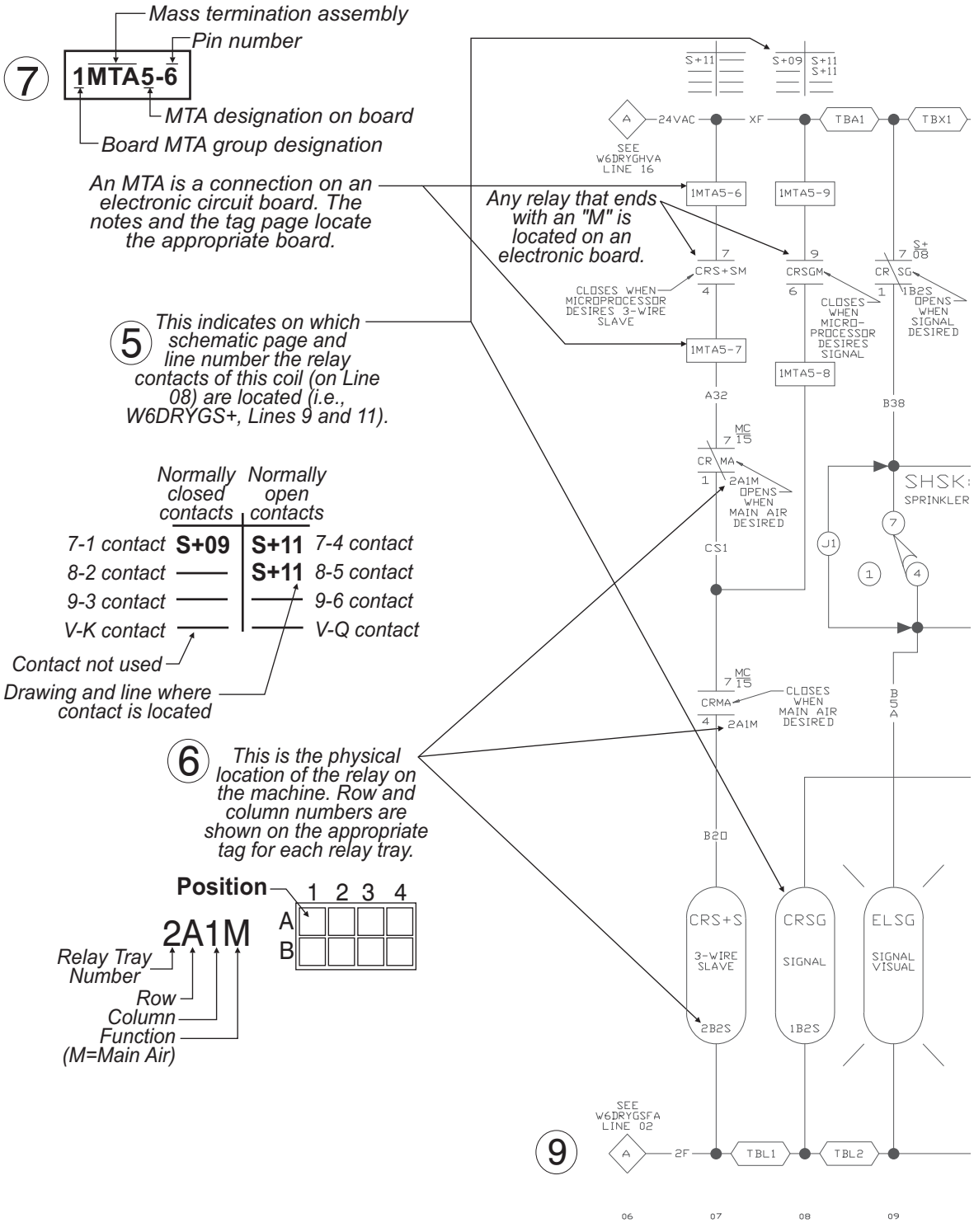
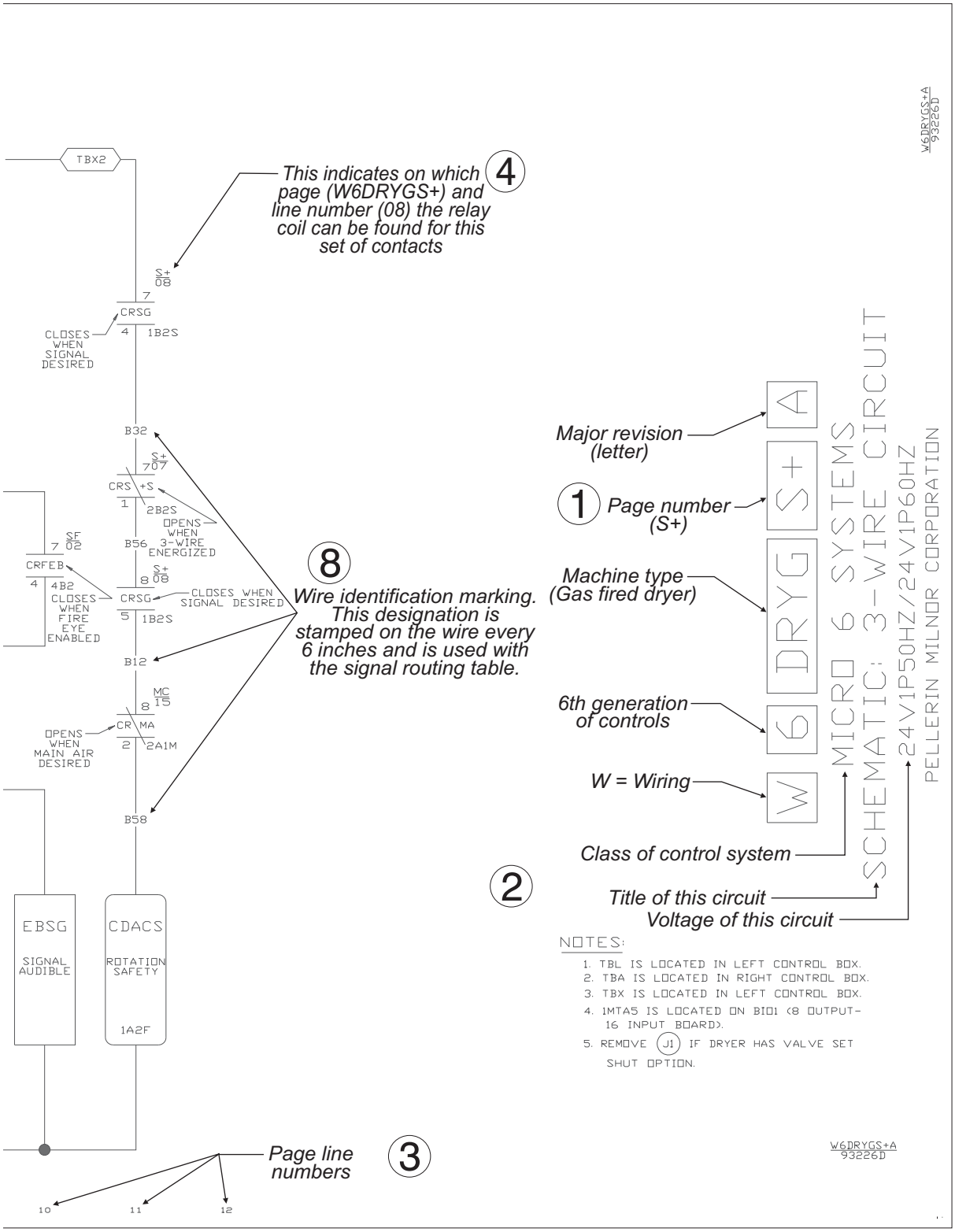
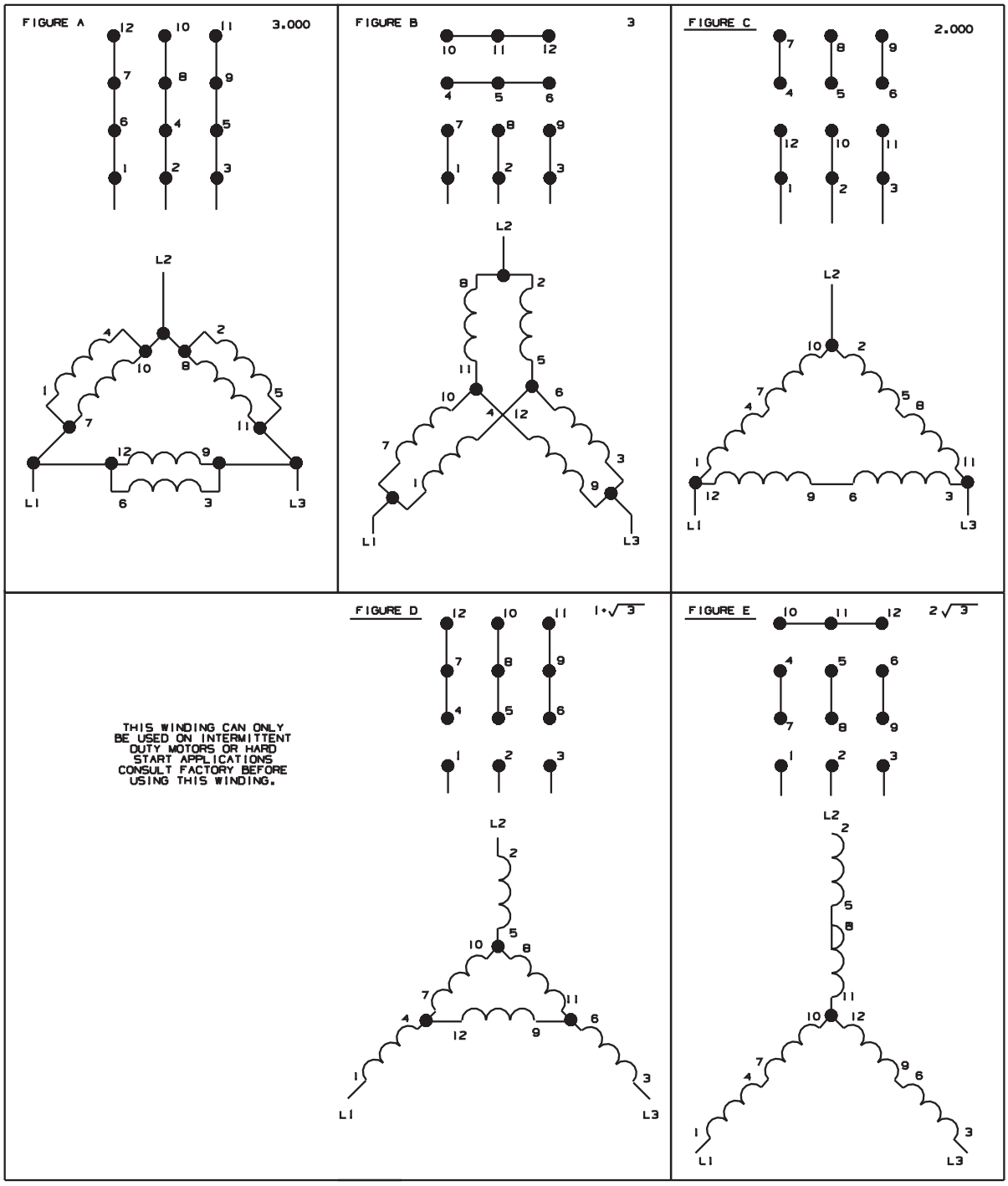


BMP010012 (left) / 2018343



BMP010012 (right) / 2018343

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	$1+\sqrt{3}$						600				600
E	$2\sqrt{3}$			380							



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

BMP850029

MOTOR CONNECTION DIAGRAMS

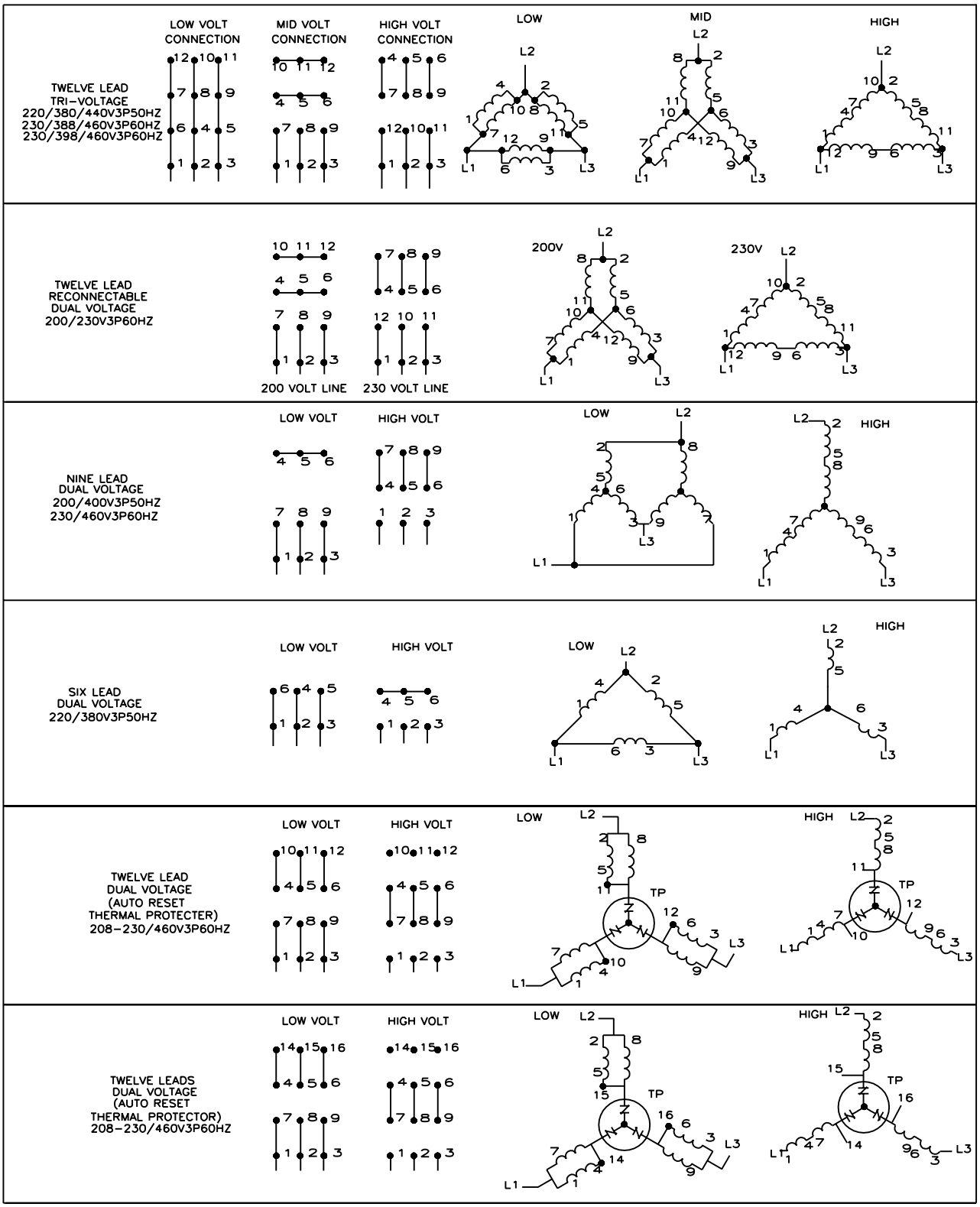
THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS

(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

BIO-1 (HIGH SPEED)	B024-1	BIO-2 (HIGH SPEED)	BO24-2 (OPTIONAL) (STANDARD ON 7244 MODELS)	BI/O-A AUTOSPOT ON 1MTR MODELS ONLY	BO24-3 (OPTIONAL)
INPUTS	**OUTPUTS**	**INPUTS**	**OUTPUTS**	**INPUTS**	**OUTPUTS**
0 NOT USED	8 NOT USED	16 NOT USED	40 CHEM 14	32 NOT USED	72 PROGRAM. OUT #00
1 DOOR CLOSED	9 ALT. EXT ACCEL/DECEL	17 NOT USED	41 CHEM 9	33 SOIL SIDE PCKT 3 SPOTTED	73 PROGRAM OUT #01
2 INVERTER TRIPPED	10 DOOR UNLOCK	18 NOT USED	42 CHEM 13	34 SOIL SIDE PCKT 2 SPOTTED	74 PROGRAM OUT #02
3 AUTOSPOT DESIRED	11 CW WASH	19 NOT USED	43 CHEM FLUSH	35 SOIL SIDE PCKT 1 SPOTTED	75 PROGRAM OUT #03
4 NOT USED	12 CCW WASH	20 CLEAN CONTROL DESIRED	44 CHEM 15	36 SPOT CLEAN POCKET 2	76 PROGRAM OUT #04
5 NOT USED	13 STEAM VALVE	21 NOT USED	45 CHEM 11	37 SPOT CLEAN POCKET 1	77 PROGRAM OUT #05
6 CHEM SAVE	14 SIGNAL	22 NOT USED	46 CHEM SAVE	38 SPOT SOILED POCKET 2	78 PROGRAM OUT #06
7 BASKET ROTATING	15 THREE WIRE RELAY	23 EXERNAL FAULT	47 NOT USED	39 SPOT SOILED POCKET 1	79 PROGRAM OUT #07
8 EXCURSION LIMIT	16 BRAKE RELEASE	24 NOT USEDD	48 CHEM 10	40 SPOT SOILED POCKET 3	80 PROGRAM OUT #08
9 NOT USED	17 HOT WATER	25 NOT USED	49 NOT USED	41 OK TO SPOT	81 PROGRAM OUT #09
10 BRAKE PADS WORN	18 COLD WATER	26 NOT USED	50 CHEM 6	42 SPOT CLEAN POCKET 3	82 PROGRAM OUT #10
11 BRAKE IS OFF	19 THIRD WATER	27 NOT USED	51 CHEM 7	43 NOT USED	83 PROGRAM OUT #11
12 NOT USED	20 SEWER DRAIN	28 SIGNAL CANCEL	52 CHEM 8	44 NOT USED	84 PROGRAM OUT #12
13 NOT USED	21 REUSE DRAIN	29 FRESH WATER METER	53 CHEM 12	45 CLEAN POCKET 3 SPOTTED	85 PROGRAM OUT #13
14 NOT USED	22 NOT USED	30 SEWER METER	54 NOT USED	46 CLEAN POCKET 2 SPOTTED	86 PROGRAM OUT #14
15 3-WIRE ENERGIZED	23 NOT USED	31 NOT USED	55 DRAIN MOTOR	47 CLEAN POCKET 1 SPOTTED	87 PROGRAM OUT #15
OUTPUTS	24 PUSH DOWN	**OUTPUTS**	56 LOW EXTRACT MOTOR	**OUTPUTS**	88 PROGRAM OUT #16
0 NOT USED	25 TRANSFER CONTROL 1	32 NOT USED	57 HIGH EXTRACT MOTOR	64 BRAKE	89 PROGRAM OUT #17
1 COOLDOWN	26 XFER CTRL NOT 1	33 NOT USED	58 DRAIN SAVER	65 I AM SPOTTING	90 PROGRAM OUT #18
2 FLUSH VALVE	27 TRANSFER CONTROL 2	34 NOT USED	59 NOT USED	66 NOT USED	91 PROGRAM OUT #19
3 CHEM 4	28 XFER CTRL NOT 2	35 CHEM 4	60 AMP SAVER	67 DC BRAKE	92 NOT USED
4 CHEM 1	29 CLEAN BUZZER	36 DOOR LOCK	61 NOT USED	68 I AM SPOTTING	93 NOT USED
5 CHEM 3	30 WASH CLUTCH	37 NOT USED	62 NOT USED	69 START SPOTTING	94 NOT USED
6 CHEM 2	31 SPRAY DOWN	38 NOT USED	63 NOT USED	70 SOIL SPOTTED	95 NOT USED
7 CHEM 5		39 START PULSE		71 CLEAN SPOTTED	

NOT ALL INPUTS/OUTPUTS
USED FOR ALL MODELS

MILTOUCH-EX™ CONTROLS
MODELS WR2/3, SR2/3
CONTROL BOARDS INPUTS/OUTPUTS

PELLERIN MILNOR CORPORATION

B2T2014009
2014243A

W6W5DZTG1

MICRO 6 SYSTEMS
SCHEMATIC: MACHINE TAGS
PELLERIN MILNOR CORPORATION

IMPORTANT
SETTING MILTOUCH-EX™ POWER SUPPLIES

⚠ ESPS and ESPS2 ARE DIFFERENT. TAKE CARE TO NOT MIX UP PART NUMBERS. IF WRONG POWER SUPPLY IS USED PERMANENT BOARD DAMAGE WILL OCCUR.

TO TEST POWER SUPPLIES OUTPUT

1. MAKE SURE MACHINE IS ON.
2. USING HIGH QUALITY DIGITAL VOLTMETER (FLUKE MODEL 77 OR EQUAL) MEASURE THE VOLTAGE ON ANY ONE OF BOARDS IN THE CARD CAGE *MTA#2 BETWEEN PINS 3 (+5V) AND PIN 4 (GND). THE VOLTAGE RANGE SHOULD BE 5.01-5.12VDC. SEE FIGURE 1.
3. MEASURE THE VOLTAGE AT BPB ON CONNECTOR J4 BETWEEN PIN 1 (+12V) AND PIN 2 (GND). THE VOLTAGE RANGE SHOULD BE 12.2-12.4VDC. SEE FIGURE 2

TO ADJUST POWER SUPPLY VOLTAGES

1. +5V,+12V &-12V IS PROVIDED BY PART NUMBER 08PSS3401T LABELED ESPS. POWER SUPPLY PART NUMBER 08PSS2401T PROVIDES THE +12V FOR THE PROCESSOR BD LABELED ESPS2.
2. LOCATE THE VOLTAGE ADJUSTMENT POTENTIOMETER. THE POTENTIOMETER WILL BE A SMALL BLUE COMPONENT. IT IS SOLDERED ON EACH POWER SUPPLY'S PRINTED CIRCUIT BOARD. THERE MAY HAVE A SPOT OF SILICONE ON ADJUSTMENT SCREW. SEE FIGURE 3.
3. USING A SMALL (POCKET TYPE) SCREW DRIVER REMOVE THE SILICONE AND TURN THE POTENTIOMETER TURNING CLOCKWISE TO RAISE THE VOLTAGE AND COUNTER-CLOCKWISE TO LOWER.
4. RE-APPLY SPOT OF ELECTRONIC GRADE SILICONE ON ADJUSTMENT SCREW TO FIX IN PLACE. RE-TEST TO VERIFY +5VDC ON ESPS AND +12VDC ON ESPS2 ARE WITHIN CORRECT VOLTAGE RANGES.

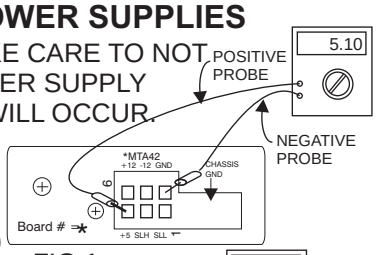


FIG 1.

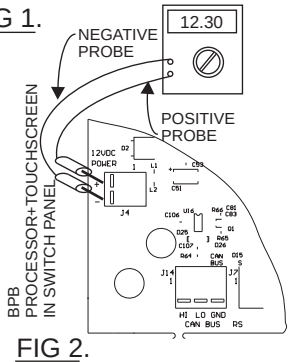


FIG 2.

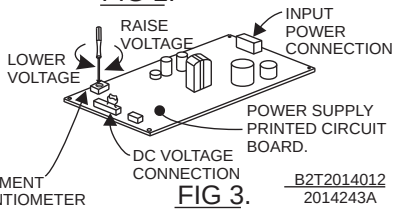
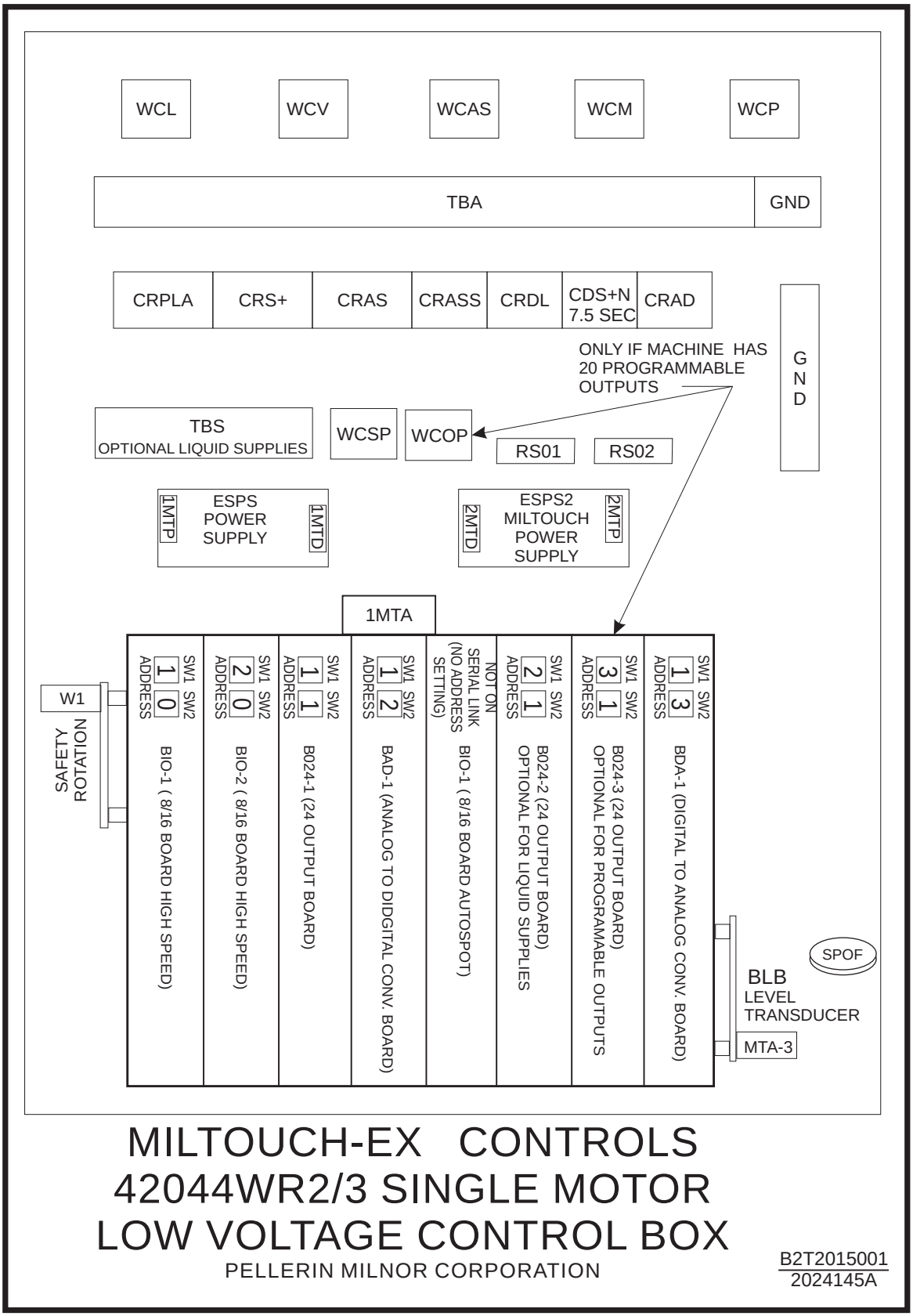


FIG 3.

B2T2014012
2014243A

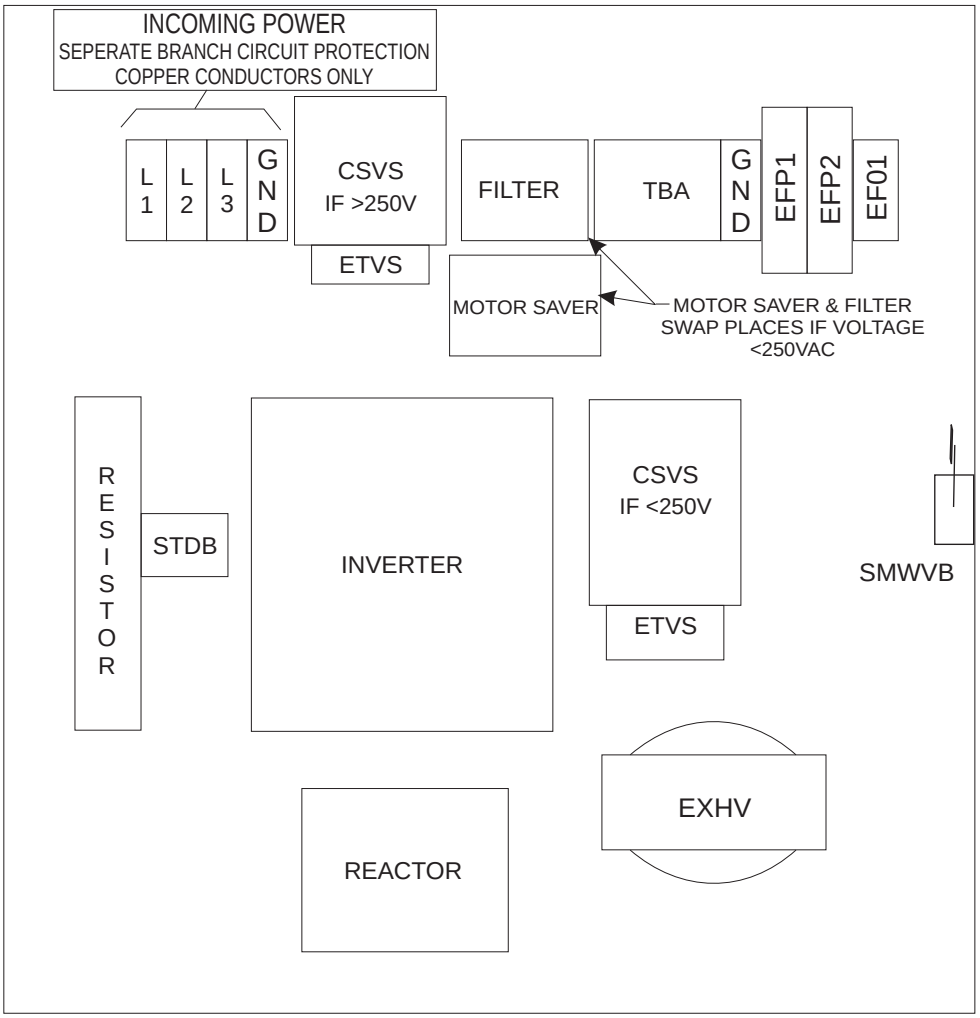


MILTOUCH-EX CONTROLS
42044WR2/3 SINGLE MOTOR
LOW VOLTAGE CONTROL BOX

PELLERIN MILNOR CORPORATION

B2T2015001
2024145A

W6W5DZTG2
2024145B

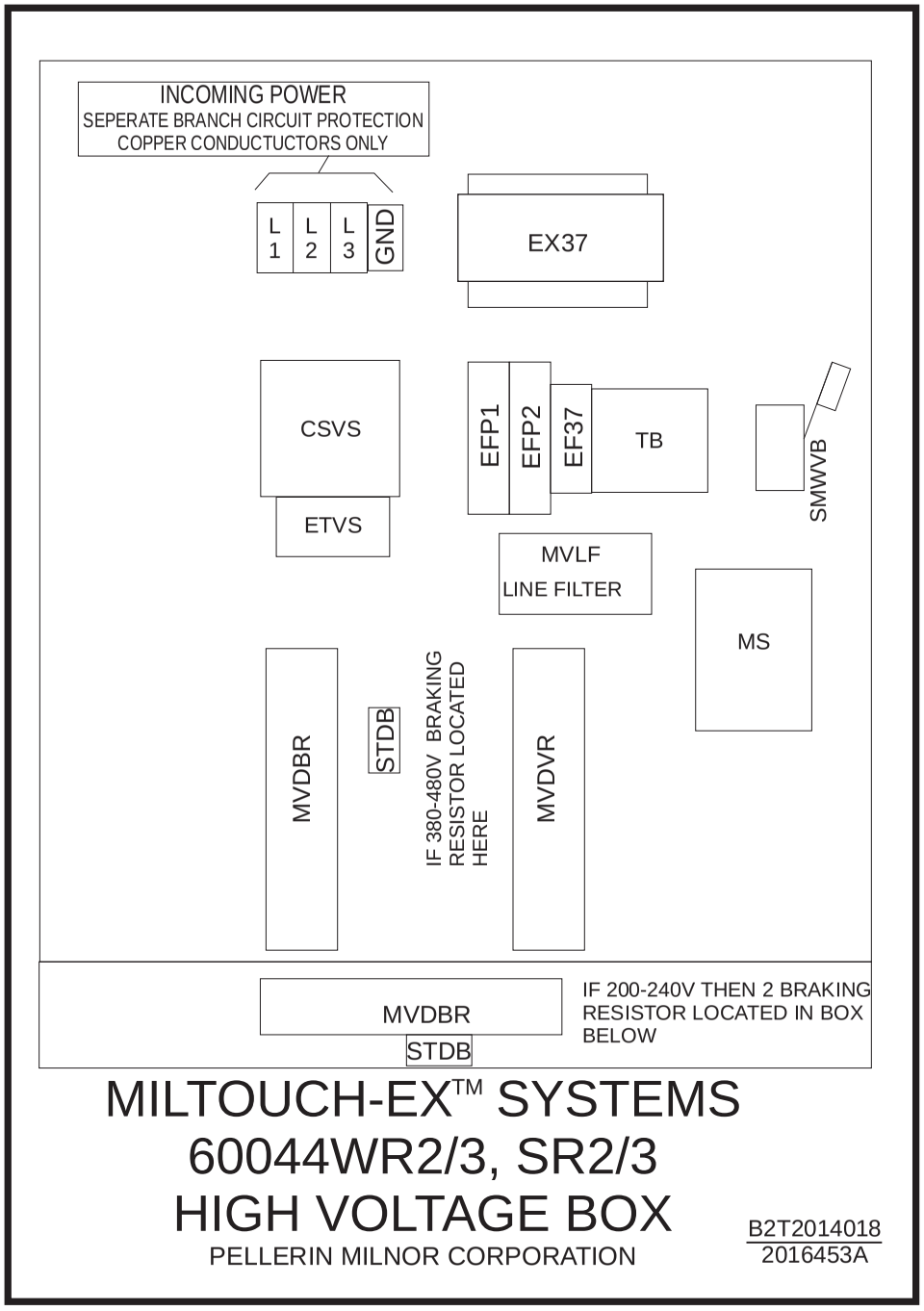


MILTOUCH-EX SYSTEMS
42044 SINGLE MOTOR WR2/SR2
HIGH VOLTAGE CONTROL BOX
PELLERIN MILNOR CORPORATION

B2T2015008
2015335A

W6W5DZTG2

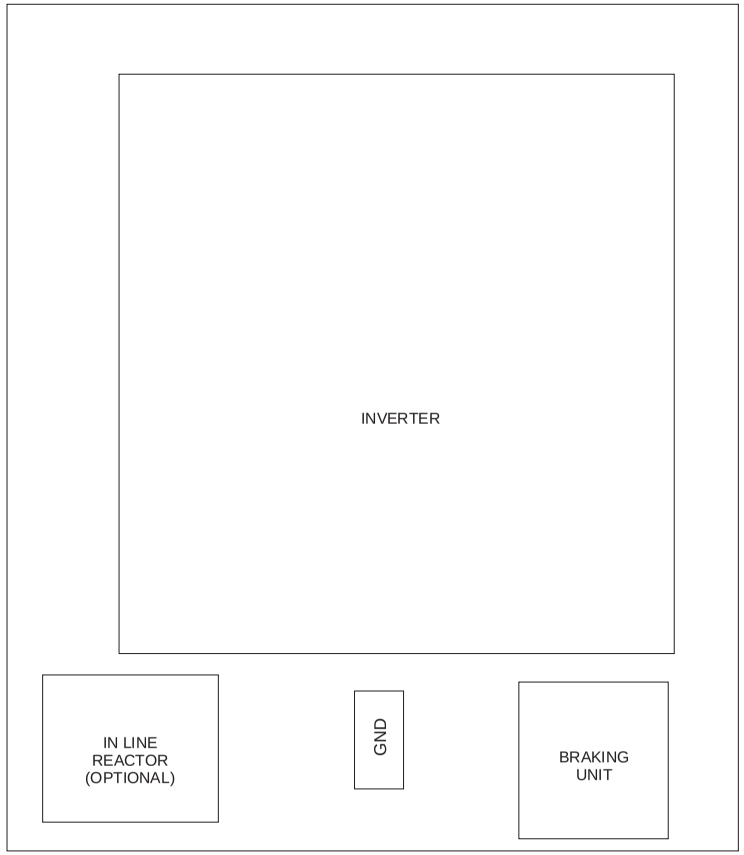
MICRO 6 SYSTEMS
SCHEMATIC: MACHINE TAGS
PELLERIN MILNOR CORPORATION



MILTOUCH-EX™ SYSTEMS
60044WR2/3, SR2/3
HIGH VOLTAGE BOX

PELLERIN MILNOR CORPORATION

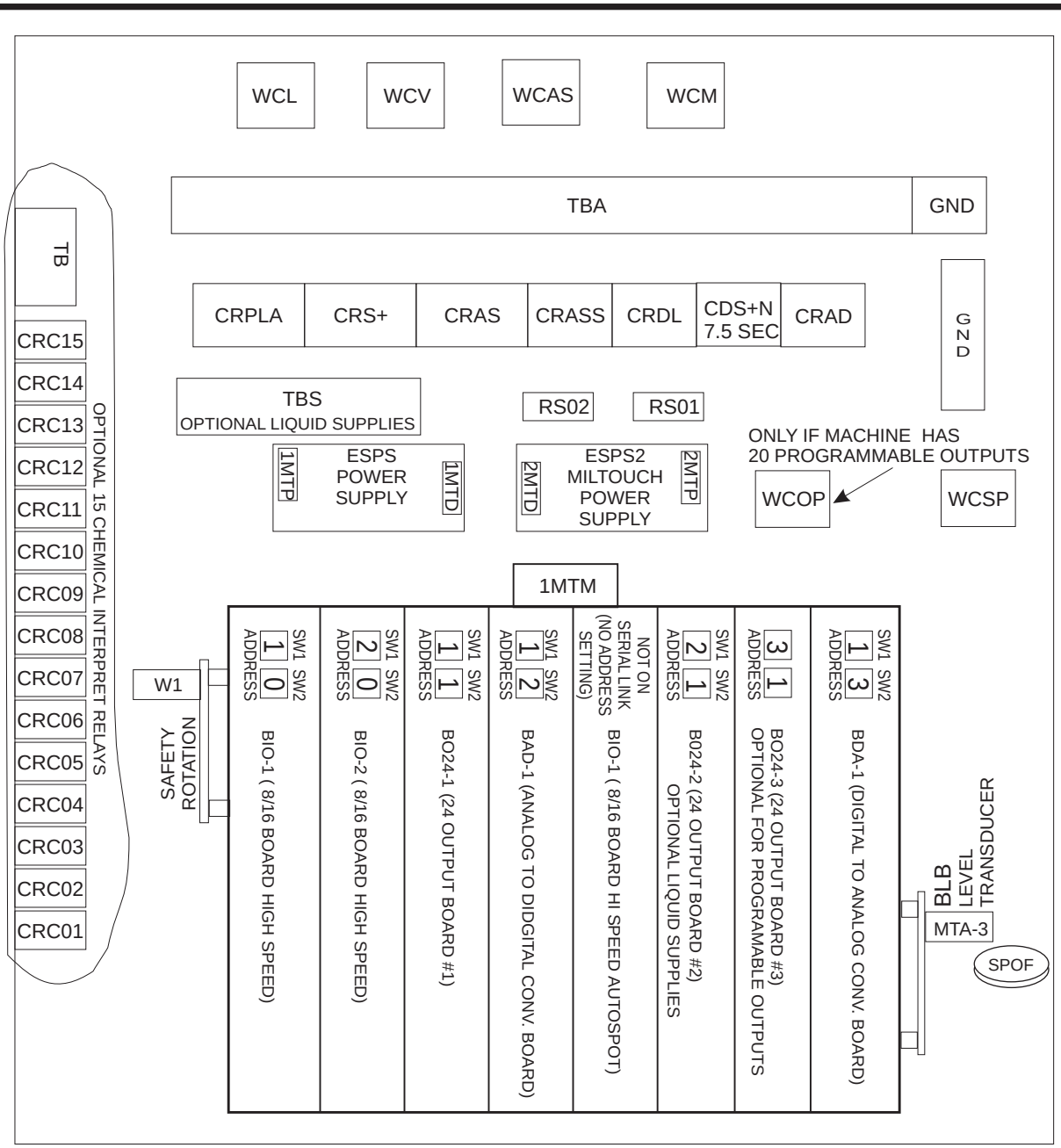
B2T2014018
2016453A



MILTOUCH-EX™ CONTROLS
60044WR2/3, SR2/3

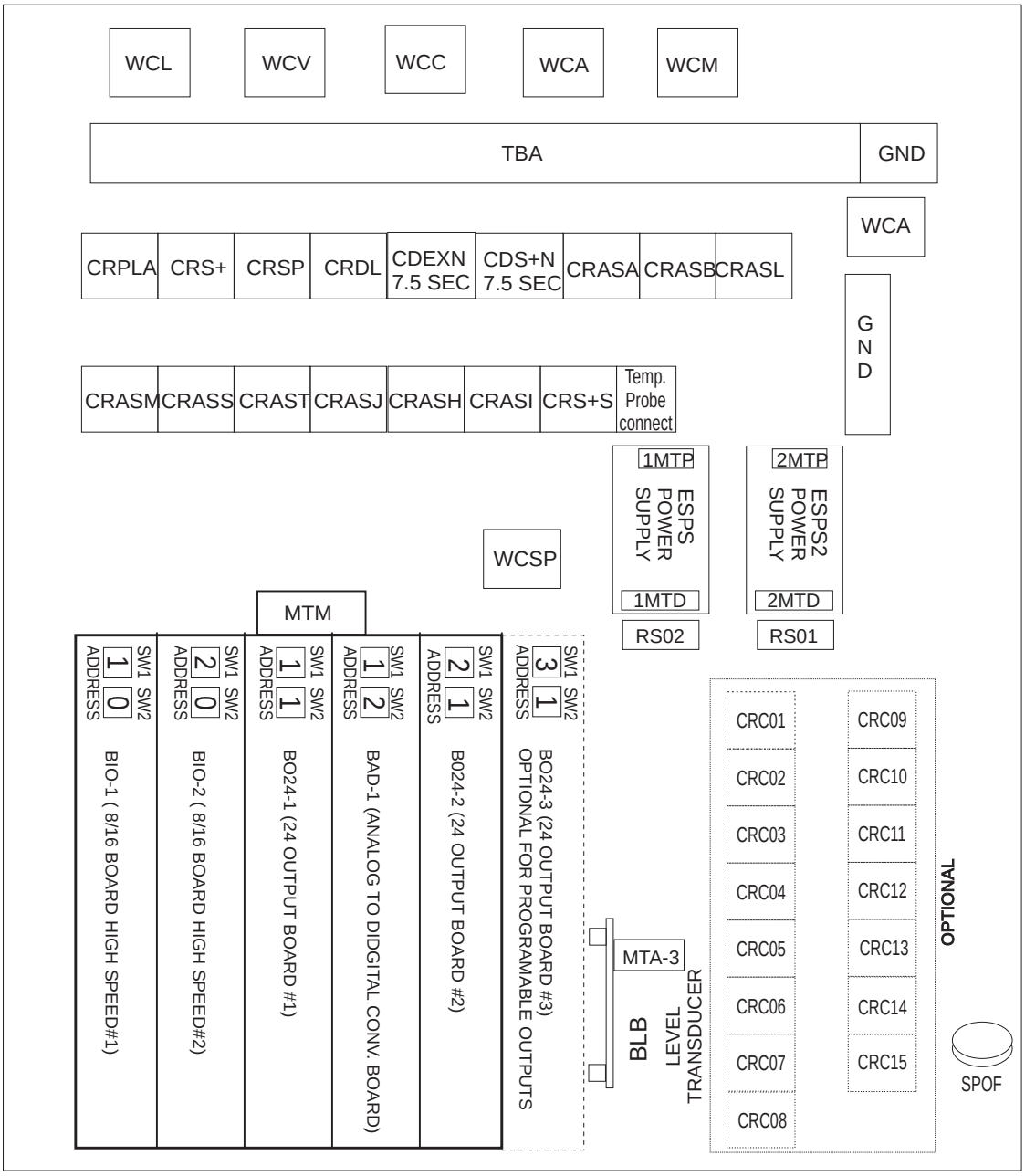
B2T2014017
2014243A

W6W5DZTG3
MICRO 6 SYSTEMS
SCHEMATIC: MACHINE TAGS
PELLERIN MILNOR CORPORATION



MILTOUCH-EX™ CONTROLS
60044WR2/3 SINGLE MOTOR
LOW VOLTAGE CONTROL BOX
PELLERIN MILNOR CORPORATION

B2T2014011
2020304A

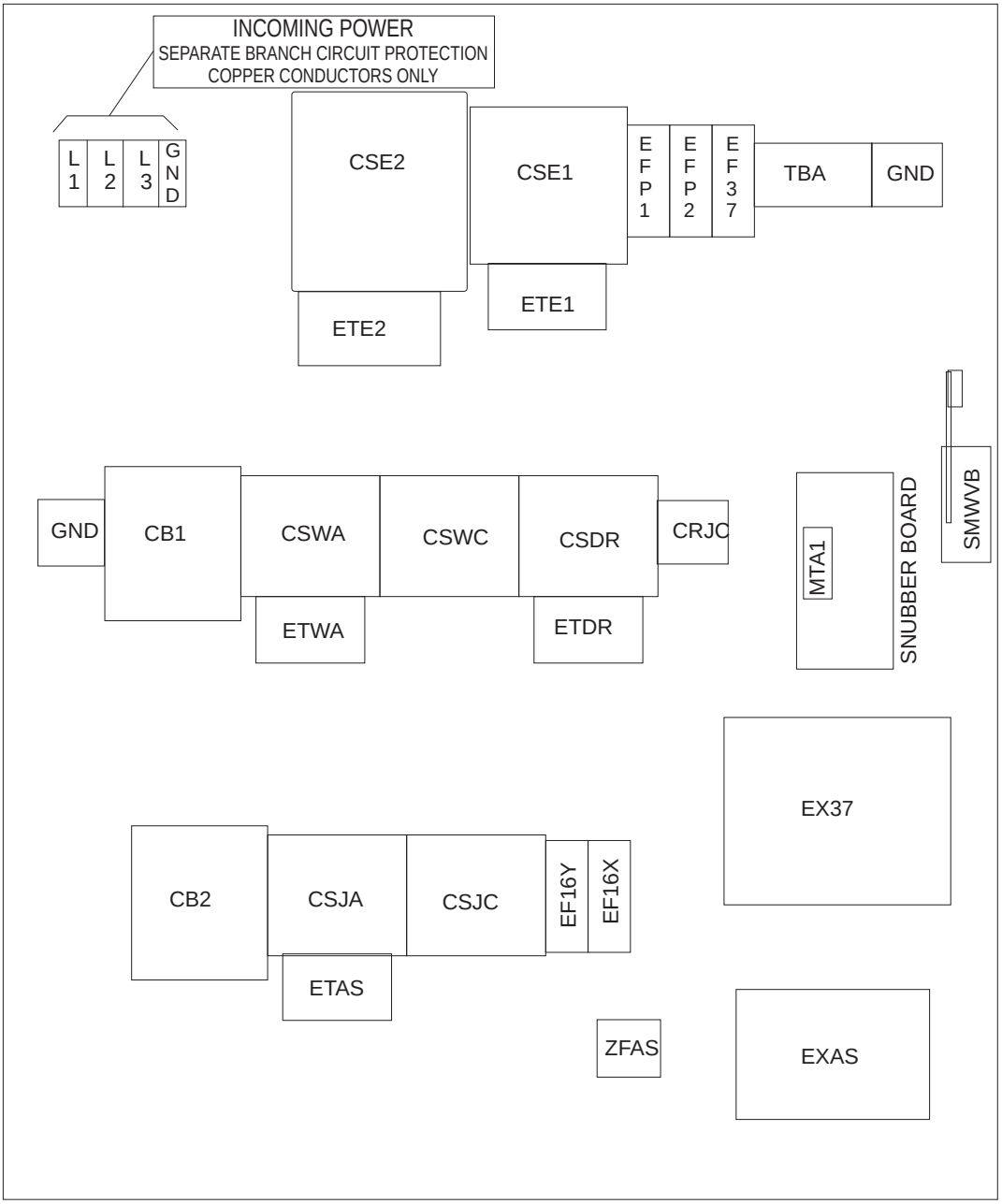


MICRO 6 SYSTEMS
72044WR2/3 MILTOUCH-EX CONTROLS
LOW VOLTAGE CONTROL BOX

PELLERIN MILNOR CORPORATION

B2T2016001
2020275A

W6W5DZTG4
2025064B

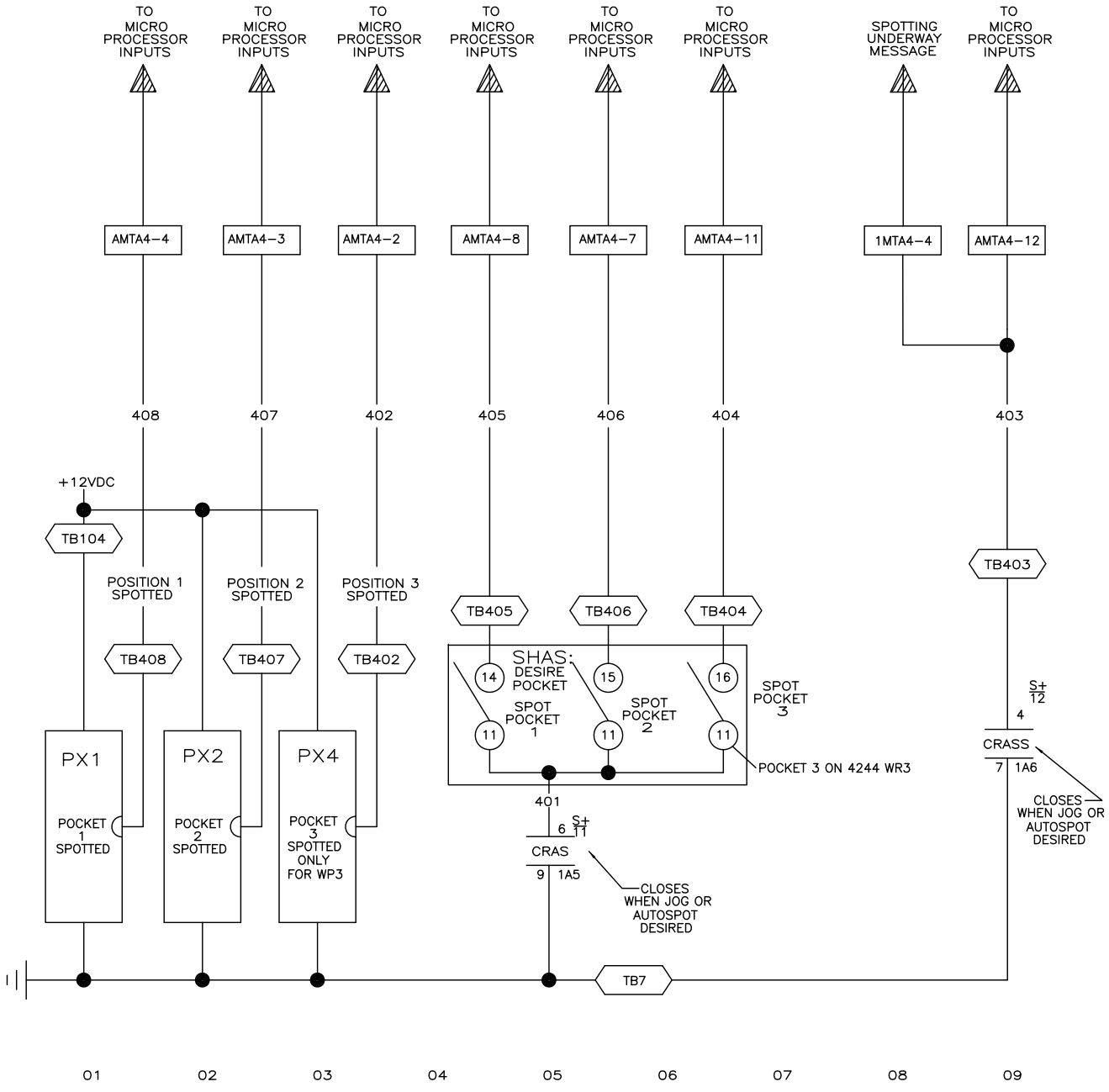


MILTOUCH-EX CONTROLS
7244WR2/3-7244SR2/3
HIGH VOLTAGE CONTROL BOX

PELLERIN MILNOR CORPORATION

B2T2015012
2017042A

W6W5DZTG4
MICRO 6 SYSTEMS
SCHEMATIC: MACHINE TAGS
PELLERIN MILNOR CORPORATION



W6W5DZAS
2015504B

W6W5DZAS

MILTOUCH–EX™ CONTROLS

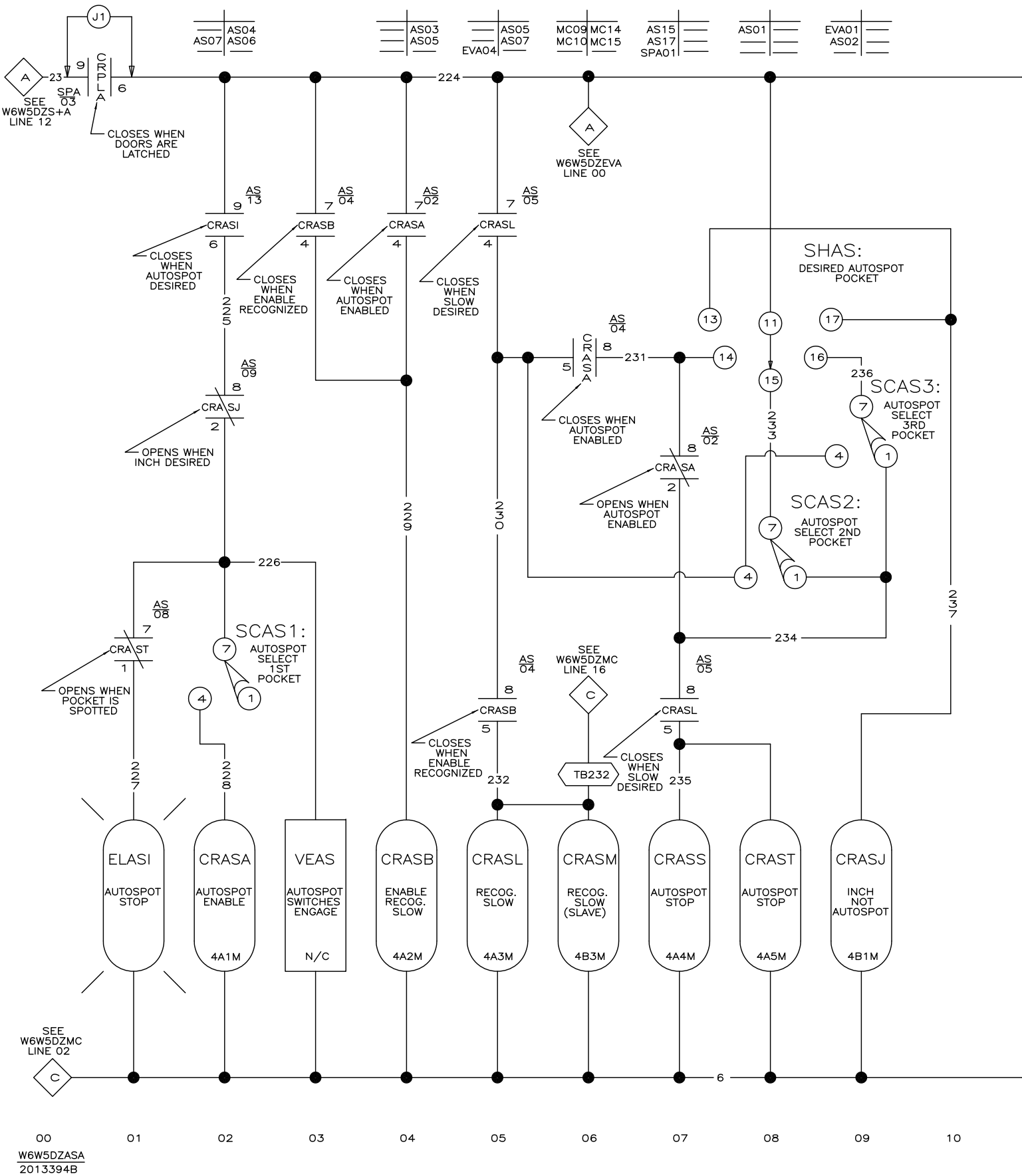
SCHEMATIC: AUTOSPOT(SERIAL CONTROLS)

AUTOSPOT CONTROLS 42044 WR2/3

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

10 11 12 13 14 15 16 17

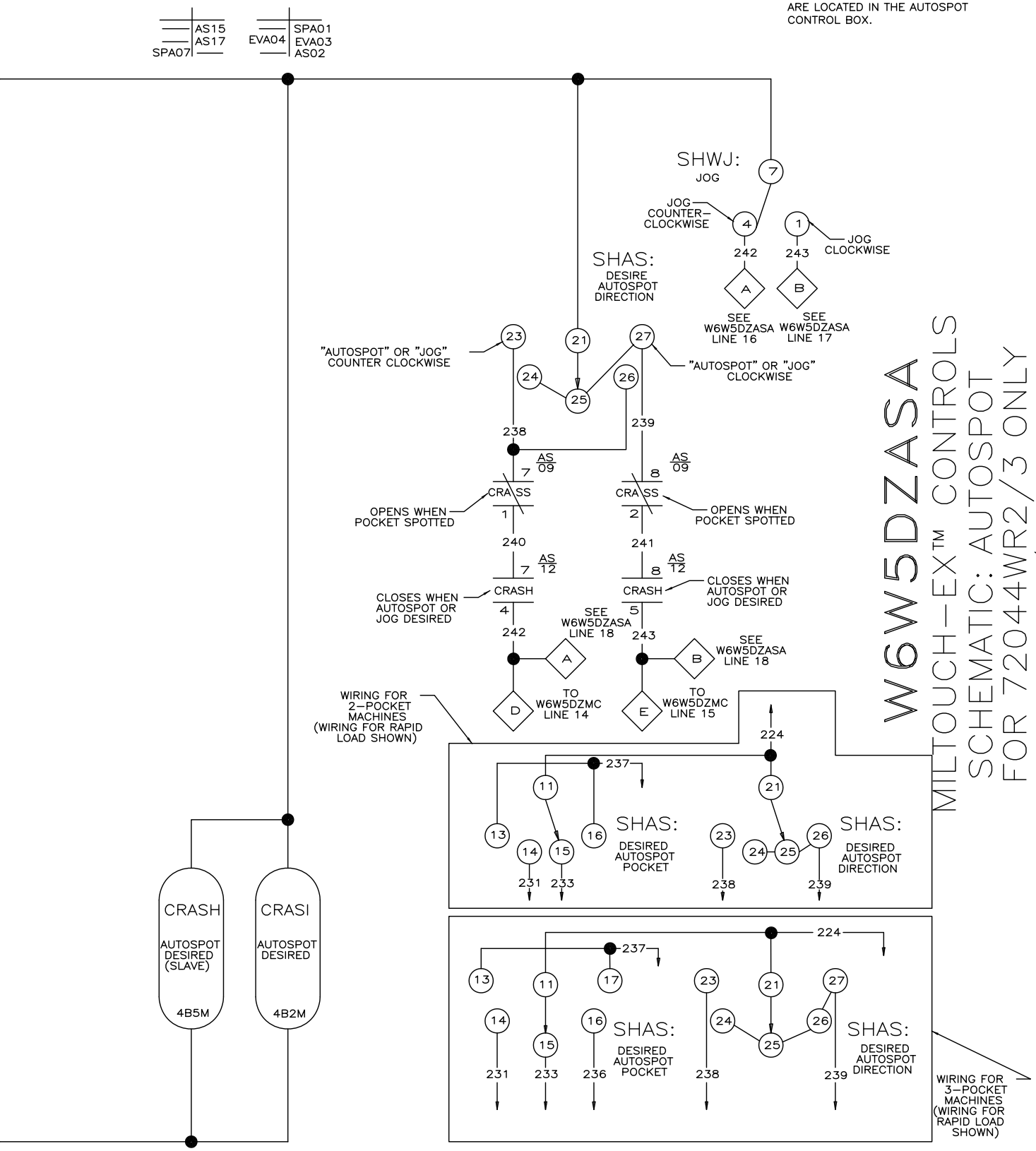

J1
AS04 AS07 AS06
AS03 AS05
AS05 AS07 EVA04
MC09 MC14 MC10 MC15
AS15 AS17 SPA01
AS01
EVA01 AS02
A
23
9
CRPLA
SPA 03
6
SEE W6W5DZS+A LINE 12
CLOSES WHEN DOORS ARE LATCHED
224
A
SEE W6W5DZEVA LINE 00
AS 13
9
CRASI
6
CLOSES WHEN AUTOSPOT DESIRED
225
AS 04
7
CRASB
4
CLOSES WHEN ENABLE RECOGNIZED
AS 02
7
CRASA
4
CLOSES WHEN AUTOSPOT ENABLED
AS 05
7
CRASL
4
CLOSES WHEN SLOW DESIRED
AS 09
8
CRASJ
2
OPENS WHEN INCH DESIRED
229
230
AS 04
8
CRASA
5
231
CLOSES WHEN AUTOSPOT ENABLED
AS 02
8
CRASA
2
OPENS WHEN AUTOSPOT ENABLED
14
13
11
15
233
4
17
16
236
SHAS:
DESIRED AUTOSPOT POCKET
SCAS3:
7
AUTOSPOT SELECT 3RD POCKET
1
SCAS2:
7
AUTOSPOT SELECT 2ND POCKET
1
4
237
226
AS 08
7
CRAST
1
OPENS WHEN POCKET IS SPOTTED
SCAS1:
7
AUTOSPOT SELECT 1ST POCKET
1
4
234
AS 04
8
CRASB
5
CLOSES WHEN ENABLE RECOGNIZED
SEE W6W5DZMC LINE 16
C
TB232
CLOSES WHEN SLOW DESIRED
AS 05
8
CRASL
5
227
228
232
235
ELASI
AUTOSPOT STOP
CRASA
AUTOSPOT ENABLE
4A1M
VEAS
AUTOSPOT SWITCHES ENGAGE
N/C
CRASB
ENABLE RECOG. SLOW
4A2M
CRASL
RECOG. SLOW
4A3M
CRASM
RECOG. SLOW (SLAVE)
4B3M
CRASS
AUTOSPOT STOP
4A4M
CRAST
AUTOSPOT STOP
4A5M
CRASJ
INCH NOT AUTOSPOT
4B1M
SEE W6W5DZMC LINE 02
C
6
00
01
02
03
04
05
06
07
08
09
10
W6W5DZASA
2013394B

NOTES:

1. REMOVE (J1) FOR MACHINES WITHOUT DOOR CLOSED OPTION ALL RELAYS ON THIS SCHEMATIC ARE LOCATED IN THE AUTOSPOT CONTROL BOX.

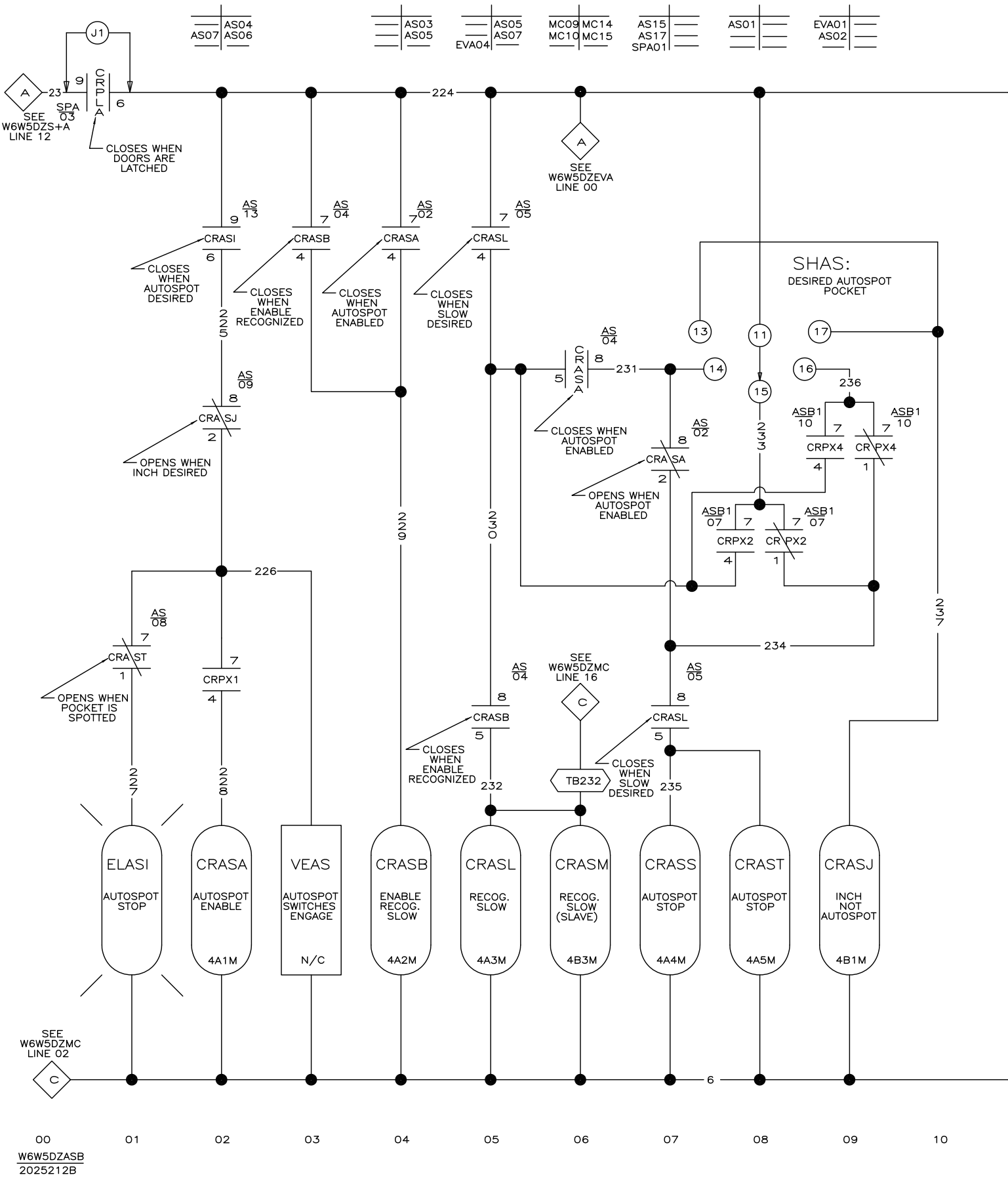
W6W5DZASA
MILTOUCH-EX™ CONTROLS
SCHEMATIC: AUTOSPOT
FOR 72044WR2/3 ONLY
110V1P50HZ/120V1P60HZ

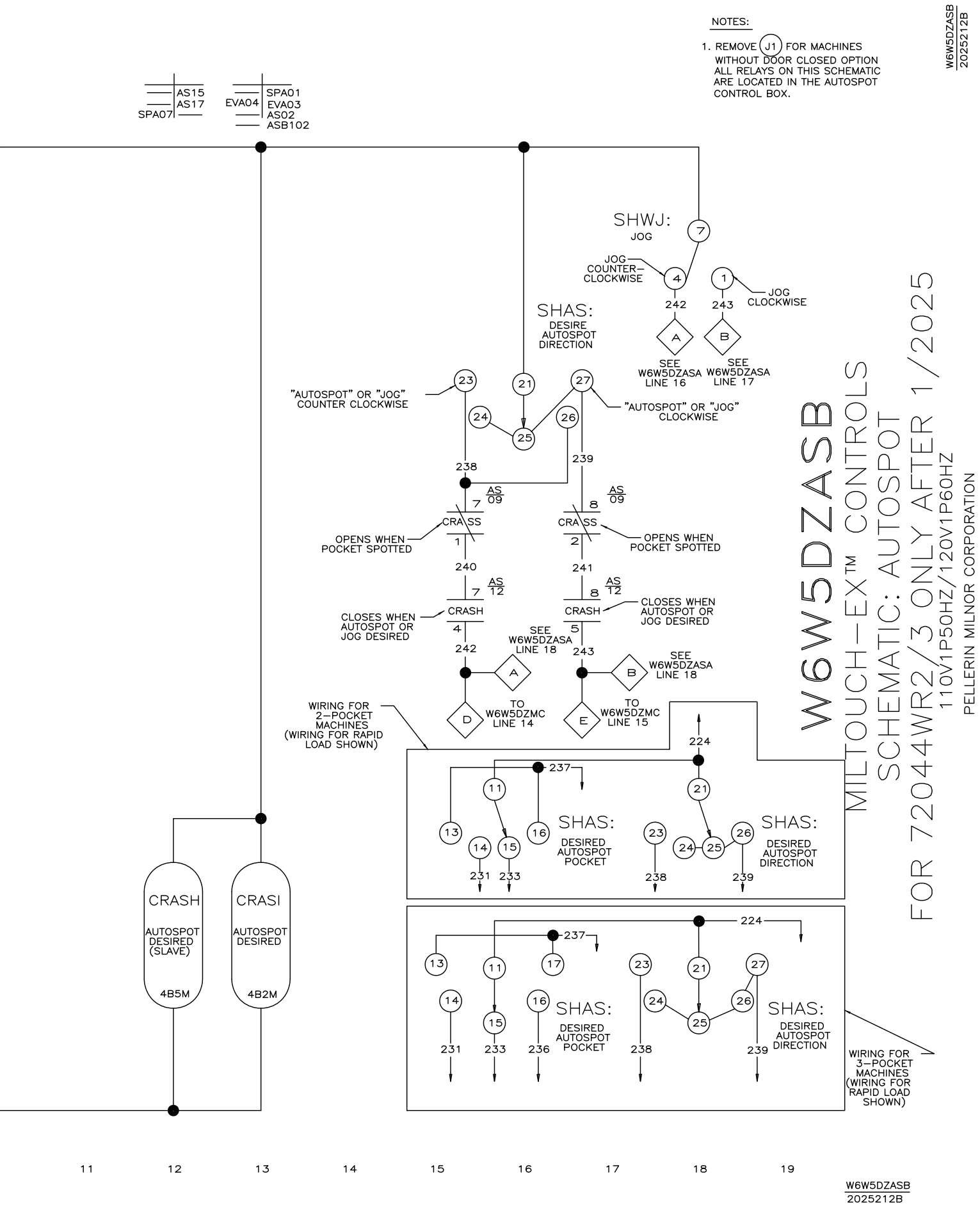
PELLERIN MILNOR CORPORATION



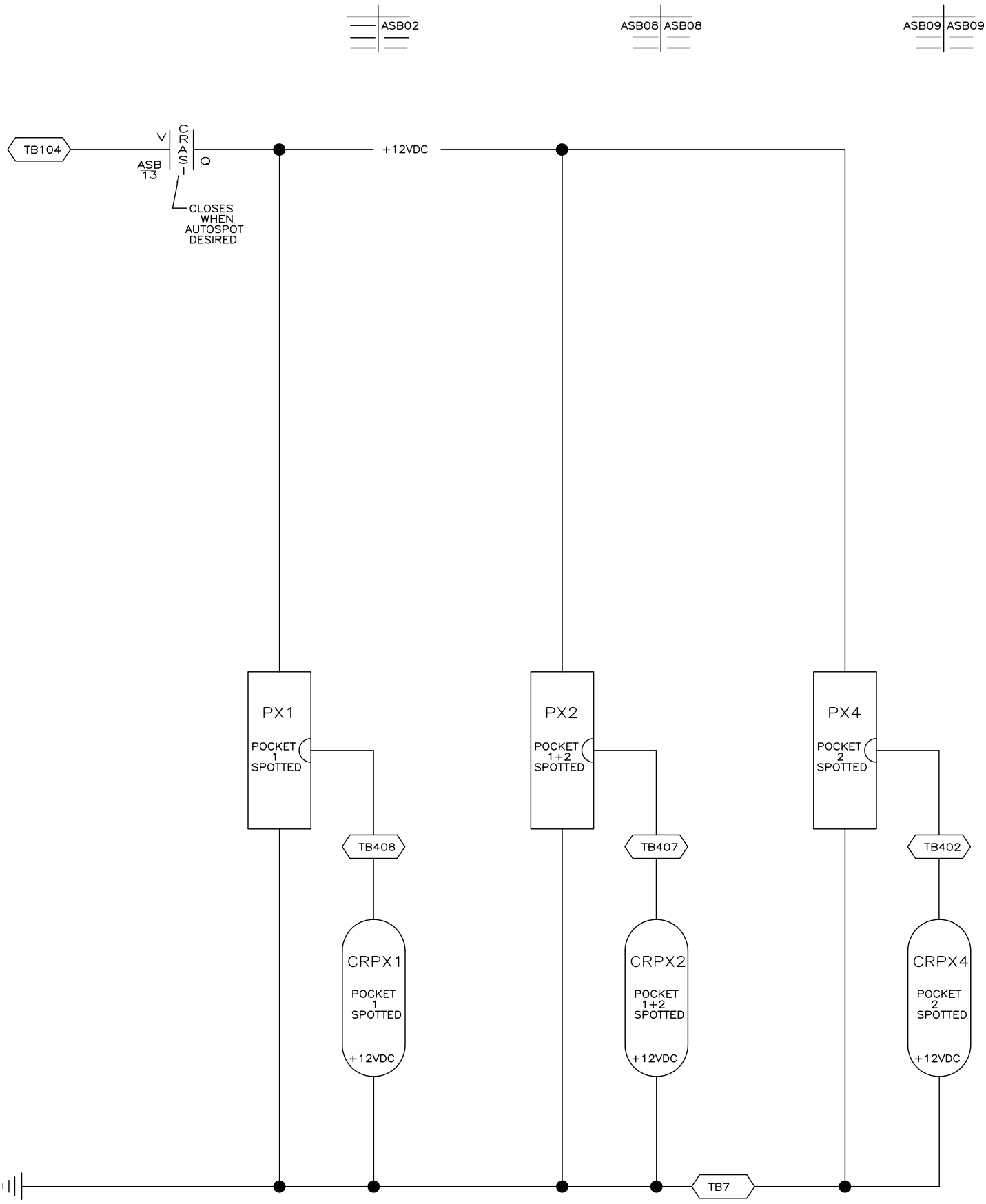
11 12 13 14 15 16 17 18 19

W6W5DZASA
2013394B


AS04 AS07 AS06
AS03 AS05
AS05 EVA04 AS07
MC09 MC14 MC10 MC15
AS15 AS17 SPA01
AS01
EVA01 AS02
J1
A
23
9
CRPLA
6
SPA 03
SEE W6W5DZS+A LINE 12
CLOSES WHEN DOORS ARE LATCHED
224
A
SEE W6W5DZEVA LINE 00
AS 13
9
CRASI
6
CLOSES WHEN AUTOSPOT DESIRED
225
AS 04
7
CRASB
4
CLOSES WHEN ENABLE RECOGNIZED
AS 02
7
CRASA
4
CLOSES WHEN AUTOSPOT ENABLED
AS 05
7
CRASL
4
CLOSES WHEN SLOW DESIRED
SHAS:
DESIRED AUTOSPOT POCKET
13
11
17
AS 04
8
CRASA
5
231
14
16
236
15
233
ASB1 10
7
CRPX4
4
ASB1 10
7
CR PX4
1
AS 09
8
CRA SJ
2
OPENS WHEN INCH DESIRED
CLOSES WHEN AUTOSPOT ENABLED
AS 02
8
CRA SA
2
OPENS WHEN AUTOSPOT ENABLED
ASB1 07
7
CRPX2
4
ASB1 07
7
CR PX2
1
229
230
226
AS 08
7
CRA ST
1
OPENS WHEN POCKET IS SPOTTED
7
CRPX1
4
234
237
AS 04
8
CRASB
5
CLOSES WHEN ENABLE RECOGNIZED
SEE W6W5DZMC LINE 16
C
TB232
CLOSES WHEN SLOW DESIRED
AS 05
8
CRASL
5
227
228
232
235
ELASI
AUTOSPOT STOP
CRASA
AUTOSPOT ENABLE
4A1M
VEAS
AUTOSPOT SWITCHES ENGAGE
N/C
CRASB
ENABLE RECOG. SLOW
4A2M
CRASL
RECOG. SLOW
4A3M
CRASM
RECOG. SLOW (SLAVE)
4B3M
CRASS
AUTOSPOT STOP
4A4M
CRAST
AUTOSPOT STOP
4A5M
CRASJ
INCH NOT AUTOSPOT
4B1M
SEE W6W5DZMC LINE 02
C
6
00
01
02
03
04
05
06
07
08
09
10
W6W5DZASB
2025212B



W6W5DZASB
MILTOUCH–EX™ CONTROLS
SCHEMATIC: AUTOSPOT
FOR 72044WR2/3 ONLY AFTER 1/2025
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

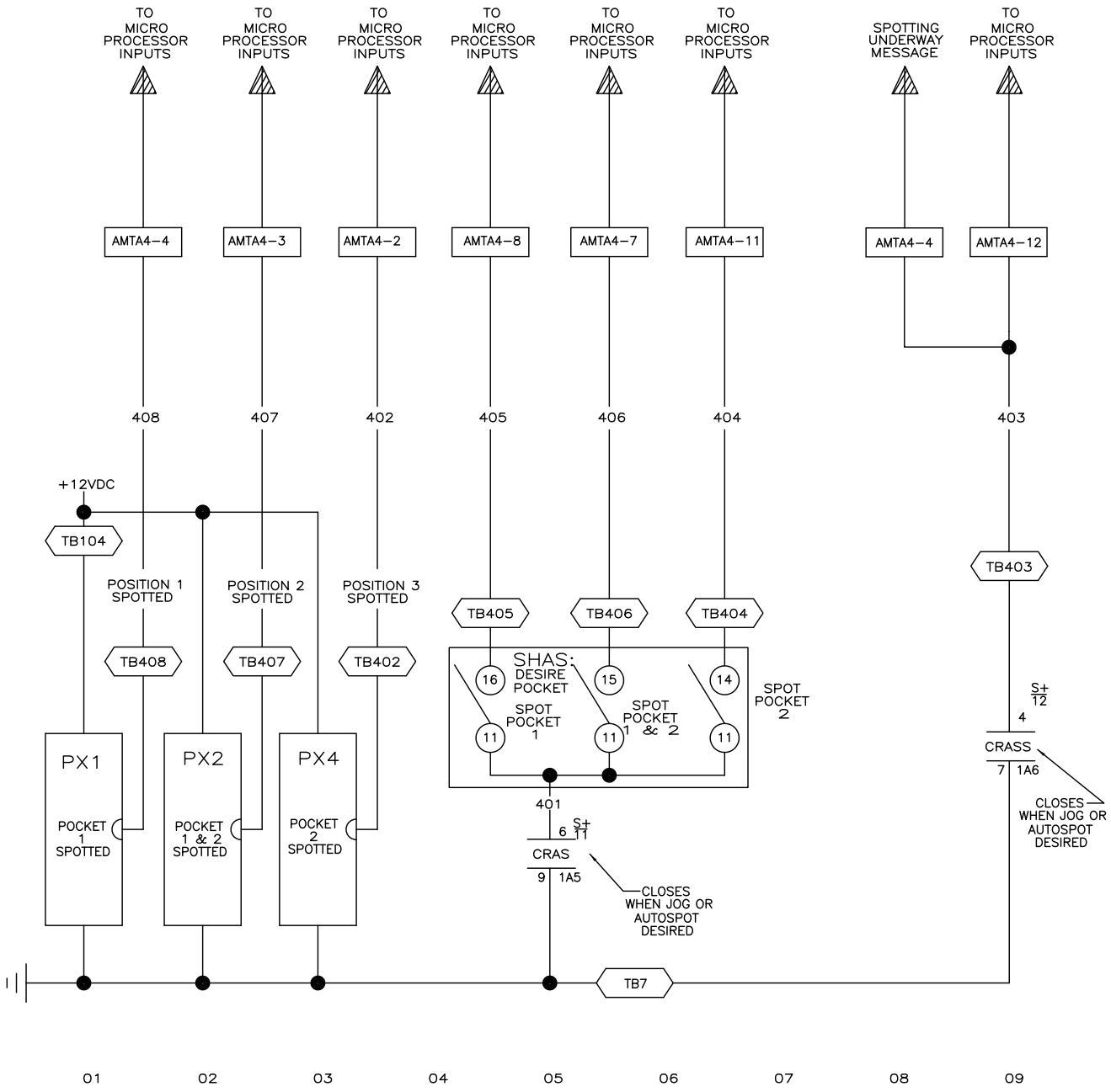

ASB02
ASB08 ASB08
ASB09 ASB09
TB104
V
CRAS
I
Q
ASB 13
CLOSES WHEN AUTOSPOT DESIRED
+12VDC
PX1
POCKET 1 SPOTTED
PX2
POCKET 1+2 SPOTTED
PX4
POCKET 2 SPOTTED
TB408
TB407
TB402
CRPX1
POCKET 1 SPOTTED
+12VDC
CRPX2
POCKET 1+2 SPOTTED
+12VDC
CRPX4
POCKET 2 SPOTTED
+12VDC
TB7
00
01
02
03
04
05
06
07
08
09
10
W6W5DZASB1
2025212B

W6W5DZASB1

MILTOUCH–EX™ CONTROLS
SCHEMATIC: AUTOSPOT
FOR 72044WR2/3 ONLY

+12VDC

PELLERIN MILNOR CORPORATION



W6W5DZASB
2025502B

W6W5DZASC

MILTOUCH–EX™ CONTROLS

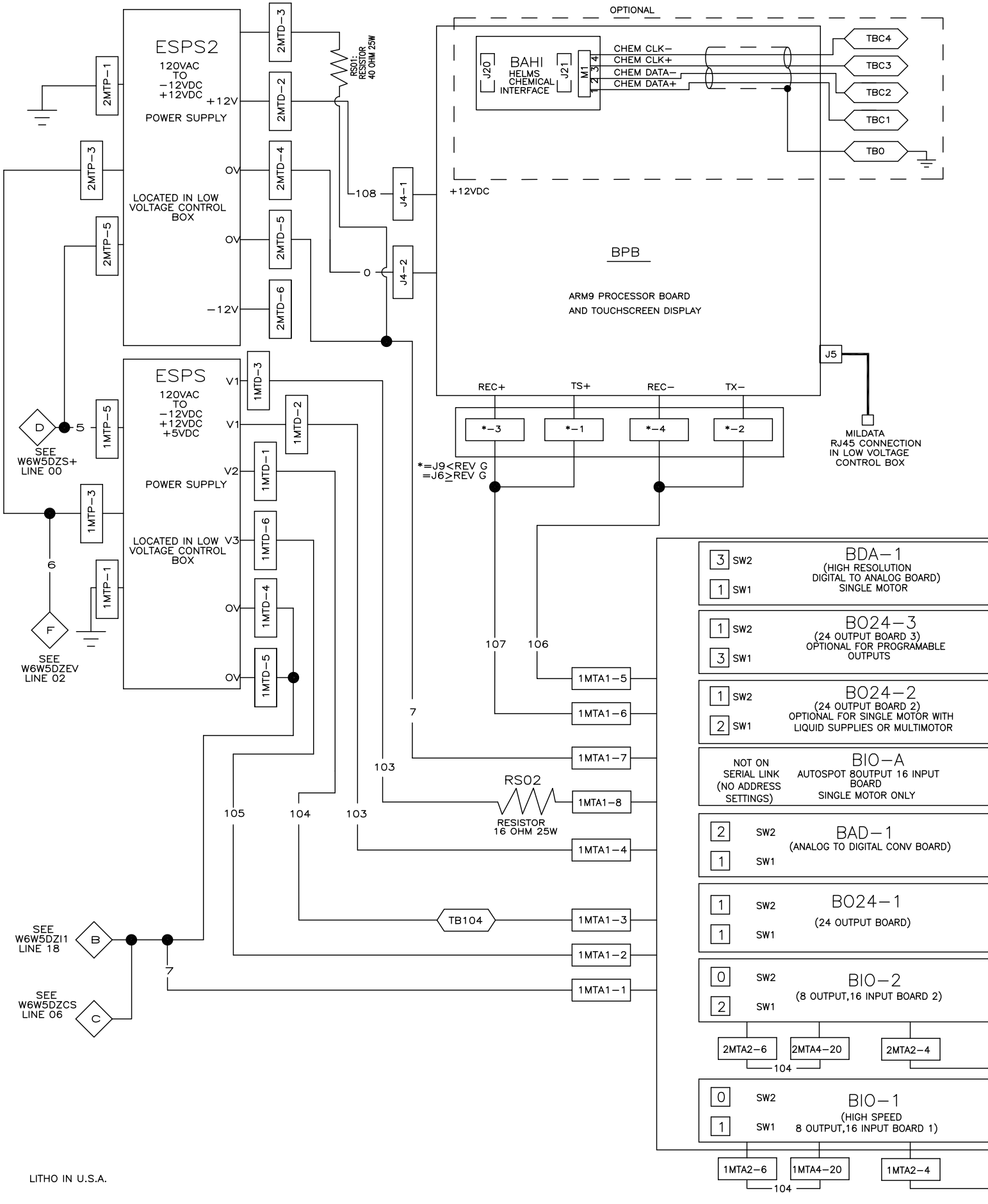
SCHEMATIC: AUTOSPOT

AUTOSPOT SENSORS 60044 WR2/3

110V1P50HZ/120V1P60HZ

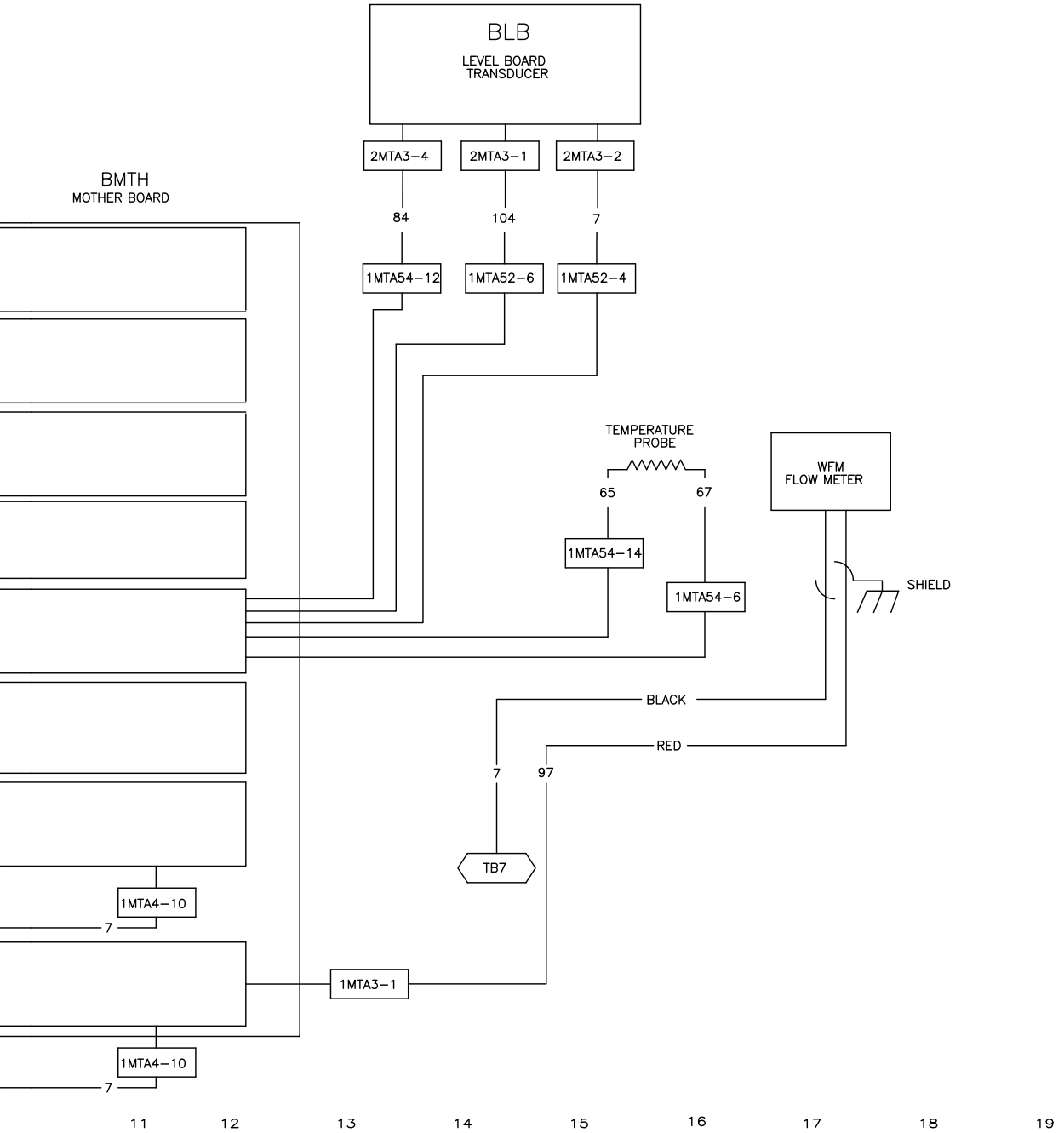
PELLERIN MILNOR CORPORATION

10 11 12 13 14 15 16 17


OPTIONAL
ESPS2
120VAC TO −12VDC +12VDC +5VDC
POWER SUPPLY
LOCATED IN LOW VOLTAGE CONTROL BOX
2MTP−1
2MTP−3
2MTP−5
2MTD−3
2MTD−2
2MTD−4
2MTD−5
2MTD−6
+12V
0V
0V
−12V
RS01: RESISTOR 40 OHM 25W
108
0
J4−1
J4−2
+12VDC
BAHI
HELMS CHEMICAL INTERFACE
J20
J21
M1
CHEM CLK−
CHEM CLK+
CHEM DATA−
CHEM DATA+
TBC4
TBC3
TBC2
TBC1
TB0
BPB
ARM9 PROCESSOR BOARD AND TOUCHSCREEN DISPLAY
J5
REC+
TS+
REC−
TX−
*−3
*−1
*−4
*−2
MILDATA RJ45 CONNECTION IN LOW VOLTAGE CONTROL BOX
*=J9<REV G =J6≥REV G
ESPS
120VAC TO −12VDC +12VDC +5VDC
POWER SUPPLY
LOCATED IN LOW VOLTAGE CONTROL BOX
1MTP−5
1MTP−3
1MTP−1
1MTD−3
1MTD−2
1MTD−1
1MTD−6
1MTD−4
1MTD−5
V1
V1
V2
V3
0V
0V
D
F
5
6
SEE W6W5DZS+ LINE 00
SEE W6W5DZEV LINE 02
7
103
105
104
103
RS02
RESISTOR 16 OHM 25W
107
106
1MTA1−5
1MTA1−6
1MTA1−7
1MTA1−8
1MTA1−4
1MTA1−3
1MTA1−2
1MTA1−1
TB104
SEE W6W5DZI1 LINE 18
SEE W6W5DZCS LINE 06
B
C
7
BDA−1
(HIGH RESOLUTION DIGITAL TO ANALOG BOARD) SINGLE MOTOR
3 SW2
1 SW1
B024−3
(24 OUTPUT BOARD 3) OPTIONAL FOR PROGRAMABLE OUTPUTS
1 SW2
3 SW1
B024−2
(24 OUTPUT BOARD 2) OPTIONAL FOR SINGLE MOTOR WITH LIQUID SUPPLIES OR MULTIMOTOR
1 SW2
2 SW1
BIO−A
AUTOSPOT 8OUTPUT 16 INPUT BOARD SINGLE MOTOR ONLY
NOT ON SERIAL LINK (NO ADDRESS SETTINGS)
BAD−1
(ANALOG TO DIGITAL CONV BOARD)
2 SW2
1 SW1
B024−1
(24 OUTPUT BOARD)
1 SW2
1 SW1
BIO−2
(8 OUTPUT,16 INPUT BOARD 2)
0 SW2
2 SW1
2MTA2−6
2MTA4−20
2MTA2−4
104
BIO−1
(HIGH SPEED 8 OUTPUT,16 INPUT BOARD 1)
0 SW2
1 SW1
1MTA2−6
1MTA4−20
1MTA2−4
104
LITHO IN U.S.A.
00
01
02
03
04
05
06
07
08
09
10
W6W5DZBW
2021033B

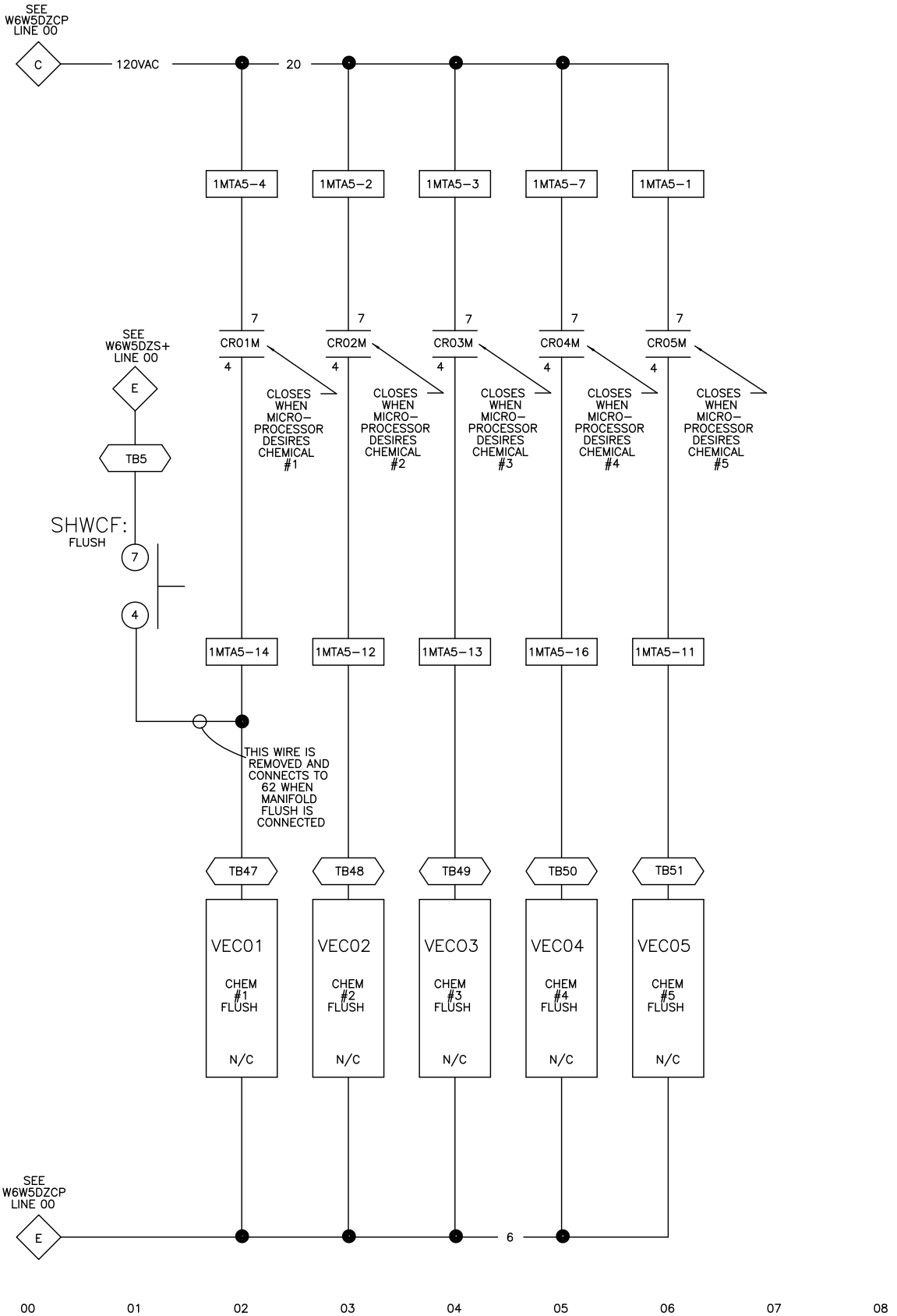
NOTES:

1. 1MTP, 1MTD ARE LOCATED ON ESPS (POWER SUPPLY).
2. 2MTP, 2MTD ARE LOCATED ON ESPS2 (POWER SUPPLY).
3. J4 AND J9 ARE LOCATED ON BPB (ARM 9 PROCESSOR BOARD)
4. 1MTA2, 1MTA3,AND 1MTA4 ARE LOCATED ON BIO−1(HIGH SPED 8 OUTPUT−16INPUT BOARD).
5. 2MTA2, 2MTA3,AND 2MTA4 ARE LOCATED ON BIO−2(HIGH SPED 8 OUTPUT−16INPUT BOARD).
6. 1MTA1 IS LOCATED BMTH (MOTHER BOARD).
7. 1MTA54 IS LOCATED ON BAD−1 (ANALOG TO DIGITAL BOARD).
8. TBP IS LOCATED IN LOW VOLTAGE CONTROL BOX.
9. W1 IS LOCATED ON BSP (SPEED SENSING BOARD).



W6W5DZBW
MILTOUCH−EX™ CONTROLS
SCHEMATIC: BOARD TO BOARD WIRING

PELLERIN MILNOR CORPORATION



W6W5DZCF
2024083B

W6W5DZCF

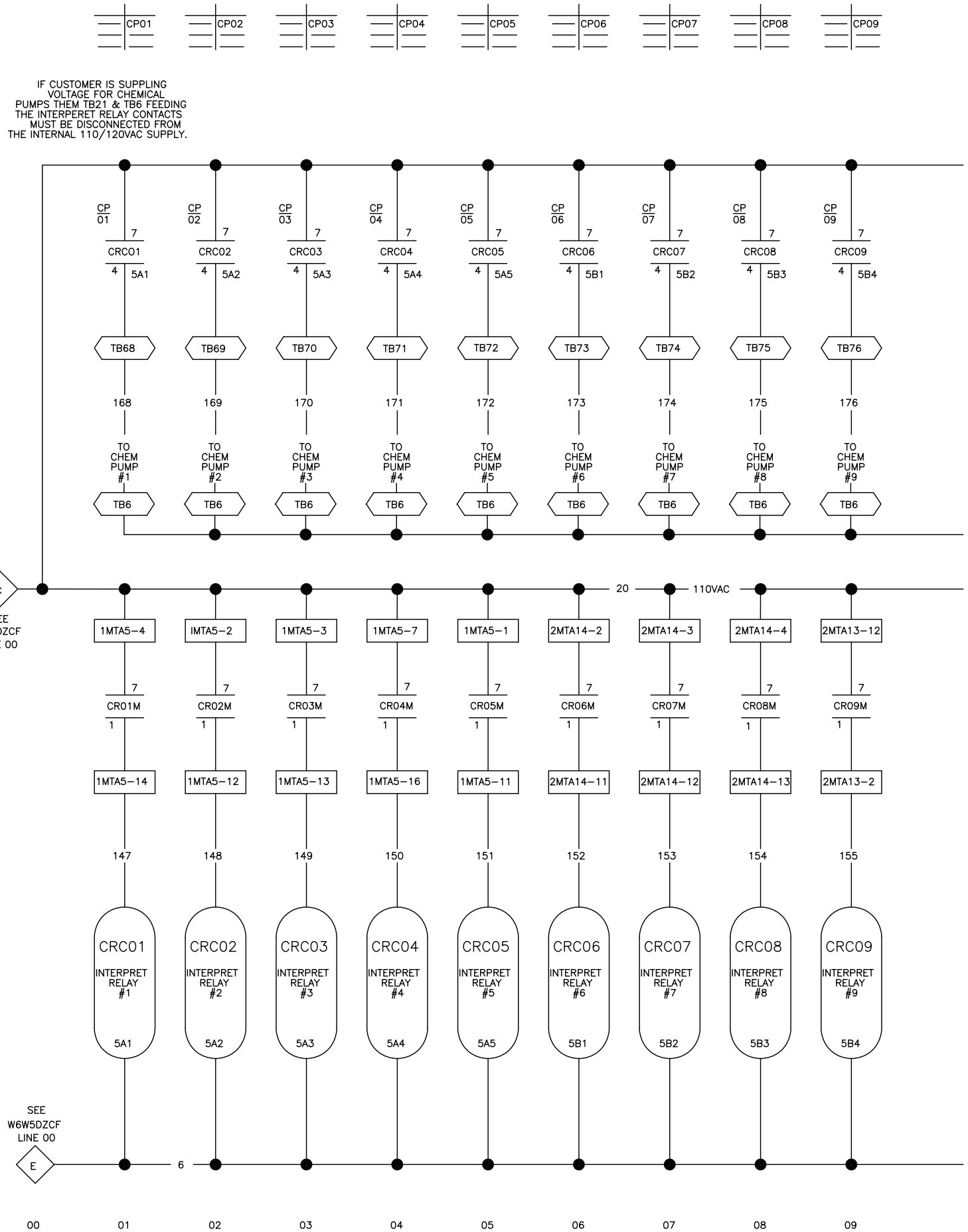
MILTOUCH–EX™ CONTROLS

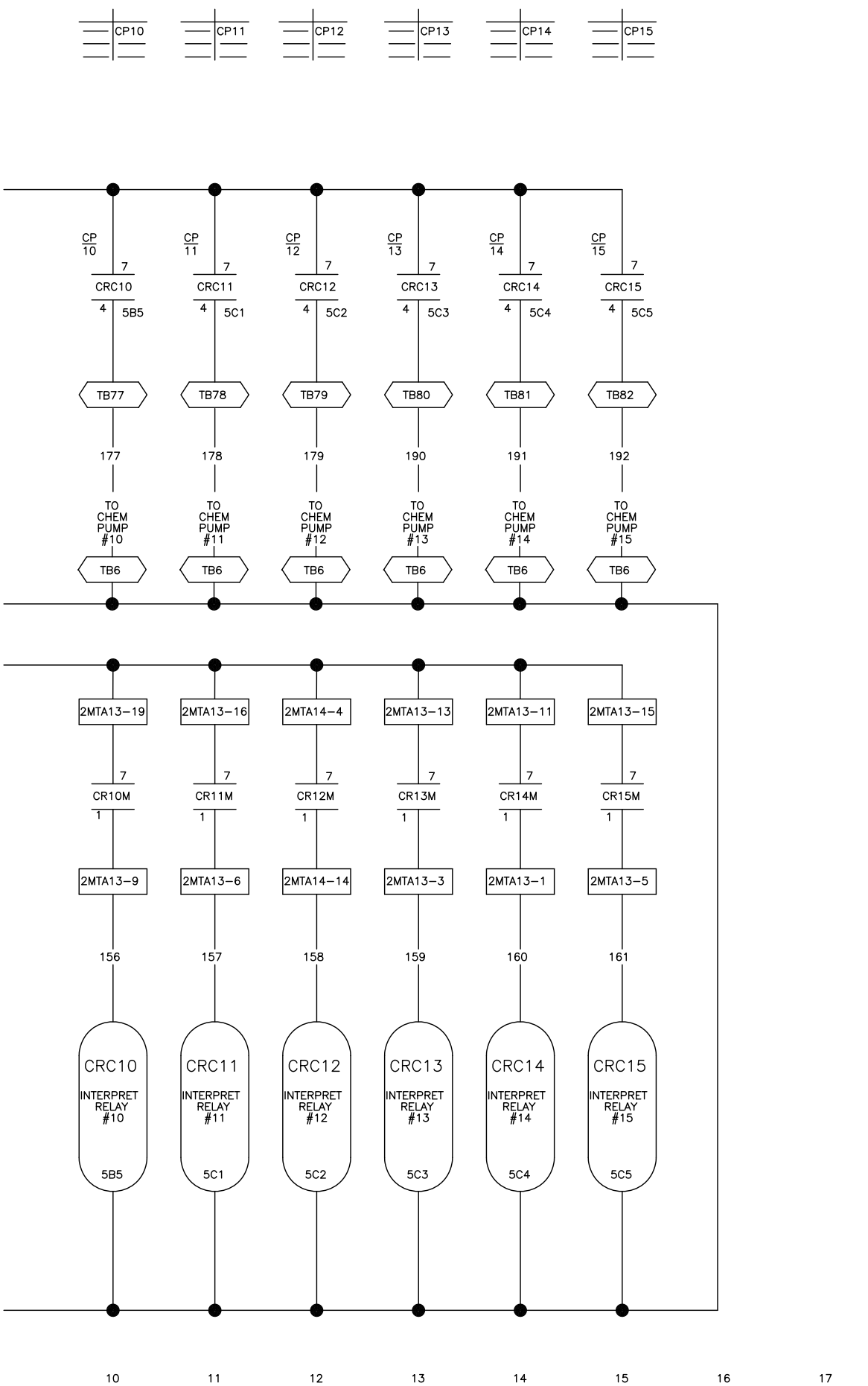
SCHEMATIC: FLUSHING SUPPLIES

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

W6W5DZCF
2024083B


CP01
CP02
CP03
CP04
CP05
CP06
CP07
CP08
CP09
IF CUSTOMER IS SUPPLING VOLTAGE FOR CHEMICAL PUMPS THEM TB21 & TB6 FEEDING THE INTERPERET RELAY CONTACTS MUST BE DISCONNECTED FROM THE INTERNAL 110/120VAC SUPPLY.
CP 01
CP 02
CP 03
CP 04
CP 05
CP 06
CP 07
CP 08
CP 09
7
CRC01
CRC02
CRC03
CRC04
CRC05
CRC06
CRC07
CRC08
CRC09
4
5A1
5A2
5A3
5A4
5A5
5B1
5B2
5B3
5B4
TB68
TB69
TB70
TB71
TB72
TB73
TB74
TB75
TB76
168
169
170
171
172
173
174
175
176
TO CHEM PUMP #1
TO CHEM PUMP #2
TO CHEM PUMP #3
TO CHEM PUMP #4
TO CHEM PUMP #5
TO CHEM PUMP #6
TO CHEM PUMP #7
TO CHEM PUMP #8
TO CHEM PUMP #9
TB6
C
SEE W6W5DZCF LINE 00
20
110VAC
1MTA5-4
IMTA5-2
1MTA5-3
1MTA5-7
1MTA5-1
2MTA14-2
2MTA14-3
2MTA14-4
2MTA13-12
CR01M
CR02M
CR03M
CR04M
CR05M
CR06M
CR07M
CR08M
CR09M
1
1MTA5-14
1MTA5-12
1MTA5-13
1MTA5-16
1MTA5-11
2MTA14-11
2MTA14-12
2MTA14-13
2MTA13-2
147
148
149
150
151
152
153
154
155
CRC01 INTERPRET RELAY #1
CRC02 INTERPRET RELAY #2
CRC03 INTERPRET RELAY #3
CRC04 INTERPRET RELAY #4
CRC05 INTERPRET RELAY #5
CRC06 INTERPRET RELAY #6
CRC07 INTERPRET RELAY #7
CRC08 INTERPRET RELAY #8
CRC09 INTERPRET RELAY #9
SEE W6W5DZCF LINE 00
E
6
00
01
02
03
04
05
06
07
08
09
W6W5DZCP
2019374B



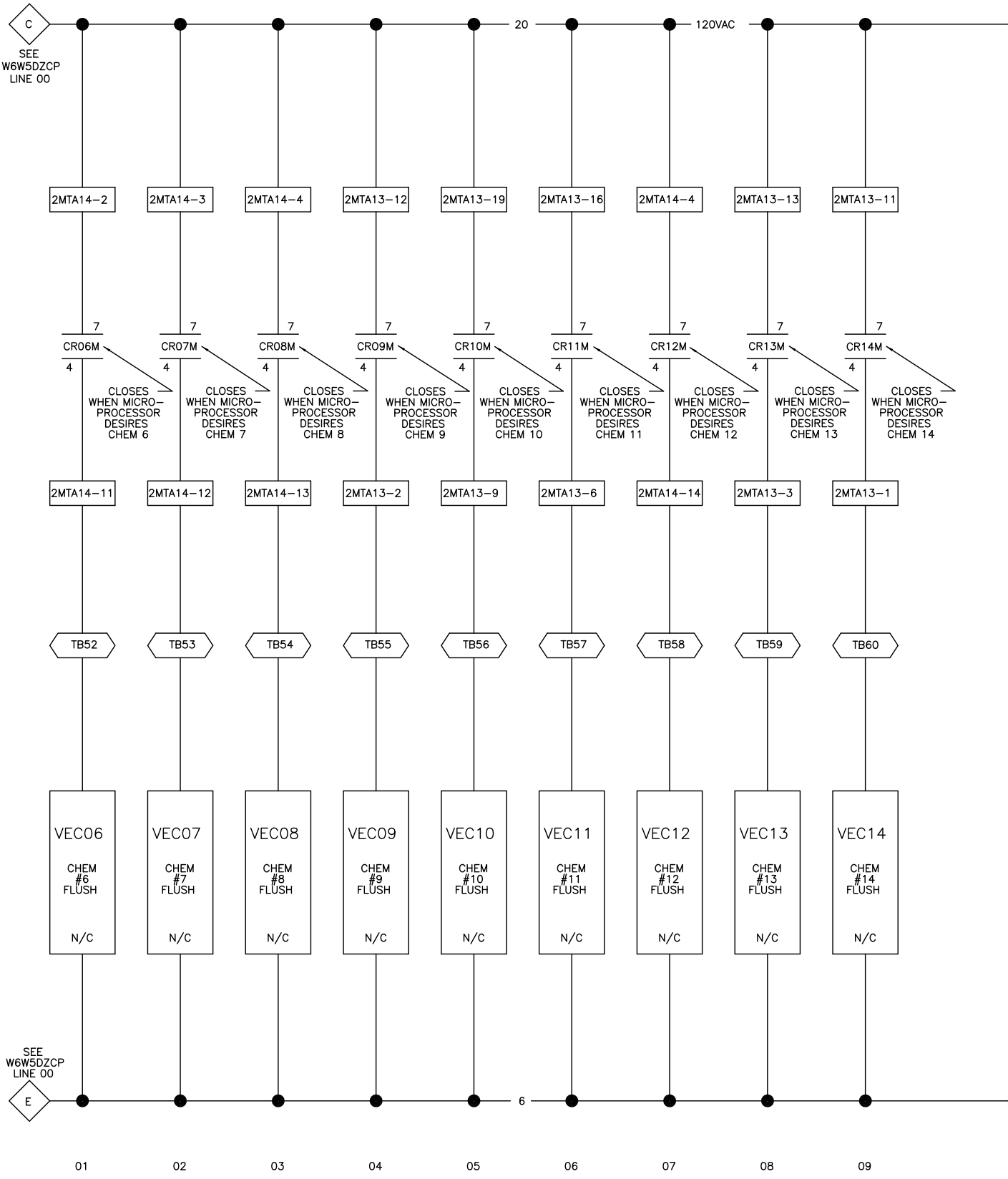
W6W5DZCP

MILTOUCH–EX™ CONTROLS

SCHEMATIC: LIQUID SUPPLY–INTERPRET RELAYS

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

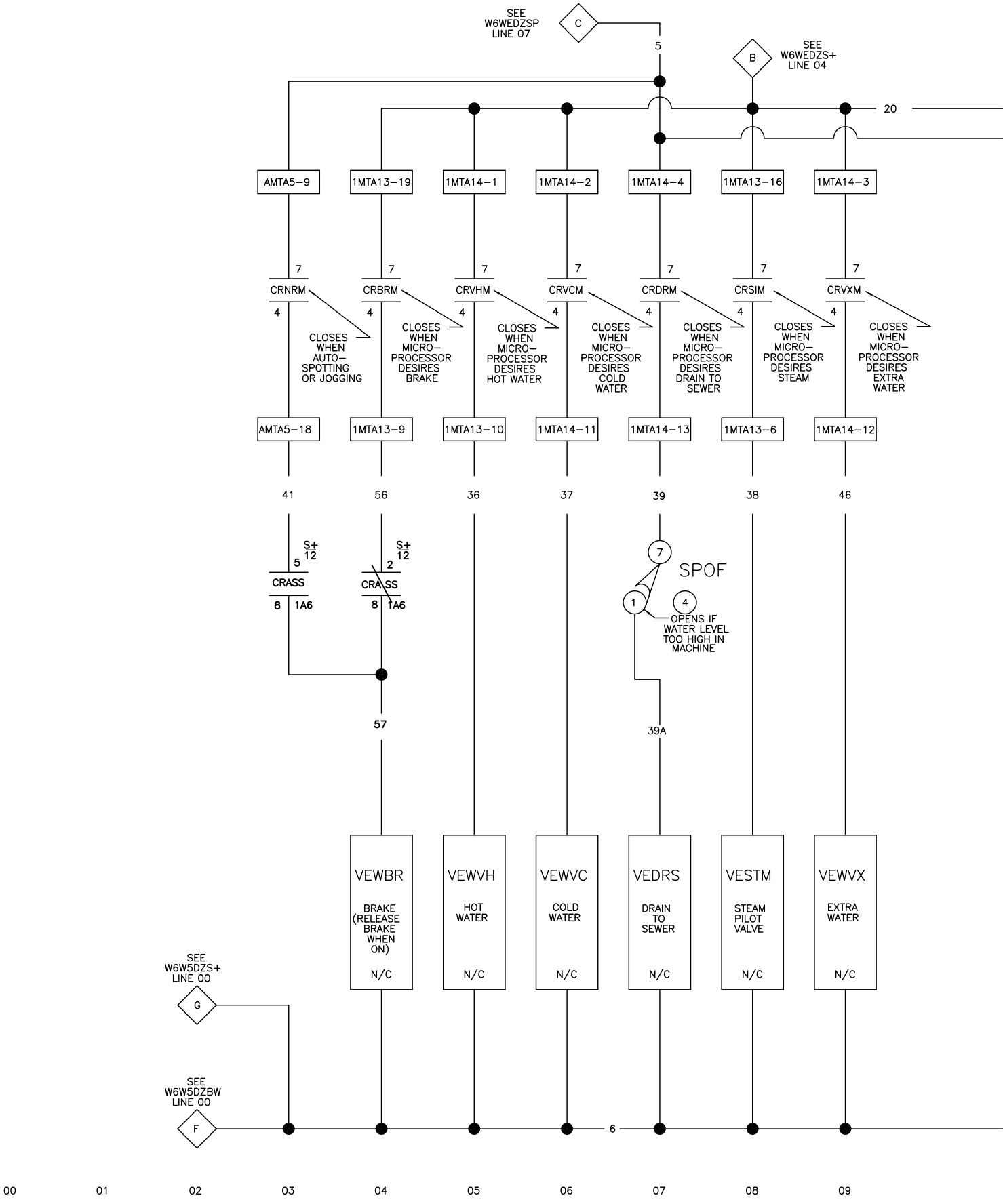

C
SEE W6W5DZCP LINE 00
20
120VAC
2MTA14–2
2MTA14–3
2MTA14–4
2MTA13–12
2MTA13–19
2MTA13–16
2MTA14–4
2MTA13–13
2MTA13–11
7
4
CR06M
CR07M
CR08M
CR09M
CR10M
CR11M
CR12M
CR13M
CR14M
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEM 6
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEM 7
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEM 8
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEM 9
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEM 10
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEM 11
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEM 12
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEM 13
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEM 14
2MTA14–11
2MTA14–12
2MTA14–13
2MTA13–2
2MTA13–9
2MTA13–6
2MTA14–14
2MTA13–3
2MTA13–1
TB52
TB53
TB54
TB55
TB56
TB57
TB58
TB59
TB60
VEC06 CHEM #6 FLUSH N/C
VEC07 CHEM #7 FLUSH N/C
VEC08 CHEM #8 FLUSH N/C
VEC09 CHEM #9 FLUSH N/C
VEC10 CHEM #10 FLUSH N/C
VEC11 CHEM #11 FLUSH N/C
VEC12 CHEM #12 FLUSH N/C
VEC13 CHEM #13 FLUSH N/C
VEC14 CHEM #14 FLUSH N/C
SEE W6W5DZCP LINE 00
E
6
00
01
02
03
04
05
06
07
08
09

W6W5DZCX

MILTOUCH–EX™ CONTROLS

SCHEMATIC: CENTRAL LIQUID SUPPLY FLUSH 6 THRU 15

PELLERIN MILNOR CORPORATION



W6W5DZEV
2024145B

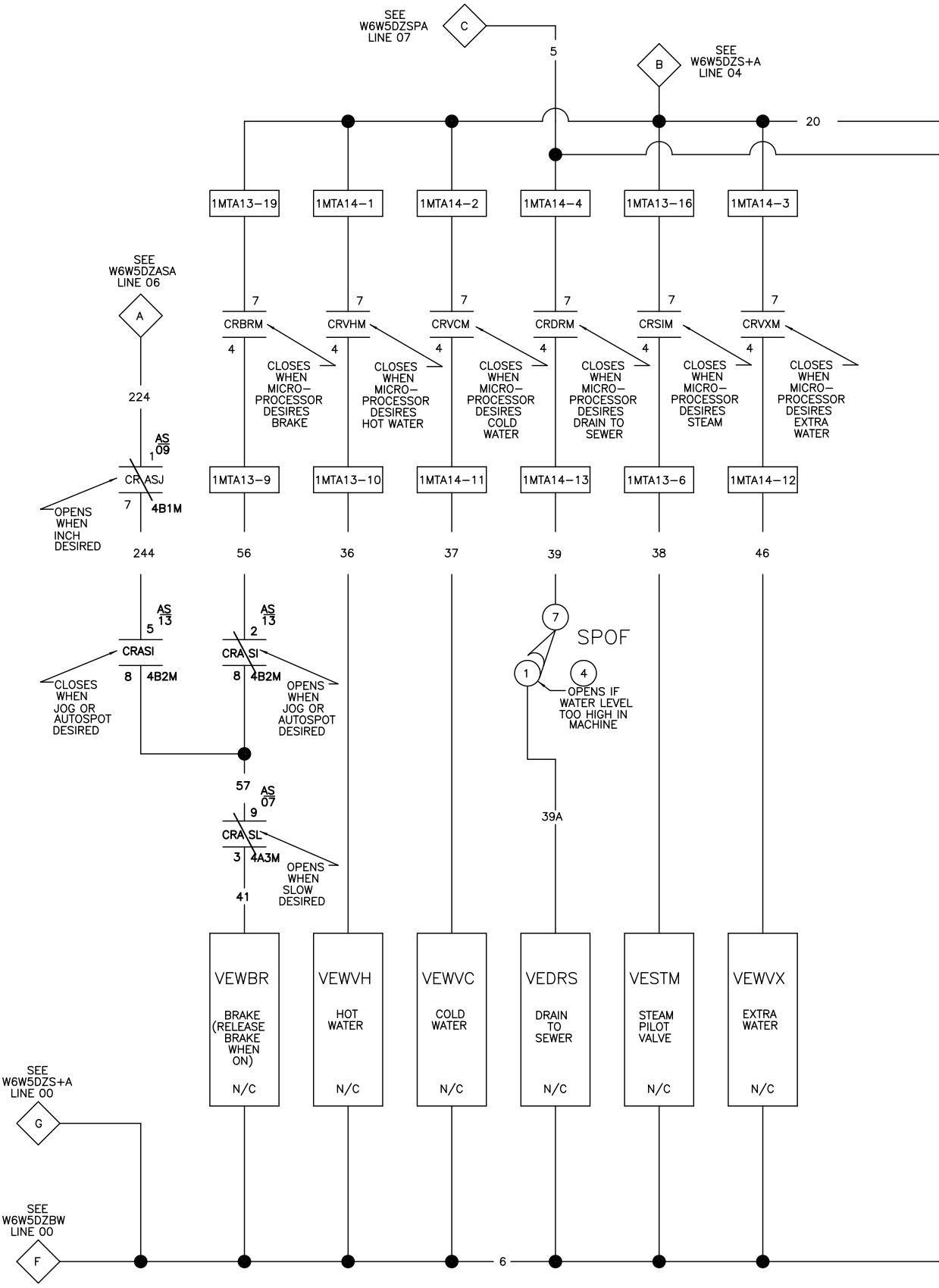
W6W5DZEV

MILTOUCH–EX™ CONTROLS

SHCEMATIC: ELECTRICAL VALVES

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION



W6W5DZEVA
2024145B

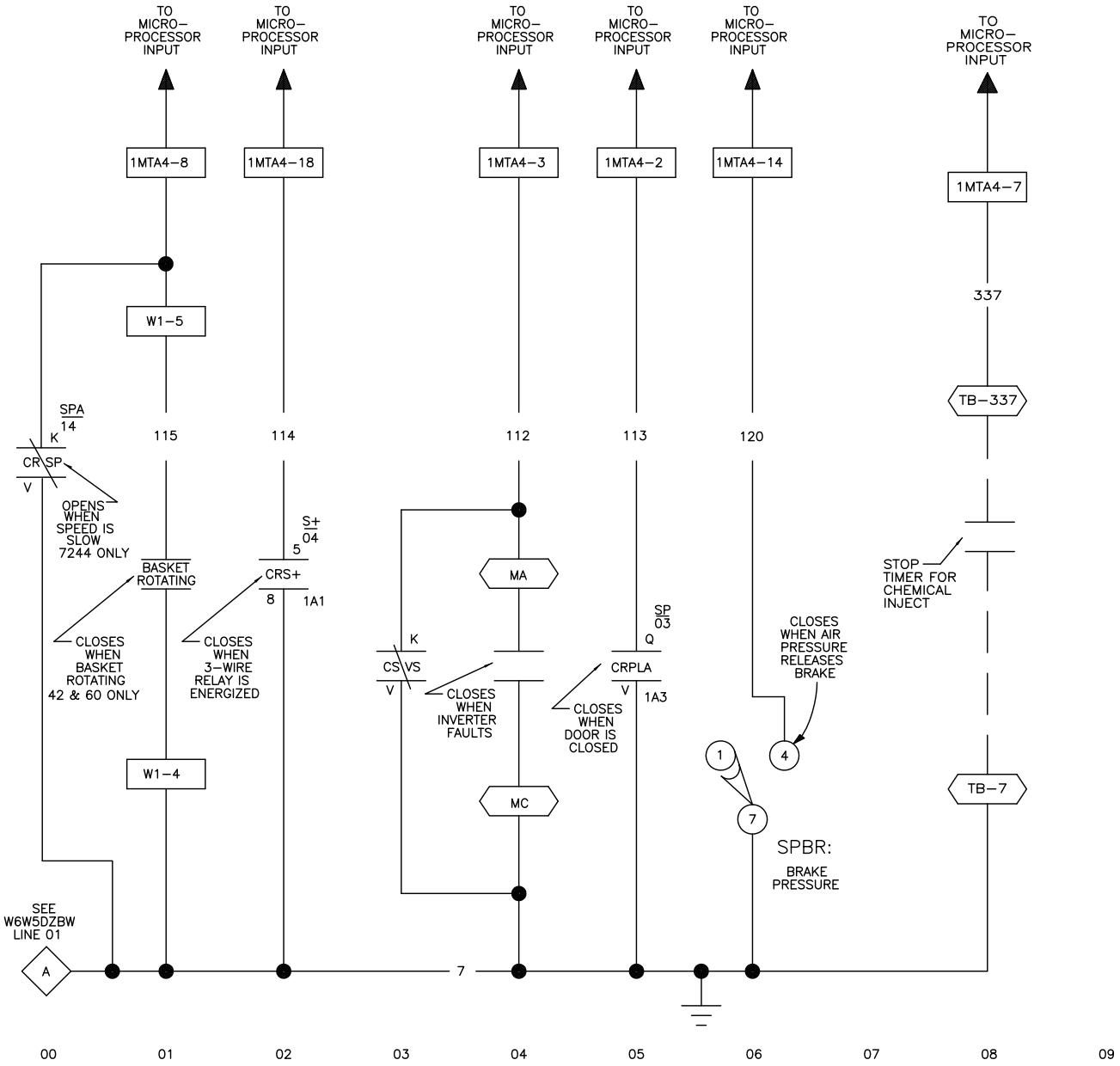
W6W5DZEVA

MILTOUCH–EX™ CONTROLS

SHCEMATIC: ELECTRICAL VALVES FOR 7244WR2/3 ONLY

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION



W6W5DZI1
2016172B

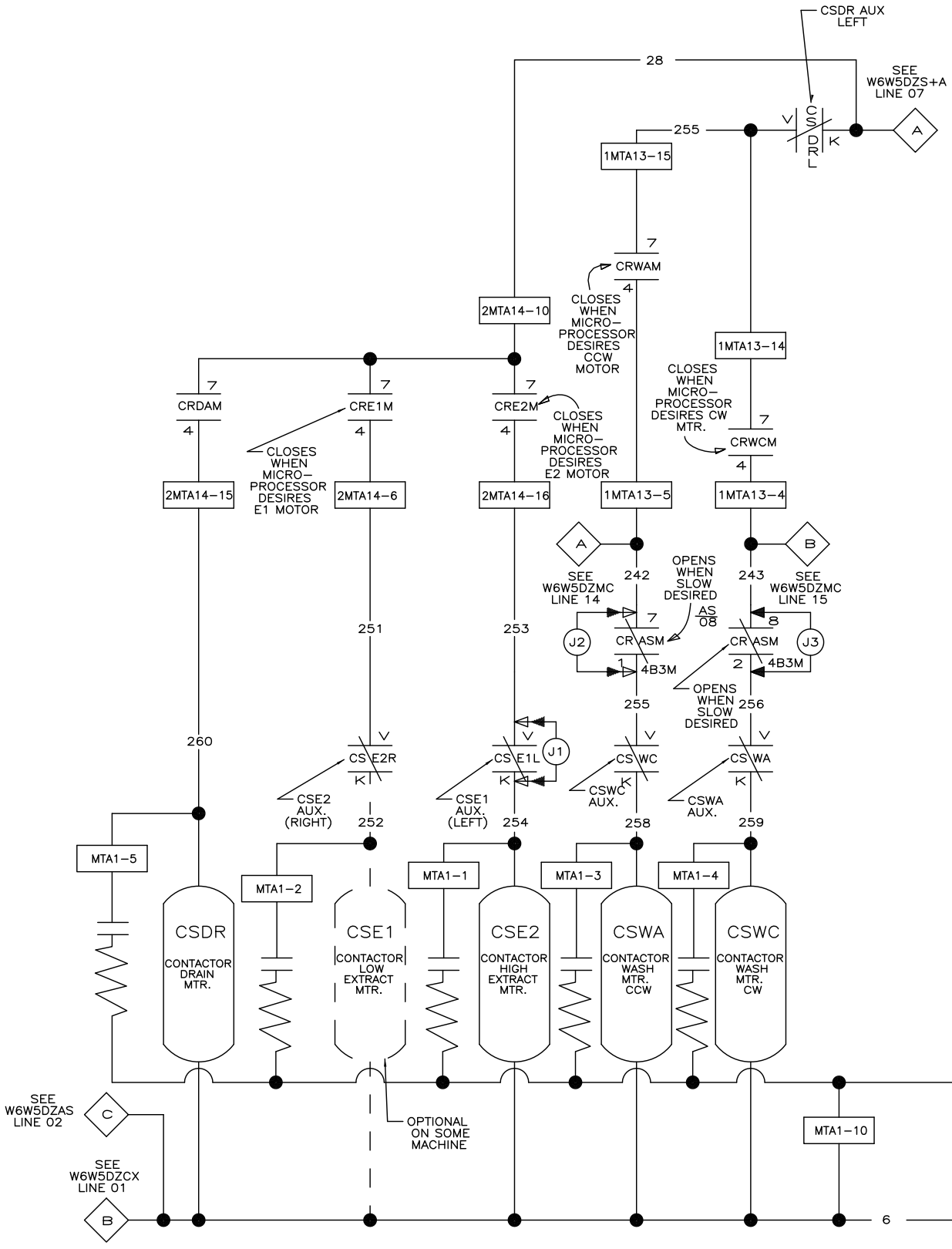
W6W5DZI1

MILTOUCH—EX™ CONTROLS

SCHEMATIC: MICROPROCESSOR INPUTS

PELLERIN MILNOR CORPORATION

10 11 12 13 14

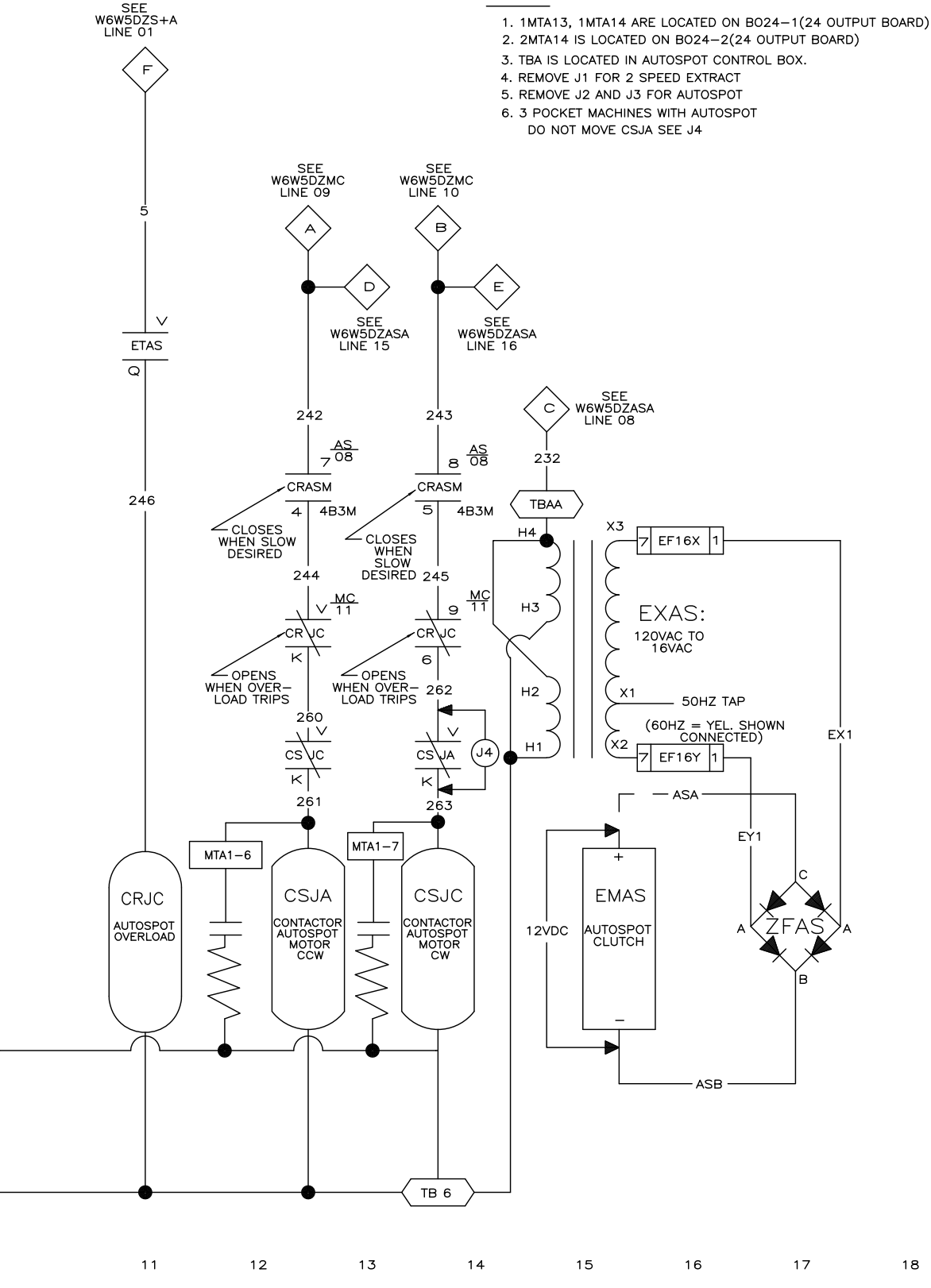


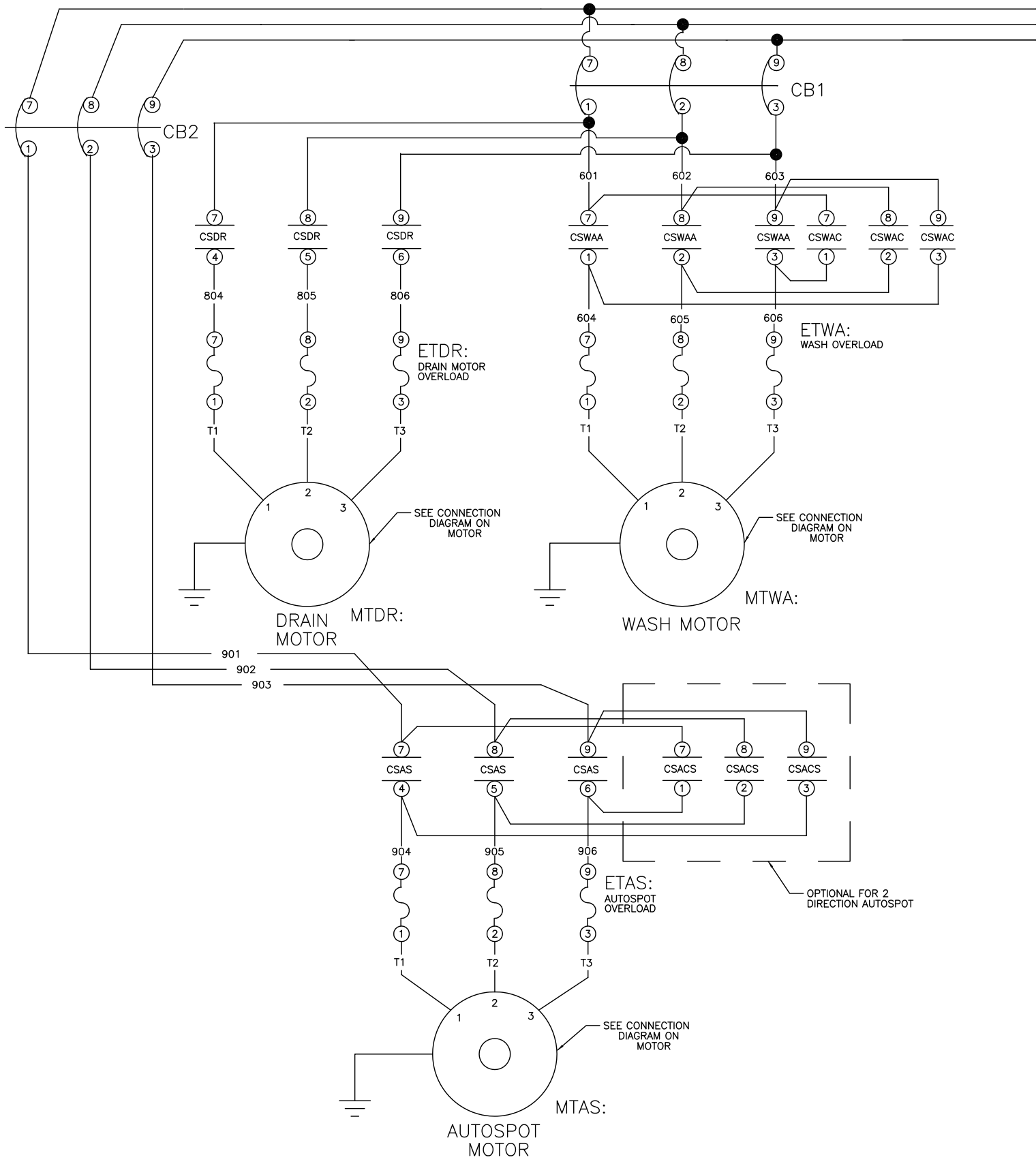
W6W5DZMC
2023104B

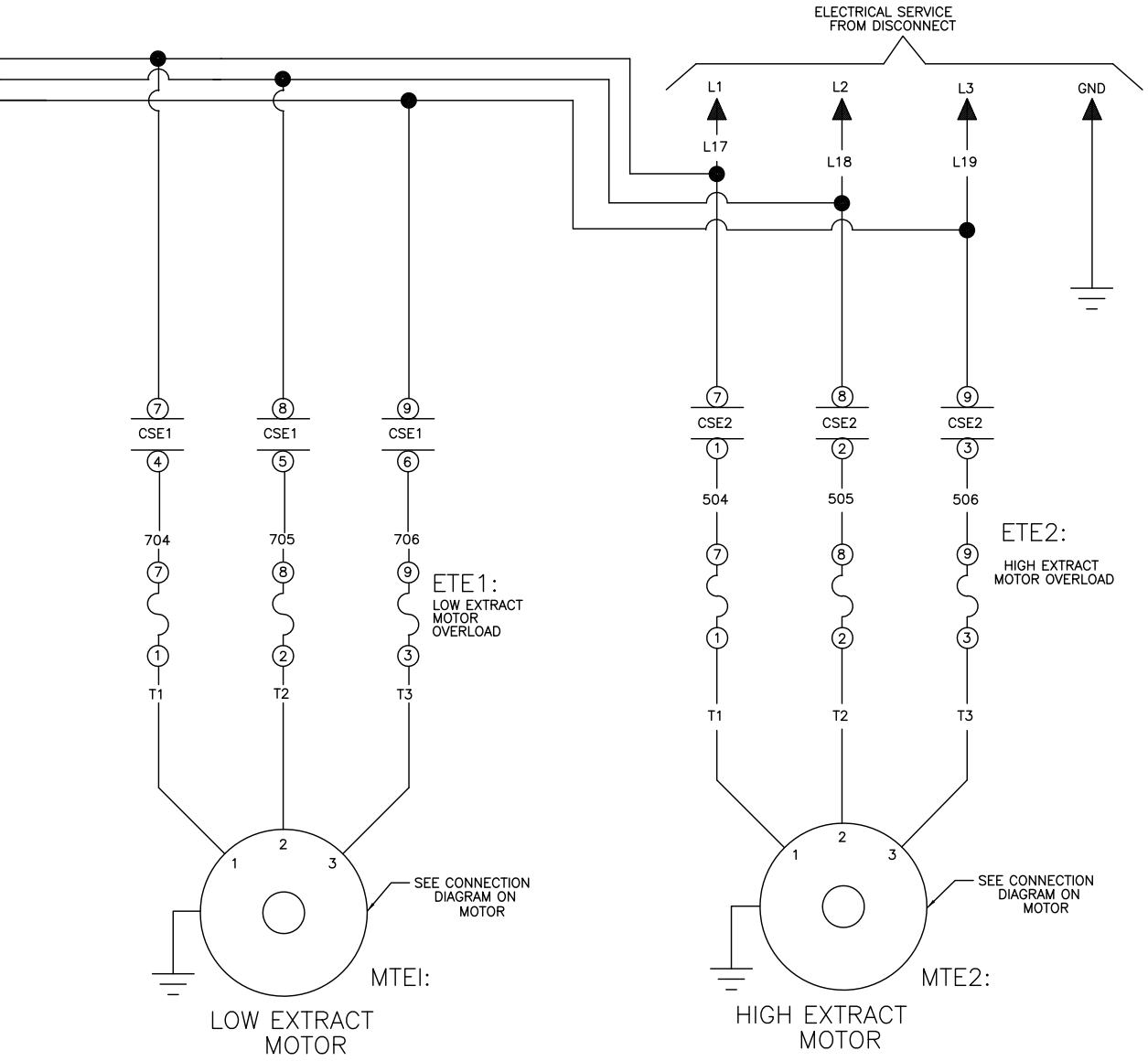
W6W5DZMC
MILTOUCH–EX™ CONTROLS
SCHEMATIC: DRIVE MOTOR CONTACTORS
FOR 72044WR2/3 ONLY
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. 1MTA13, 1MTA14 ARE LOCATED ON BO24–1(24 OUTPUT BOARD)
2. 2MTA14 IS LOCATED ON BO24–2(24 OUTPUT BOARD)
3. TBA IS LOCATED IN AUTOSPOT CONTROL BOX.
4. REMOVE J1 FOR 2 SPEED EXTRACT
5. REMOVE J2 AND J3 FOR AUTOSPOT
6. 3 POCKET MACHINES WITH AUTOSPOT DO NOT MOVE CSJA SEE J4




CB2
CB1
601
602
603
CSDR
CSDR
CSDR
CSWAA
CSWAA
CSWAA
CSWAC
CSWAC
CSWAC
804
805
806
604
605
606
ETDR:
DRAIN MOTOR
OVERLOAD
ETWA:
WASH OVERLOAD
T1
T2
T3
SEE CONNECTION DIAGRAM ON MOTOR
SEE CONNECTION DIAGRAM ON MOTOR
DRAIN MOTOR
MTDR:
MTWA:
WASH MOTOR
901
902
903
CSAS
CSAS
CSAS
CSACS
CSACS
CSACS
904
905
906
ETAS:
AUTOSPOT
OVERLOAD
OPTIONAL FOR 2 DIRECTION AUTOSPOT
SEE CONNECTION DIAGRAM ON MOTOR
MTAS:
AUTOSPOT MOTOR
00
01
02
03
04
05
06
07
08
09
10
W6W5DZMTA
2016052B



NOTE:

1. THE FUSING SHOWN ON THIS DRAWING WILL VARY BASED ON VOLTAGE. CHECK MACHINE NAMEPLATE FOR ACTUAL FUSING OF MOTORS.

W6W5DZMTA

MILTOUCH-EX™ CONTROLS

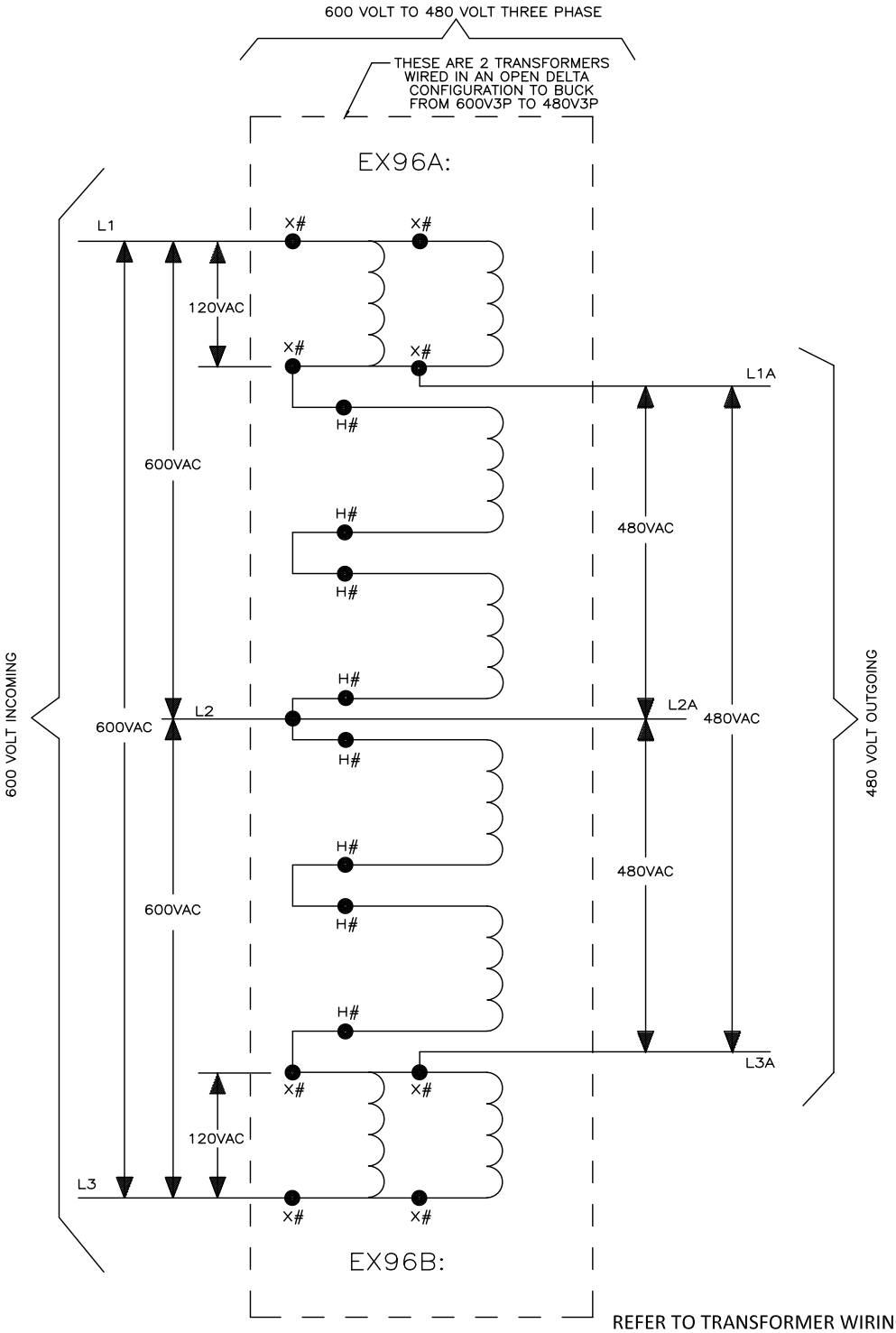
SCHEMATIC: 7244WR2/3 MOTOR CONNECTIONS

PELLERIN MILNOR CORPORATION

W6W5DZMTA
2016052B

11 12 13 14 15 16 17 18 19

W6W5DZMTA
2016052B

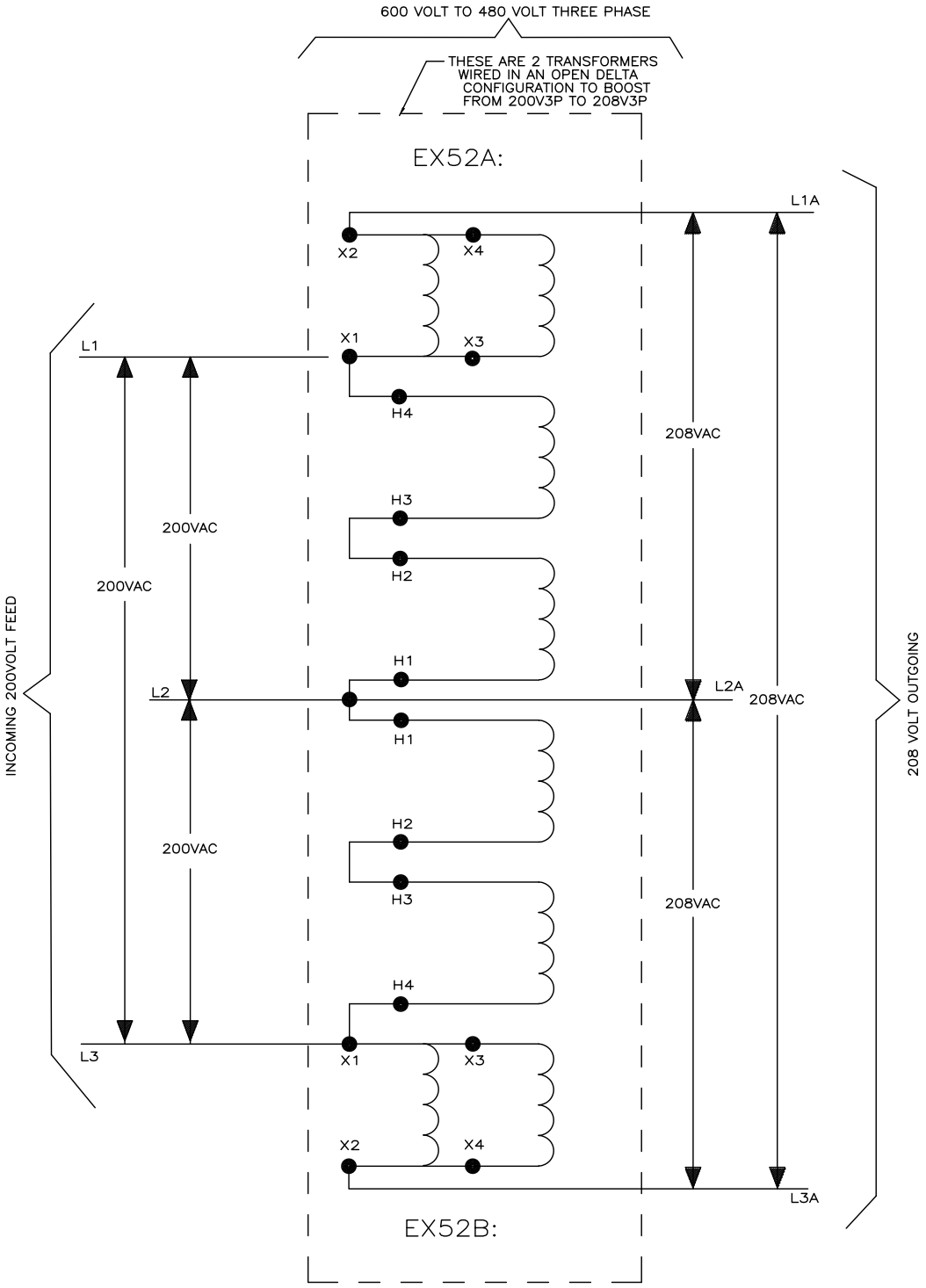


REFER TO TRANSFORMER WIRING DIAGRAM FOR APPROPIATE WIRE NUMBERS.

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

W6W5DZMT6
2019454B



W6W5DZMT6

MILTOUCH—EX™ CONTROLS

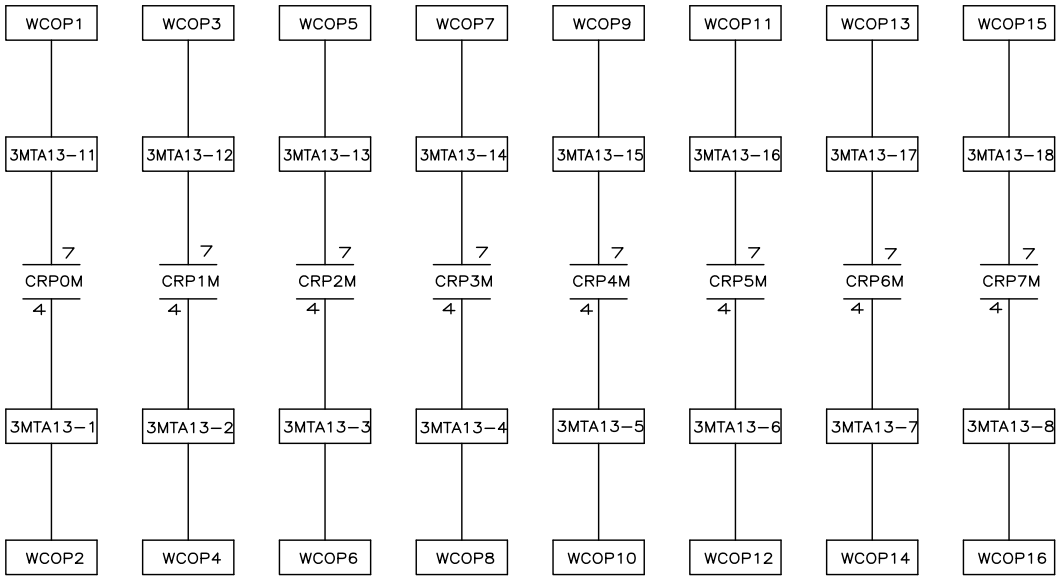
SCHEMATIC: BUCK/BOOST TRANSFORMERS

PELLERIN MILNOR CORPORATION

W6W5DZMT6
2019454B

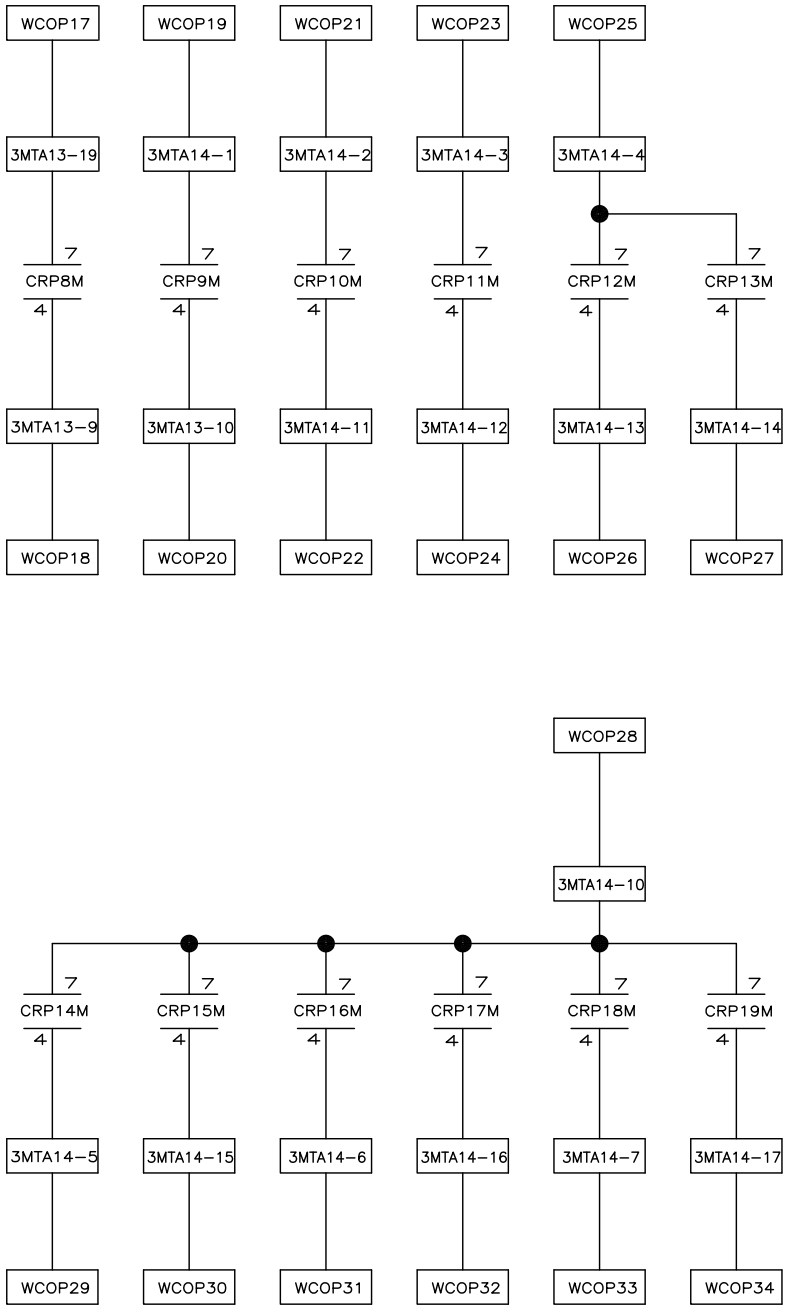
11 12 13 14 15 16 17

W6W5DZMT6
2019454B



00 01 02 03 04 05 06 07 08

W6W5DZOP
2013394B



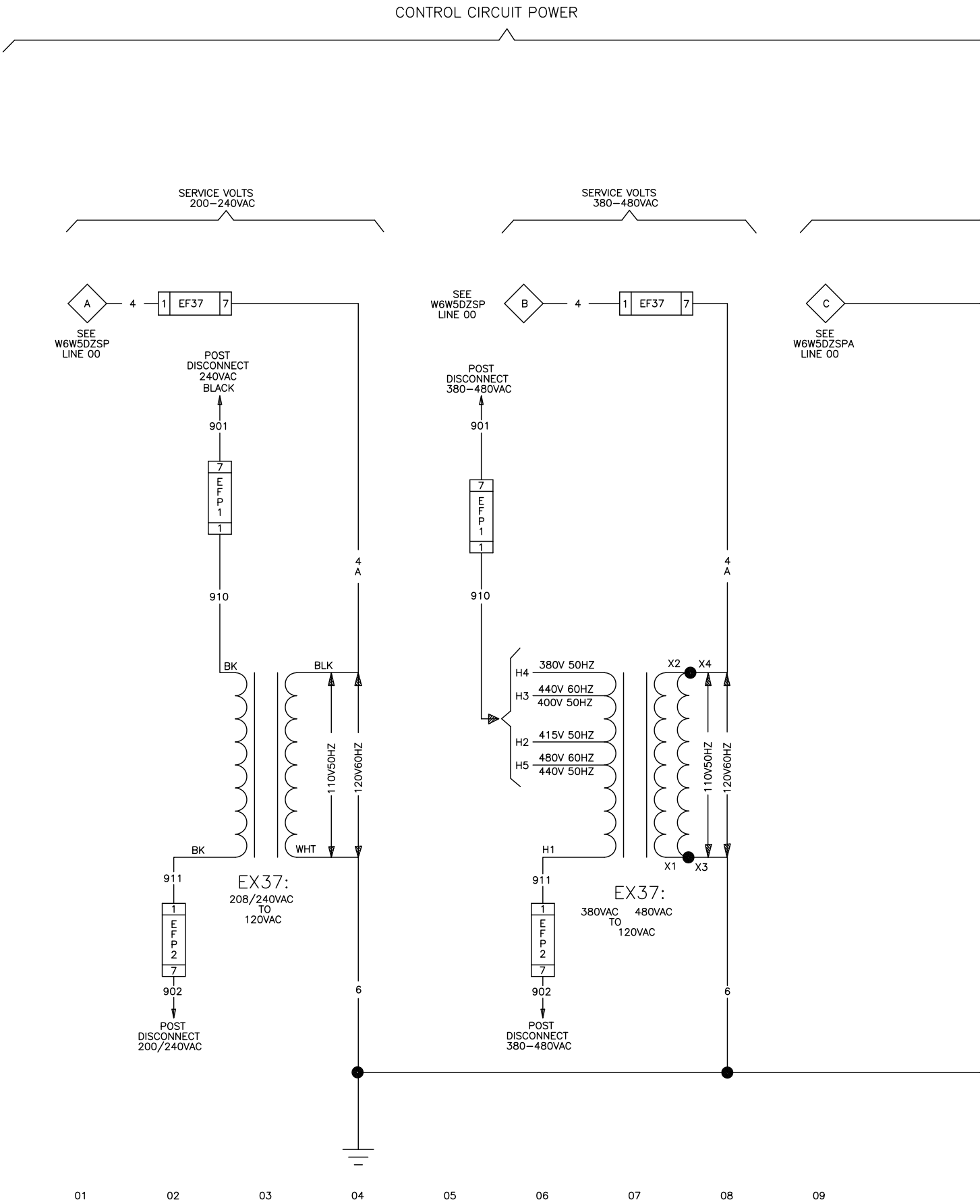
W6W5DZOP

MILTOUCH–EX™ CONTROLS

SCHEMATIC: 20 OPTIONAL PROGRAMABLE OUTPUTS

PELLERIN MILNOR CORPORATION

09 10 11 12 13 14 15 16 17



W6W5DZPS
2016182B

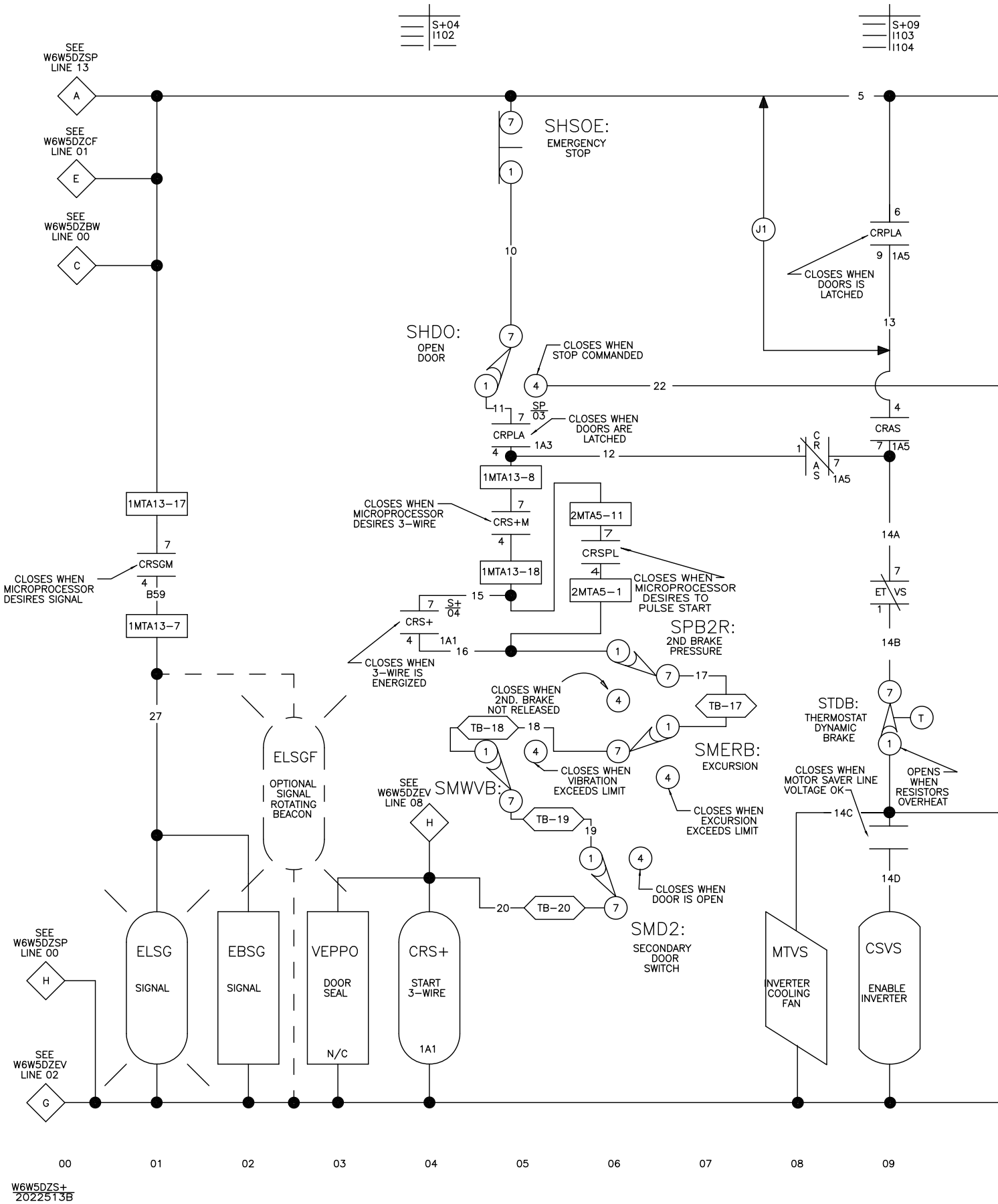
W6W5DZPS

MILTOUCH–EX™ CONTROLS

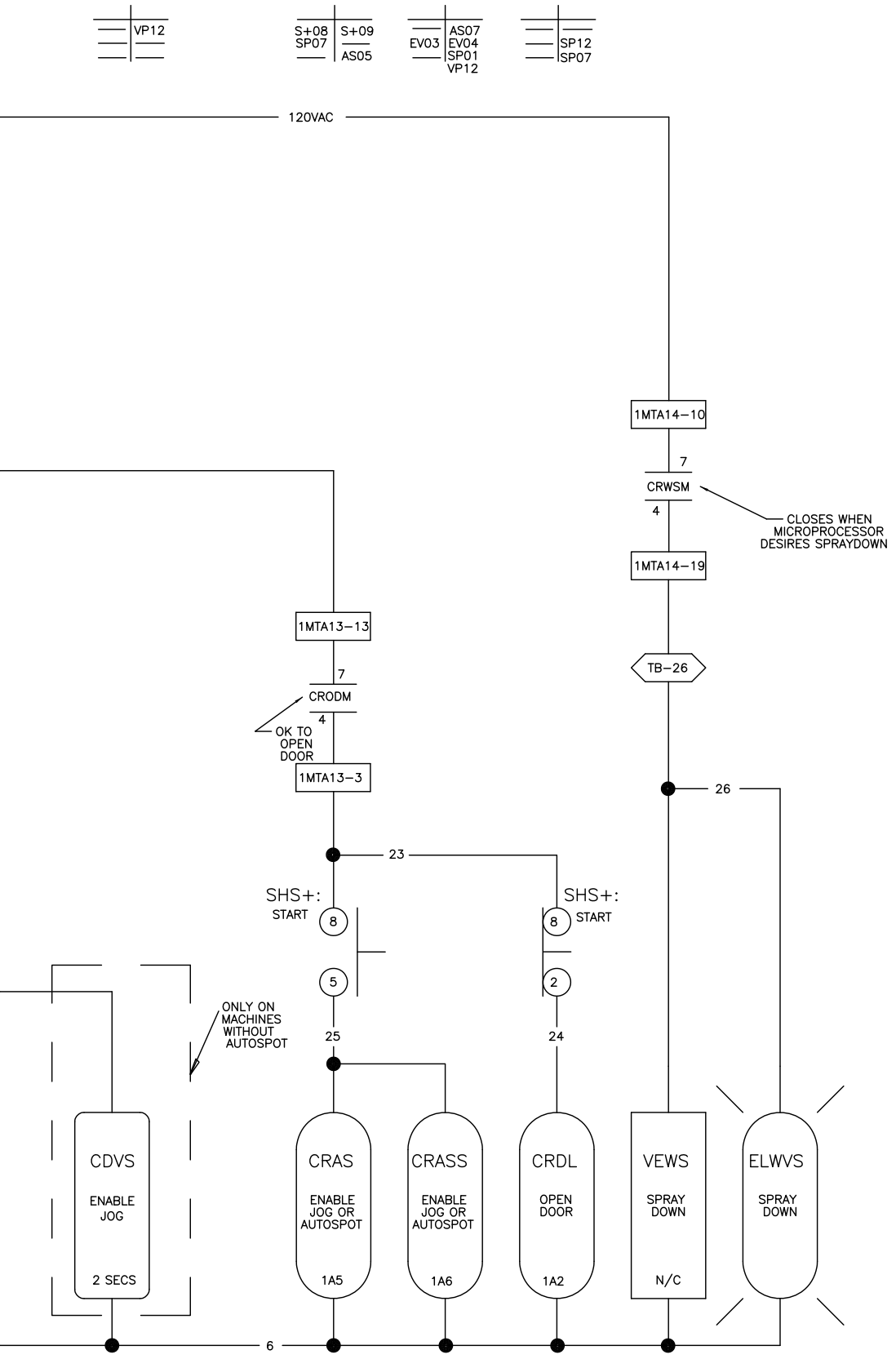
SCHEMATIC:SOURCE 110V1P50HZ/120V1P60HZ CONTROL CIRCUIT POWER

PELLERIN MILNOR CORPORATION

10 11 12 13 14 15

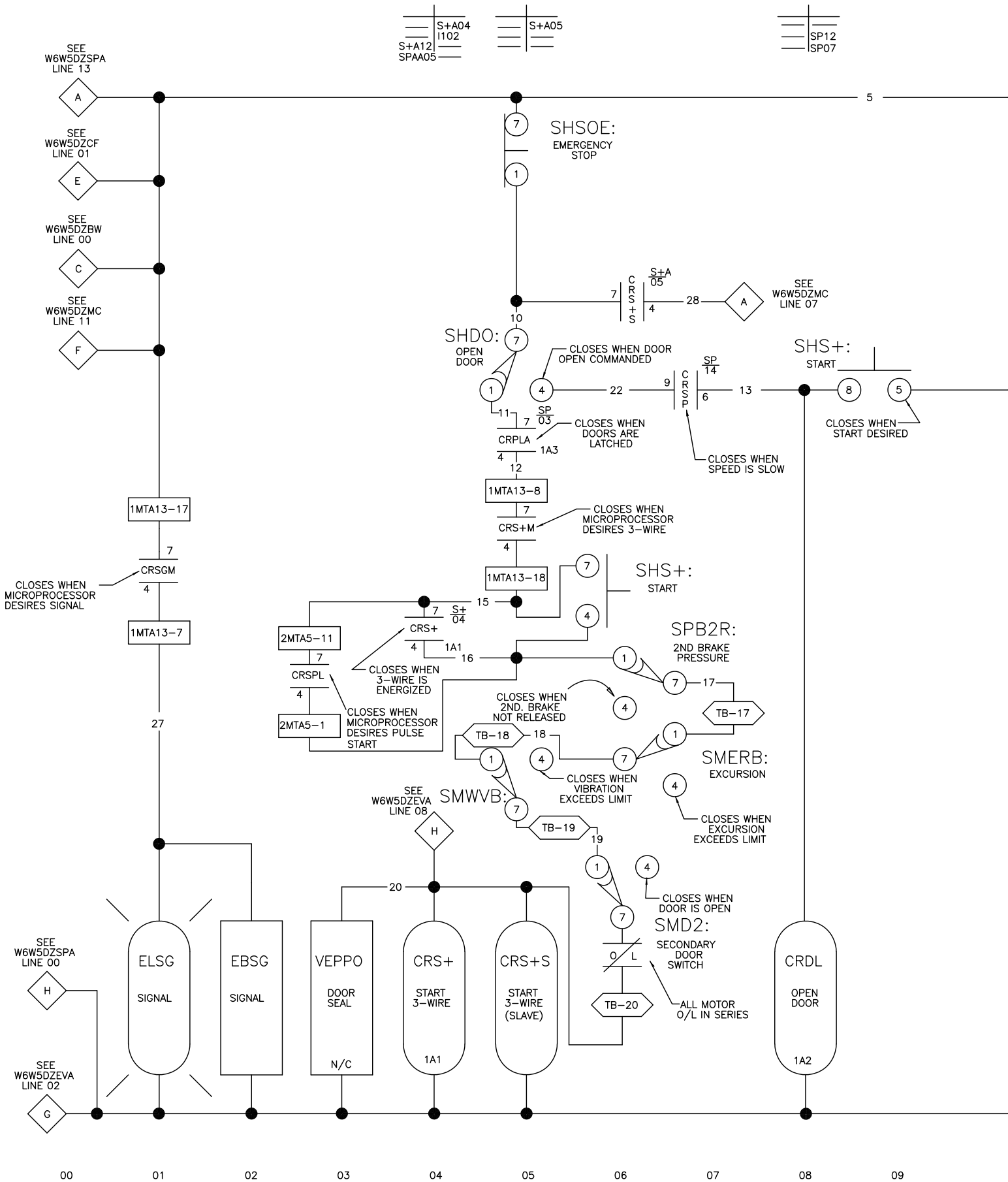


W6W5DZS+
2022513B

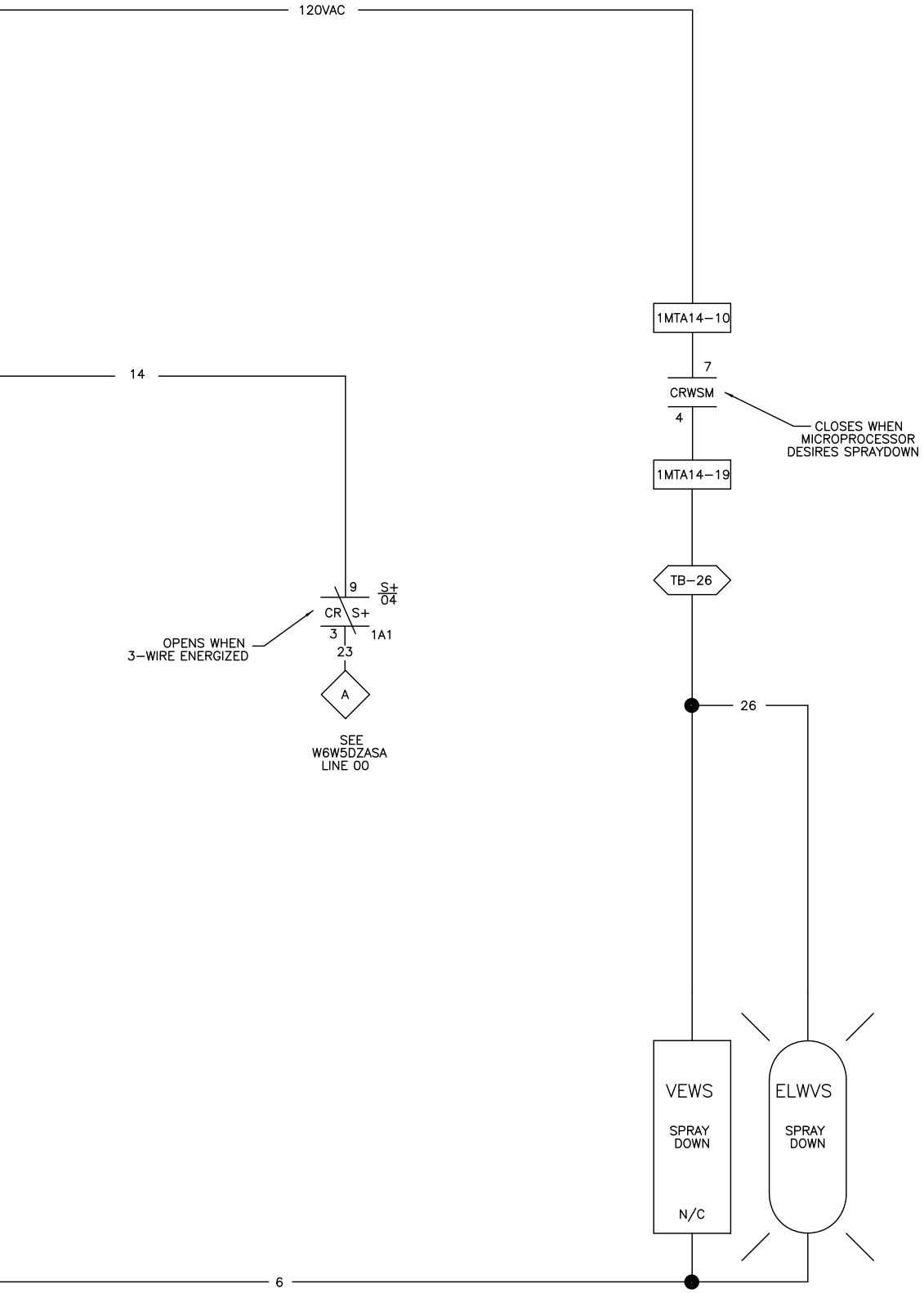


W6W5DZS+
MILTOUCH–EX™ CONTROLS
SCHEMATIC: START CIRCUIT
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTE:
1 REMOVE JUMPER (J1) FOR AUTOSPOT



W6W5DZS+A
2025386B



W6W5DZS+A

MILTOUCH–EX™ CONTROLS

SCHEMATIC: START CIRCUIT

7204WR2/3 ONLY

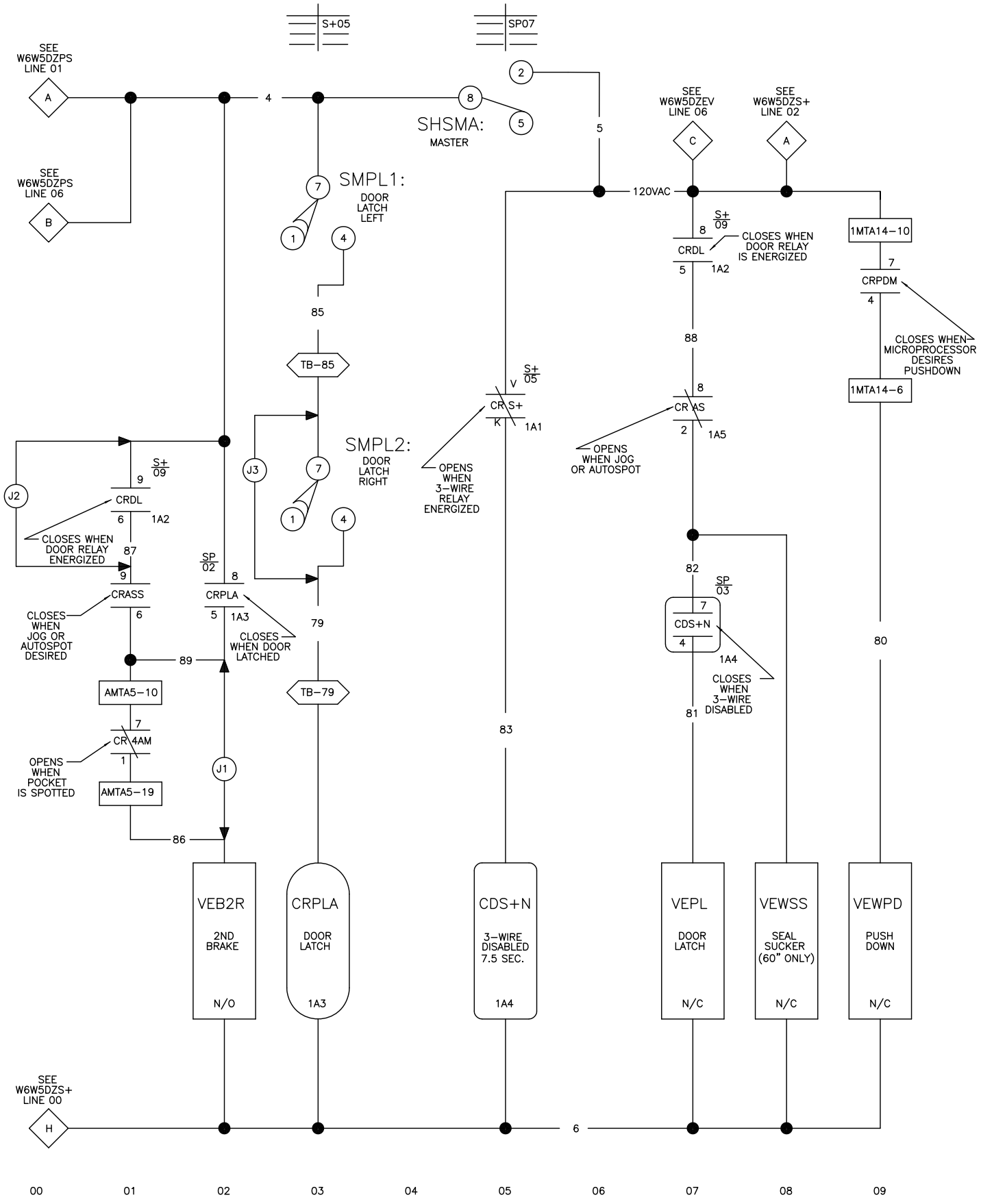
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

NOTE:

1 REMOVE JUMPER (J1)
FOR AUTOSPOT

10 11 12 13 14 15 16 17 18 19



W6W5DZSP
2019435B

W6W5DZSP

MILTOUCH–EX™ CONTROLS

SCHEMATIC: DOOR CIRCUITS, & MASTER SWITCH

110V1P50HZ/120V1P60HZ

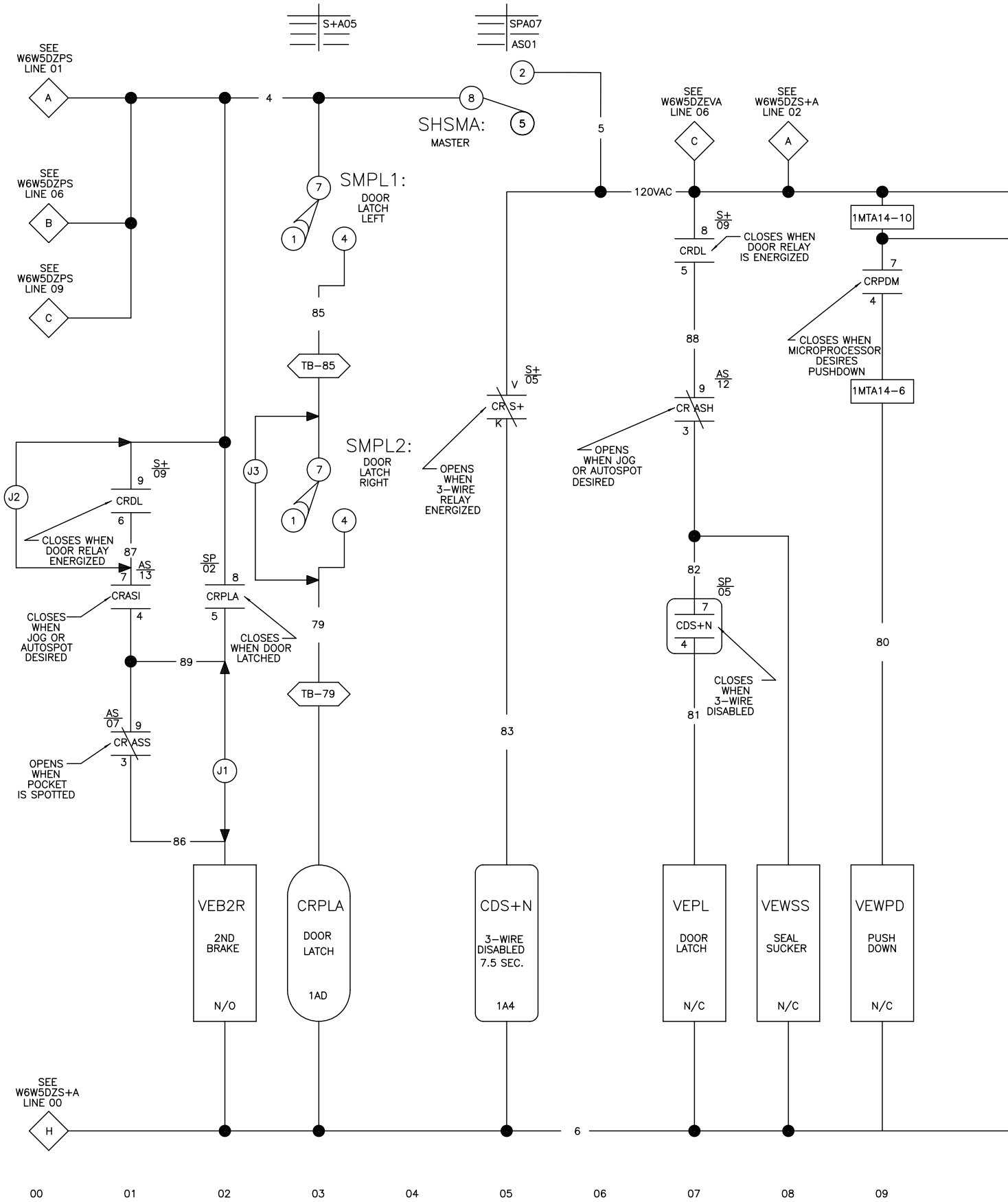
PELLERIN MILNOR CORPORATION

NOTES:

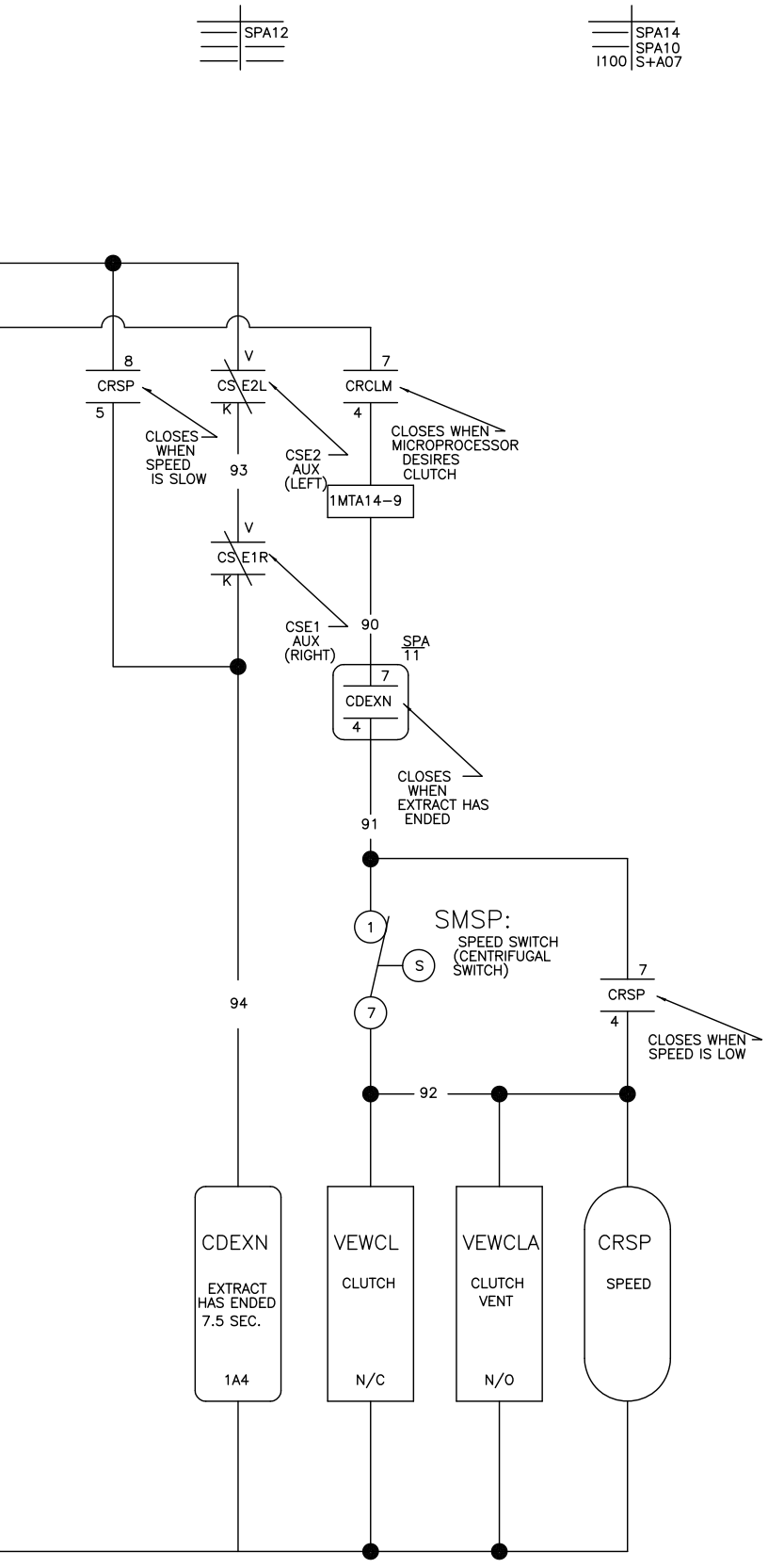
1 REMOVE JUMPERS (J1) AND (J2)
FOR MACHINES WITH AUTOSPOT

2. REMOVE JUMPER (J3) FOR
2 DOOR MODEL MACHINES.

10 11 12 13 14 15 16 17 18 19



W6W5DZSPA
2018343B



W6W5DZSPA

MILTOUCH–EX™ CONTROLS

SCHEMATIC: DOOR CIRCUITS, & MASTER SWITCH 72044WR2/3 ONLY

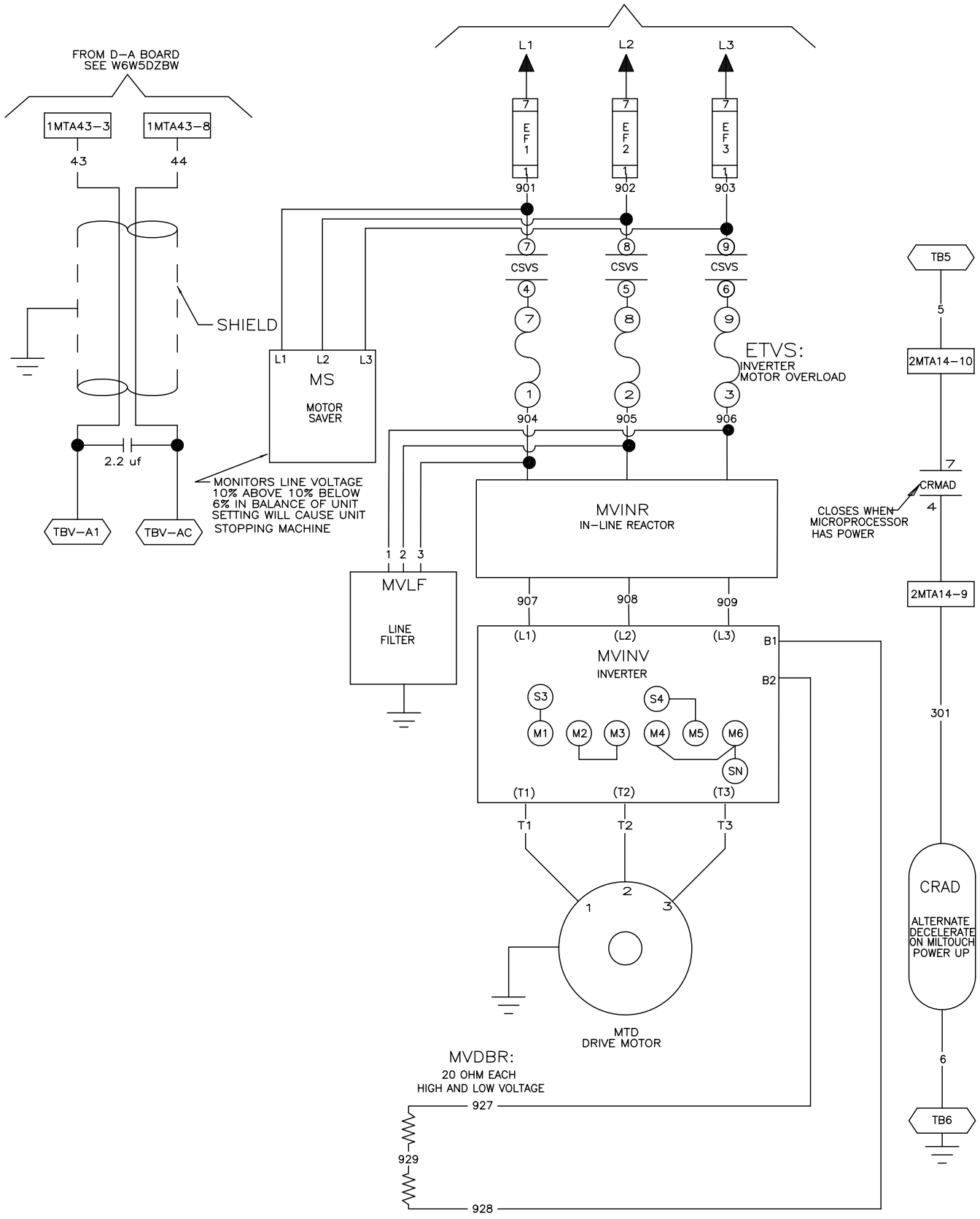
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

NOTES:

1 REMOVE JUMPERS (J1) AND (J2) FOR MACHINES WITH AUTOSPOT

2. REMOVE JUMPER (J3) FOR 2 DOOR MODEL MACHINES.



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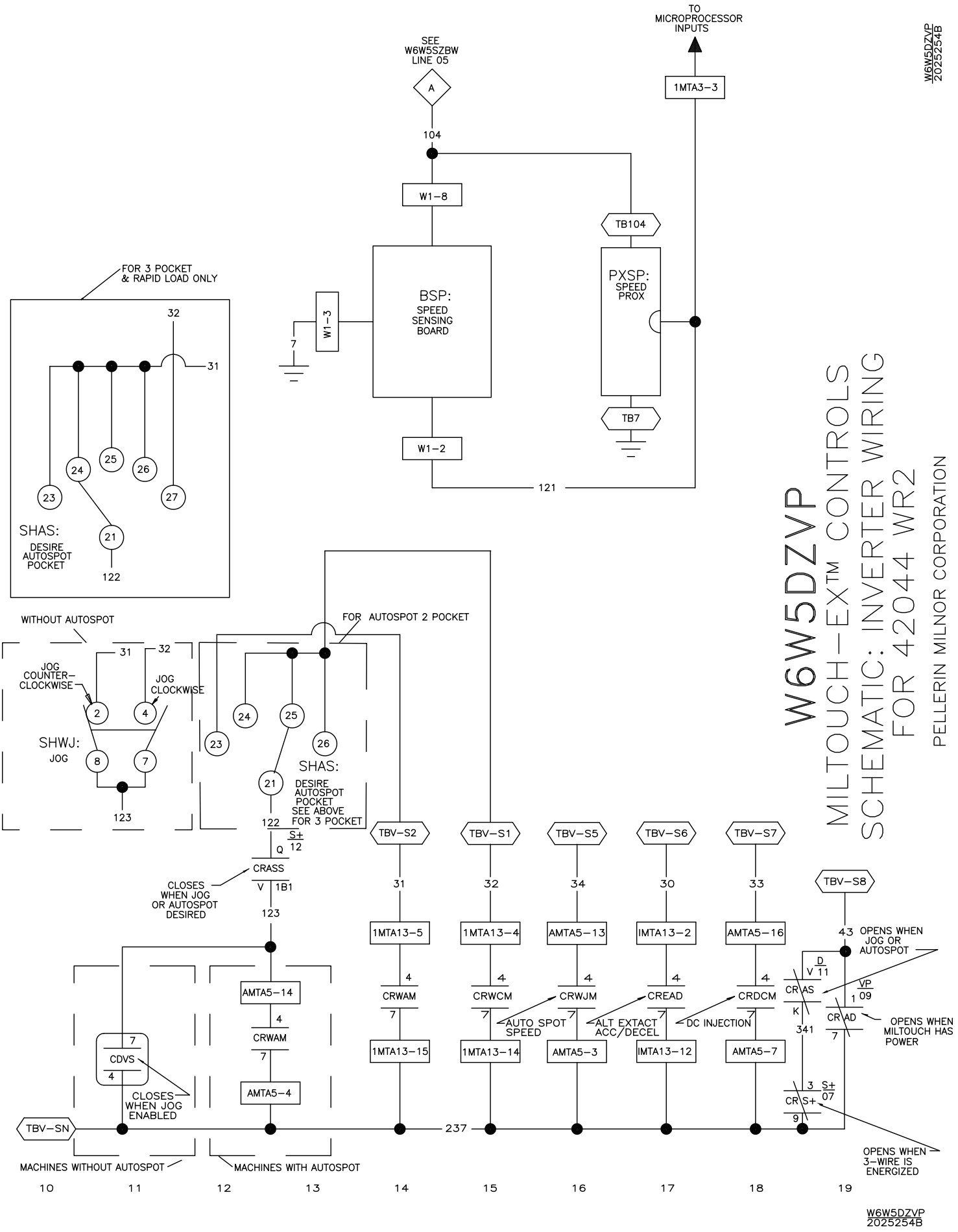
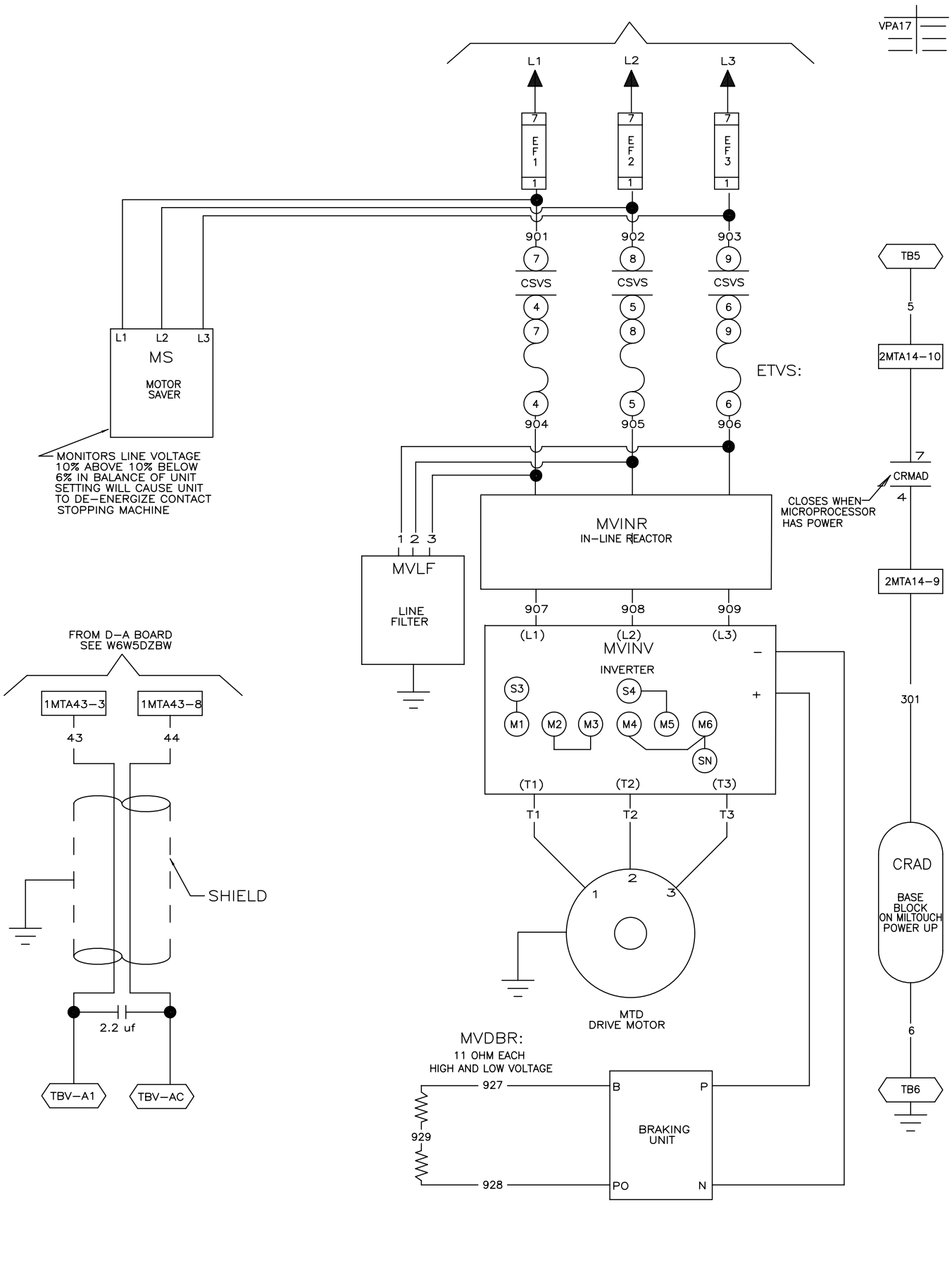
2025254B



W6W5DZVP MILTOUCH-EX™ CONTROLS SCHEMATIC: INVERTER WIRING FOR 42044 WR2

PELLERIN MILNOR CORPORATION



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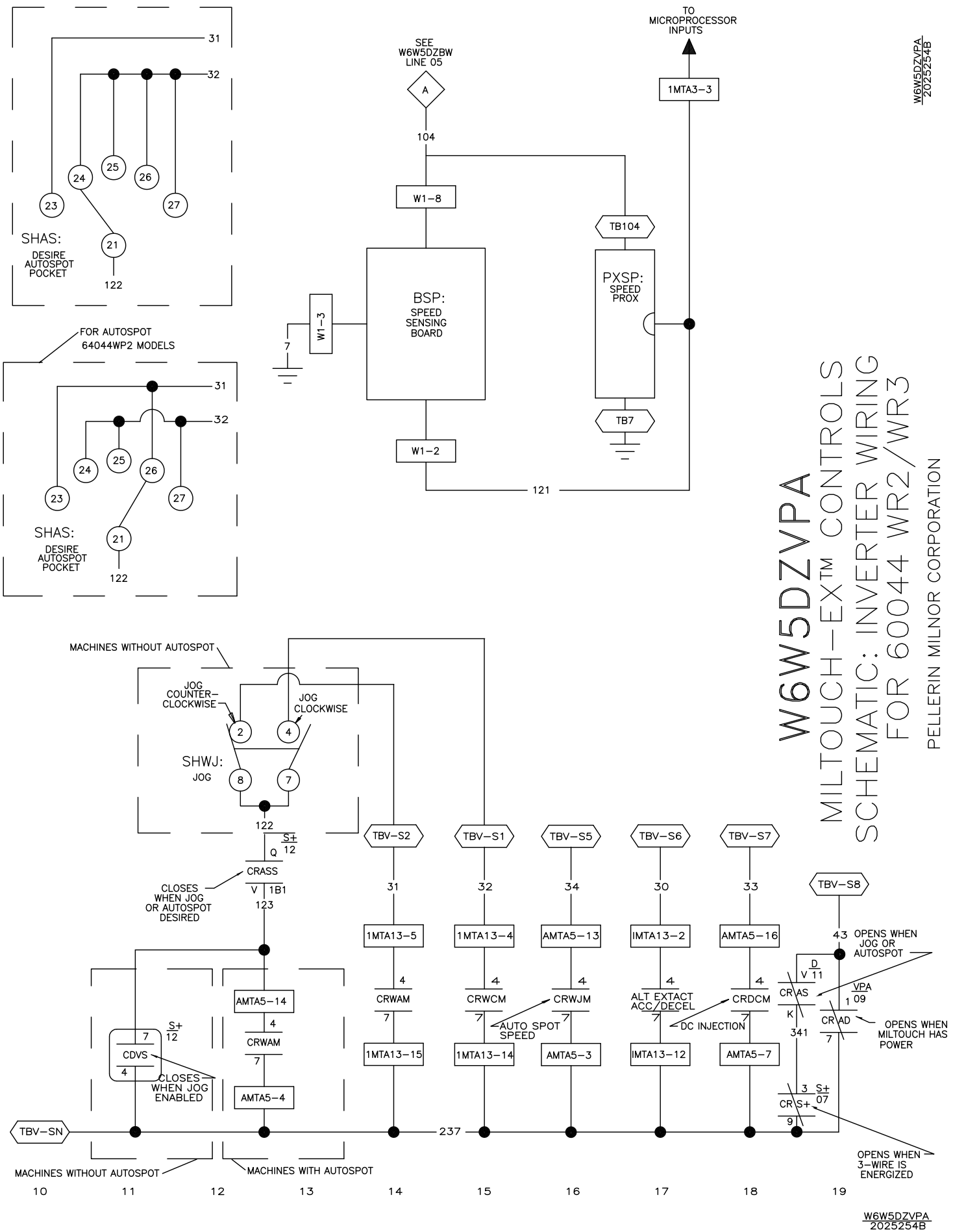
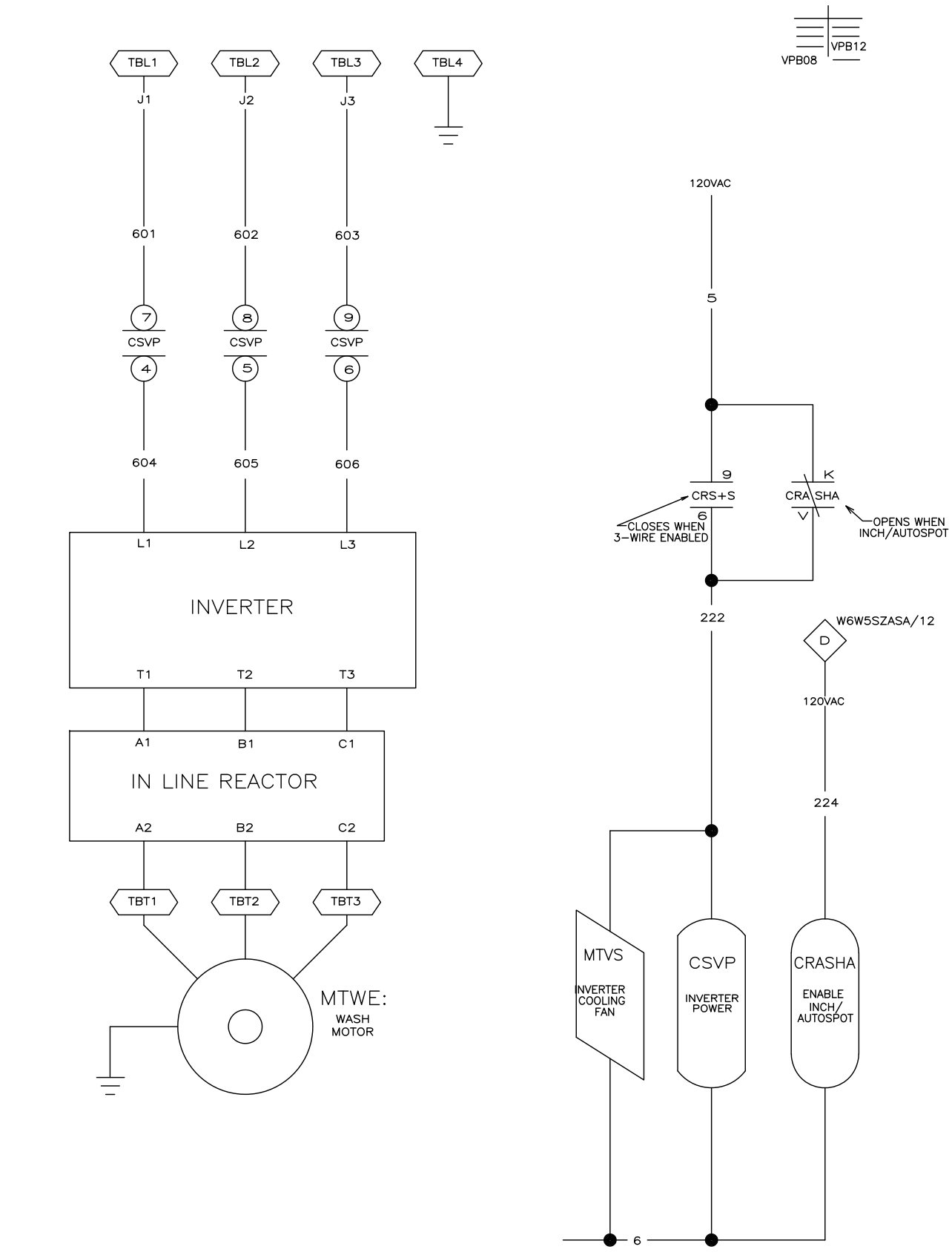
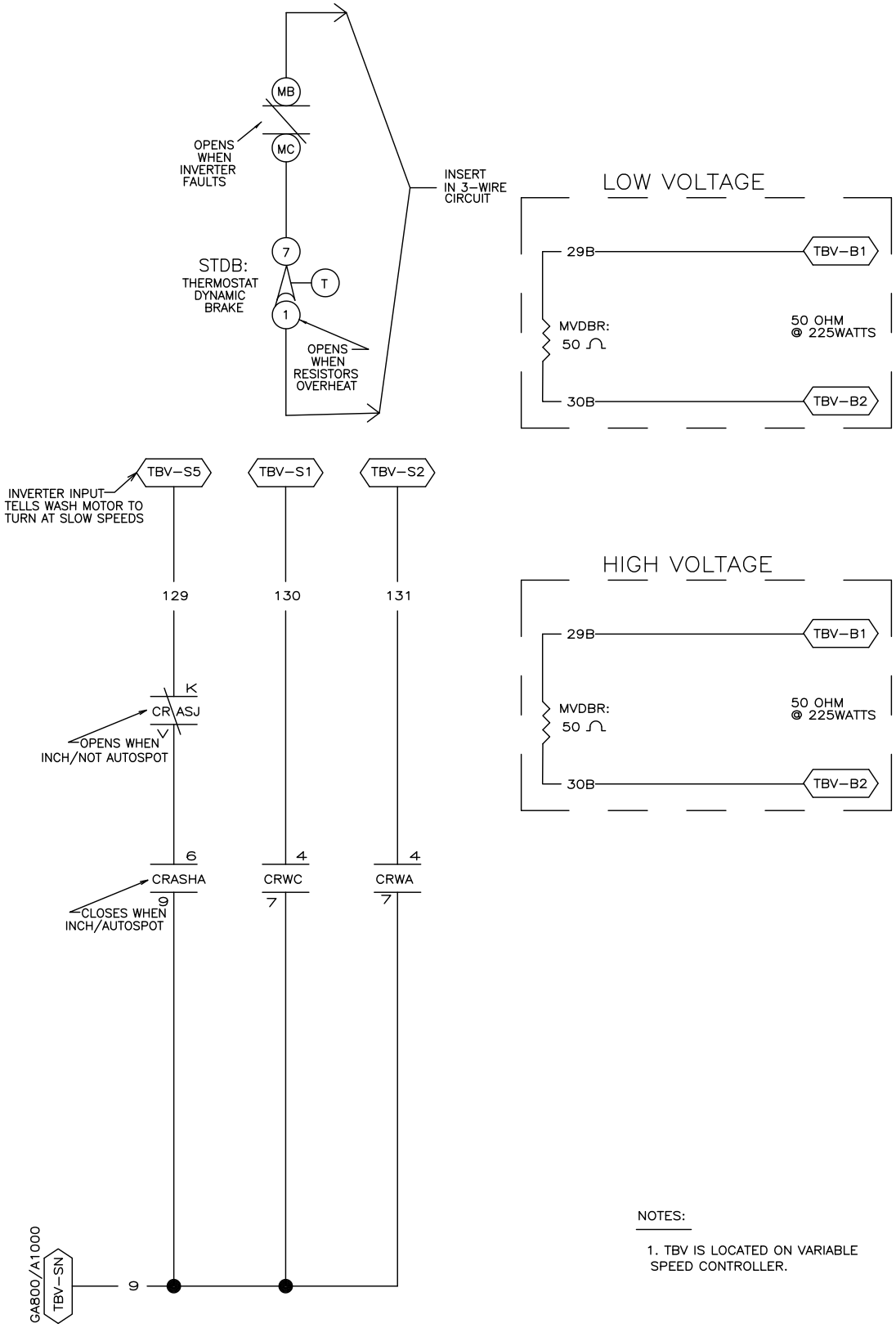

W6W5DZVPA
MILTOUCH–EX™ CONTROLS
SCHEMATIC: INVERTER WIRING
FOR 60044 WR2/WR3
PELLERIN MILNOR CORPORATION
W6W5DZVPA
2025254B
SEE W6W5DZBW LINE 05
TO MICROPROCESSOR INPUTS
1MTA3–3
104
W1–8
TB104
BSP: SPEED SENSING BOARD
PXSP: SPEED PROX
W1–3
7
TB7
W1–2
121
SHAS: DESIRE AUTOSPOT POCKET
31
32
24
25
26
23
27
21
122
FOR AUTOSPOT 64044WP2 MODELS
MACHINES WITHOUT AUTOSPOT
JOG COUNTER–CLOCKWISE
JOG CLOCKWISE
SHWJ: JOG
2
4
8
7
122
S+ 12
Q
CRASS
V 1B1
123
CLOSES WHEN JOG OR AUTOSPOT DESIRED
TBV–S2
TBV–S1
TBV–S5
TBV–S6
TBV–S7
TBV–S8
31
32
34
30
33
1MTA13–5
1MTA13–4
AMTA5–13
IMTA13–2
AMTA5–16
43 OPENS WHEN JOG OR AUTOSPOT
4
CRWAM
7
1MTA13–15
CRWCM
1MTA13–14
CRWJM
AMTA5–3
ALT EXTACT ACC/DECEL
IMTA13–12
CRDCM
AMTA5–7
AUTO SPOT SPEED
DC INJECTION
D V 11
CR AS
K
341
VPA 1 09
CR AD
7
OPENS WHEN MILTOUCH HAS POWER
AMTA5–14
CRWAM
AMTA5–4
S+ 12
7
CDVS
4
CLOSES WHEN JOG ENABLED
3 S+ 07
CR S+
9
TBV–SN
237
OPENS WHEN 3–WIRE IS ENERGIZED
MACHINES WITHOUT AUTOSPOT
MACHINES WITH AUTOSPOT
10
11
12
13
14
15
16
17
18
19
W6W5DZVPA
2025254B



WW5SZVPB
2025386B



NOTES:

1. TBV IS LOCATED ON VARIABLE SPEED CONTROLLER.

W6W5DZVPB

MILTOUCH CONTROLS

FOR A1000 / GA800 INVERTER

SCHEMATIC: VARIABLE SPEED CONTROLLER

WASH 7204WR2/3

PELLERIN MILNOR CORPORATION