



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

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Schematic/Electrical Parts

42044, 60044 & 72044

SR2, SR3



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

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COMPONENT PARTS LIST

W6W5SZPL/2025174N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT		WHERE TO FIND THIS COMPONENT		MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS						
001	CONTROL BOARDS INPUTS/OUTPUTS	W6W5SZTG1		B2T2014009	WR2/3,SR2/3 CONTROL BOARDS		LOW VOLT BOX
002	POWER SUPPLY SETTINGS	W6W5SZTG1		B2T2014012	TAG: MIL TOUCH-EX POWER SUPY SET		LOW VOLT BOX
003	42044 LOW VOLTAGE CONTROL BOX	W6W5SZTG2		B2T2014010	TAG 42044SR2 LOW VOLT BOX		LOW VOLT BOX
004	42044 HIGH VOLTAGE CONTROL BOX	W6W5SZTG2		B2T2015008	TAG:4244WR2/SR2 SINGLE MTR HV BOX		HIGH VOLT BOX
005	60044 HIGH VOLTAGE CONTROL BOX	W6W5SZTG3		B2T2014018	60044WR2/3,SR2/3 HIGH VOLTAGE BOX		HIGH VOLT BOX
006	60044 INVERTER CONTROL BOX	W6W5SZTG3		B2T2014017	60044WR2/3,SR2/3 INVERTER C-BOX		INVERTER BOX
007	6044 LOW VOLTAGE CONTROL BOX	W6W5SZTG3		B2T2014024	60044SR2/3 LOW VOLTAGE C-BOX		LOW VOLT BOX
008	72044 LOW VOLTAGE CONTROL BOX	W6W5SZTG4		B2T2015006	7244SR2/3 MILTOUCH-EX LOW VOLT C-BOX		LOW VOLT BOX
009	72044 HIGH VOLTAGE CONTROL BOX	W6W5SZTG4		B2T2007020	7244WR2/3 MILTOUCH-EX HIGH VOLT C-BOX		HIGH VOLT BOX
BA	>>PRINTED CIRCUIT BOARDS						
BAD-1	BOARD-ANALOG TO DIGITAL CONVERTER	W6W5SZBW		08BSADCT	BD:SERIAL A-D CONVERT->TEST		LOW VOLT BOX
BDA-1	BOARD-DIGITAL TO ANALOG CONVERTOR	W6W5SZBW		08BSDACT	BD:SERIAL D-A CONVERTR->TEST		LOW VOLT BOX
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6W5SZBW		08BS816CHT	BD 8OUT-16IN HIGH SPD->TESTD		LOW VOLT BOX
BIO-2	BOARD-8OUTPUT/16INPUT #2	W6W5SZBW		08BS816CHT	BD 8OUT-16IN HIGH SPD->TESTD		LOW VOLT BOX
BIO-A	BOARD-8OUTPUT/16INPUT #A (AUTOSPOT)	W6W5SZBW		08BS816CTA	SERIAL 8OUT-16INPUT-AUTOSPOT		LOW VOLT BOX
BLB	BOARD-LEVEL BOARD TRANSDUCER	W6W5SZBW		08BNLTT	LEVEL TRANSDUCER BD->TEST		LOW VOLT BOX
BO24-1	BOARD-24 OUTPUT #1	W6W5SZBW		08BSO24AT	BD:SERIAL 24 OUTPUT->TEST		LOW VOLT BOX
BO24-2	BOARD-24 OUTPUT #2	W6W5SZBW		08BSO24AT	BD:SERIAL 24 OUTPUT->TEST		LOW VOLT BOX
BO24-3	BOARD-24 OUTPUT #3	W6W5SZBW		08BSO24AT	BD:SERIAL 24 OUTPUT->TEST		LOW VOLT BOX
BPB	BOARD-ARM9 PROCESSOR+TOUCH SCREEN	W6W5SZBW		08BHA9D4T	ASSY:ARM9 PROC+8.4 OPTREX DSP-TESTED		SWITCH PANEL
BSP	BOARD-SPEED SENSING	W6W5SZVP		08BNDSRBT	BD:SAFETY ROTATION SG 1MR-TEST		LOW VOLT BOX
CB	>>CIRCUIT BREAKERS						
CB1	CIRCUIT BREAKER-WASH/DRAIN MOTOR	W6W5SZMTA		09FC032CAA	IEC MINI CIR.BREAK 32A 480V3P		HIGH VOLT BX
CB2	CIRCUIT BREAKER-AUTOSPOT MOTOR	W6W5SZMTA		09FC016CAA	IEC MINI CIR.BREAK 16A 480V3P		HIGH VOLT BX
CD	>>RELAY-DELAY						
CDEXN	DELAY-EXTRACT HAS ENDED <2-7-2019	W6W5SZSPA		09CF007537	TDR F7.5S 2PDT 11PIN 120V60C		LOW VOLT BOX
CDEXN	DELAY-EXTRACT HAS ENDED >2-7-2019	W6W5SZSPA		09CA100A37	ADJUSTABLE TIME DELAY 10S OMRON 100-12		LOW VOLT BOX
CDS+N	DELAY-DOOR SEAL <2-7-2019	W6W5SZS+A		09CF007537	TDR F7.5S 2PDT 11PIN 120V60C		LOW VOLT BOX
CDS+N	DELAY-DOOR SEAL >2-7-2019	W6W5SZS+A		09CA100A37	ADJUSTABLE TIME DELAY 10S OMRON 100-12		LOW VOLT BOX
CDVS	DELAY-ENABLE JOG <2-7-2019	W6W5SZS+		09CF002037	TDR F2S 2PDT 11PIN 120V60/50C		LOW VOLT BOX
CDVS	DELAY-ENABLE JOG >2-7-2019	W6W5SZS+		09CA100A37	ADJUSTABLE TIME DELAY 10S OMRON 100-12		LOW VOLT BOX
CL	>>RELAY-LATCH						

COMPONENT PARTS LIST

W6W5SZPL/2025174N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT	THIS COMPONENT			
CLDCC	LATCH-CLEAN SIDE DOOR (SET)<3/2015	W6W5SZD		09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLDCC	LATCH-CLEAN SIDE DOOR (SET)>3/2015	W6W5SZD		09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	LOW VOLT BOX
CLDCC	LATCH-CLEAN SIDE DOOR<3/2025	W6W5SZDA		09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLDCC	LATCH-CLEAN SIDE DOOR>3/2025	W6W5SZDA		09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	LOW VOLT BOX
CLDCC	LATCH-CLEAN SIDE DOOR (RESET)<3-2025	W6W5SZS+		09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLDCC	LATCH-CLEAN SIDE DOOR (RESET)>3-2025	W6W5SZS+		09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	LOW VOLT BOX
CLDCD	LATCH-CLEAN SIDE DOOR (SET)<3-2025	W6W5SZD		09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLDCD	LATCH-CLEAN SIDE DOOR (SET)>3-2025	W6W5SZD		09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	LOW VOLT BOX
CLDCD	LATCH-CLEAN SIDE DOOR<3/2025	W6W5SZDA		09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLDCD	LATCH-CLEAN SIDE DOOR>3/2025	W6W5SZDA		09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	LOW VOLT BOX
CLDCD	LATCH-CLEAN SIDE DOOR (RESET)<3/2025	W6W5SZS+		09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLDCD	LATCH-CLEAN SIDE DOOR (RESET)>3/2025	W6W5SZS+		09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	LOW VOLT BOX
CLPCC	LATCH-TRANSFER TO CLEAN SIDE (SET)<3/2025	W6W5SZCS		09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLPCC	LATCH-TRANSFER TO CLEAN SIDE (SET)>3/2025	W6W5SZCS		09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	LOW VOLT BOX
CLPCC	LATCH-TRANSFERMER TO CLEAN SIDE<3/2025	W6W5SZCSA		09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLPCC	LATCH-TRANSFERMER TO CLEAN SIDE<3/2025	W6W5SZCSA		09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	LOW VOLT BOX
CLPCC	LATCH-TRANSFER TO CLEAN SIDE (RESET)<3/2025	W6W5SZCS		09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLPCC	LATCH-TRANSFER TO CLEAN SIDE (RESET)>3/2025	W6W5SZCS		09CL2C-D37	RELAY-LATCH DPDT 120V 2-COIL ICECUBE	LOW VOLT BOX
CR	>>RELAY-PILOT OR CONTROL					
CRAC	RELAY-SPOT OR JOG CLEAN SIDE	W6W5SZD		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRAD	RELAY-SPOT OR JOG CLEAN SIDE	W6W5SZD		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRADC	RELAY-COAST ON MILTOUCH POWER UP	W6W5SZVP		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRADC	RELAY-COAST ON MILTOUCH POWER UP	W6W5SZVPA		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRAS	RELAY-DOOR LATCH SOIL SIDE	W6W5SZD		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRASA	RELAY-AUTOSPOT ENABLED	W6W5SZASA		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRASB	RELAY-ENABLE RECOGNIZE SLOW	W6W5SZASA		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRASI	RELAY-AUTOSPOT DESIRED	W6W5SZASA		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRASJ	RELAY-INCH NOT AUTOSPOT	W6W5SZASA		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRASK	RELAY-AUTOSPOT JOG DESIRED	W6W5SZASA		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRASL	RELAY-AUTOSPOT RECOGNIZE SLOW	W6W5SZASA		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRASM	RELAY-AUTOSPOT RECOGNIZE SLOW	W6W5SZASA		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRASS	RELAY-AUTOSPOT STOP	W6W5SZASA		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX
CRAST	RELAY-AUTOSPOT STOP	W6W5SZASA		09C024D37	4PDT MINITURE RELAY PT WILED	LOW VOLT BOX

COMPONENT PARTS LIST

W6W5SZPL/2025174N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT	THIS COMPONENT			
CRAT	RELAY-DOOR LATCH SOIL SIDE	W6W5SZD		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRC01	RELAY-CHEM INTERPERT #1	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC02	RELAY-CHEM INTERPERT #2	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC03	RELAY-CHEM INTERPERT #3	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC04	RELAY-CHEM INTERPERT #4	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC05	RELAY-CHEM INTERPERT #5	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC06	RELAY-CHEM INTERPERT #6	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC07	RELAY-CHEM INTERPERT #7	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC08	RELAY-CHEM INTERPERT #8	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC09	RELAY-CHEM INTERPERT #9	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC10	RELAY-CHEM INTERPERT #10	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC11	RELAY-CHEM INTERPERT #11	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC12	RELAY-CHEM INTERPERT #12	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC13	RELAY-CHEM INTERPERT #13	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC14	RELAY-CHEM INTERPERT #14	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRC15	RELAY-CHEM INTERPERT #15	W6W5SZCP		09C024D37	4PDT MINITURE RELAY PT W/LED	INT RELAY BX
CRCCR	RELAY-TRANSFER TO SOIL SIDE	W6W5SZCS		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRCCR	RELAY-TRANSFER TO SOIL SIDE	W6W5SZCSA		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRCSG	RELAY-FLASHING LIGHT CONTROL CLEAN SIDE	W6W5SZCS		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRPCC	RELAY-CLEAN SIDE HAS CONTROL	W6W5SZCS		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRPCC	RELAY-CLEAN SIDE HAS CONTROL	W6W5SZCSA		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRPCD	RELAY-CLEAN SIDE HAS CONTROL	W6W5SZCSA		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRPCO	RELAY-OPEN CLEAN SIDE DOOR	W6W5SZD		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRPLA	RELAY-SOIL AND CLEAN SIDE DOORS CLOSED	W6W5SZD		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRPLA	RELAY-DOOR LATCHED ON CLEAN SIDE	W6W5SZSPA		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRPLC	RELAY-DOOR LATCH CLEAN SIDE	W6W5SZD		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRPLC	RELAY-DOOR LATCH CLEAN SIDE	W6W5SZDA		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRPLS	RELAY-SPOT OR JOG SOIL SIDE	W6W5SZD		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRPLS	RELAY-DOOR LATCH CLEAN SIDE	W6W5SZDA		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRS+	RELAY-START 3-WIRE	W6W5SZS+		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRS+	RELAY-START 3-WIRE	W6W5SZS+A		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRS+A	RELAY-START 3-WIRE	W6W5SZS+		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRS+S	RELAY-START 3-WIRE	W6W5SZS+A		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX

COMPONENT PARTS LIST

W6W5SZPL/2025174N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT				
CRSG	RELAY-SIGNAL SOIL SIDE	W6W5SZS+		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRSOC	RELAY-STOP CLEAN SIDE	W6W5SZDA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	LOW VOLT BOX
CRSOE	RELAY-STOP CLEAN SIDE	W6W5SZDA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	LOW VOLT BOX
CRSOS	RELAY-STOP SOIL SIDE	W6W5SZDA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	LOW VOLT BOX
CRSOT	RELAY-STOP SOIL SIDE	W6W5SZDA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	LOW VOLT BOX
CRSP	RELAY-SPEED	W6W5SZSPA		09C024D37	4PDT MINITURE RELAY PT W/LED	LOW VOLT BOX
CRSS	RELAY-START SOIL SIDE	W6W5SZS+A		09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
C.S	>>CONTACTOR-MOTOR STARTER					
CSDR	CONTACTOR-DRAIN MOTOR	W6W5SZMCA		09MC04E337	32A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSE1	CONTACTOR-LOW EXTRACT MOTOR	W6W5SZMCA		09MC04L337	60A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSE2	CONTACTOR-HI EXTRACT MOTOR	W6W5SZMCA		09MC04L337	60A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSJC	CONTACTOR-AUTOSPOT CLOCKWISE	W6W5SZMCA		09MR04B337	12A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSVS	CONTACTOR-VARIABLE SPEED 42044	W6W5SZS+		09M08G337	37A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSVS	CONTACTOR-VARIABLE SPEED 60044	W6W5SZS+		09M08N337	72A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSWA	CONTACTOR-REVERSING WASH CCW	W6W5SZMCA		09MR04J337	44A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSWC	CONTACTOR-REVERSING WASH CW	W6W5SZMCA		09MR04J337	44A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
EB	>>BUZZER OR AUDIBLE SIGNAL					
EBPCC	BUZZER-CLEAN SIDE SIGNAL	W6W5SZD		09H015	BUZZER 115V W/6-32 CRT+6" LEADS	CLEAN SWPNL
EBPCC	BUZZER-CLEAN SIDE SIGNAL AUDIBLE	W6W5SZDA		09H015	BUZZER 115V W/6-32 CRT+6" LEADS	CLN SIDESWPNL
EBSG	BUZZER-SIGNAL SOIL SIDE	W6W5SZS+		09H015	BUZZER 115V W/6-32 CRT+6" LEADS	SOIL SWPNL
EBSG	BUZZER-SIGNAL SOIL SIDE	W6W5SZS+A		09H015	BUZZER 115V W/6-32 CRT+6" LEADS	SOIL SWPNL
EF	>>FLASHING LIGHT					
EFLEDC	FLASHING LIGHT-SOIL SIGNAL	W6W5SZFS		09H025V12	BEACON ROTARY AMBER LED 12VDC	SOIL SWPNL
EFLEDS	FLASHING LIGHT-CLEAN SIGNAL	W6W5SZFS		09H025V12	BEACON ROTARY AMBER LED 12VDC	CLEAN SWPNL
EF	>>FUSE OR FUSE HOLDER					
EF	>>FUSE OR FUSE HOLDER					
EF16Y	FUSE-AUTOSPOT CLUTCH Y-BUS	W6W5SZMCA		09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	HIGH VOLT BX
EF37	FUSE-120VAC CONTROL CIRCUIT	W6W5SZPS		09FF006AMA	FUSE BK/ABC 6 AMP 250V BUSS	HIGH VOLT BX
EFP1	FUSE-PRIMARY INCOMING VOLTAGE LOW VOLT	W6W5SZPS		09FF006AWV	FUSE BUSS STYLE CC TYPE FNQ-R 6 AMP 60	HIGH VOLT BX
EFP1	FUSE-PRIMARY INCOMING VOLTAGE HI VOLT	W6W5SZPS		09FF003AWV	FUSE BUSS STYLE CC TYPE FNQ-R 3 AMP 60	HIGH VOLT BX
EFP2	FUSE-PRIMARY INCOMING VOLTAGE LOW VOLT	W6W5SZPS		09FF006AWV	FUSE BUSS STYLE CC TYPE FNQ-R 6 AMP 60	HIGH VOLT BX
EFP2	FUSE-PRIMARY INCOMING VOLTAGE HI VOLT	W6W5SZPS		09FF003AWV	FUSE BUSS STYLE CC TYPE FNQ-R 3 AMP 60	HIGH VOLT BX
EL	>>LIGHT-PILOT OR INDICATOR					

COMPONENT PARTS LIST

W6W5SZPL/2025174N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT	THIS COMPONENT			
ELASC	LIGHT-AUTOSPOT STOP CLEAN SIDE	W6W5SZASA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CLN SIDE SWPL
ELASS	LIGHT-AUTOSPOT STOP SOIL SIDE	W6W5SZASA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SWITCH PANEL
ELPCG	LIGHT-CLEAN SIDE HAS CONTROL	W6W5SZCS		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CLEAN SWPNL
ELPCG	LIGHT-CLEAN SIDE HAS CONTROL	W6W5SZCSA		09J060G37	LAMP 1/2" GRN 125V IDI 1052QC3	CLN SIDE SWPL
ELPCR	LIGHT-CLEAN SIDE DOES NOT HAVE CONTROL	W6W5SZCS		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CLEAN SWPNL
ELPCR	LIGHT-SOIL SIDE HAS CONTROL	W6W5SZCSA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CLN SIDE SWPL
ELPS	LIGHT-POCKET SPOTTED SOIL	W6W5SZAS		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	A-SPOT SP SOIL
ELPS	LIGHT-POCKET SPOTTED CLEAN	W6W5SZAS		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	A-SPOT SP CLEAN
ELPSG	LIGHT-SOIL SIDE HAS CONTROL	W6W5SZCS		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SOIL SWPNL
ELPSG	LIGHT -SOIL SIDE HAS CONTROL	W6W5SZCSA		09J060R37	LAMP 1/2" RED 125V IDI 1050QC1	SWITCH PANEL
ELPSR	LIGHT-SOIL SIDE DOES NOT HAVE CONTROL	W6W5SZCS		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SOIL SWPNL
ELPSR	LIGHT-SOIL SIDE NOT CONTROLLING	W6W5SZCSA		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SWITCH PANEL
ELSG	LIGHT-SIGNAL SOIL SIDE	W6W5SZS+		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SOIL SWPNL
ELSG	LIGHT-SIGNAL SOIL SIDE	W6W5SZS+A		09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SOIL SWPNL
ELSPC	LIGHT-ILLUMINATED EMERGENCY STOP	W6W5SZS+		09N507E	ESTOP SWITCH HEAD RED CLEAR NEEDS 09N	CLEAN SWPNL
ELSPS	LIGHT-ILLUMINATED EMERGENCY STOP	W6W5SZS+		09N507E	ESTOP SWITCH HEAD RED CLEAR NEEDS 09N	SOIL SWPNL
EM	>>ELECTRICTROMECHANICAL SOLENOID					
EMAS	CLUTCH-AUTOSPOT	W6W5SZMCA		54H164A	CLUTCH 12VDC MAPM02	DRIVE BASE
EMHR	METER-RUN TIME	W6W5SZS+		38C202	HOURL METER 120VAC	LOW VOLT BOX
EMS	>> EMERGENCY STOP SWITCHES					
EMSPC	SWITCH-EMERGENCY STOP CLEAN SIDE	W6W5SZDA		09N505	SW ASSY EMER STOP	CLN SIDE SWPL
EMSPS	SWITCH-EMERGENCY STOP SOIL SIDE	W6W5SZDA		09N505	SW ASSY EMER STOP	SWITCH PANEL
ES	>>POWER SUPPLY-ELECTRONIC					
ESPS	POWER SUPPLY-120V TO +12,-12,+5V	W6W5SZBW		08PSS3401T	30 WATT POWER SUPPLY TESTED	LOW VOLT BOX
ESPS2	POWER SUPPLY-120V TO +12	W6W5SZBW		08PSS2401T	PRW SUPY 40WATT 120/240V TO 12V TESTED	LOW VOLT BOX
ET	>>OVERLOAD-MOTORS					
ETDR	OVERLOAD-DRAIN 72 ALL	W6W5SZMTA		09FTC0120T	OL RELAY 12-32A AB #193-A3H1	HIGH VOLT BX
ETE1	OVERLOAD-LOW EXT 72"<346V	W6W5SZMTA		09FTC0230T	OL RELAY 23-75A AB#193-A3K3	HIGH VOLT BX
ETE1	OVERLOAD-LOW EXT 72">346V	W6W5SZMTA		09FTC0140T	OL RELAY 14-45A AB#193-A3J2	HIGH VOLT BX
ETE2	OVERLOAD-LOW EXT. 72" <346V	W6W5SZMTA		09FTC0230T	OL RELAY 23-75A AB#193-A3K3	HIGH VOLT BX
ETE2	OVERLOAD-HIGH EXT. 72" >346V	W6W5SZMTA		09FTC0140T	OL RELAY 14-45A AB#193-A3J2	HIGH VOLT BX
ETVS	OVERLOAD-INVERTER 42044	W6W5SZVP		09FTD0121T	MCS OL RELAY ADJ.RANGE 12-37	HIGH VOLT BX
ETVS	OVERLOAD-INVERTER 60044	W6W5SZVP		09FTD0230T	MCS OL RELAY ADJ.RANGE 23-75	HIGH VOLT BX

COMPONENT PARTS LIST

W6W5SZPL/2025174N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT	THIS COMPONENT			
ETWA	OVERLOAD-WASH 72" <346V	W6W5SZMTA		09FTC0121T	OL RELAY 12-38A AB #193-A3H2	HIGH VOLT BX
ETWA	OVERLOAD-WASH ,72">346V	W6W5SZMTA		09FTC0120T	OL RELAY 12-32A AB #193-A3H1	HIGH VOLT BX
EX	>>TRANSFORMERS					
EX37-1	TRANSFORMER-208/240>120VAC	W6W5SZPS		09UA025A37	XFMR 200-240PRI/120SEC 250V5/6	HIGH VOLT BX
EX37-2	TRANSFORMER-380/480>120VAC	W6W5SZPS		09UA025AAB	XFMR 380-480PRI/120-240SEC250V	HIGH VOLT BX
EX37-3	TRANSFORMER-600>120VAC	W6W5SZPS		09U251AB37	XFMR 600VPRI/120VSC-250VA-3%REG	HIGH VOLT BX
EX37-4	TRANSFORMER-380VAC-60HZ	W6W5SZPS		09UA025AA83	XFMR 380/400/415VPRI/120VSEC 250VA 60HZ	HIGH VOLT BX
EX96A	TRANSFORMER-600->480V BUCK 42044	W6W5SZMT6		09US050A96	XFMR 1PH 5KVA 240/480X120/240	SIDE OF MACHINE
EX96A	TRANSFORMER-600->480V BUCK 60044	W6W5SZMT6		09US100A96	XFMR 1PH 10KVA 240/480X120/240	SIDE OF MACHINE
EX96B	TRANSFORMER-600->480V BUCK 42044	W6W5SZMT6		09US050A96	XFMR 1PH 5KVA 240/480X120/240	SIDE OF MACHINE
EX96B	TRANSFORMER-600->480V BUCK 60044	W6W5SZMT6		09US100A96	XFMR 1PH 10KVA 240/480X120/240	SIDE OF MACHINE
EXAS	TRANSFORMER-120V-16VAC	W6W5SZMCA		09UB100A16	XFMR 120/240VP EBR 12VDC 90 WATT	AUTOSPOT BOX
MS	MOTOR SAVER	W6W5SZVP		09X370	VOLT.MONT-MTR SAVER 190-480VAC	HIGH VOLT BOX
MS	MOTOR SAVER	W6W5SZVPA		09X370	VOLT.MONT-MTR SAVER 190-480VAC	HIGH VOLT BOX
MT	>>MOTORS					
MTD	MOTOR-DRIVE	W6W5SZVP		MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	DRIVE BASE
MT	>>FAN					
MTVS	FAN-INVERTER COOLING (42044)	W6W5SZS+		13AF100A37	FAN 92CFM115V60	HIGH VOLT BX
MTVS	FAN-INVERTER COOLING (60044)	W6W5SZS+		13AF235A37	FAN 235CFM 115V 50/60	HIGH VOLT BX
MV	>>MOTOR POWER INVERTERS					
MVDBR	RESISTOR-DYNAMIC BRAKE 42044 ALL	W6W5SZVP		09MV020RES	RESISTOR 20 OHM 300WATT	INVERTER BOX
MVDBR	RESISTOR-DYNAMIC BRAKE 6044 ALL	W6W5SZVPA		09MV011RET	RESISTOR 11 OHM 1000 WATT	RESISTOR BOX
MVDBU	BRAKING UNIT-INVERTER LOW VOLT ONLY	W6W5SZVPA		09MVB T25LC	BRAKEMODULE OPEN CHASIS INVERT	RESISTOR BOX
MVINR	REACTOR-IN LINE INVERTER 42044 (LOW VOLT)	W6W5SZVP		09MX300A74	REACTOR 25/30HP 230V 80A	HIGH VOLT BX
MVINR	REACTOR-IN LINE INVERTER 42044 (HIGH VOLT)	W6W5SZVP		09MX300A96	REACTOR 30HP 460V 45A	HIGH VOLT BX
MVINR	REACTOR-IN LINE INVERTER 60044 (LOW VOLT)	W6W5SZVPA		09MX600A74	REACTOR 150HP 230V 200A	INVERTER BOX
MVINR	REACTOR-IN LINE INVERTER 60044 (HIGH VOLT)	W6W5SZVPA		09MX600A96	REACTOR 50/60HP 460V 80A	INVERTER BOX
MVINV	INVERTER-SINGLE MOTOR DRIVE 42044 LOW VOLT	W6W5SZVP		09MWC07574	A1000 INVERTER 75 AMP	HIGH VOLT BX
MVINV	INVERTER-SINGLE MOTOR DRIVE 42044 HIGH VOLT	W6W5SZVP		09MWC03996	A1000 INVERTER 39 AMP	HIGH VOLT BX
MVINV	INVERTER-SINGLE MOTOR DRIVE 6044 (LOW VOLT)	W6W5SZVPA		09MWC14574	A1000 INVERTER 145AMPS	INVERTER BOX
MVINV	INVERTER-SINGLE MOTOR DRIVE 6044 (HIGH VOLT)	W6W5SZVPA		09MWC07596	A1000 INVERTER 75 AMP	INVERTER BOX
MVLF	FILTER-INVERTER	W6W5SZVP		09MVFILTR1	RFI NOISE INPUT FILTER	HIGH VOLT BX
MVLF	FILTER-INVERTER	W6W5SZVPA		09MVFILTR1	RFI NOISE INPUT FILTER	INVERTER BOX

COMPONENT PARTS LIST

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COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT	THIS COMPONENT			
PS	>>POWER SUPPLY-ELECTRONIC					
PSFL	POWER SUPPLY-FLASHING LIGHT (OPTIONAL)	W6W5SZFS		08PSS3401T	40 WATT POWER SUPPLY TESTED	LOW VOLT BOX
PX	>>PROXIMITY SWITCH					
PX1C	PROX SW-POCKET 1 SPOTTED CLEAN	W6W5SZAS		09RPS07RDS	7MM SENSING RECTANGULAR SHLD	AUTOSPOT ASSY
PX1S	PROX SW-POCKET 1 SPOTTED SOIL	W6W5SZAS		09RPS07RDS	7MM SENSING RECTANGULAR SHLD	AUTOSPOT ASSY
PX2C	PROX SW-POCKET 2 SPOTTED CLEAN	W6W5SZAS		09RPS07RDS	7MM SENSING RECTANGULAR SHLD	AUTOSPOT ASSY
PX2S	PROX SW-POCKET 2 SPOTTED SOIL	W6W5SZAS		09RPS07RDS	7MM SENSING RECTANGULAR SHLD	AUTOSPOT ASSY
PXSP	PROX SW-SPEED PROX	W6W5SZVP		09RPS07RDS	7MM SENSING RECTANGULAR SHLD	AUTOSPOT ASSY
RS	>>RESISTORS					
RS01	RESISTOR 40OHM 25W	W6W5SZBW		ECEUMTRES	LOAD RESISTOR ASSY MIL TOUCH EX	LOW VOLT BOX
RS02	RESISTOR 16OHM 25W	W6W5SZBW		ECEUV8R	LOAD RESISTOR ASSY MIL TOUCH	LOW VOLT BOX
SC	>>SWITCH					
SCAS1	SWITCH-AUTOSPOT ENABLE SOIL SIDE	W6W5SZASA		09R015	ACTUATOR,MICROSW #JV-9 (CLASS 004)	ASPT SENSOR
SCAS2	SWITCH-ASPT SELECT 2ND POCK SOIL	W6W5SZASA		09R015	ACTUATOR,MICROSW #JV-9 (CLASS 004)	ASPT SENSOR
SCAS3	SWITCH-ASPT SELECT 3ND POCK SOIL	W6W5SZASA		09R015	ACTUATOR,MICROSW #JV-9 (CLASS 004)	ASPT SENSOR
SCAS4	SWITCH-AUTOSPOT ENABLE CLEAN SIDE	W6W5SZASA		09R015	ACTUATOR,MICROSW #JV-9 (CLASS 004)	ASPT SENSOR
SCAS5	SWITCH-AUTOSPOT 2ND POCK CLEAN SIDE	W6W5SZACA		09R014A	MINI-SW SPDT STAKON #V15G1C26K	ASPT SENSOR
SCAS6	SWITCH-AUTOSPOT 3RD POCK CLEAN SIDE	W6W5SZACA		09R014A	MINI-SW SPDT STAKON #V15G1C26K	ASPT SENSOR
SH	>>SWITCH-HAND OPERATED					
SHASC	SWITCH-DESIRES AUTOSPOT POCKET CLEAN	W6W5SZACA		09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	CLEAN SWPNL
SHASC	SWITCH-DESIRES AUTOSPOT POCKET CLEAN	W6W5SZAS		09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	CLEAN SWPNL
SHASC	SWITCH-DESIRES AUTOSPOT POCKET CLEAN	W6W5SZVP		09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	CLEAN SWPNL
SHASS	SWITCH-DESIRES AUTOSPOT POCKET SOIL	W6W5SZAS		09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	SOIL SWPNL
SHASS	SWITCH-AUTOSPOT POCKET SOIL SIDE	W6W5SZASA		09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	SWITCH PANEL
SHASS	SWITCH-DESIRES AUTOSPOT POCKET SOIL	W6W5SZVP		09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	SOIL SWPNL
SHC+C	SWITCH-CLEAN SIDE INCH AUTOSPOTTING	W6W5SZD		09N405PB10	SWASS PBBK 1NO	CLEAN SWPNL
SHCCR	SWITCH-TRANSFER TO SOIL SIDE	W6W5SZCS		09N405PB11	SWASS PBBK1NO/1NC	CLEAN SWPNL
SHCCR	SWITCH-TRANSFER TO SOIL SIDE	W6W5SZCSA		09N405PB11	SWASS PBBK1NO/1NC	SWPNL CLEAN
SHDOC	SWITCH-DOOR OPEN CLEAN SIDE	W6W5SZD		09N405PB11	SWASS PBBK1NO/1NC	CLEAN SWPNL
SHDOC	SWITCH-DOOR OPEN CLEAN SIDE	W6W5SZDA		09N405PB11	SWASS PBBK1NO/1NC	SWPNL CLEAN
SHDOC	SWITCH-DOOR OPEN CLEAN SIDE	W6W5SZS+		09N405PB11	SWASS PBBK1NO/1NC	CLEAN SWPNL
SHDOS	SWITCH-DOOR OPEN SOIL SIDE	W6W5SZD		09N405PB11	SWASS PBBK1NO/1NC	SOIL SWPNL
SHDOS	SWITCH-DOOR OPEN SOIL SIDE	W6W5SZDA		09N405PB11	SWASS PBBK1NO/1NC	SWITCH PANEL

COMPONENT PARTS LIST

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COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT				
SHS+	SWITCH-START SOIL SIDE	W6W5SZD		09N405PG10	SWASS PBGN INO	SOIL SWPNL
SHS+	SWITCH-START 3-WIRE	W6W5SZS+A		09N405PG10	SWASS PBGN INO	SOIL SWPNL
SHS+C	SWITCH-INCH-AUTOSPOT CLEAN SIDE	W6W5SZDA		09N405PG10	SWASS PBGN INO	SWPNL CLEAN
SHSEC	SWITCH-EMERGENCY STOP	W6W5SZS+		09N505	SW ASSY EMER STOP	CLEAN SWPNL
SHSEC	SWITCH-EMERGENCY STOP (ILLUMINATED)	W6W5SZS+		09N507F	ESTOP CONTACT BLOCK WITH 120VAC LIGHT	CLEAN SWPNL
SHSES	SWITCH-EMERGENCY STOP	W6W5SZS+		09N505	SW ASSY EMER STOP	SOIL SWPNL
SHSES	SWITCH-EMERGENCY STOP (ILLUMINATED)	W6W5SZS+		09N507F	ESTOP CONTACT BLOCK WITH 120VAC LIGHT	SOIL SWPNL
SHSMA	SWITCH-MASTER	W6W5SZSP		09N405M210	SWASS PB YELLOW INO	SOIL SWPNL
SHSMA	SWITCH-MASTER	W6W5SZSPA		09N405M210	SWASS PB YELLOW INO	SOIL SWPNL
SHWCF	SWITCH-FLUSH	W6W5SZCF		09N405S320	SWASS S3W 2NO	5 COMP. SUPPLY
SHWJC	SWITCH-JOG CLEAN SIDE	W6W5SZACA		09N405S211	SWASS S2W INO+1NC	CLEAN SWPNL
SHWJC	SWITCH-JOG CLEAN SIDE	W6W5SZVP		09N405S211	SWASS S2W INO+1NC	CLEAN SWPNL
SHWJC	SWITCH-JOG CLEAN SIDE	W6W5SZVPA		09N405S211	SWASS S2W INO+1NC	CLEAN SWPNL
SHWJS	SWITCH-JOG SOIL SIDE	W6W5SZASA		09N405M211	SWASS M2W INO+1NC	SWITCH PANEL
SHWJS	SWITCH-JOG SOIL SIDE	W6W5SZVP		09N405S211	SWASS S2W INO+1NC	SOIL SWPNL
SHWJS	SWITCH-JOG SOIL SIDE	W6W5SZVPA		09N405S211	SWASS S2W INO+1NC	SOIL SWPNL
SM	>>SWITCH-MECHANICALLY OPERATED					
SMCD	SWITCH-SECONDARY DOOR SWITCH CLEAN	W6W5SZS+		09RM01212S	CAPSW 12FT 180DEG ROLLER SILVER	CLEAN DOOR
SMCD2	SWITCH-SECONDARY DOOR SWITCH CLEAN	W6W5SZS+A		09RM01212S	CAPSW 12FT 180DEG ROLLER SILVER	CLEAN DOOR
SMERB	SWITCH-EXCURSION	W6W5SZS+		09R008A	MICSW SPDT PAINTED BZE6-RN 01	MACH HOUSE
SMERB	SWITCH-EXCURSION	W6W5SZS+A		09R008A	MICSW SPDT PAINTED BZE6-RN 01	MACH HOUSE
SMPLC	SWITCH-DOOR (LATCH) CLEAN SIDE	W6W5SZD		09R012	MICSW SPDT PAINTED BZE6-RN 01	CLEAN DOOR
SMPLC	SWITCH-DOOR CLOSED CLEAN SIDE	W6W5SZDA		09R012	MICSW SPDT PAINTED BZE6-RN 01	CLN SIDE DOOR
SMPLS	SWITCH-DOOR (LATCH) SOIL SIDE	W6W5SZD		09R012	MICSW SPDT PAINTED BZE6-RN 01	SOIL DOOR
SMPLS	SWITCH-DOOR CLOSED SOIL SIDE	W6W5SZDA		09R012	MICSW SPDT PAINTED BZE6-RN 01	SOIL SIDE DR
SMSD	SWITCH-SECONDARY DOOR SWITCH	W6W5SZS+		09RM01212S	CAPSW 12FT 180DEG ROLLER SILVER	SOIL DOOR
SMSD2	SWITCH-SECONDARY DOOR SWITCH SOIL	W6W5SZS+A		09RM01212S	CAPSW 12FT 180DEG ROLLER SILVER	SOIL DOOR
SMWVB	SWITCH-MACHINE VIBRATION	W6W5SZS+		09R020	SWITCH NC VIBR#WZ-2RW84429-P52	HIGH VOLT BX
SMWVB	SWITCH-MACHINE VIBRATION	W6W5SZS+A		09R020	SWITCH NC VIBR#WZ-2RW84429-P52	HIGH VOLT BX
SP	>>SWITCH-PRESSURE OPERATED					
SPB2R	PRESSURE SW SECOND BRAKE	W6W5SZS+A		09N082A	PRESSW NASON CLOSE @ 62 LB.	AIR VALVE BX
SPBR	PRESSURE SW-BRAKE	W6W5SZ11		09N082A	PRESSW NASON CLOSE @ 62 LB.	AIR VALVE BX
SPOF	PRESSURE SW-OVERFLOW	W6W5SZEVE		09N069	PRESS SW 4"WC INVENSYS 738-719	LVL SW BOX

COMPONENT PARTS LIST

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COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT	THIS COMPONENT			
SPOF	PRESSURE SW-OVERFLOW	W6W5SZEVA		09N069	PRESS SW 4"WC INVENSYS 738-719	LVL SW BOX
ST	>>TEMPERATURE PROBES					
TP	TEMPERATURE PROBE	W6W5SZBW		30R0043PB	TEMPERATURE PROBE ASSY=BRASS	DRAIN SUMP
VE	>>VALVE-ELECTRIC OPERATED					
VEAS	VALVE-AUTOSPOT SW ENGAGE	W6W5SZASA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEB2R	VALVE-2ND BRAKE	W6W5SZSP		96R302B37	1/8" AIRPILOT 3W NO 120V50/60	AIR VALVE BX
VEB2R	VALVE-2ND BRAKE	W6W5SZSPA		96R302B37	1/8" AIRPILOT 3W NO 120V50/60	AIR VALVE BX
VEC01	VALVE-CHEMICAL #1 FLUSH	W6W5SZCF		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC02	VALVE-CHEMICAL #2 FLUSH	W6W5SZCF		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC03	VALVE-CHEMICAL #3 FLUSH 42044	W6W5SZCF		96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC03	VALVE-CHEMICAL #3 FLUSH 60044, 72044	W6W5SZCF		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC04	VALVE-CHEMICAL #4 FLUSH 42044	W6W5SZCF		96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC04	VALVE-CHEMICAL #4 FLUSH 60044, 72044	W6W5SZCF		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC05	VALVE-CHEMICAL #5 FLUSH 42044	W6W5SZCF		96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC05	VALVE-CHEMICAL #5 FLUSH 60044, 72044	W6W5SZCF		96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC06	VALVE-CHEMICAL #6	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VEC07	VALVE-CHEMICAL #7	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VEC08	VALVE-CHEMICAL #8	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VEC09	VALVE-CHEMICAL #9	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VEC10	VALVE-CHEMICAL #10	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VEC11	VALVE-CHEMICAL #11	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VEC12	VALVE-CHEMICAL #12	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VEC13	VALVE-CHEMICAL #13	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VEC14	VALVE-CHEMICAL #14	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VEC15	VALVE-CHEMICAL #15	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VECFM	VALVE-FLUSH MANIFOLD	W6W5SZCX		MESSAGE EW	SUPPLIED BY OTHERS	SUPPLY VLVST
VEDRR	VALVE-DRAIN TO REUSE	W6W5SZEZ		96R302B37	1/8" AIRPILOT 3W NO 120V50/60	AIR VALVE BX
VEDRR	VALVE-DRAIN TO REUSE	W6W5SZEVA		96R302B37	1/8" AIRPILOT 3W NO 120V50/60	AIR VALVE BX
VEDRS	VALVE-DRAIN TO SEWER	W6W5SZEZ		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEDRS	VALVE-DRAIN TO SEWER	W6W5SZEVA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEPCC	VALVE-DOOR SEAL CLEAN SIDE	W6W5SZD		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEPCC	VALVE-DOOR SEAL CLEAN SIDE	W6W5SZDA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEPLC	VALVE-DOOR LATCH CLEAN SIDE	W6W5SZD		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX

COMPONENT PARTS LIST

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COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND		MILNOR P/N	DESCRIPTION	LOCATION
		THIS COMPONENT	THIS COMPONENT			
VEPLC	VALVE-DOOR LATCH CLEAN SIDE	W6W5SZDA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEPLS	VALVE-DOOR LATCH SOIL SIDE	W6W5SZD		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEPLS	VALVE-DOOR LATCH SOIL SIDE	W6W5SZDA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEPPI	VALVE-INFLATE DOOR SEAL SOIL SIDE	W6W5SZS+A		96T1001A37	SOLENOID 120V #238210-032-D	AIR VALVE BX
VEPPS	VALVE-DOOR SEAL SOIL SIDE	W6W5SZS+		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VESC	VALVE-SPRAY	W6W5SZCF		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VESTM	VALVE-STEAM PILOT	W6W5SZEZ		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VESTM	VALVE-STEAM PILOT	W6W5SZEVA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VETCW	VALVE-COOLDOWN WATER	W6W5SZEZ		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VETCW	VALVE-COOLDOWN WATER	W6W5SZEVA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWBR	VALVE-BRAKE (RELEASE BRAKE WHEN ON)	W6W5SZEZ		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWBR	VALVE-BRAKE (RELEASE BRAKE WHEN ON)	W6W5SZEVA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWBRS	VALVE-RELEASES UPPER BRAKE	W6W5SZEZ		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWBRS	VALVE-RELEASES UPPER BRAKE	W6W5SZEVA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWCL	VALVE-CLUTCH	W6W5SZSPA		96TBC3BA37	1/4" N/C 3WAY 120V50/60C VALVE	AIR VALVE BX
VEWCLA	VALVE-CLUTCH	W6W5SZSPA		96R302B37	1/8" AIRPILOT 3W NO 120V50/60	AIR VALVE BX
VEWPD	VALVE-PUSH DOWN	W6W5SZSP		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWPD	VALVE-PUSH DOWN	W6W5SZSPA		96TCC3AA37	3/8" N/C 3WAY 120V50/60C VALVE	AIR VALVE BX
VEWVC	VALVE-COLD WATER	W6W5SZEZ		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWVC	VALVE-COLD WATER	W6W5SZEVA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWVH	VALVE-HOT WATER	W6W5SZEZ		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWVH	VALVE-HOT WATER	W6W5SZEVA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWVX	VALVE-EXTRA WATER	W6W5SZEZ		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VEWVX	VALVE-EXTRA WATER	W6W5SZEVA		96R301B37	1/8" AIRPILOT 3W NC 120V50/60	AIR VALVE BX
ZF	>>RECTIFIER					
ZFAS	RECTIFIER-AUTOSPOT	W6W5SZMCA		09A020EBR	RECTIFIER (EBR) 15A/600PIV	AUTOSPOT 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.

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

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

BMP720097/25142

How to Get the Necessary Repair Components



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

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

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

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

To write to the Milnor factory:

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

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

— End of BIUUUD19 —

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

How to Use Milnor® Electrical Schematic Diagrams

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

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

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

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

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

1. Component Prefix Classifications and Descriptions

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

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

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

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

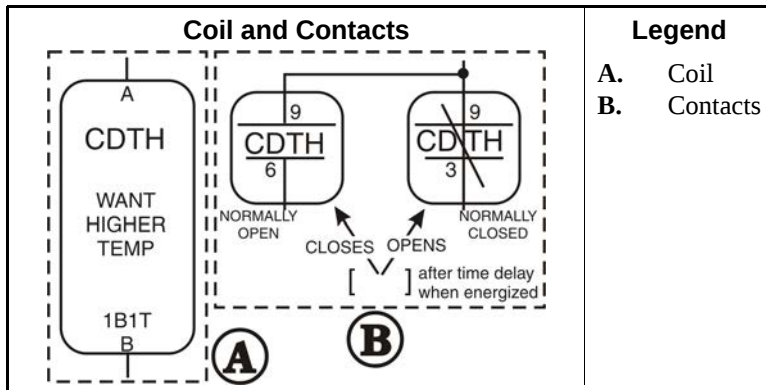
CB=Circuit Breaker (Figure 1)—Automatic switch that opens an electric circuit in abnormal current conditions (e.g., an overload).

Figure 1: Circuit Breaker (CB)



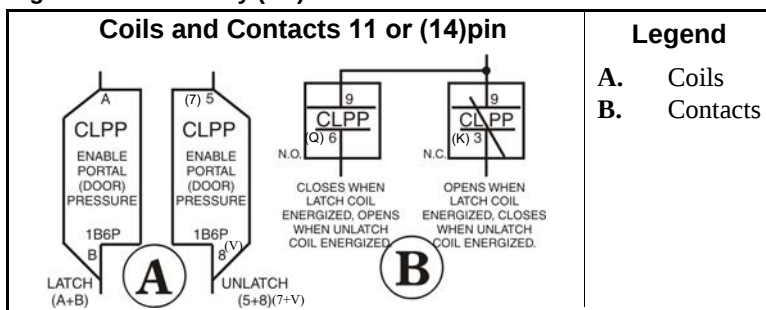
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



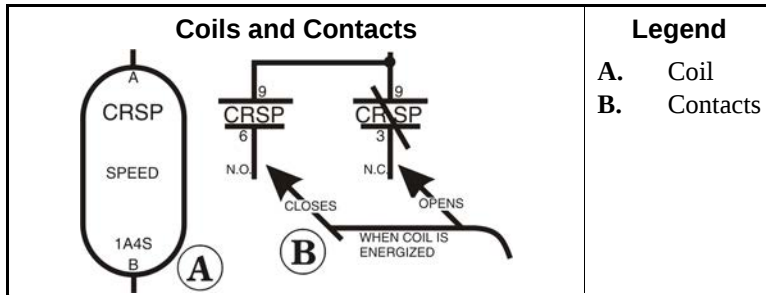
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



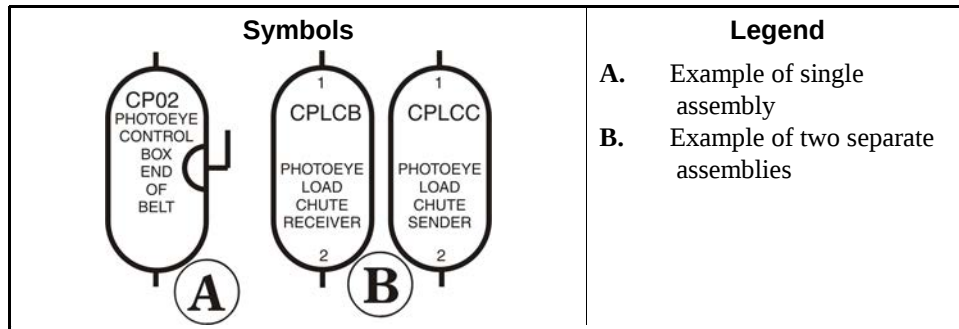
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



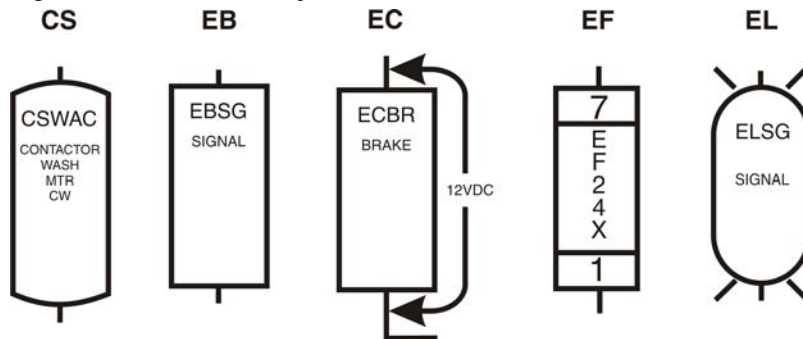
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these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

Figure 5: Photo-eye (CP)



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

Figure 6: Other Control Symbols



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

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

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

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

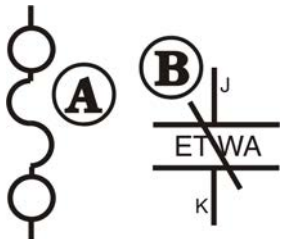
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

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

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

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

Figure 7: Thermal Overload (ET)

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

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

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

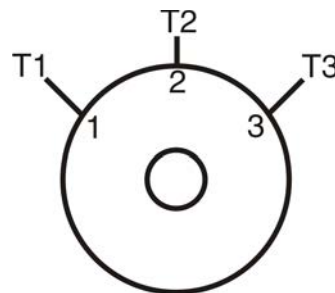
MN=Electronic Monitor (CRT)—A cathode ray tube used for visual presentation of data.

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

Figure 8: Transformer (EX)



Figure 9: Electric Motor (MR)

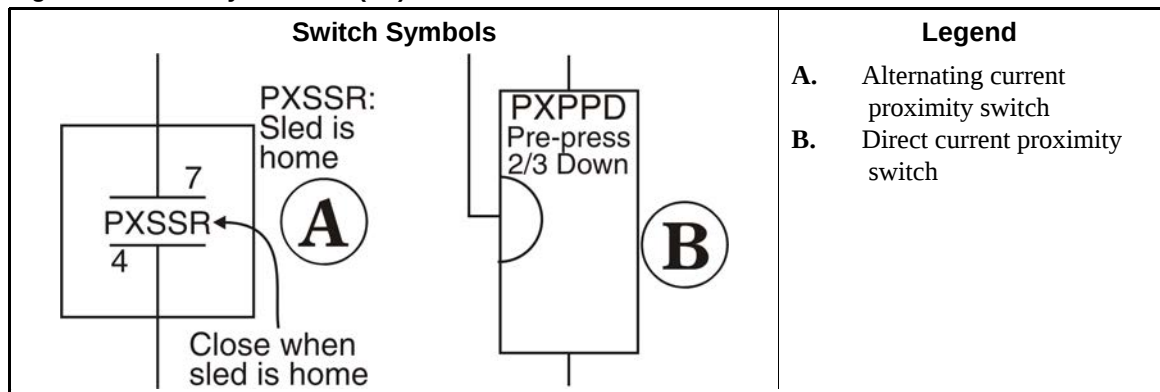


MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the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

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

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

Figure 10: Proximity Switches (PX)



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

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

Figure 11: Cam Switch (SC)

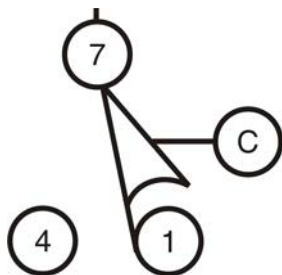
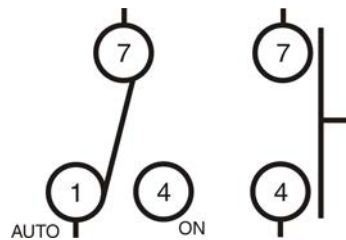


Figure 12: Hand Operated Switch (SH)



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

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

Figure 13: Key Switch (SK)

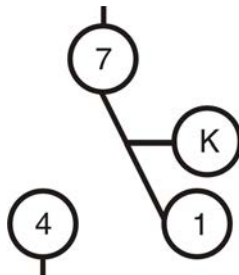
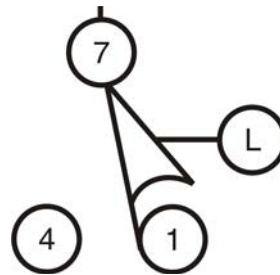


Figure 14: Level Switch (SL)



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

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

Figure 15: Mechanical Switch (SM)

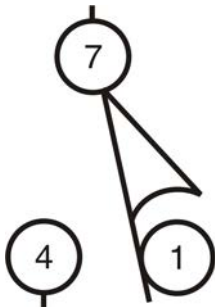
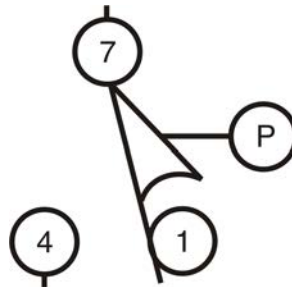


Figure 16: Pressure Switch (SP)



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

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

Figure 17: Temperature Switch (ST)

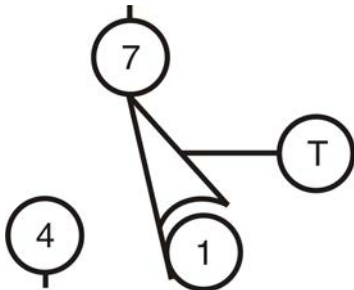


Figure 18: Terminal Board (TB)



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

Figure 19: Electrically Operated Valve (VE)



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

Figure 20: Bridge Rectifier (ZF)

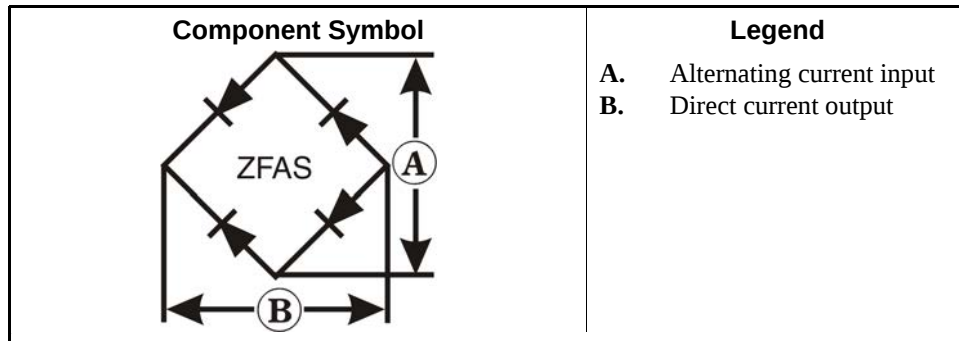
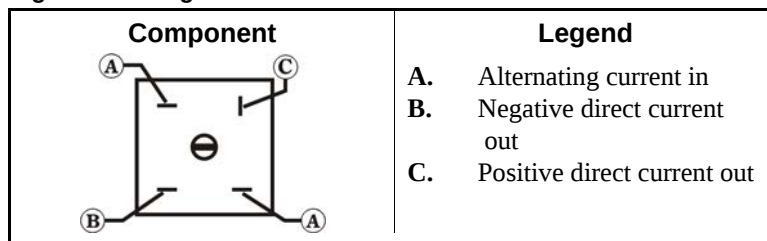


Figure 21: Bridge Rectifier



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

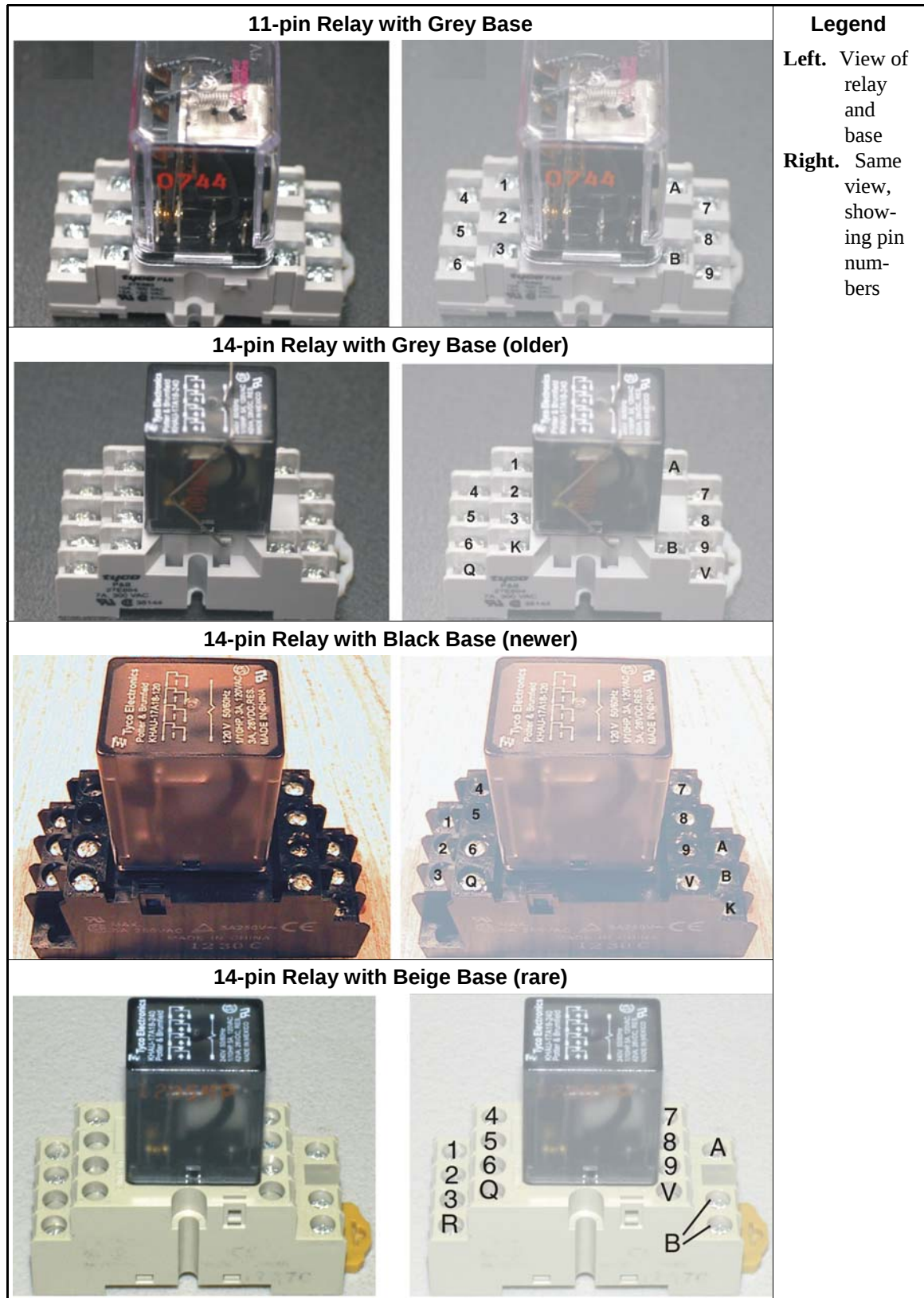
2. Component Terminal Numbering



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

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

Figure 22: Plug-in Relays



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

Figure 23: AMP Connector Pin Locations

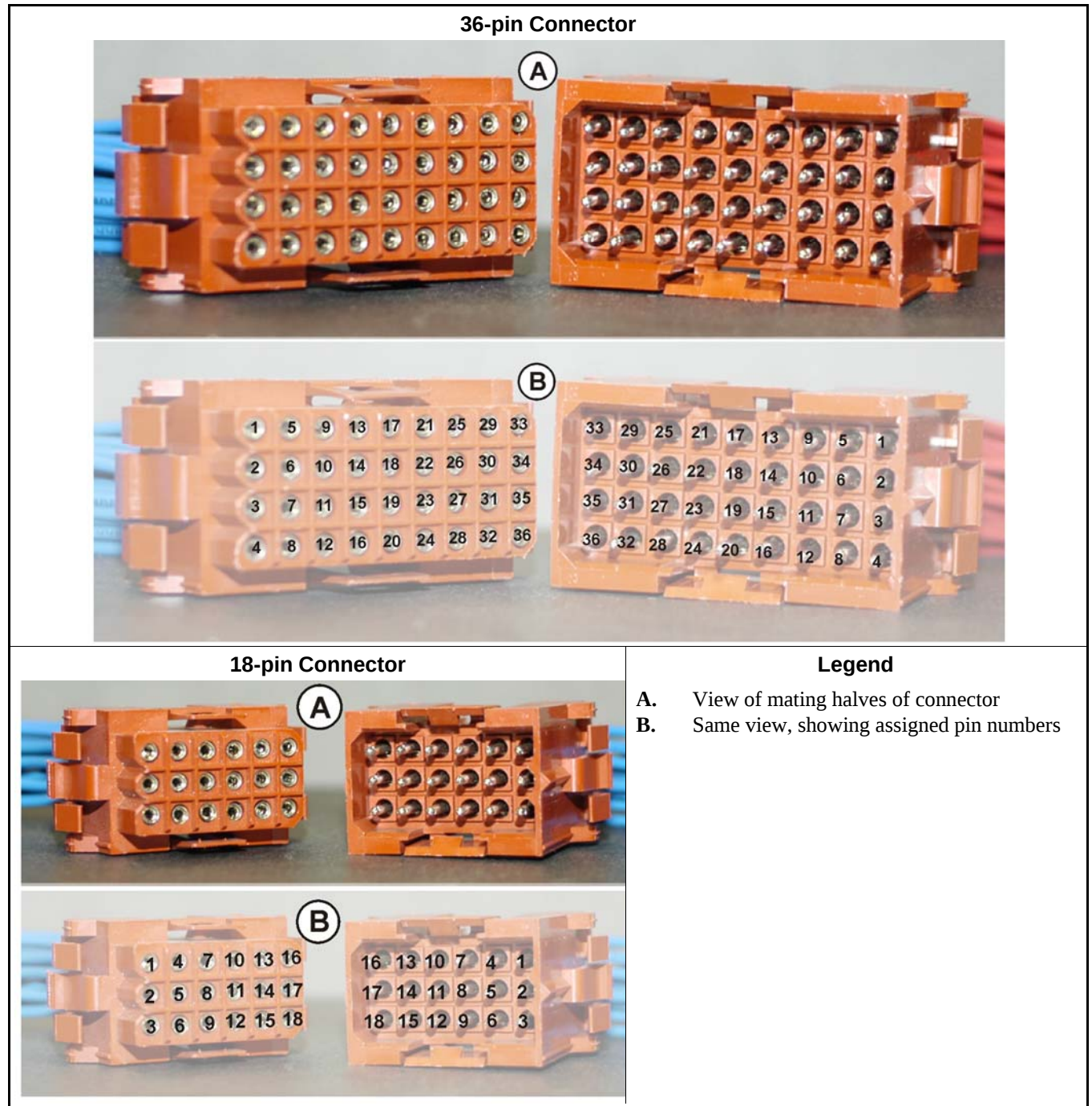


Figure 24: Molex Connector Pin Locations

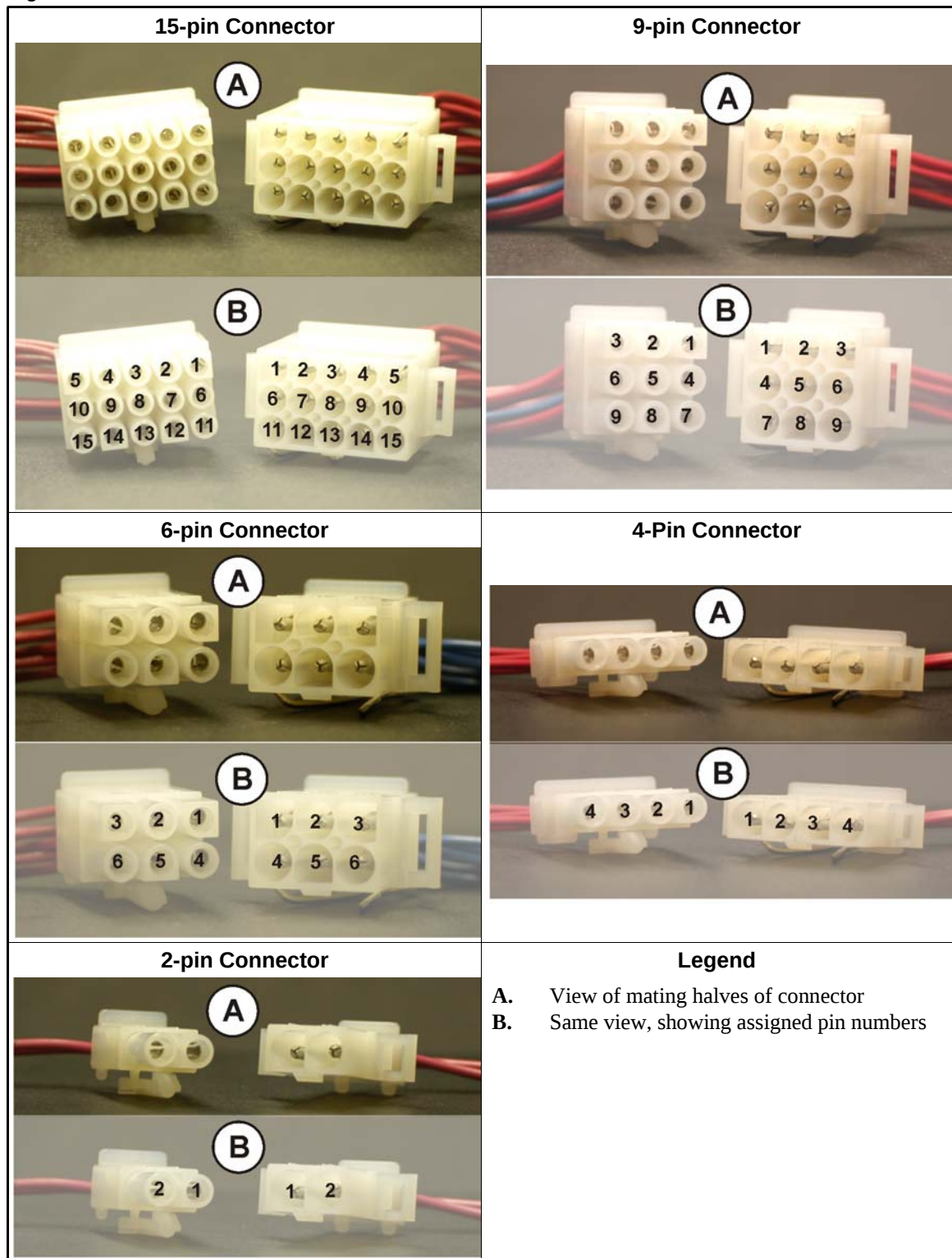


Figure 25: Pressure Switch

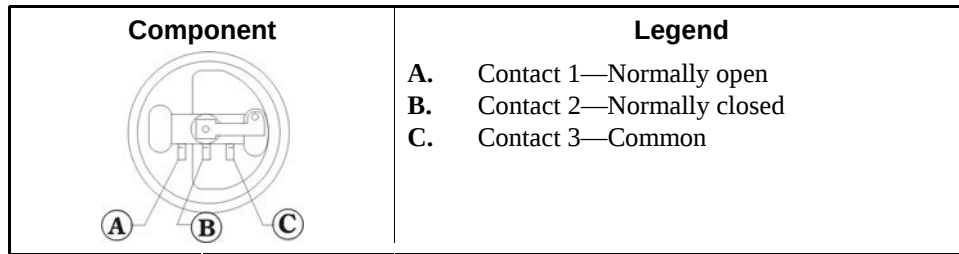


Figure 26: Toggle Switch

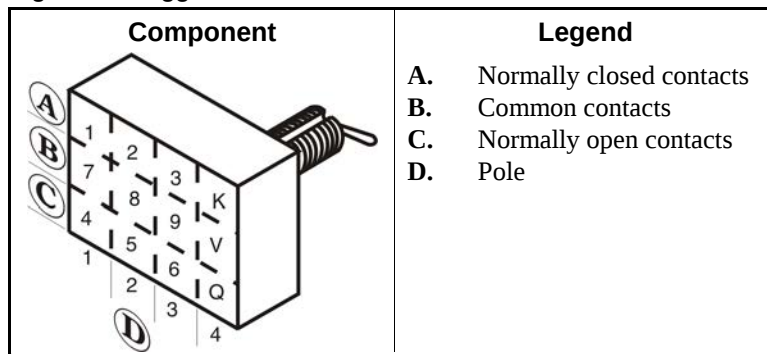
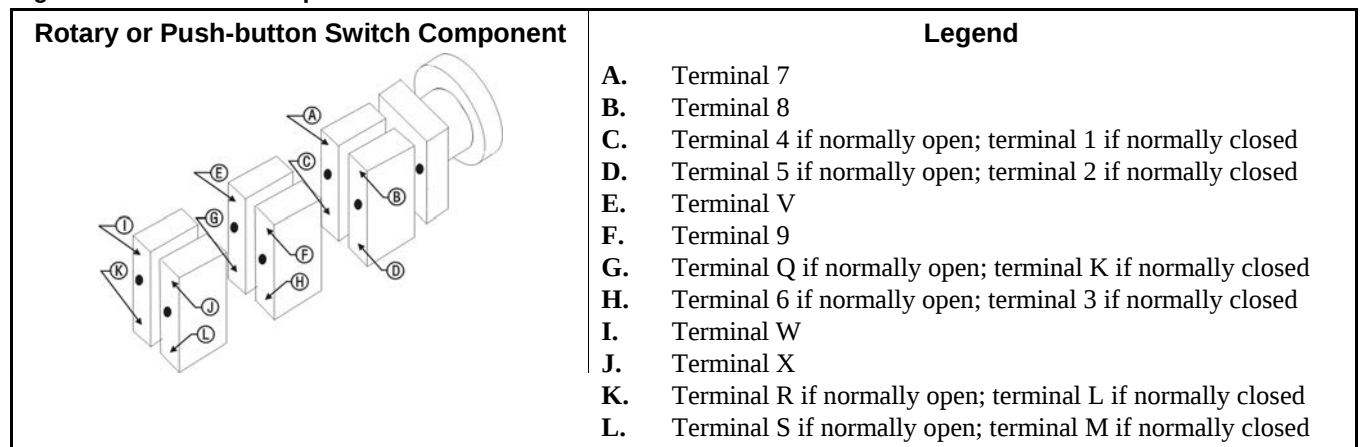


Figure 27: Switch with Replaceable Contact Blocks



3. Features of Milnor® Electrical Schematic Diagrams

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

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

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

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

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

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

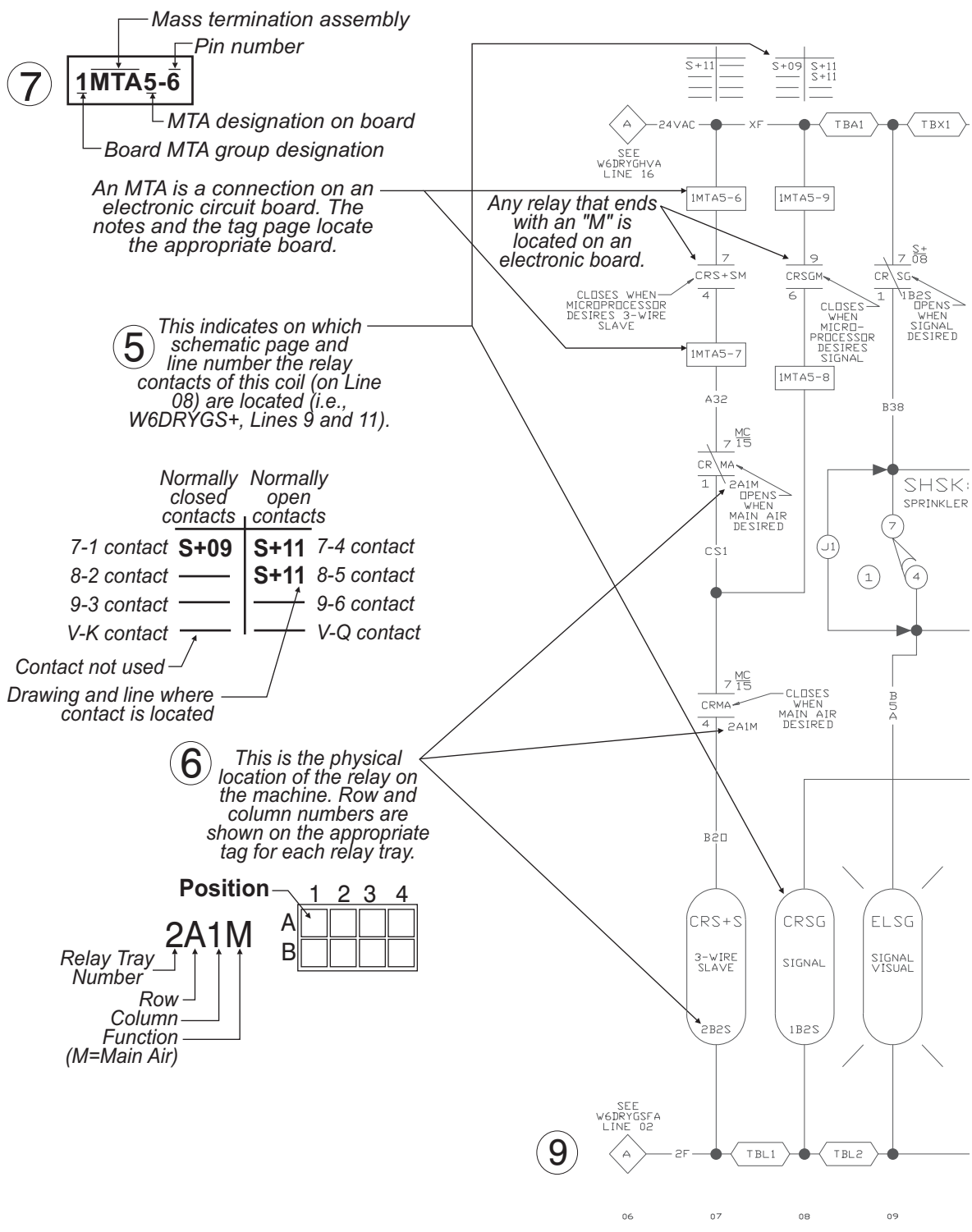
2. Included in the drawing title are the class of control system, the title of this circuit, and the circuit voltage.
3. Line numbers are provided along the bottom edge of the drawing. These permit service personnel in the field and at the Milnor® factory to quickly relate circuit locations when discussing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

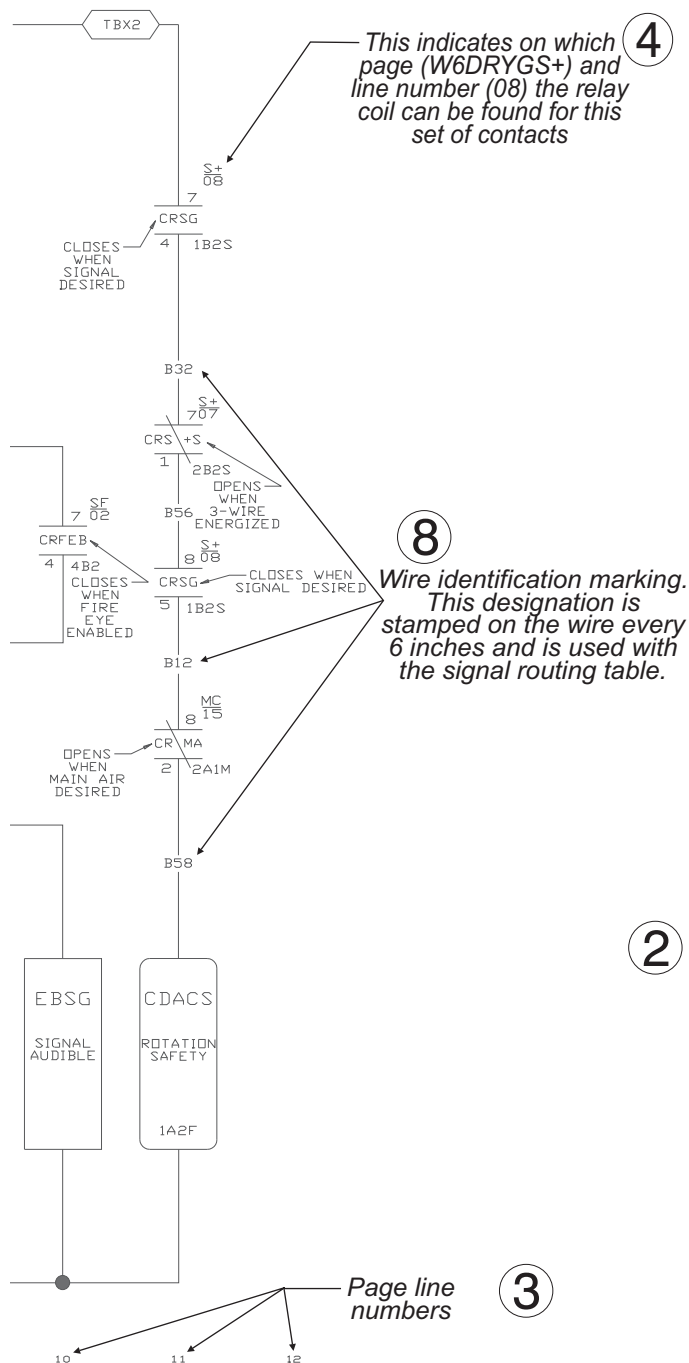
The complete listing of the boards utilized in a given control system can be found in the component list for that system.

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

— End of BIUUUK01 —

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Major revision (letter)

1 Page number (S+)

Machine type (Gas fired dryer)

6th generation of controls

W = Wiring

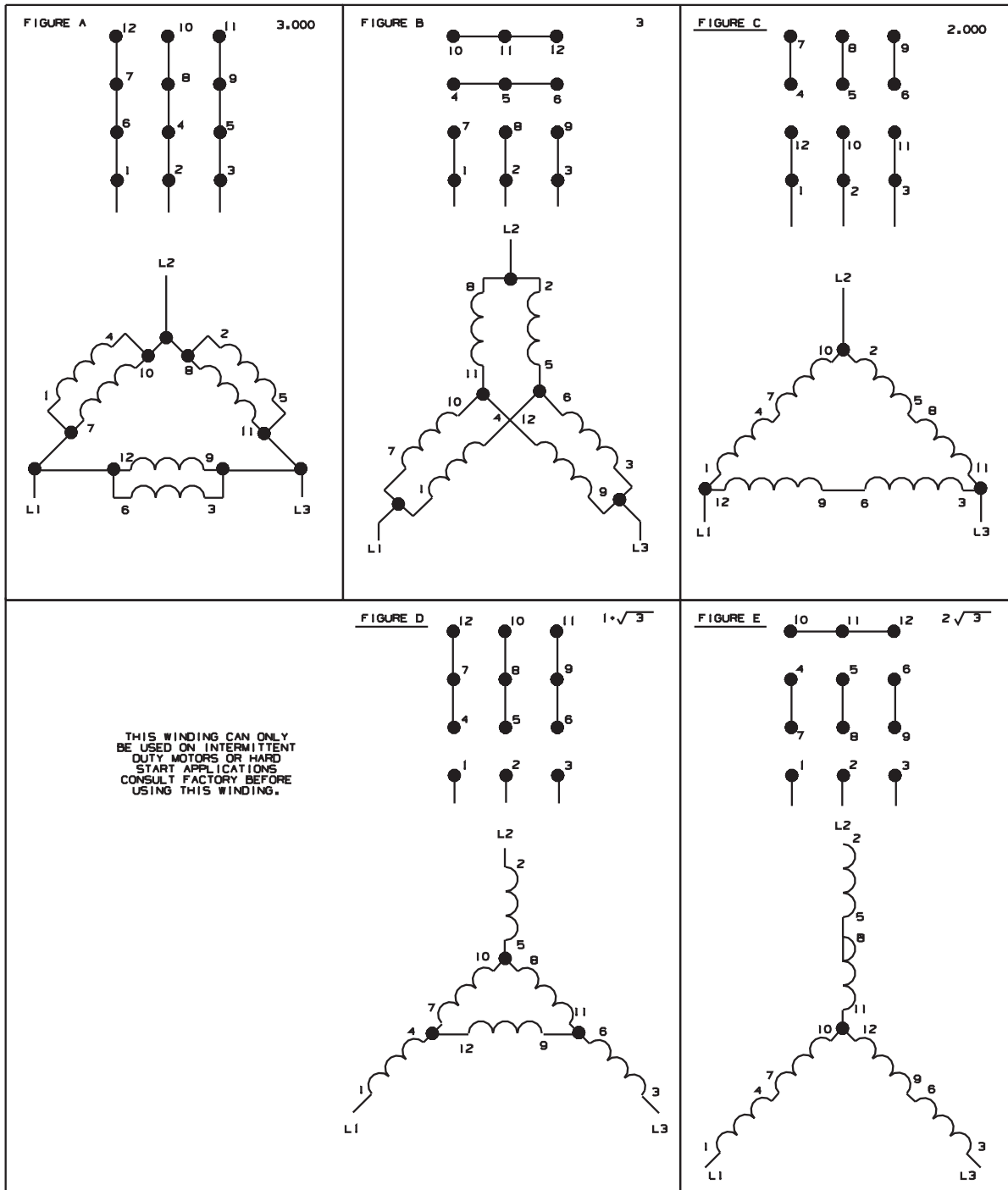
Class of control system

Title of this circuit
Voltage of this circuit

NOTES:

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

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



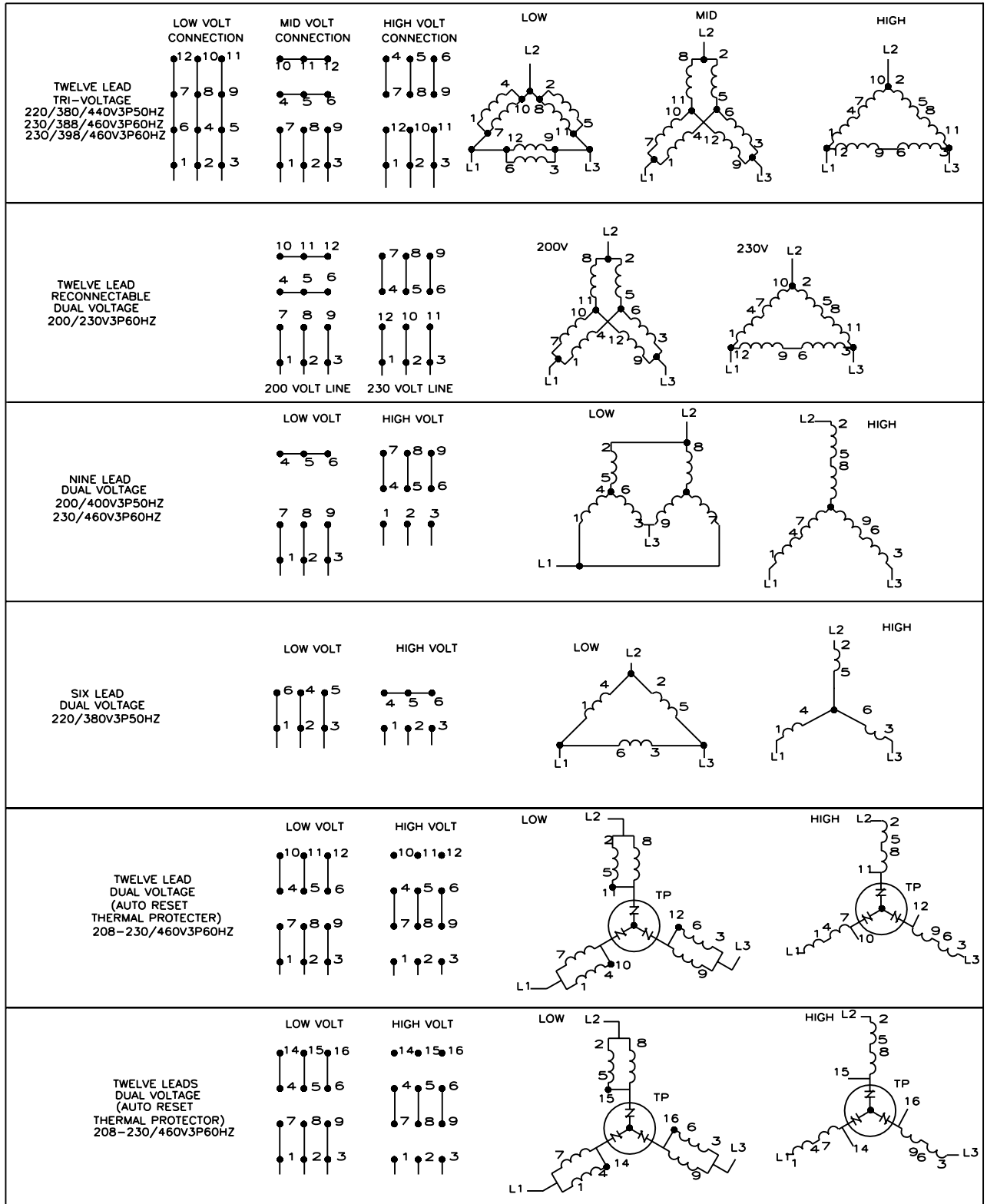
06 07 08 09 10 11 12 13 14 15 16 17

BMP850029

MOTOR CONNECTION DIAGRAMS

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

PELLERIN MILNOR CORPORATION



W80008

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

W80008
2001253A

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

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

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.

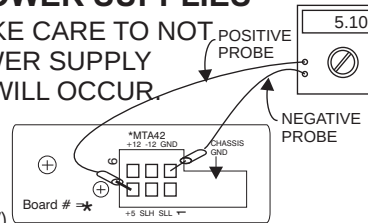


FIG 1.

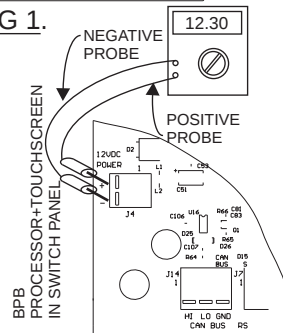


FIG 2.

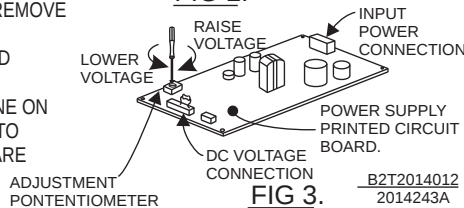
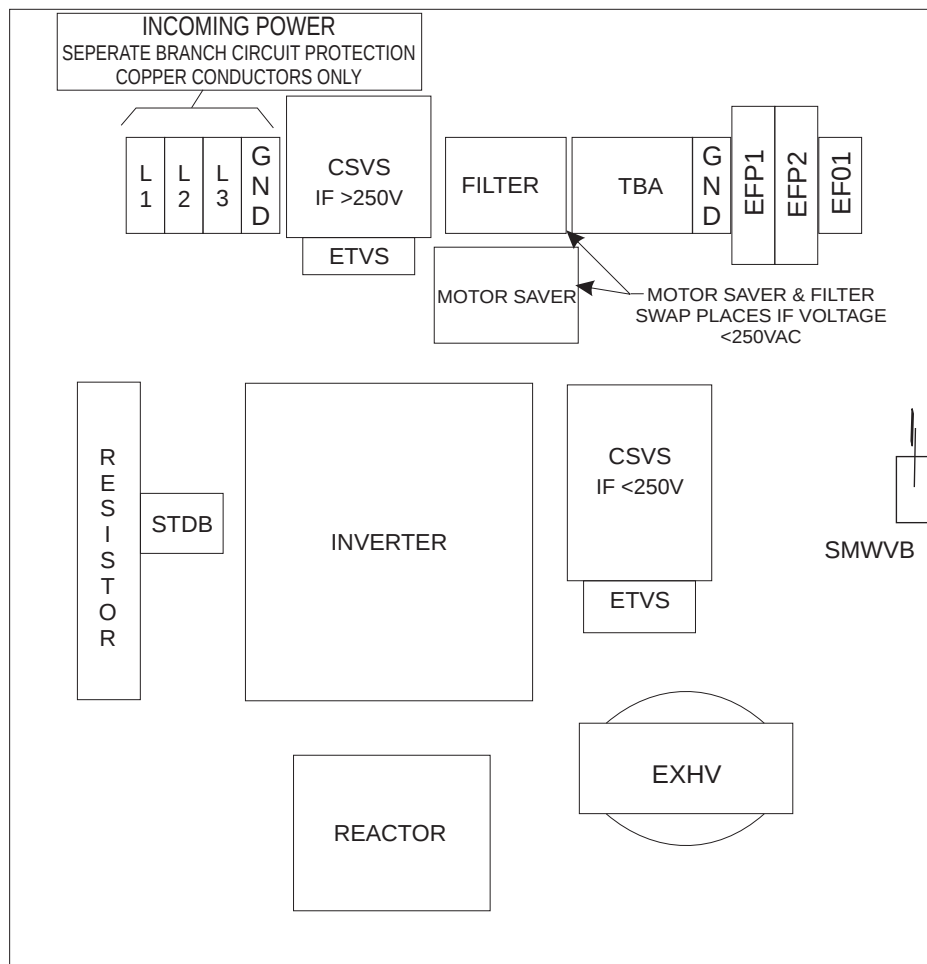


FIG 3.

W6W5SZTG1

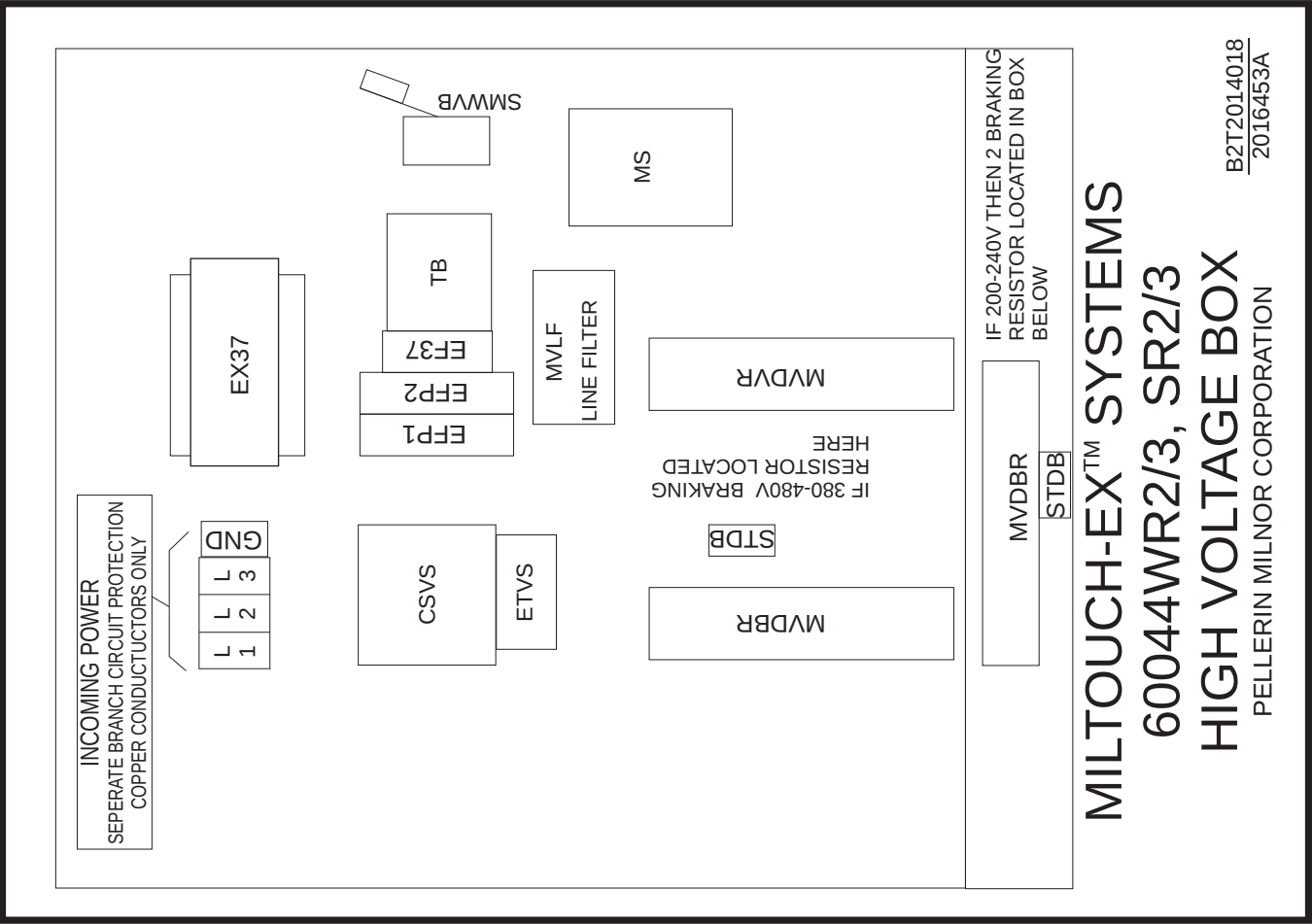
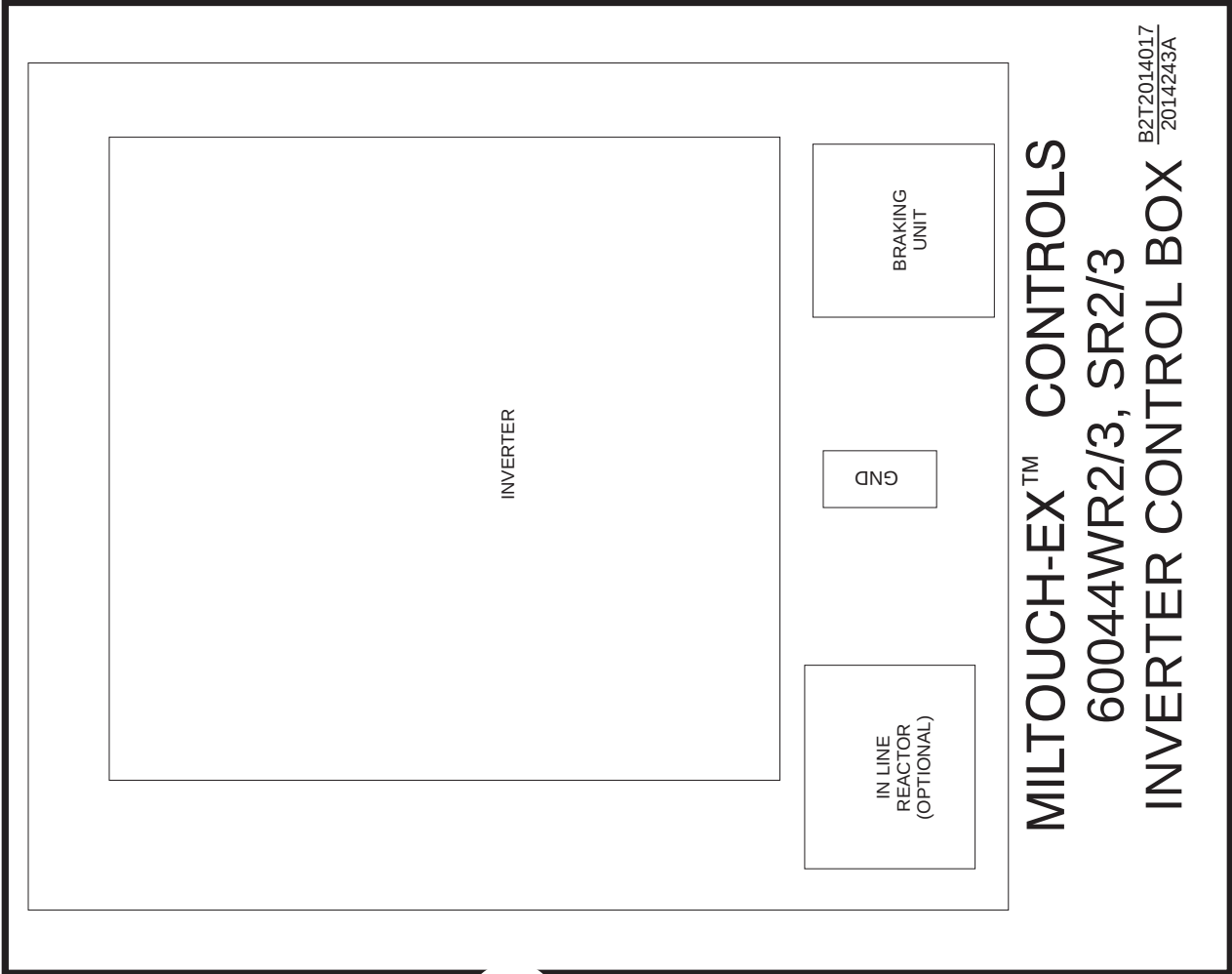
MICRO 6 SYSTEMS
SCHEMATIC: MACHINE TAGS
PELLERIN MILNOR CORPORATION



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

B2T2015008
2015335A

W6W5SZTG2
MICRO 6 SYSTEMS
SCHEMATIC: MACHINE TAGS
PELLERIN MILNOR CORPORATION

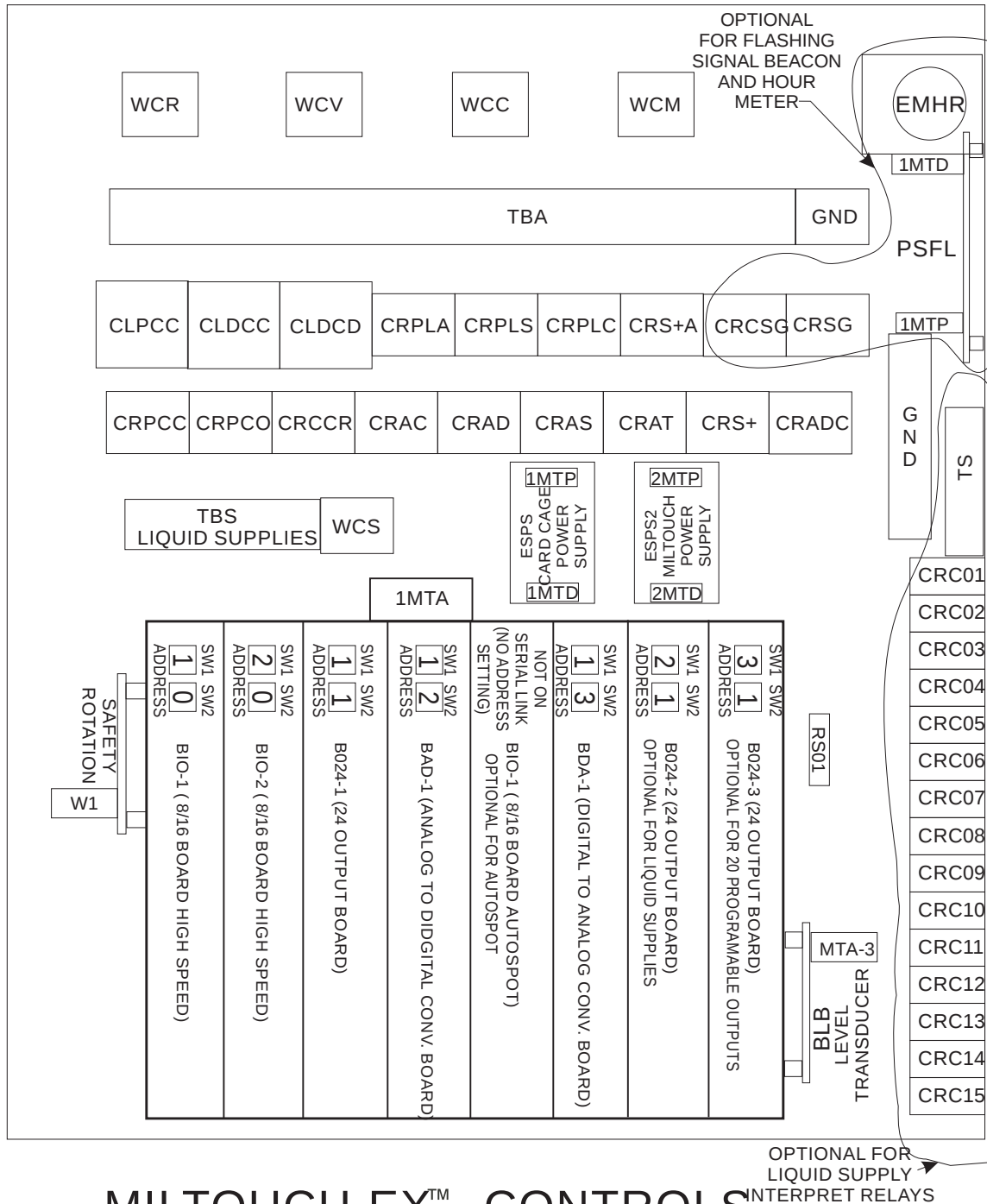


W6W5SZTG3

MICRO 6 SYSTEMS

SCHEMATIC:60044 MACHINE TAGS

PELLERIN MILNOR CORPORATION



MILTOUCH-EX™ CONTROLS

60044 SINGLE MOTOR STAPHGUARD

LOW VOLTAGE CONTROL BOX

PELLERIN MILNOR CORPORATION

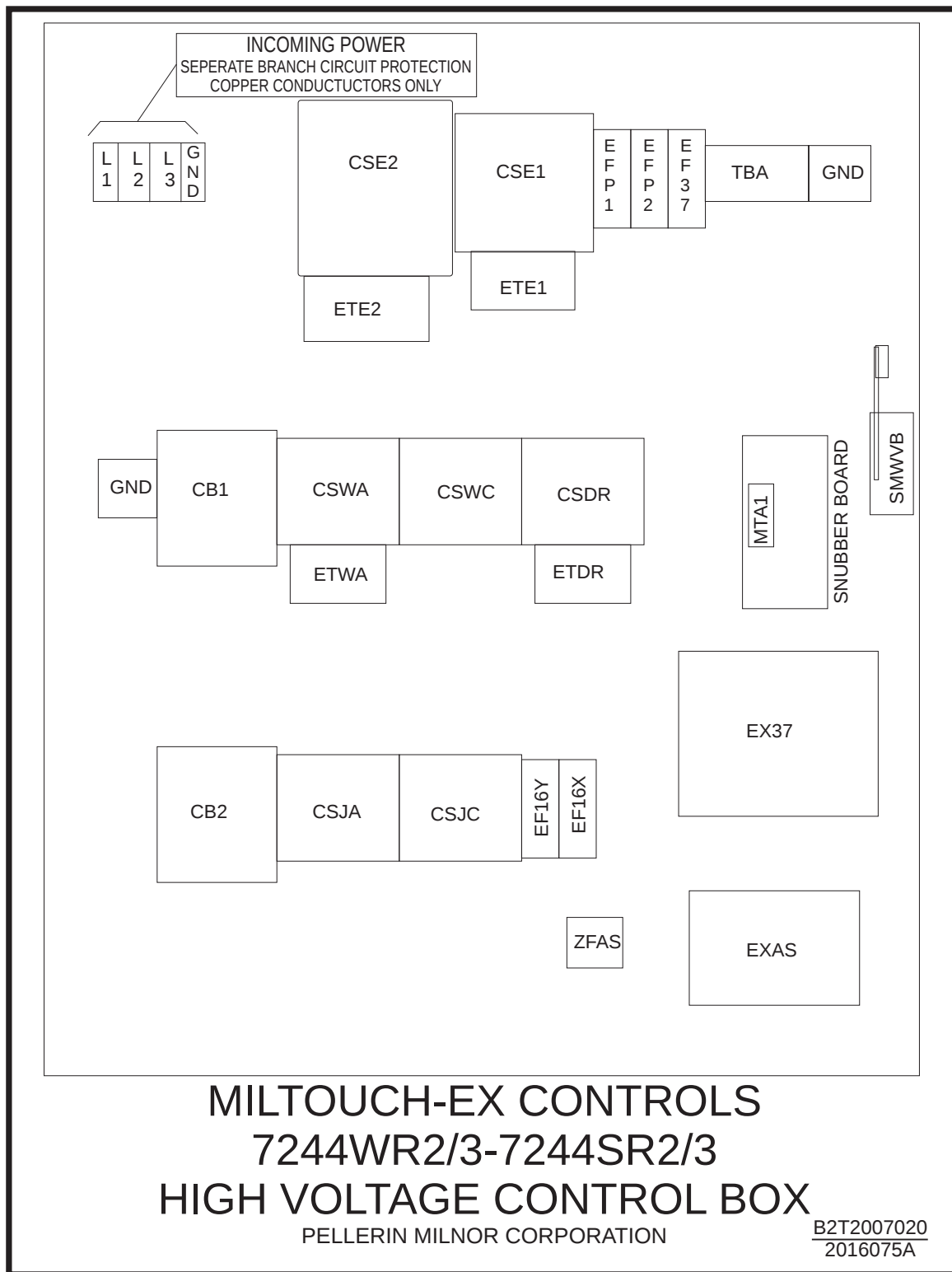
B2T2014024
2018205A

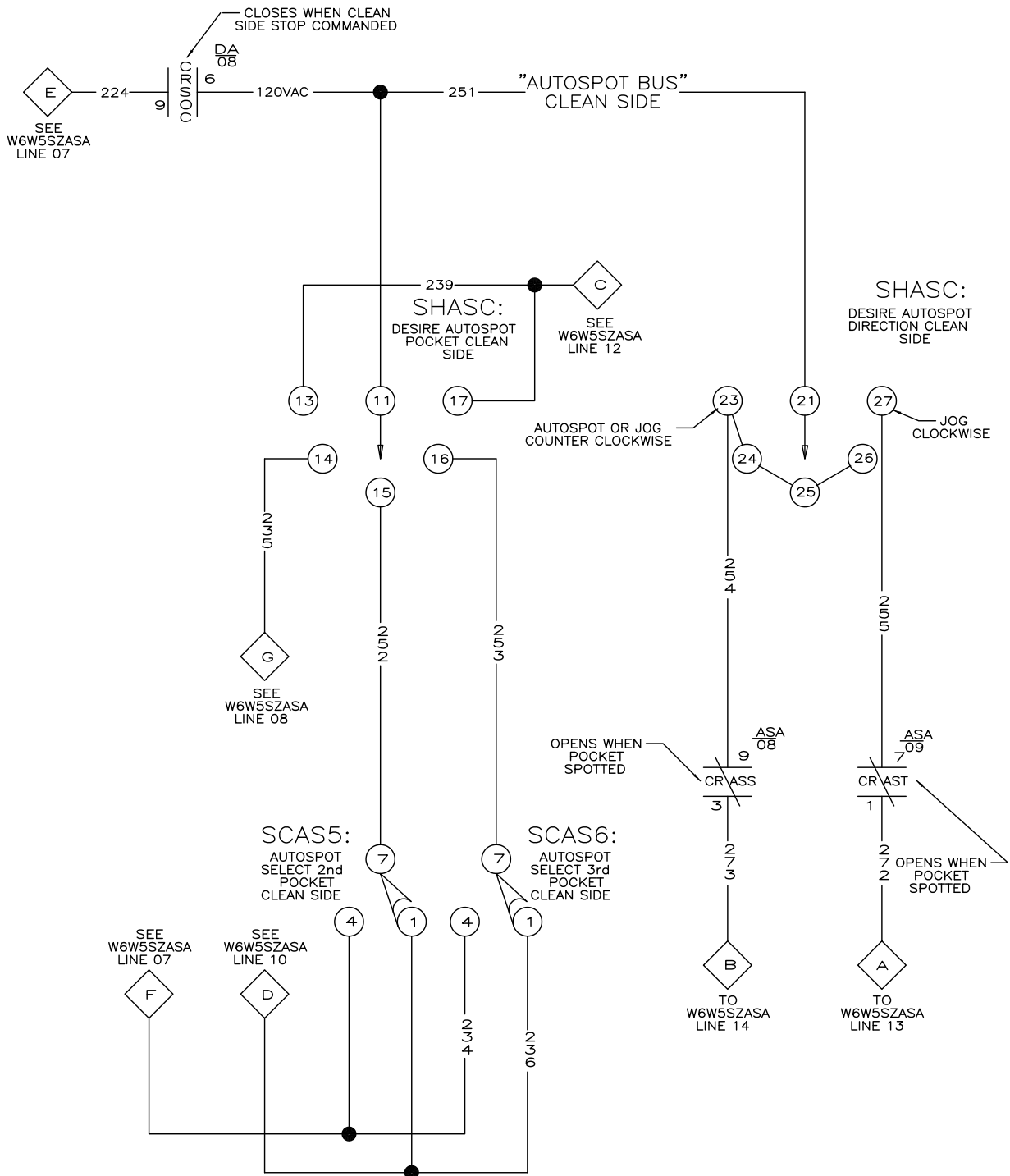
W6W5SZTG4

MICRO 6 SYSTEMS

SCHEMATIC: MACHINE TAGS

PELLERIN MILNOR CORPORATION

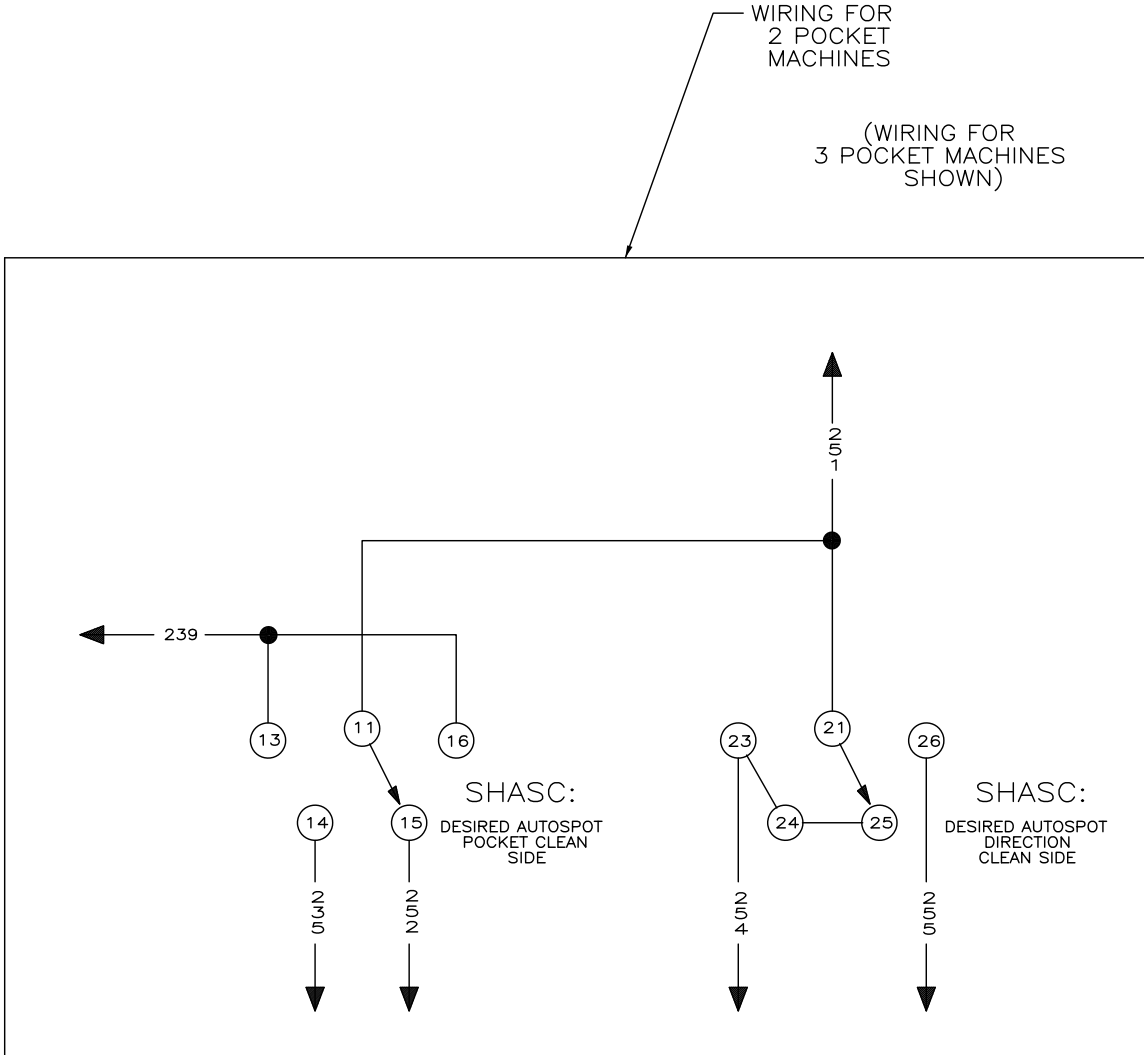




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MILTOUCH-EX™ CONTROLS

72044 SP2/3 ONLY

SCHEMATIC: AUTOSPOT CLEAN SIDE

110V1P50HZ/120V1P60HZ

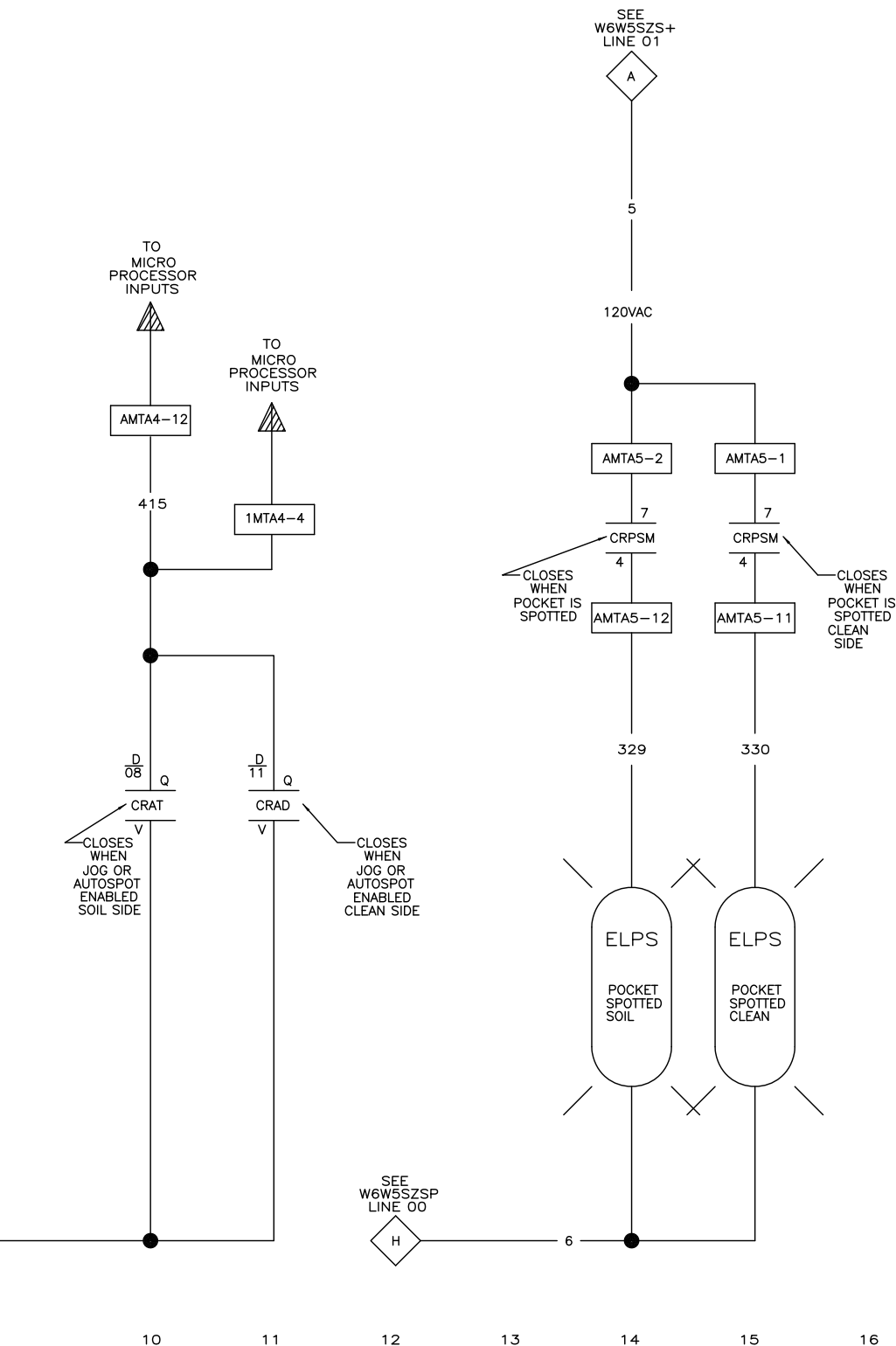
PELLERIN MILNOR CORPORATION

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MILTOUCH-EX™ CONTROLS

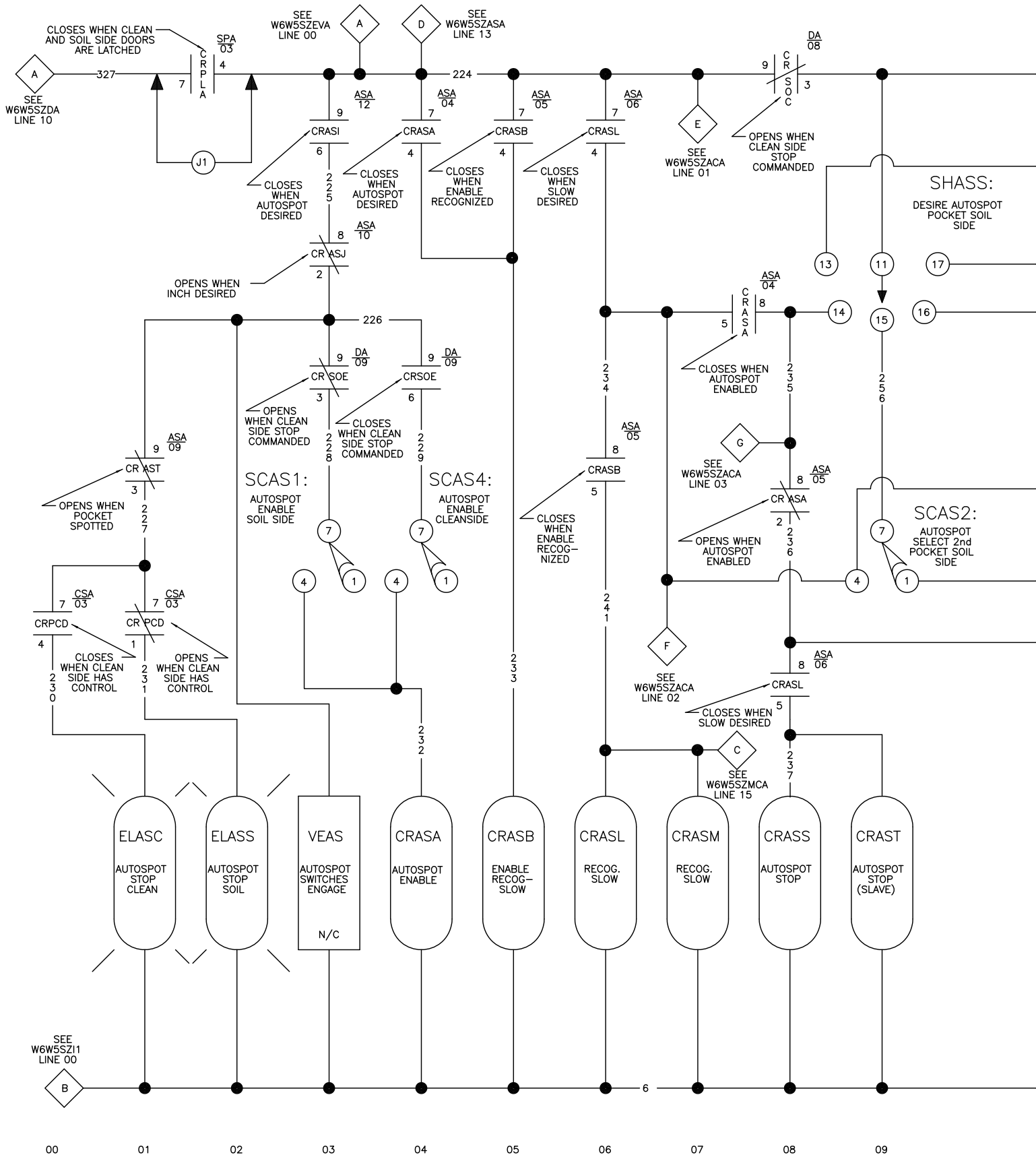
SCHEMATIC: AUTOSPOT

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



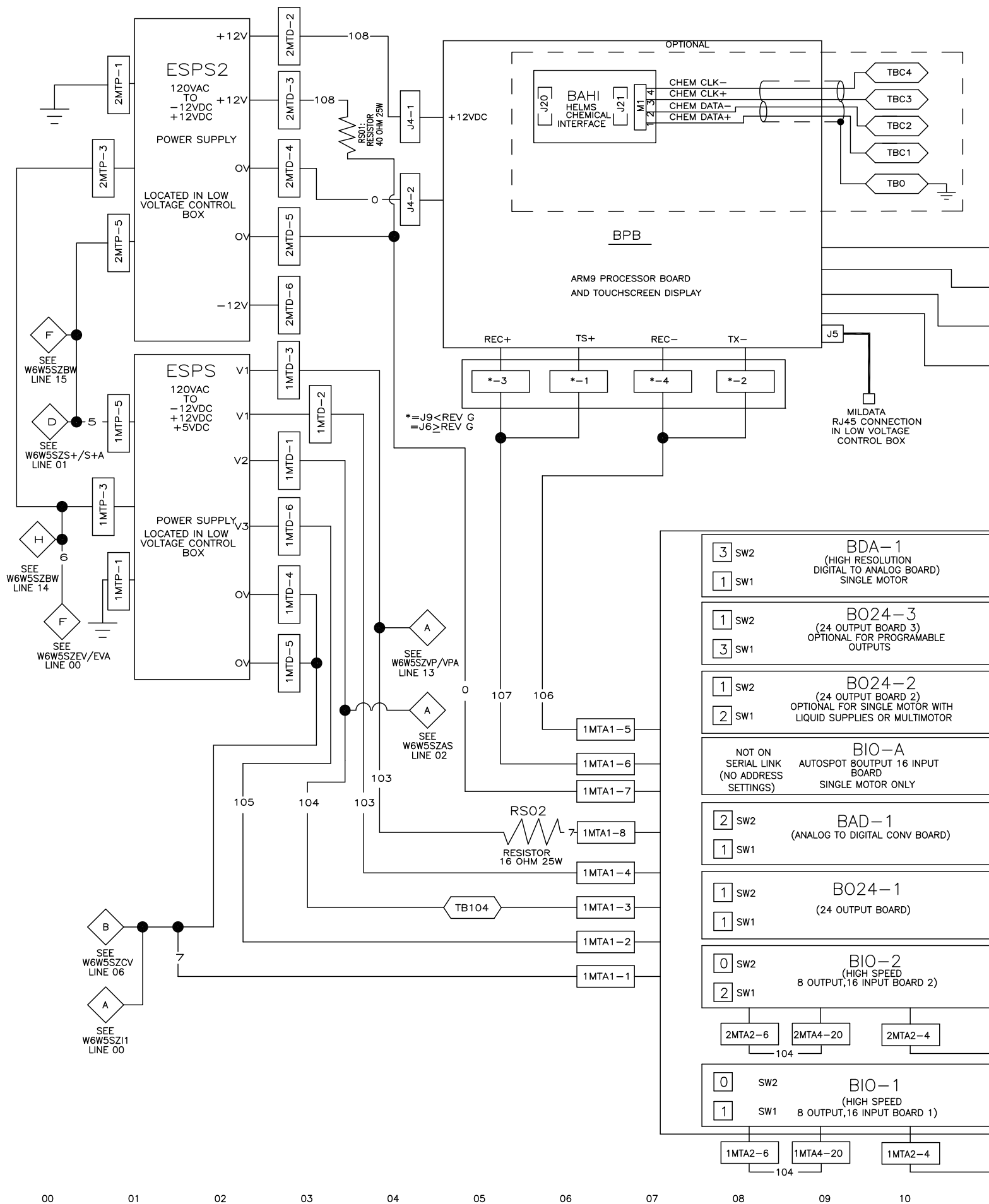
NOTES
REMOVE (J1) AND (J2) FOR
6044SP2/SR2 AND 6044SP3/SR3 MODELS

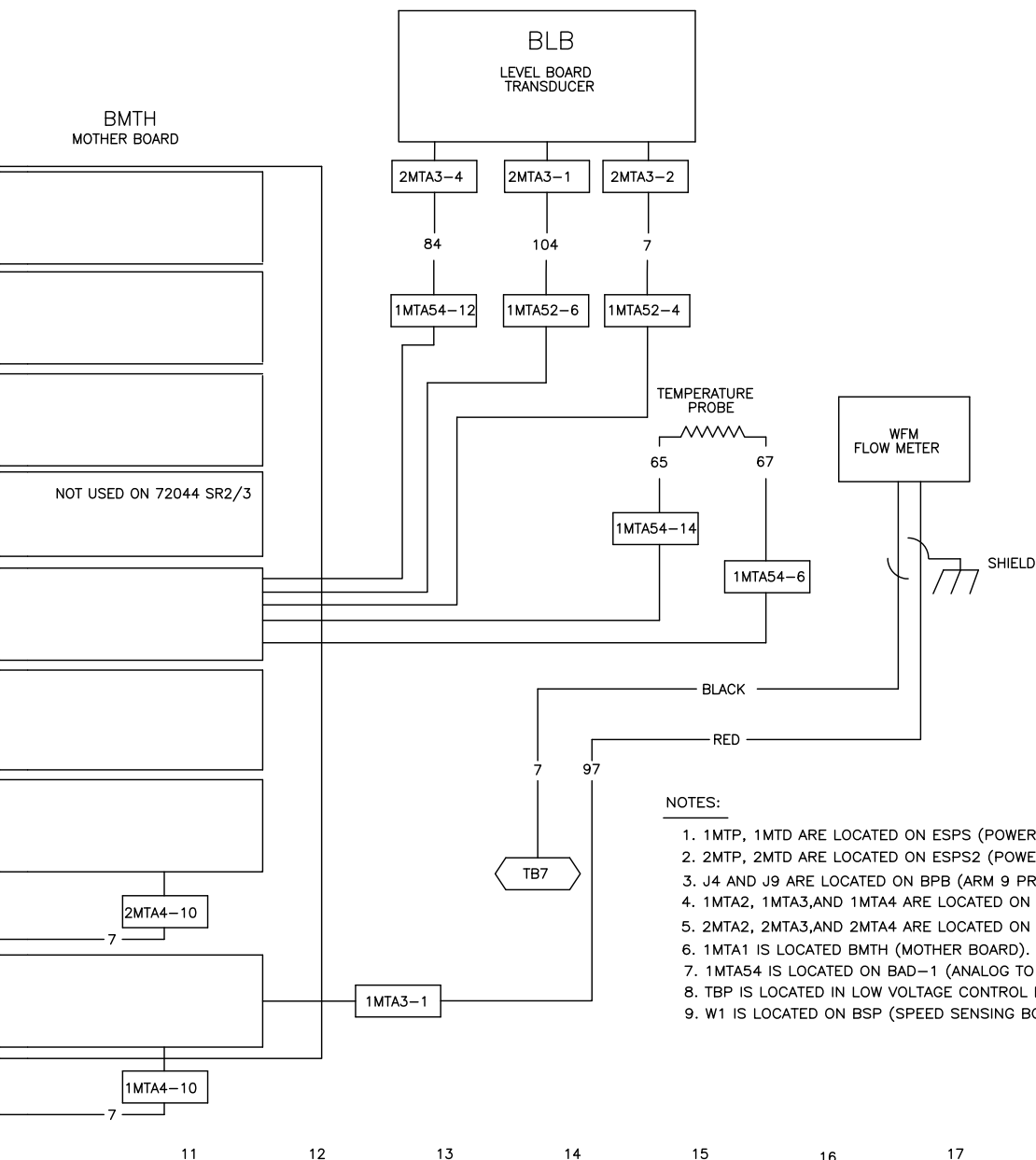
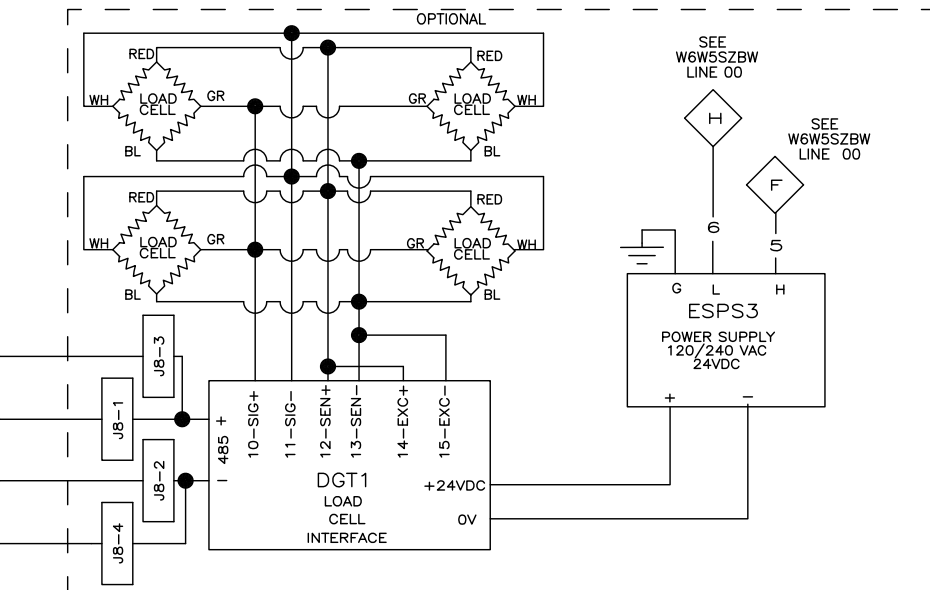
ASA04 ASA08	ASA05 ASA06	ASA06 ASA08	MCA15 MCA10 EVA03	ASA14 ASA15 ACA07	ACA08 SPA02 ASA01
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W6W5SZASA
2022475B







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 SPEED 8 OUTPUT-16INPUT BOARD).
5. 2MTA2, 2MTA3, AND 2MTA4 ARE LOCATED ON BIO-2 (HIGH SPEED 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).

W6W5SZBW

MILTOUCH-EX™ CONTROLS

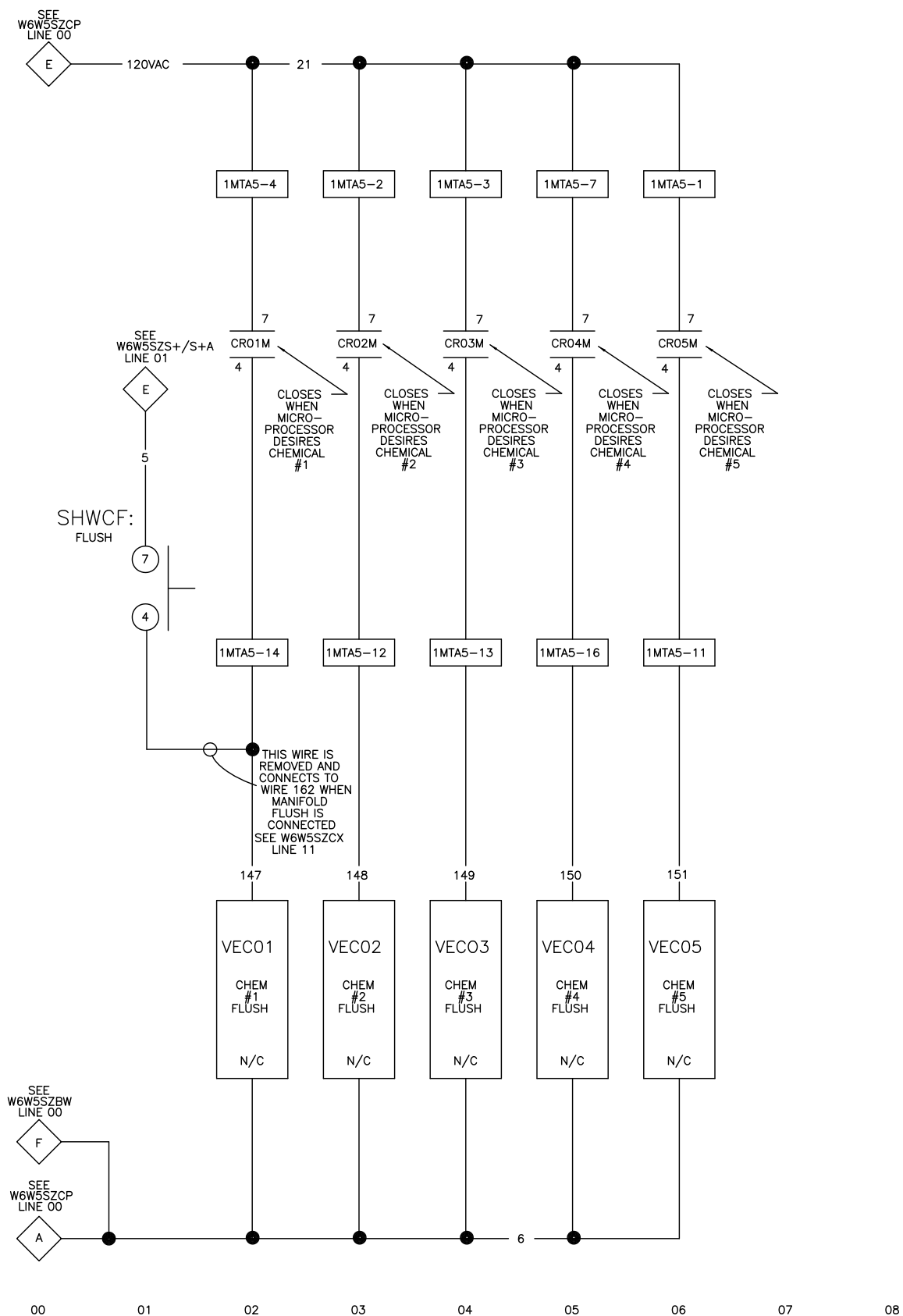
SERIAL CONTROLS

SCHEMATIC: BOARD TO BOARD WIRING

PELLERIN MILNOR CORPORATION

W6W5SZBW
2021045B

W6W5SZBW
2021045B



W6W5SZCF

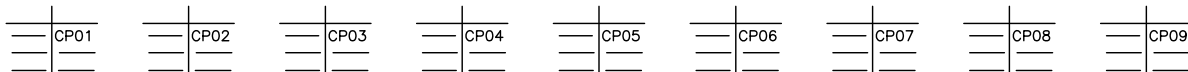
MILTOUCH-EX™ CONTROLS

SCHEMATIC: FLUSHING SUPPLIES

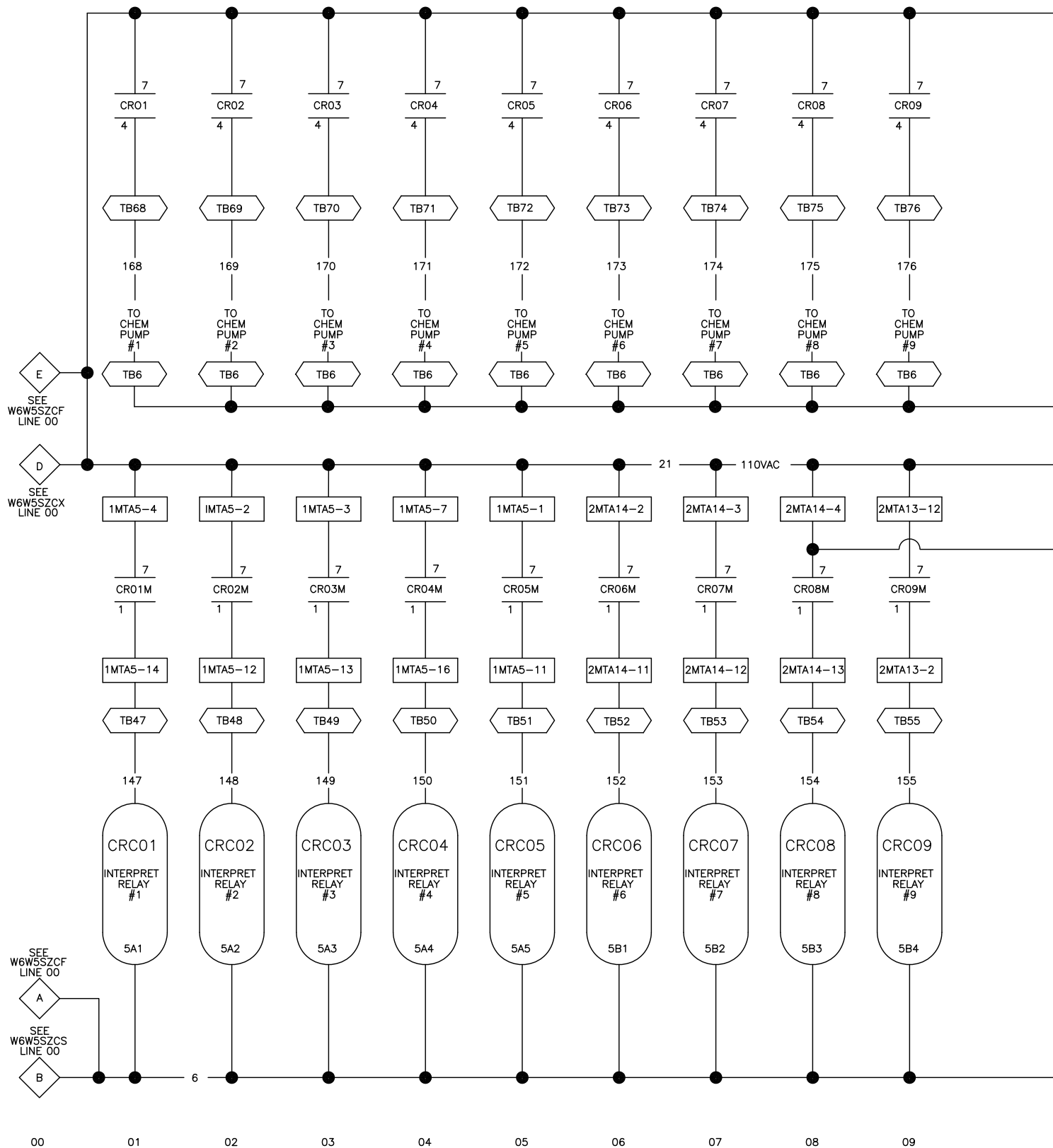
110V1P50HZ/120V1P60HZ

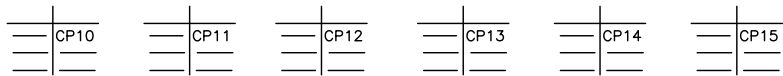
W6W5SZCF
2024214B

W6W5SZCF
2024214B

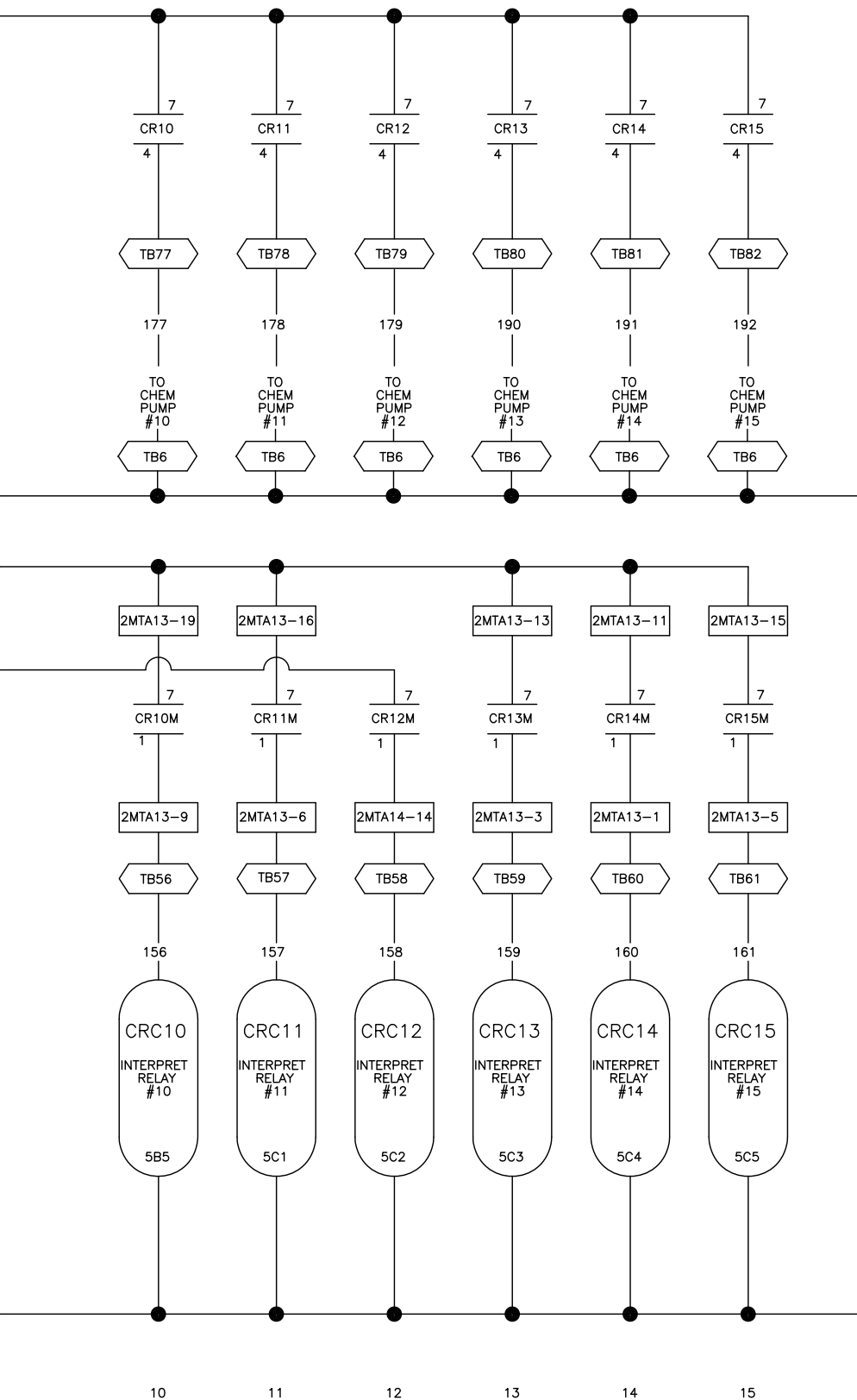


IF CUSTOMER IS SUPPLYING
VOLTAGE FOR CHEMICAL
PUMPS THEM TB21 & TB6 FEEDING
THE INTERPRET RELAY CONTACTS
MUST BE DISCONNECTED FROM
THE INTERNAL 110/120VAC SUPPLY.





W6W5SZCP
2014152B



W6W5SZCP

MILTOUCH-EX™ CONTROLS

SCHEMATIC: LIQUID SUPPLY-INTERPRET RELAYS

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

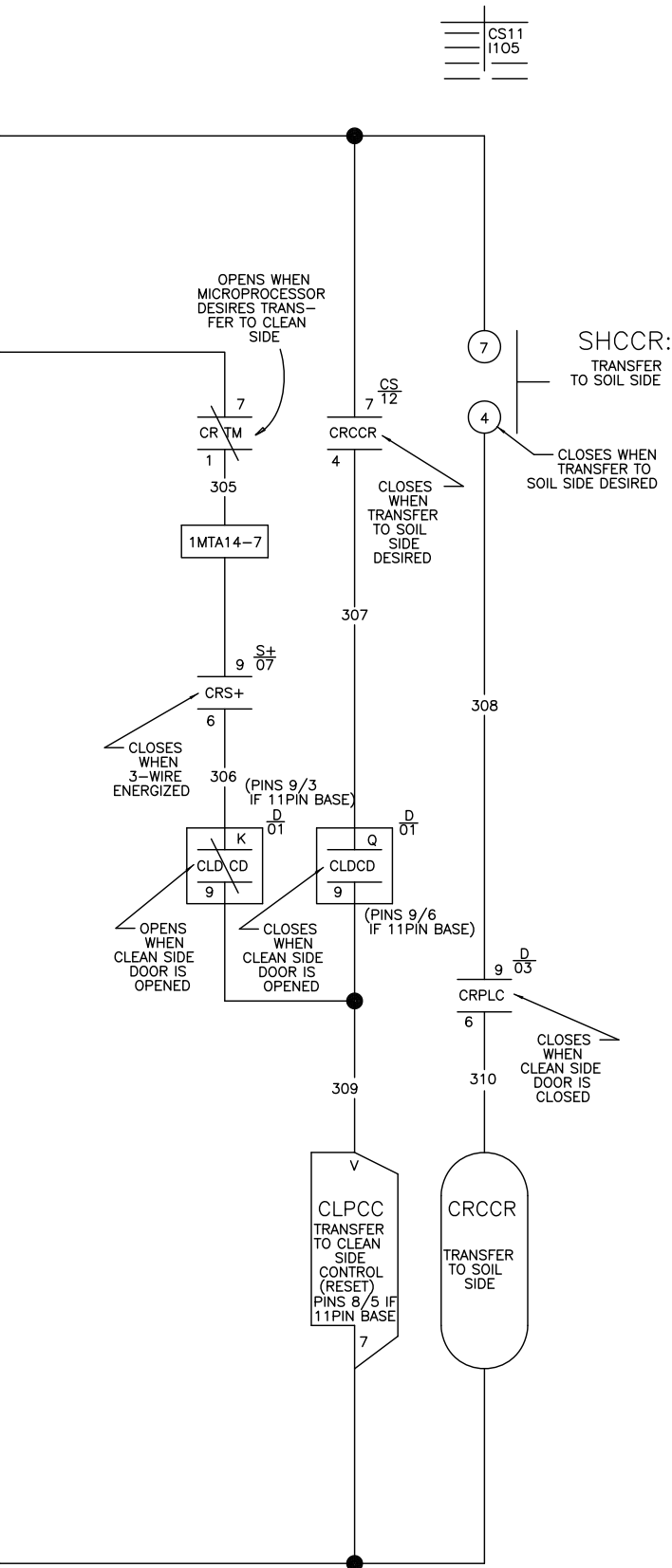
W6W5SZCP
2014152B

W6W5SZCS

MILTOUCH-EX™ CONTROLS

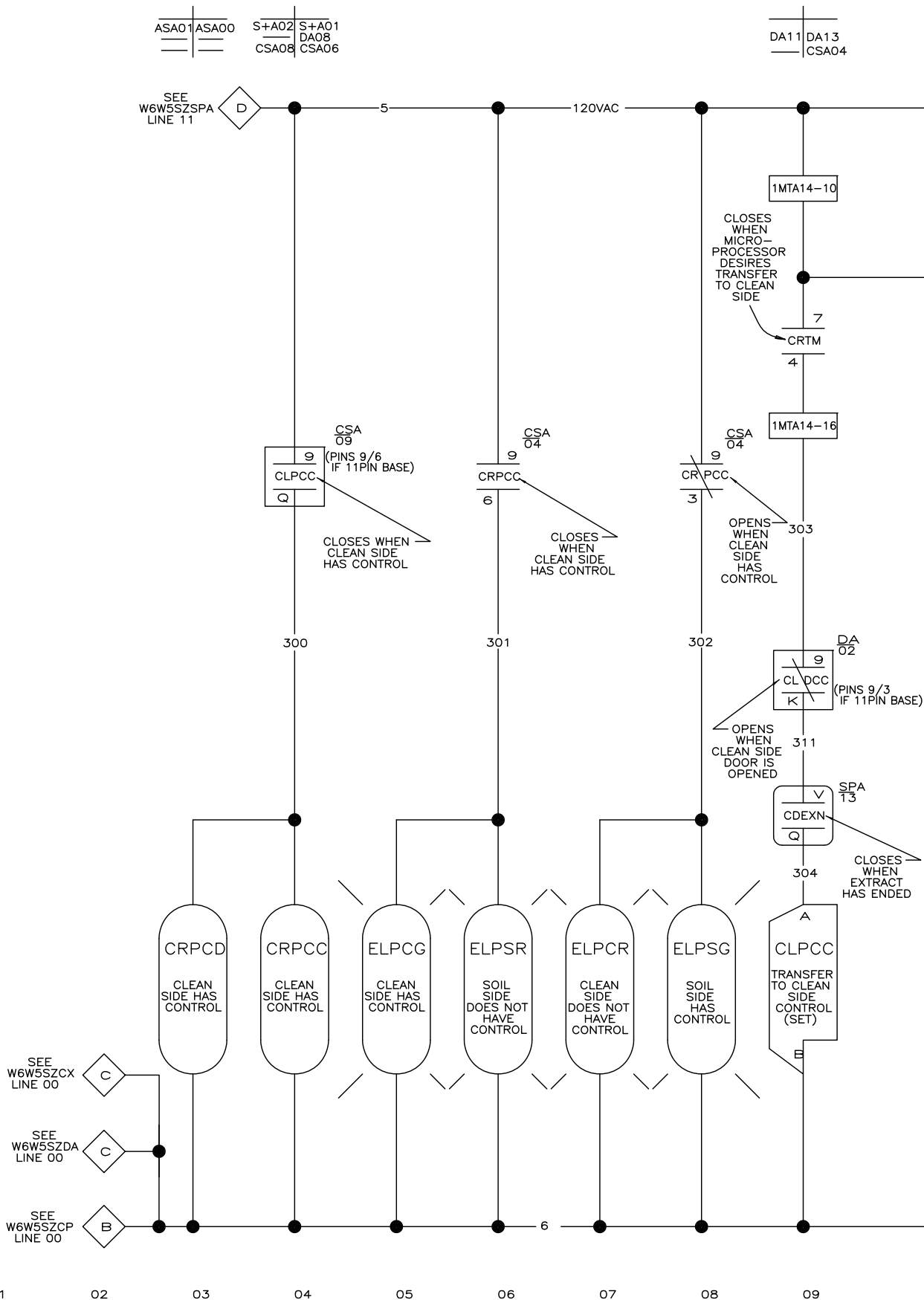
SCHEMATIC: CLEAN & SOIL SIDE CONTROLS

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

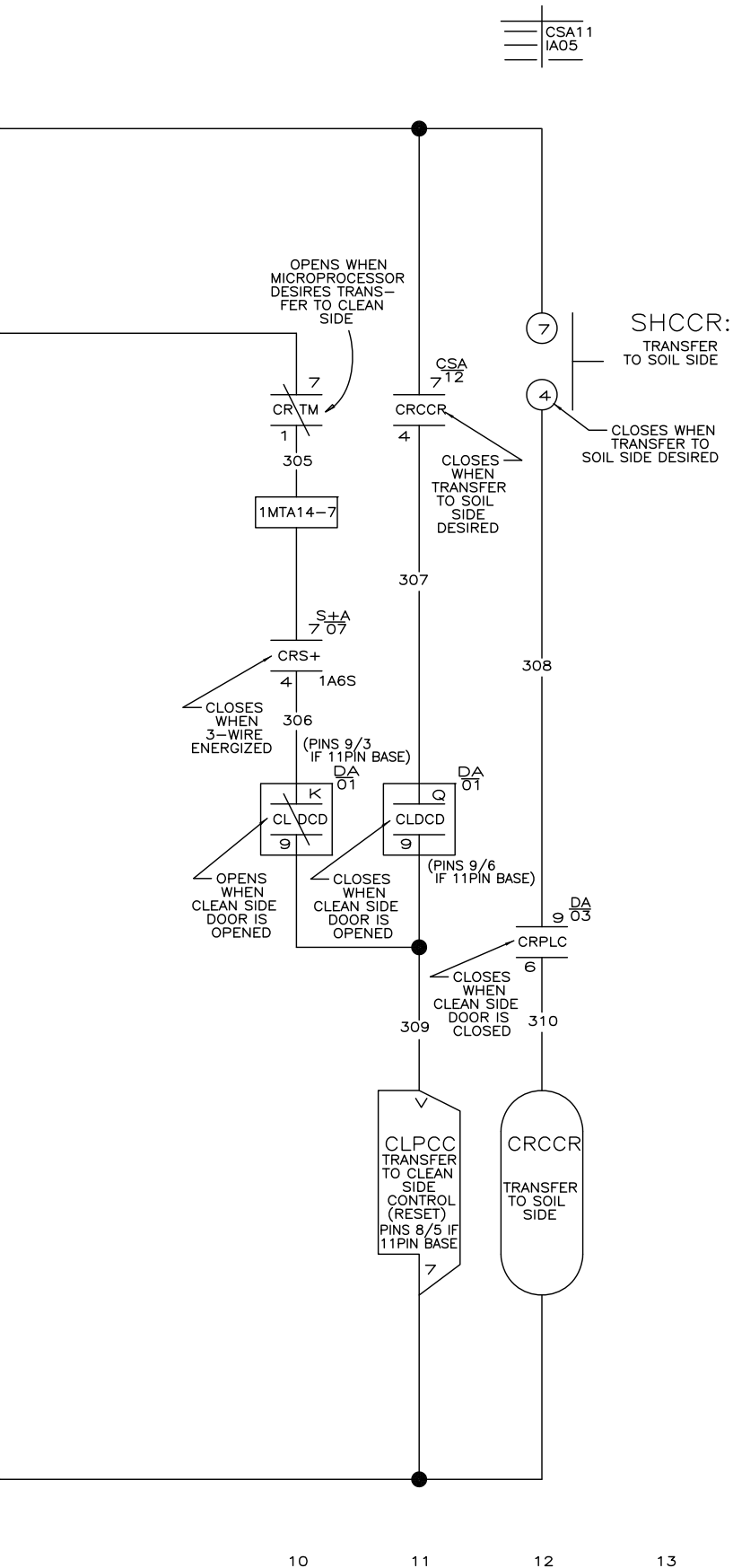


NOTES:

1. RELAYS CRPCC, AND CRCCR ARE LOCATED IN AUTOSPOT CONTROL BOX.
2. 1MTA13, 1MTA14 ARE LOCATED ON B016-1 (16 OUTPUT BOARD).



W6W5SZCSA
MILTOUCH—EX™ CONTROLS
SCHEMATIC: CLEAN & SOIL SIDE CONTROLS
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



NOTES:

1. 1MTA14 IS LOCATED ON BO24-1
(24 OUTPUT BOARD).

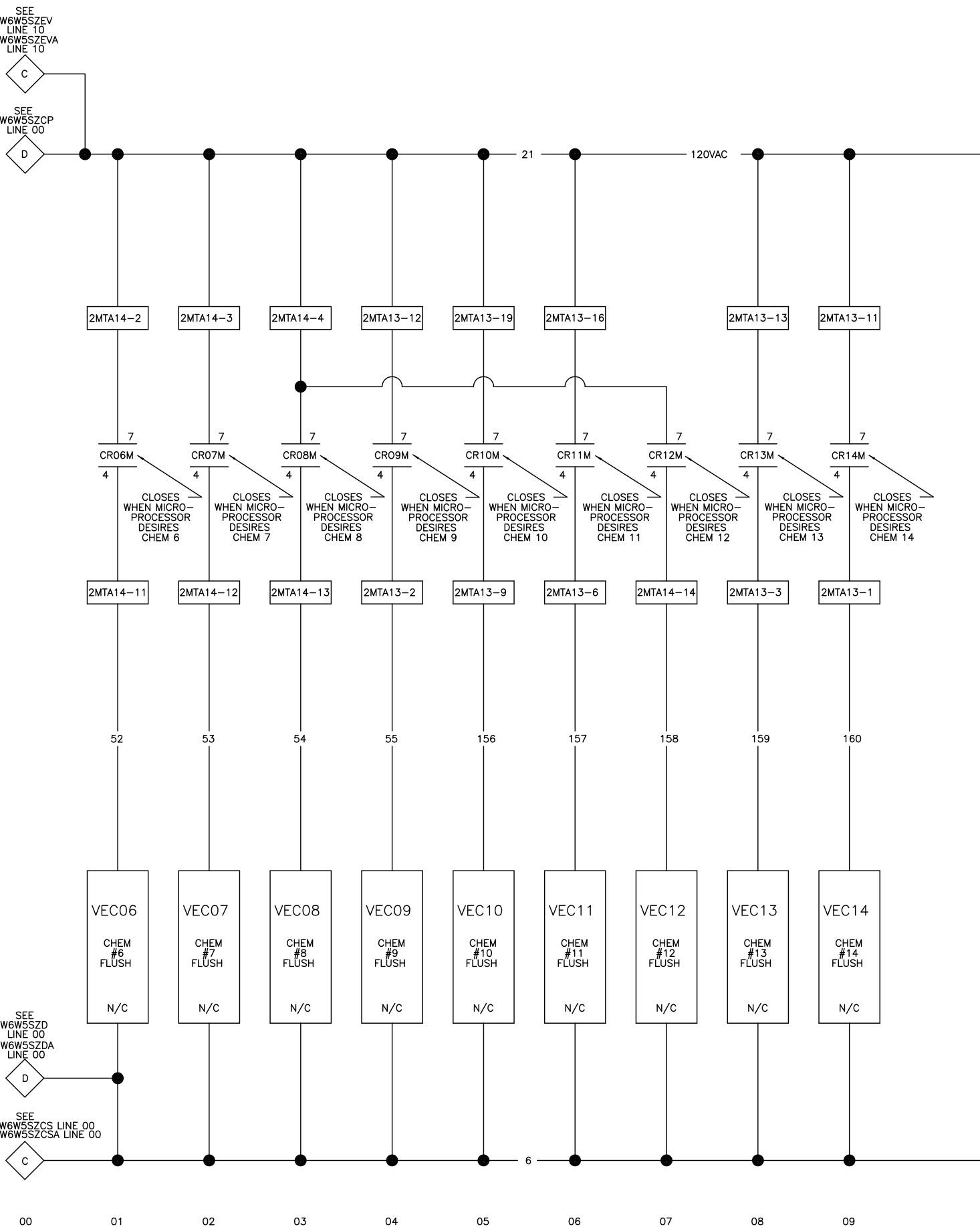
SEE
W6W5SZE
LINE 10
W6W5SZEVA
LINE 10

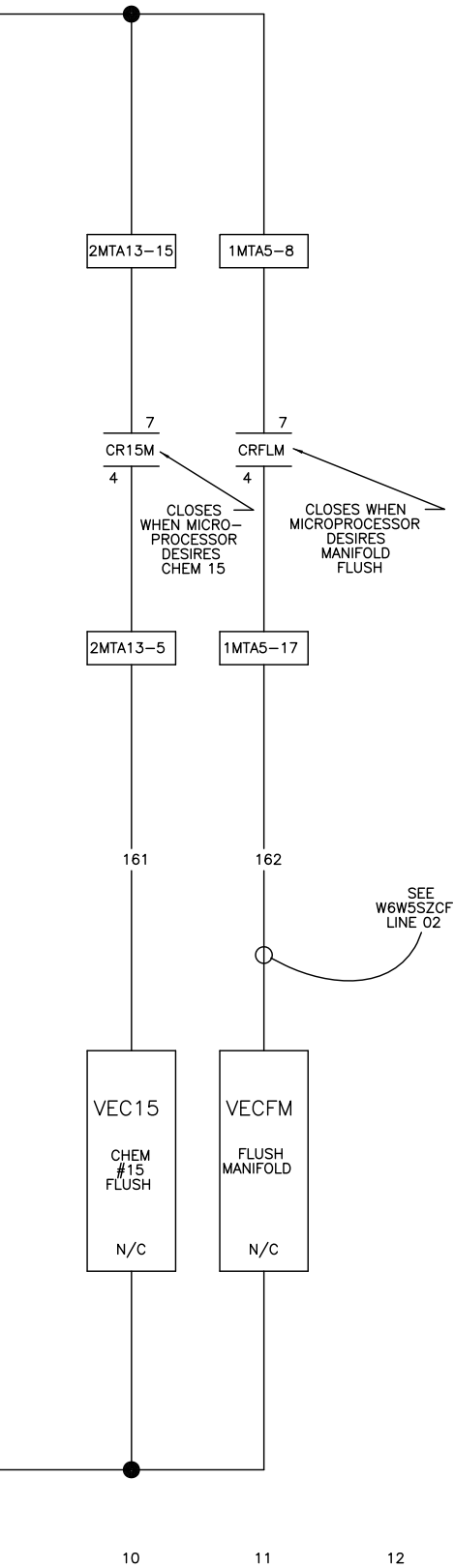
SEE
W6W5SZCP
LINE 00

SEE
W6W5SZD
LINE 00
W6W5SZDA
LINE 00

SEE
W6W5SZCS LINE 00
W6W5SZCSA LINE 00

W6W5SZCX
2016374B





W6W5SZCX

MILTOUCH-EX™ CONTROLS

SCHEMATIC: CENTRAL LIQUID SUPPLY FLUSH 6 THROUGH 15

PELLERIN MILNOR CORPORATION



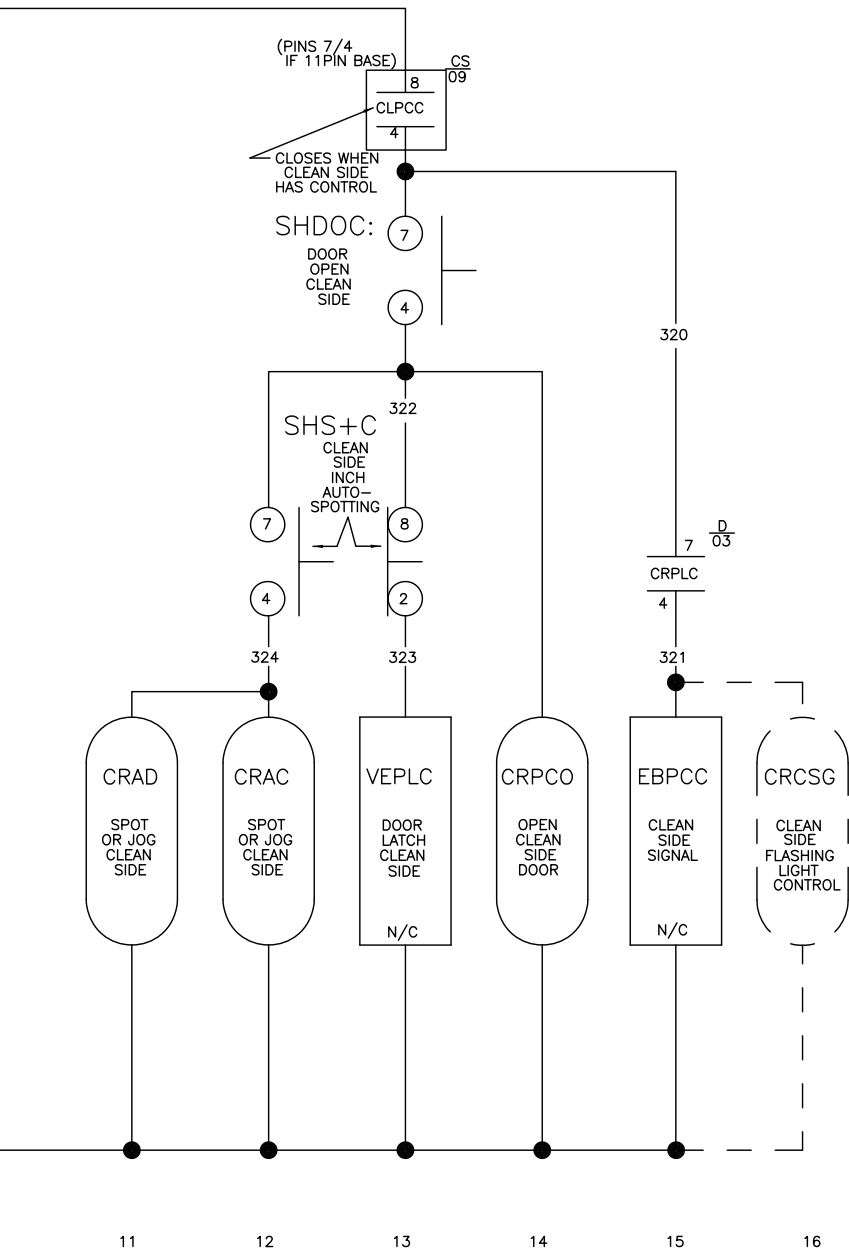
AS11

EV05	EV04
	AS09
	VP11
	D 05

D 06

FS13

W6W5SZD
2025174B

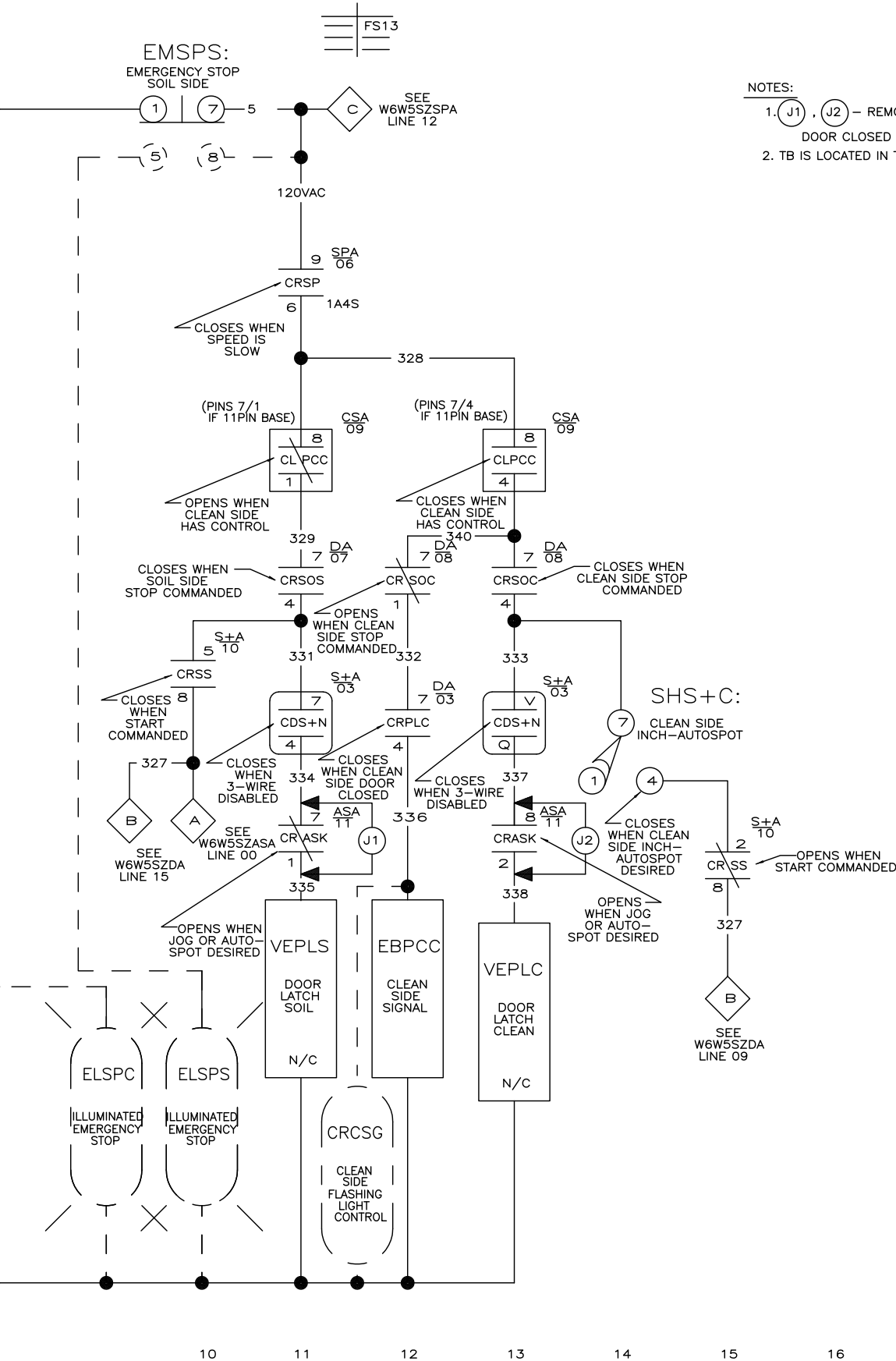


W6W5SZD

MILTOUCH-EX™ CONTROLS

SCHEMATIC: DOOR CIRCUITS

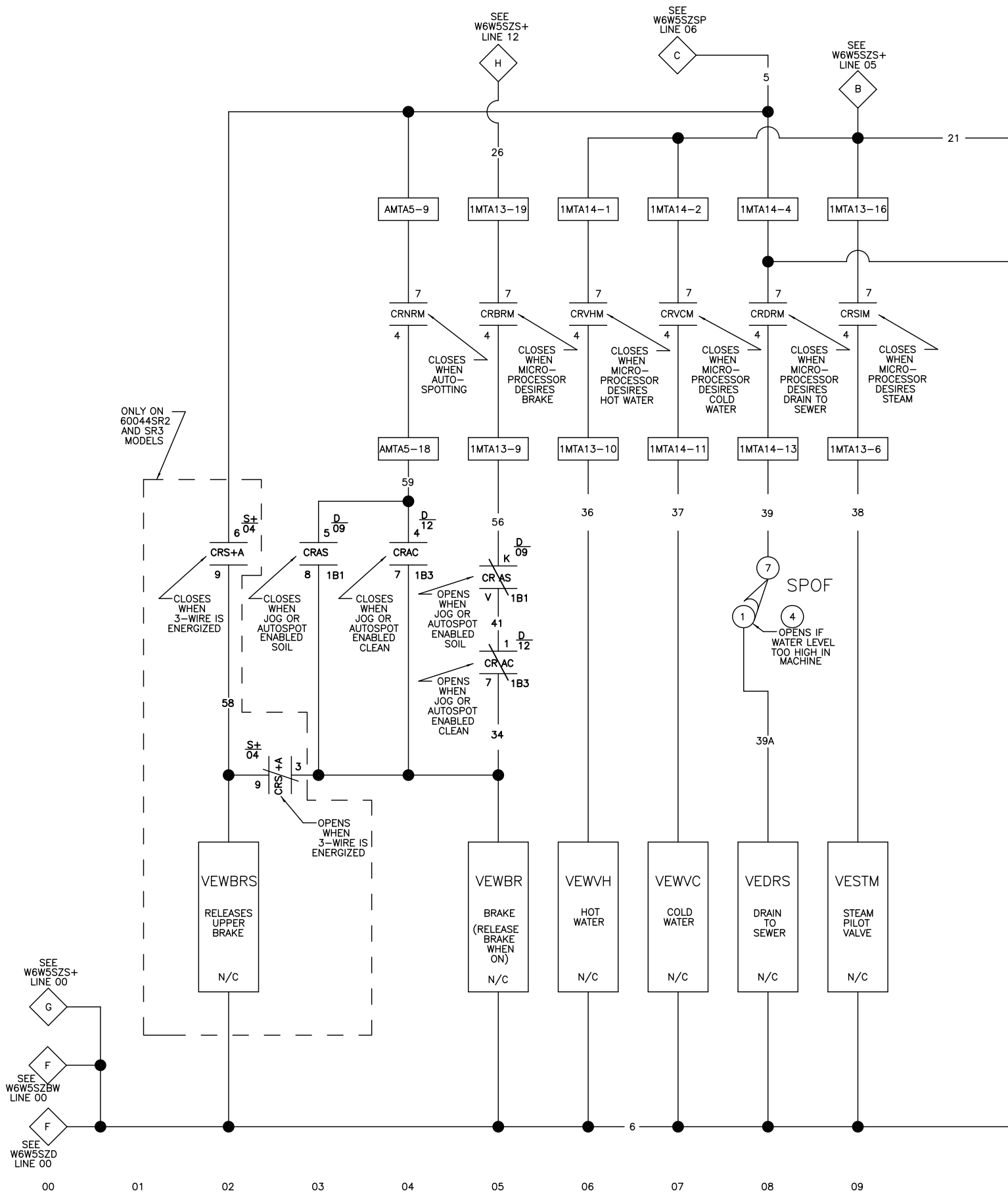
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



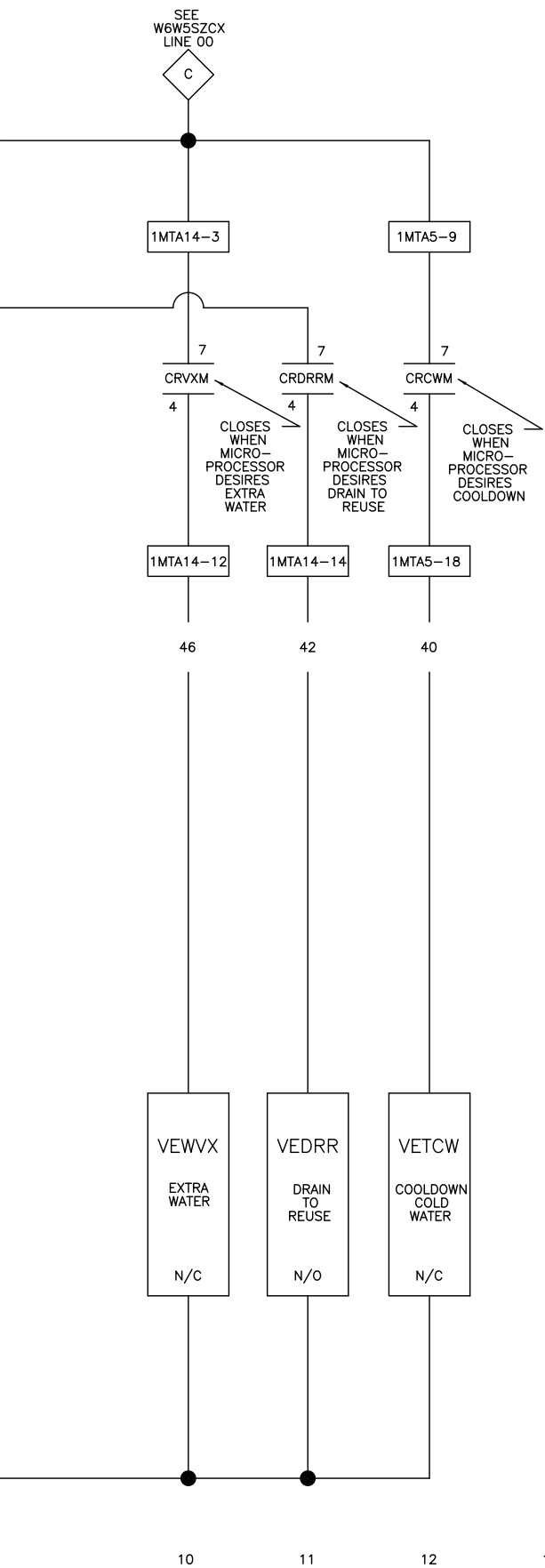
NOTES:

1. (J1), (J2) - REMOVE (J) FOR MACHINES WITH DOOR CLOSED OPTION.
2. TB IS LOCATED IN THE RIGHT CONTROL BOX.

W6W5SZDA
MILTOUCH-EX™ CONTROLS
MARK VI 72044 SP2/3 ONLY
SCHEMATIC: DOOR CIRCUITS
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



W6W5SZEV
2024145B



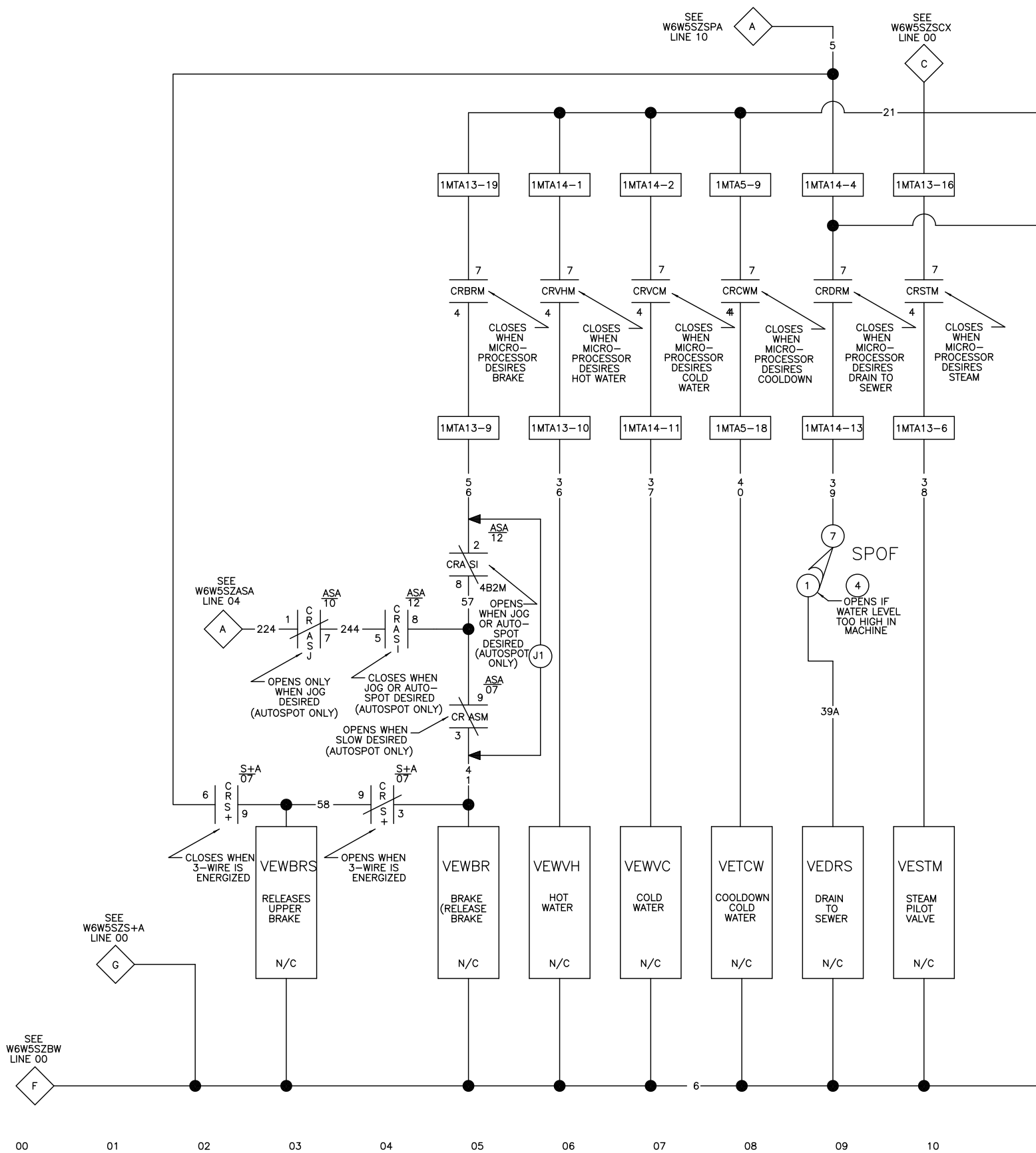
W6W5SZE

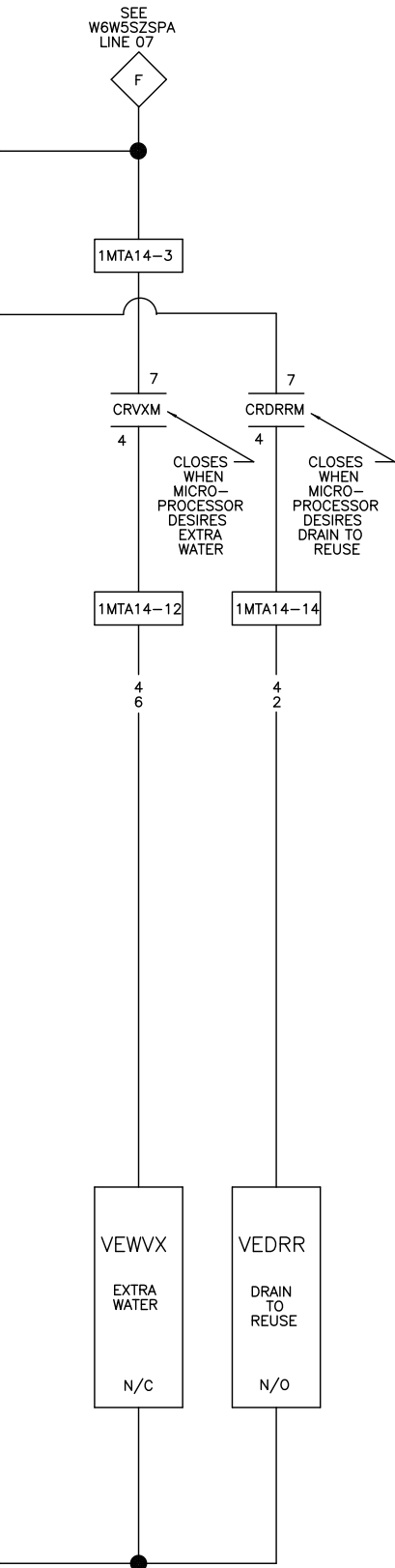
MILTOUCH-EX™ CONTROLS

SCHEMATIC: ELECTRICAL VALVES

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

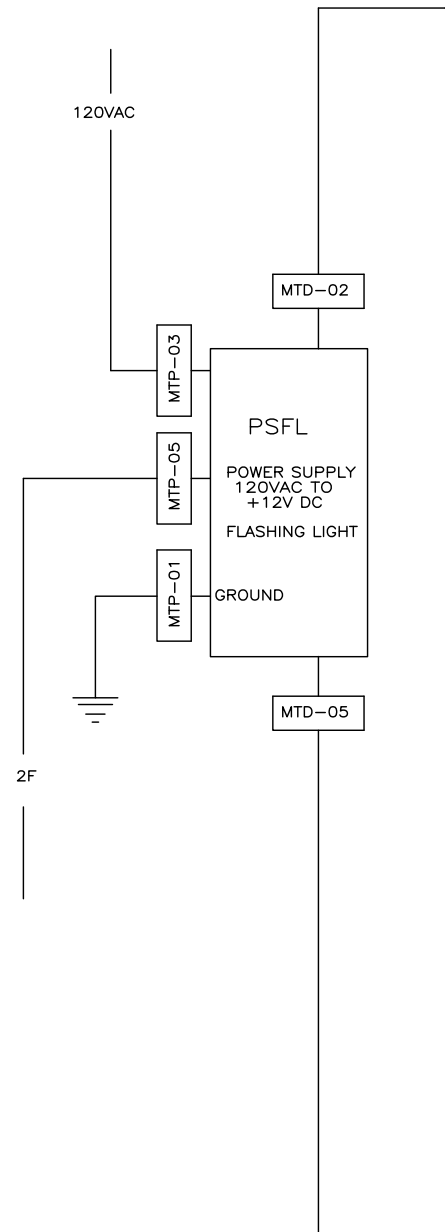


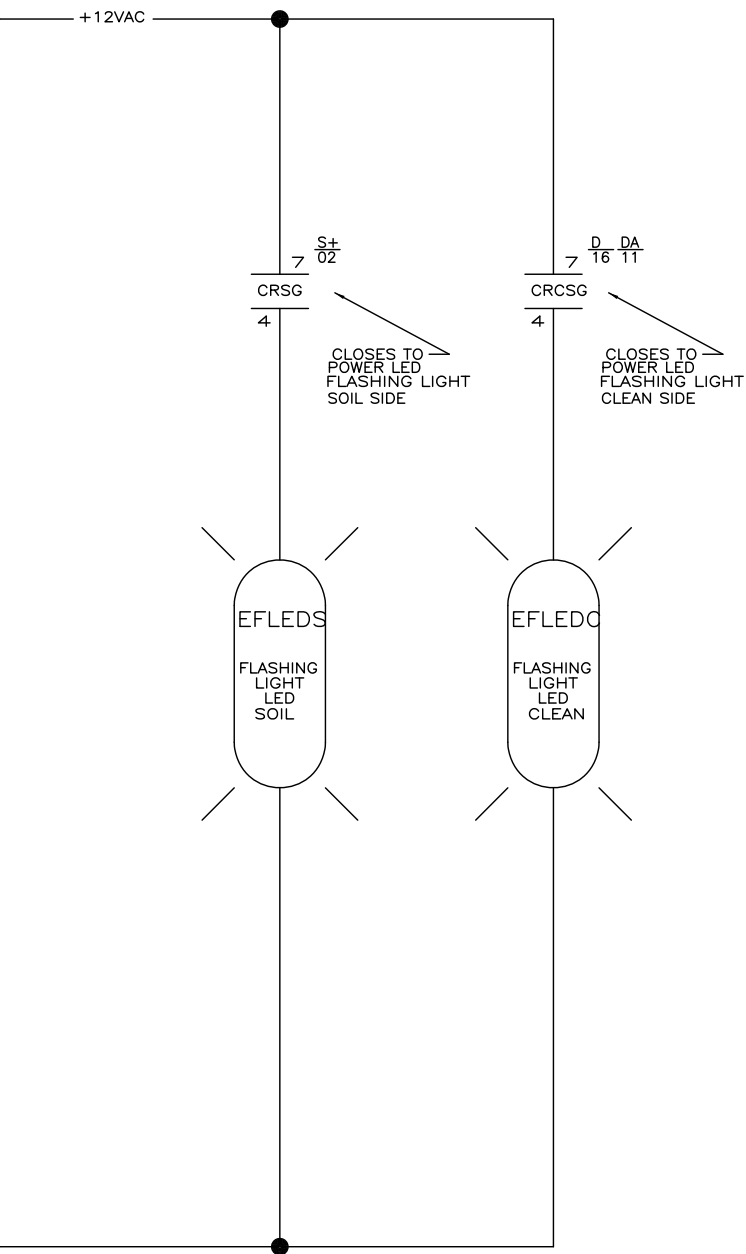


NOTES:

1. REMOVE (J1) FOR MACHINES WITH AUTOSPOT.
2. 1MTA13, 1MTA14 ARE LOCATED ON B024-1 (24 OUTPUT BOARD).

W6W5SZEVA
MILTOUCH-EX™ CONTROLS
72044 SP2/3 ONLY
SCHEMATIC: ELECTRICAL VALVES
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



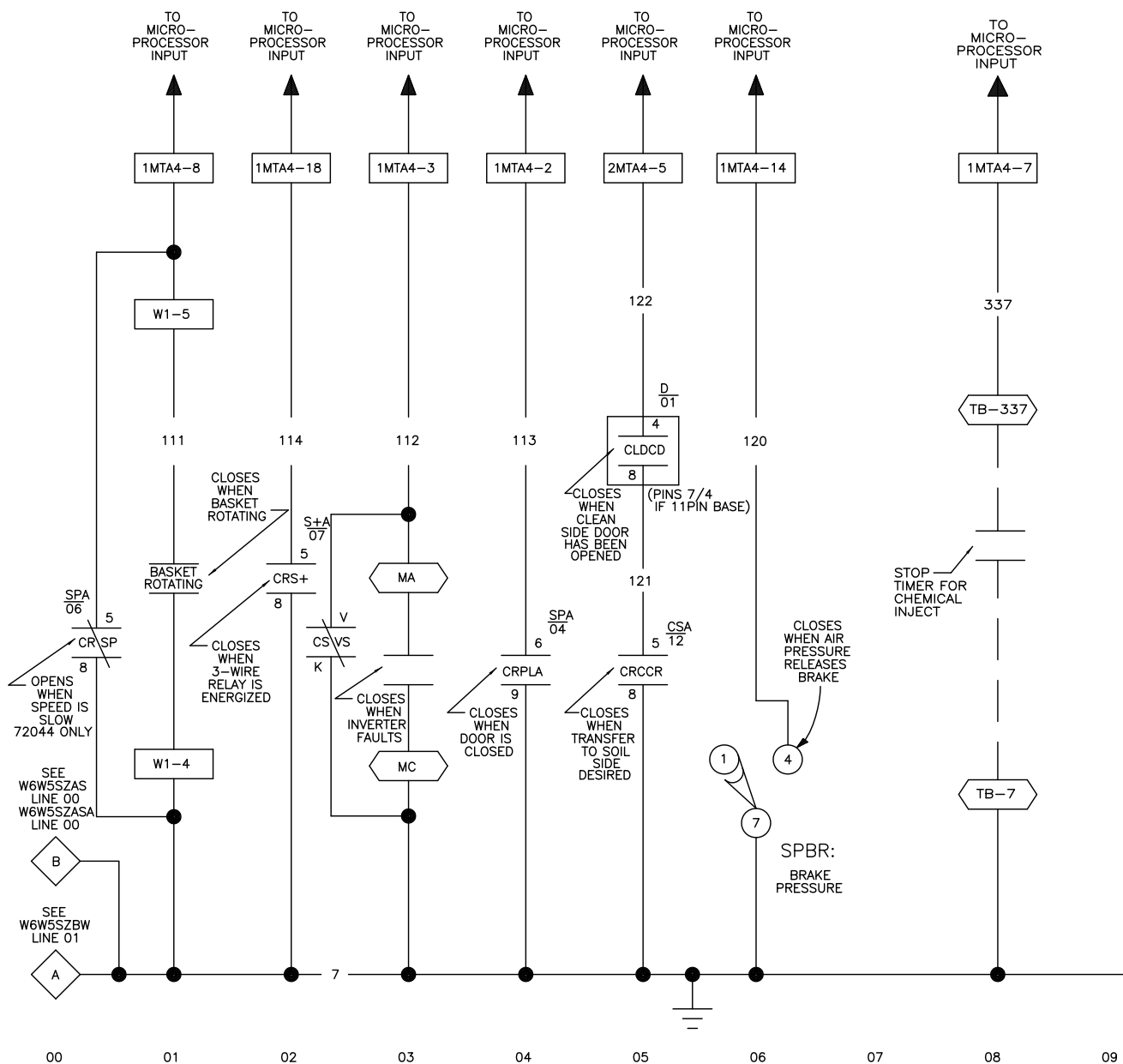


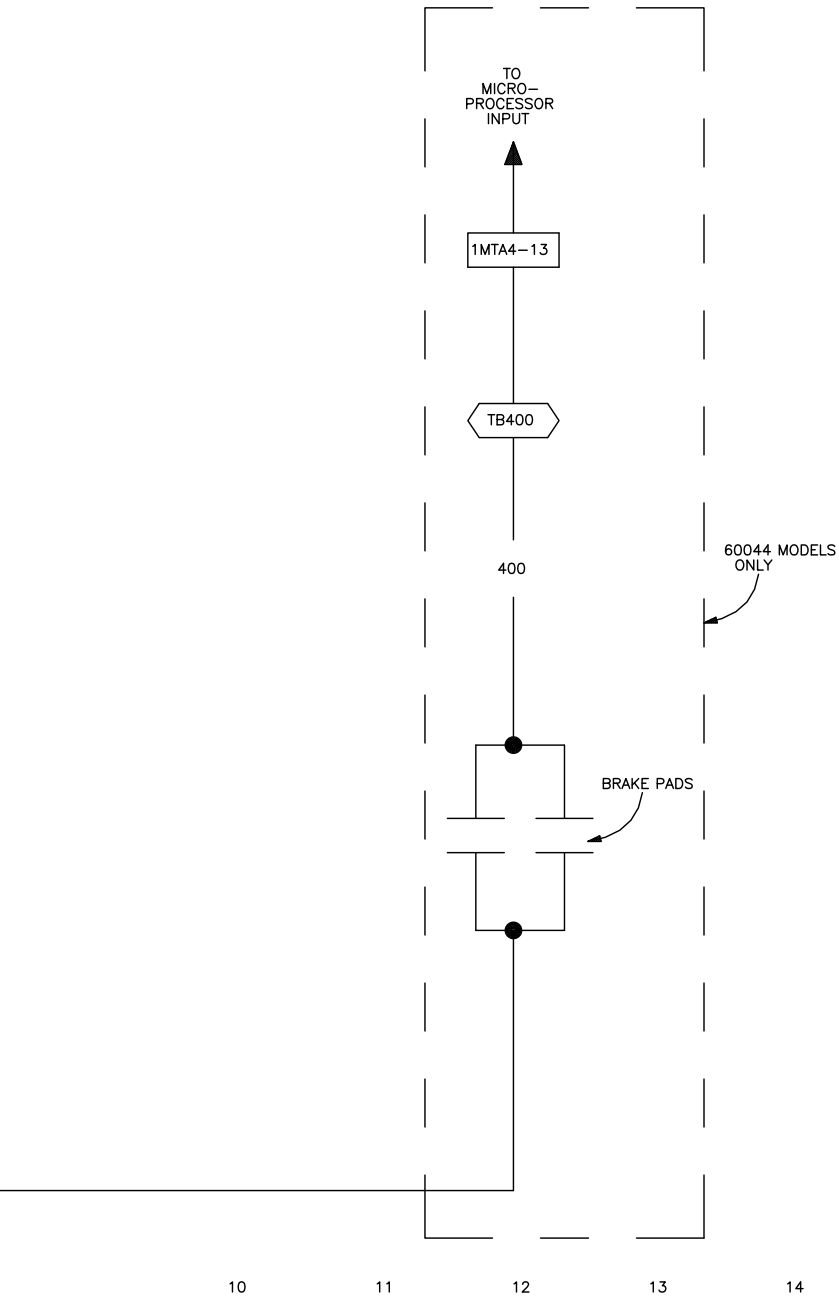
W6W5SZFS

SCHEMATIC: OPTIONAL FLASHING SIGNAL LIGHT

PELLERIN MILNOR CORPORATION

W6W5SZFS
2020214B



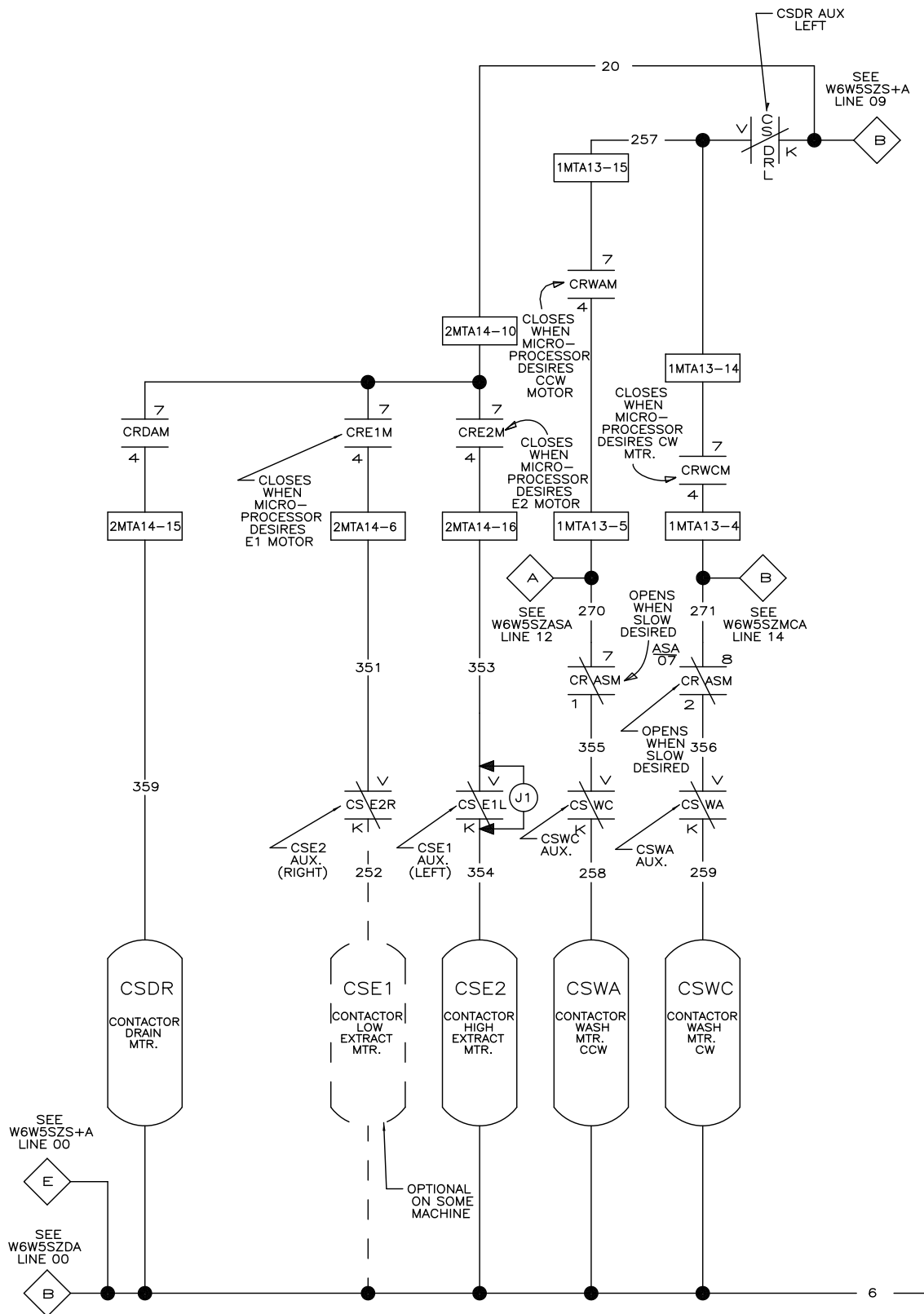


W6W5SZ11

MILTOUCH-EX™ CONTROLS

SCHEMATIC: MICROPROCESSOR INPUTS

PELLERIN MILNOR CORPORATION



W6W5SZMCA

MILTOUCH-EX™ CONTROLS
72044 SR2/3 ONLY

SCHEMATIC: DRIVE MOTOR CONTACTORS
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

W6W5SZNCA

MILTOUCH-EX™ CONTROLS

72044 SR2/3 ONLY

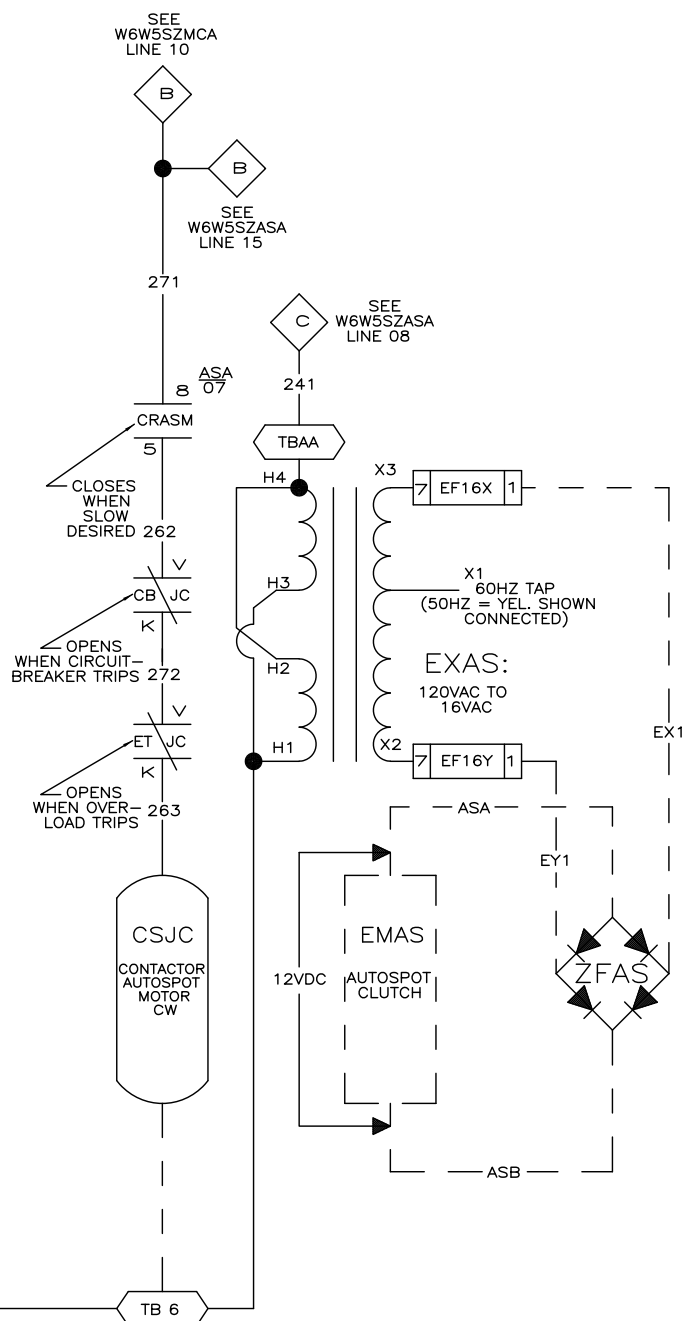
SCHEMATIC: DRIVE MOTOR CONTACTORS

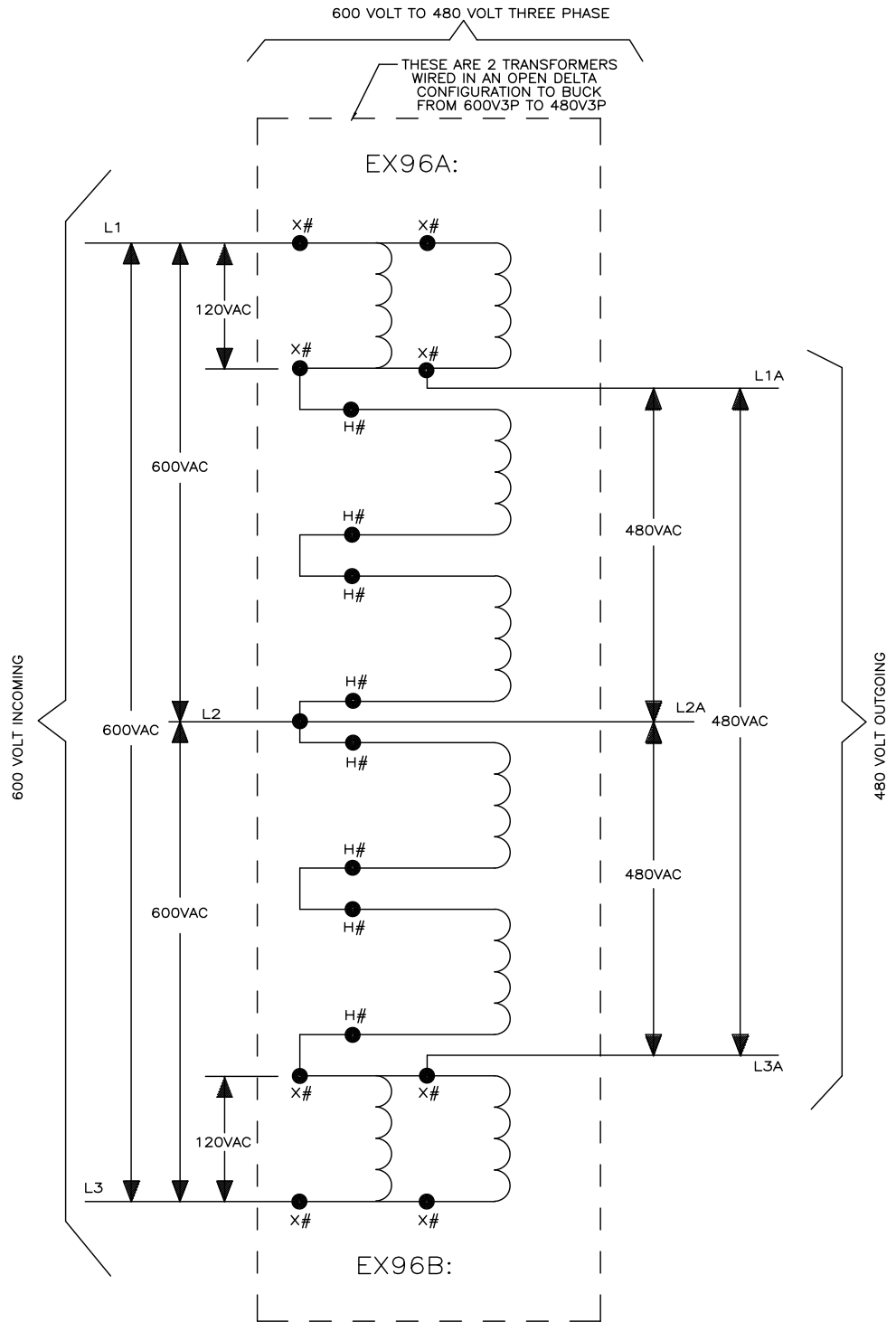
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

NOTES:

1. 1MTA13, IS LOCATED ON BO24-1(24 OUTPUT BOARD)
2. 2MTA14 IS LOCATED ON BO24-2(24 OUTPUT BOARD)
3. TBA IS LOCATED IN HIGH VOLTAGE CONTROL BOX.
4. REMOVE J1 FOR 2 SPEED EXTRACT



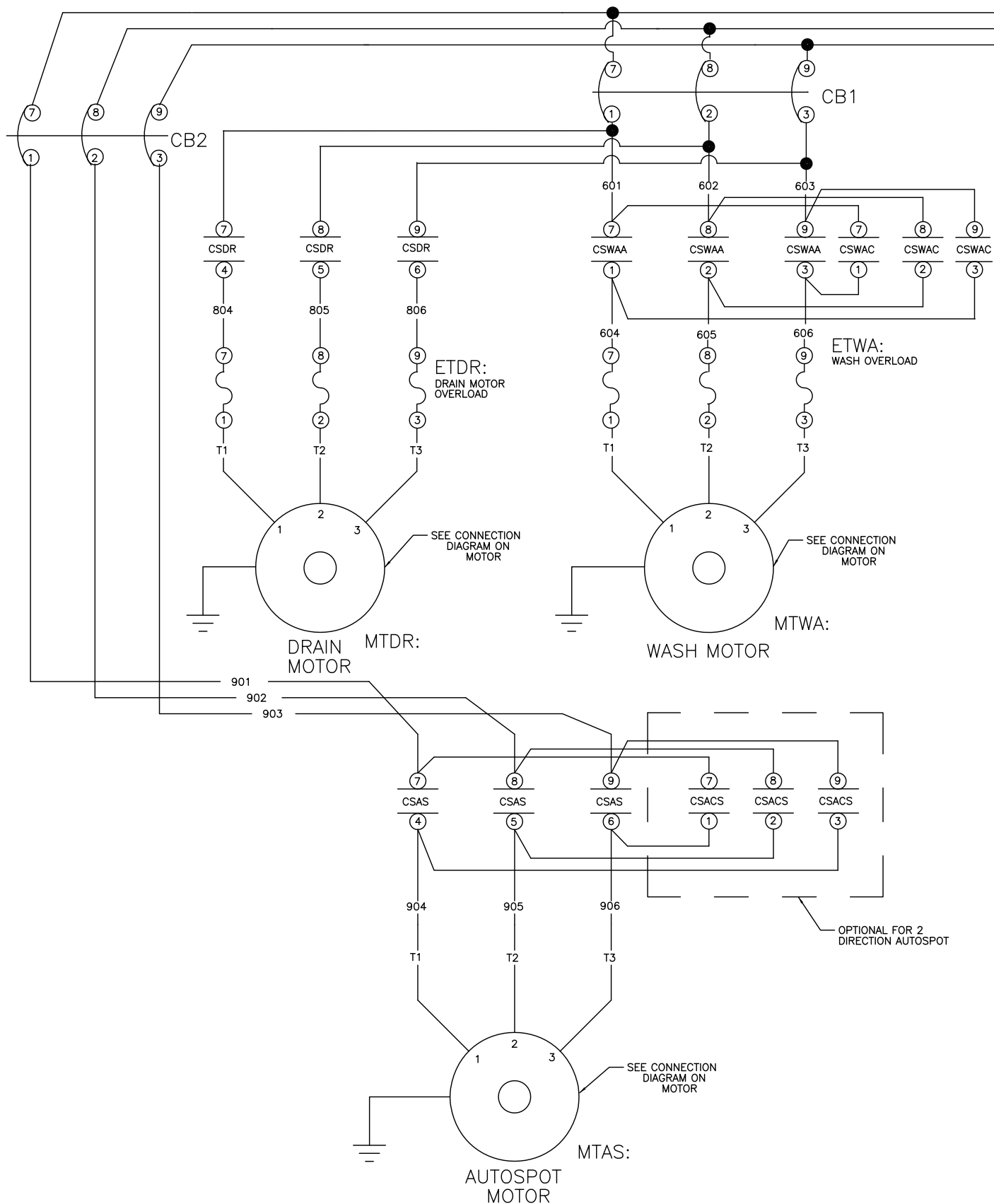


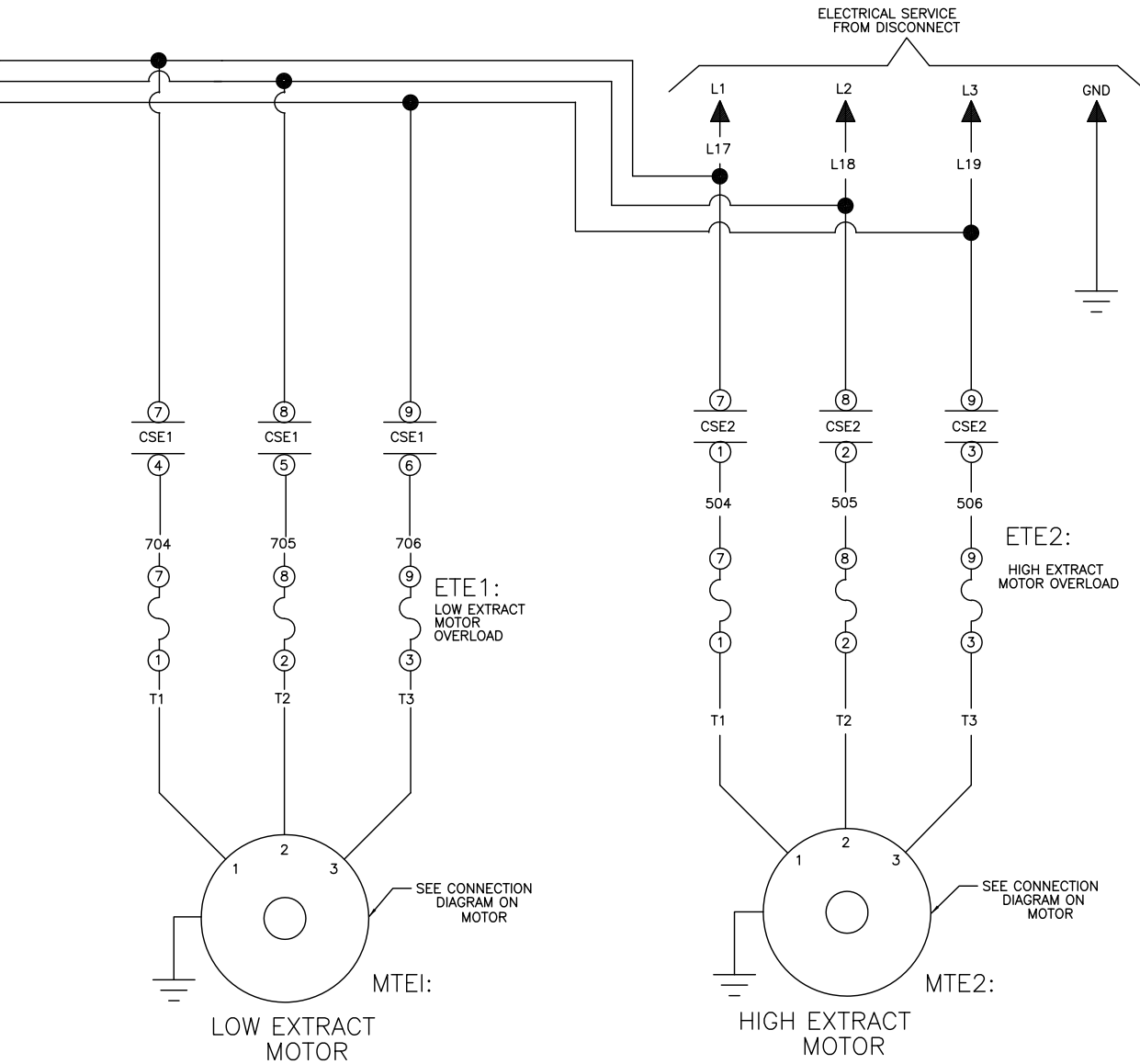
INPUT (SUPPLY SYSTEM)	DESIRED OUTPUT CONNECTION	
DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
OPEN DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
WYE 3 OR 4 WIRE	CLOSED DELTA 3 WIRE	DO NOT USE
WYE 4 WIRE	WYE 3 OR 4 WIRE	OK
WYE 3 OR 4 WIRE	OPEN DELTA 3 WIRE	OK
CLOSED DELTA 3 WIRE	OPEN DELTA 3 WIRE	OK

REFER TO TRANSFORMER WIRING DIAGRAM
FOR APPROPRIATE WIRE NUMBERS.

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

W6W5SZMT6
MILTOUCH-EX™ CONTROLS
SCHEMATIC: 600V TO 480V BUCK
PELLERIN MILNOR CORPORATION





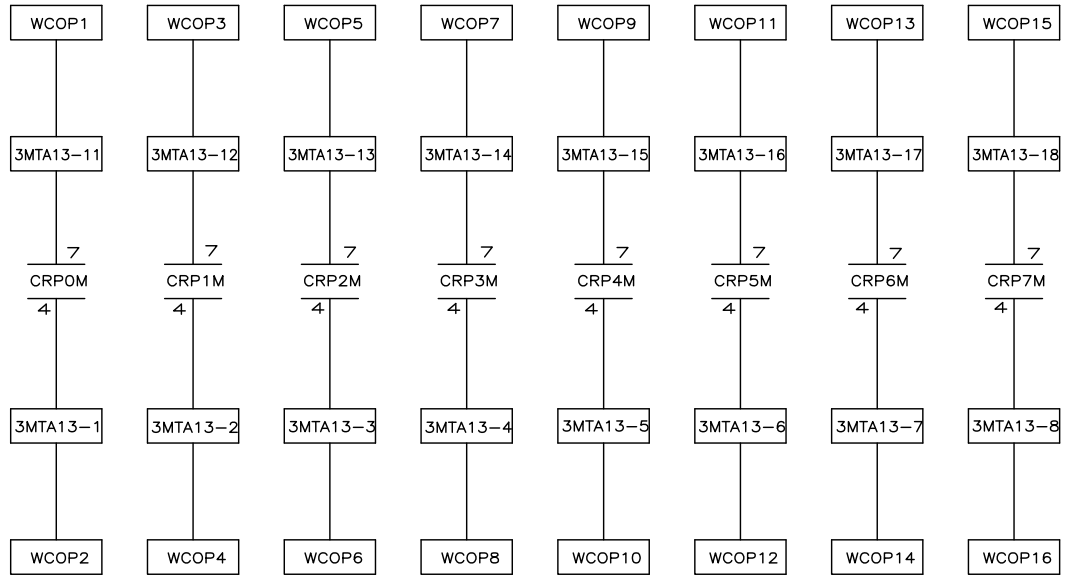
W6W5SZMTA
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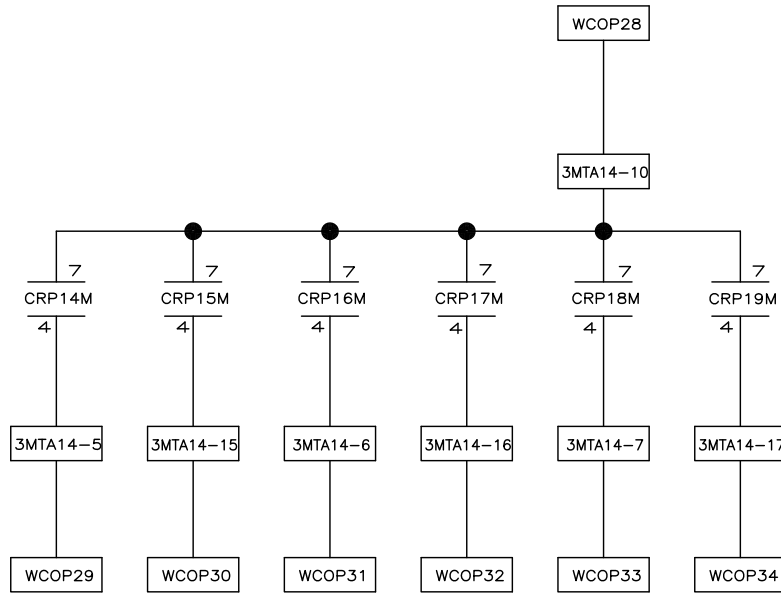
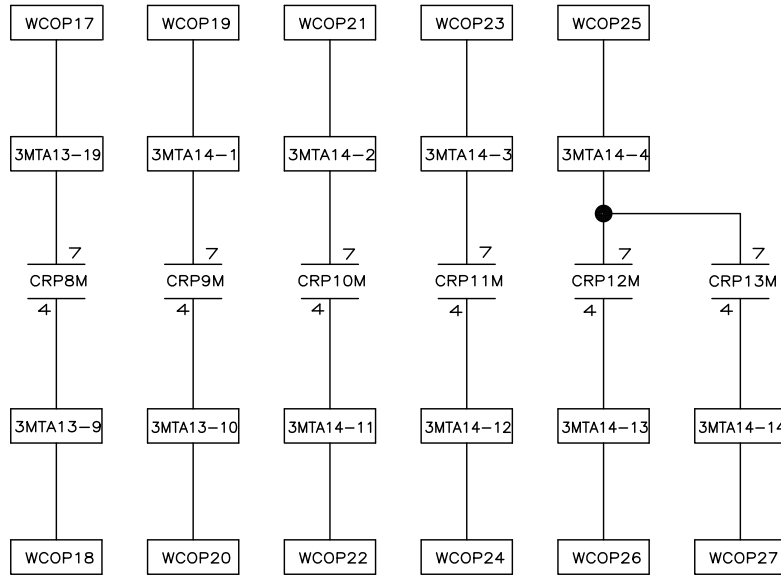
W6W5SZMTA

MILTOUCH-EX™ CONTROLS

SCHEMATIC: 72044SR2/3 MOTOR CONNECTIONS

PELLERIN MILNOR CORPORATION





09 10 11 12 13 14 15 16 17

W6W5SZOP

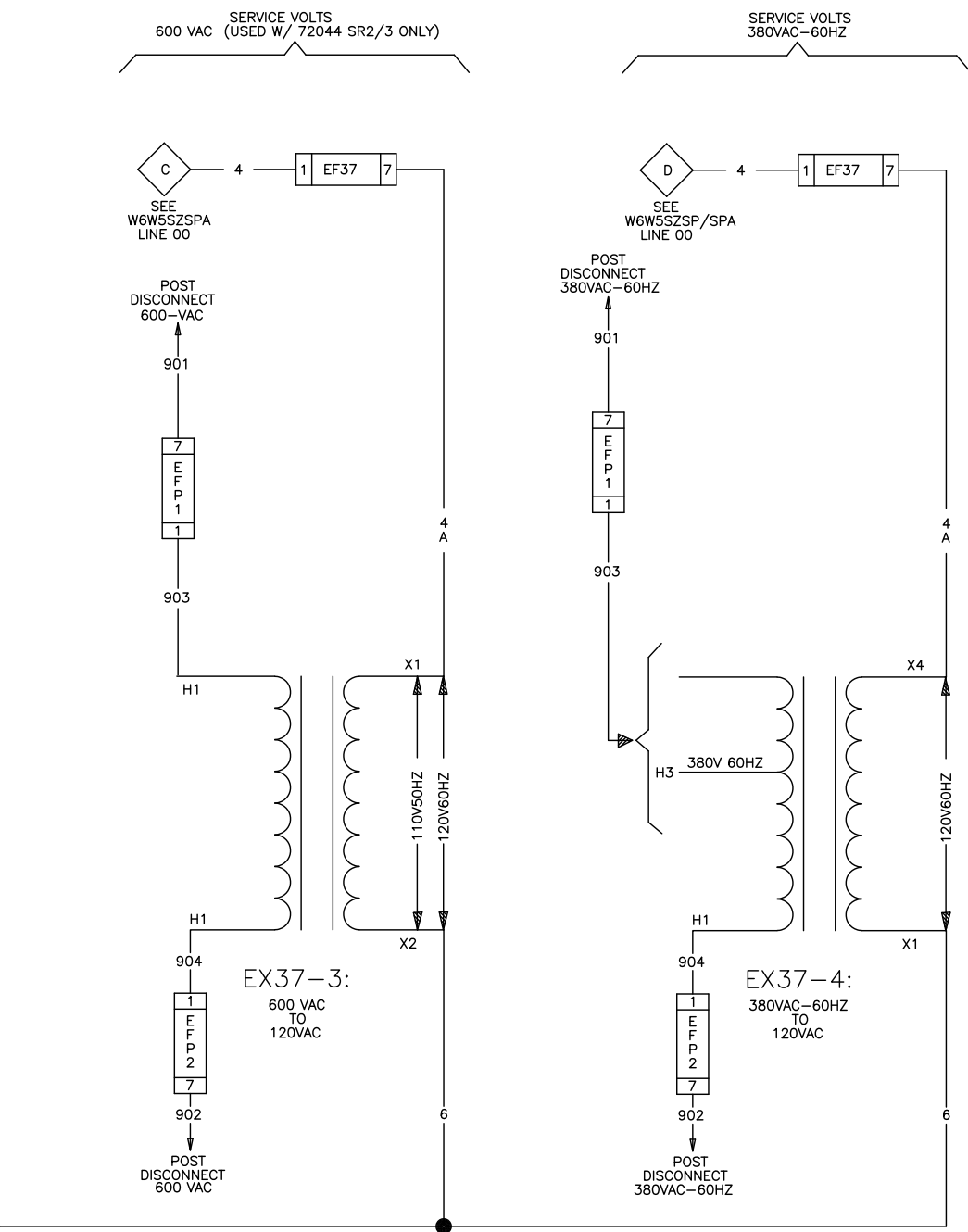
MILTOUCH-EX™ CONTROLS

SCHEMATIC: 20 OPTIONAL PROGRAMABLE OUTPUTS

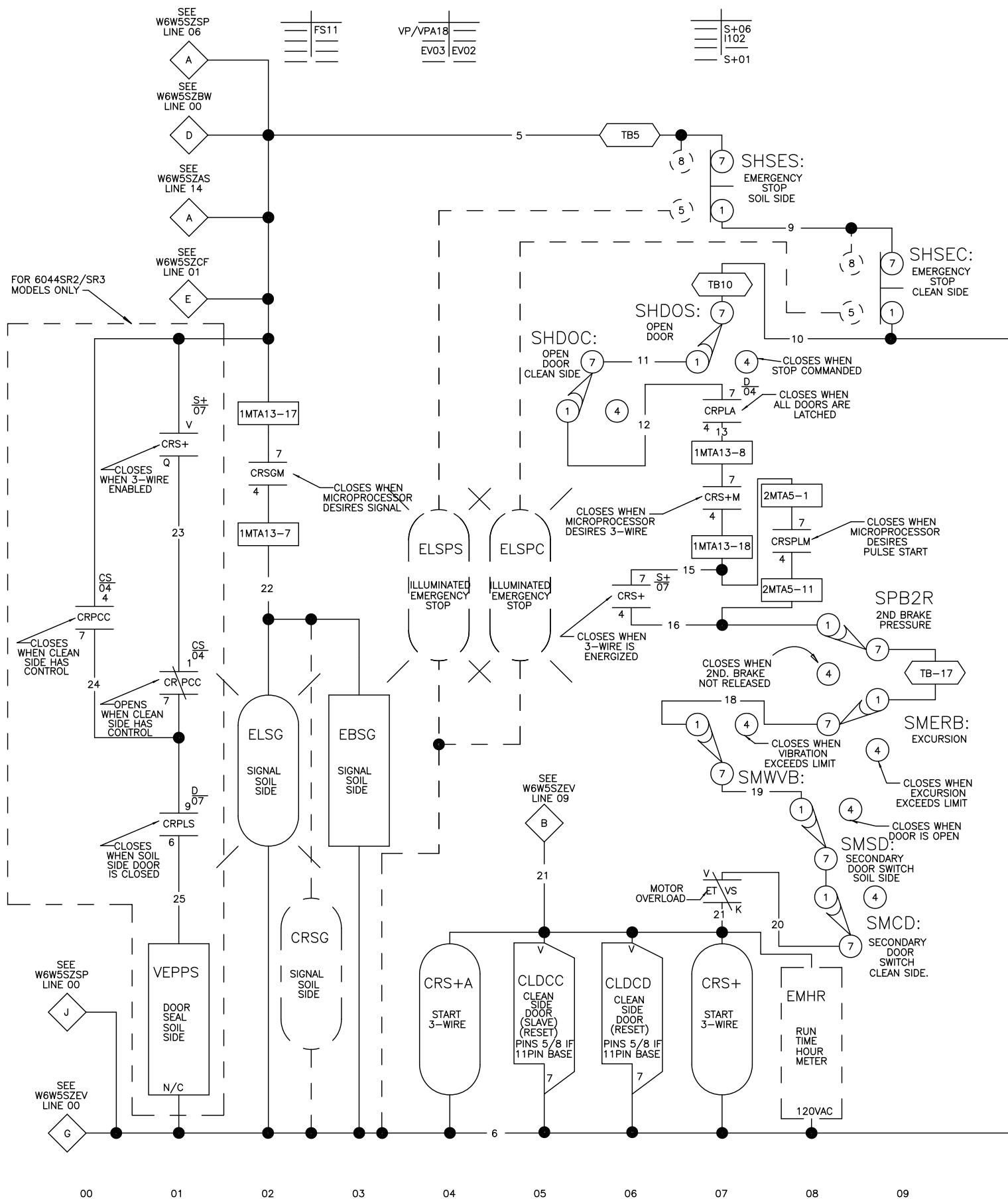
PELLERIN MILNOR CORPORATION

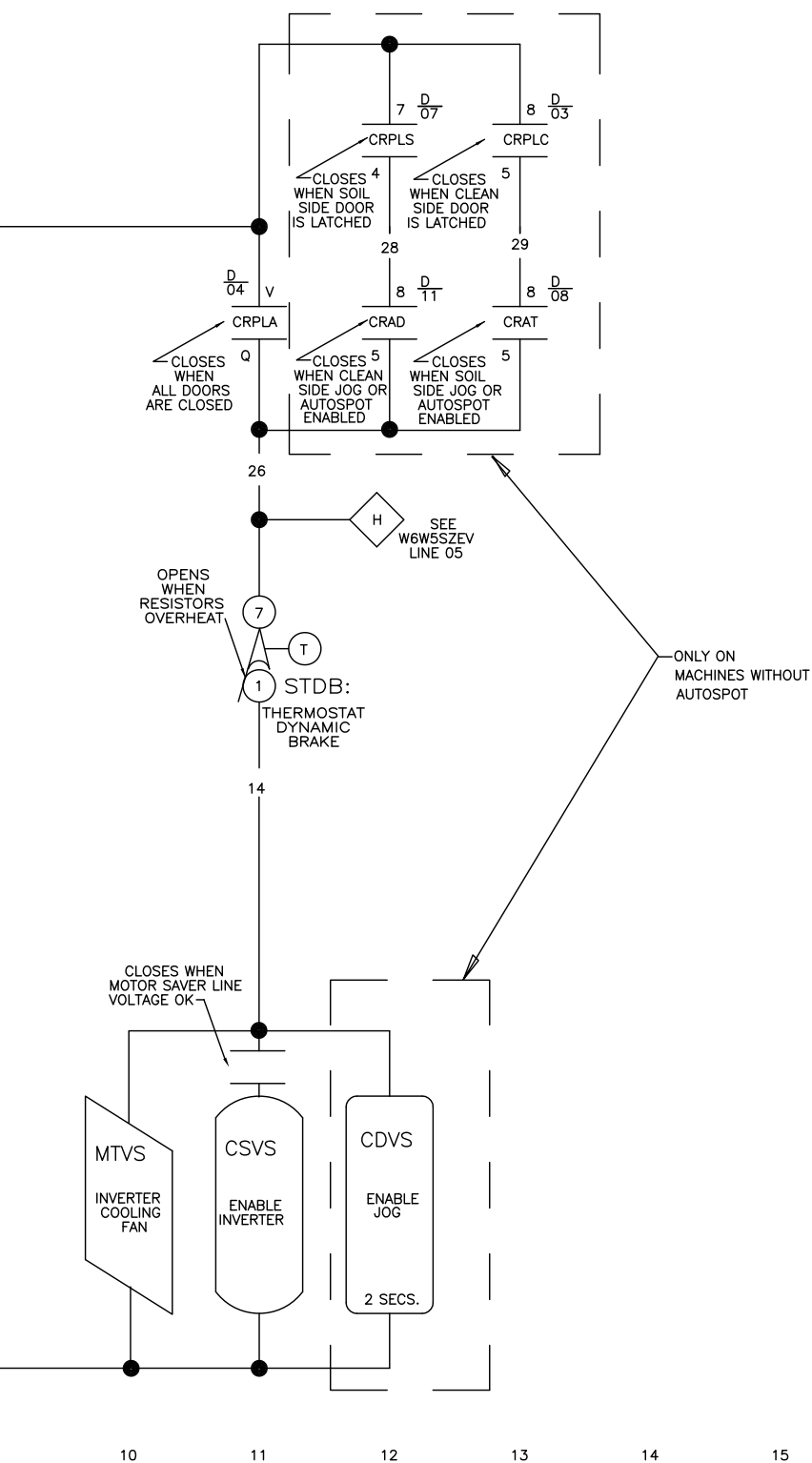


CONTROL CIRCUIT POWER



W6W5SZPS
MILTOUCH-EX™ CONTROLS
SCHEMATIC:SOURCE 110V1P50HZ/120V1P60HZ
CONTROL CIRCUIT POWER
PELLERIN MILNOR CORPORATION





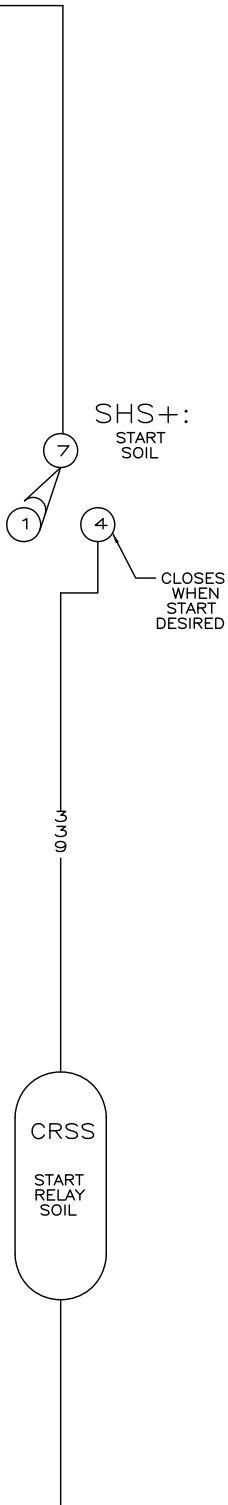
W6W5SZS+
MILTOUCH-EX™ CONTROLS
SCHEMATIC: START CIRCUIT
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



DA15
S+A04

S+A07
DA10

W6W5SZS+A
2025174B



NOTES:

1. 1MTA13 IS LOCATED ON B024-1 (24 OUTPUT BOARD).

W6W5SZS+A
MILTOUCH-EX™ CONTROLS
72044 SR2/3 ONLY
SCHEMATIC: START CIRCUIT
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

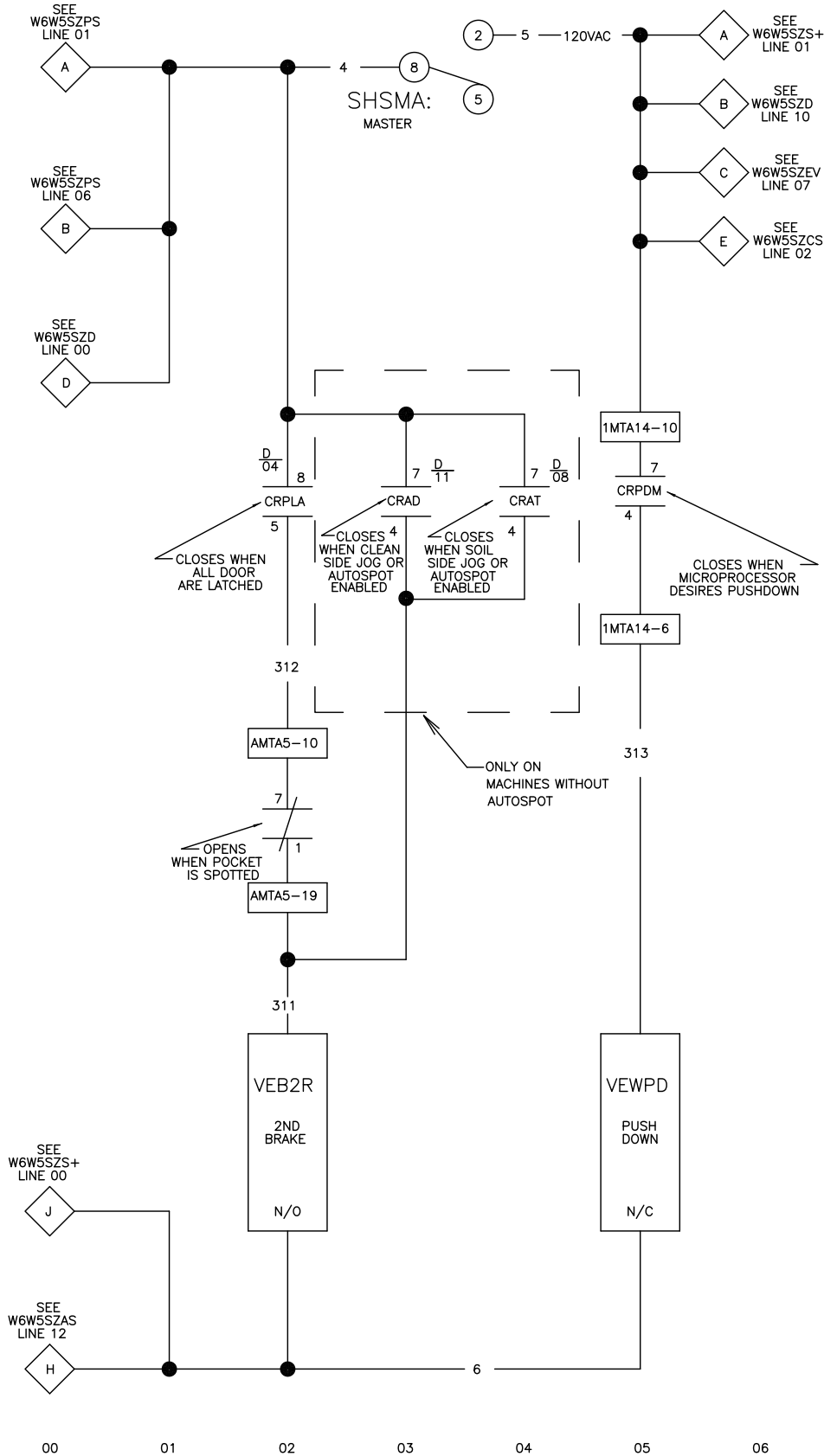
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11

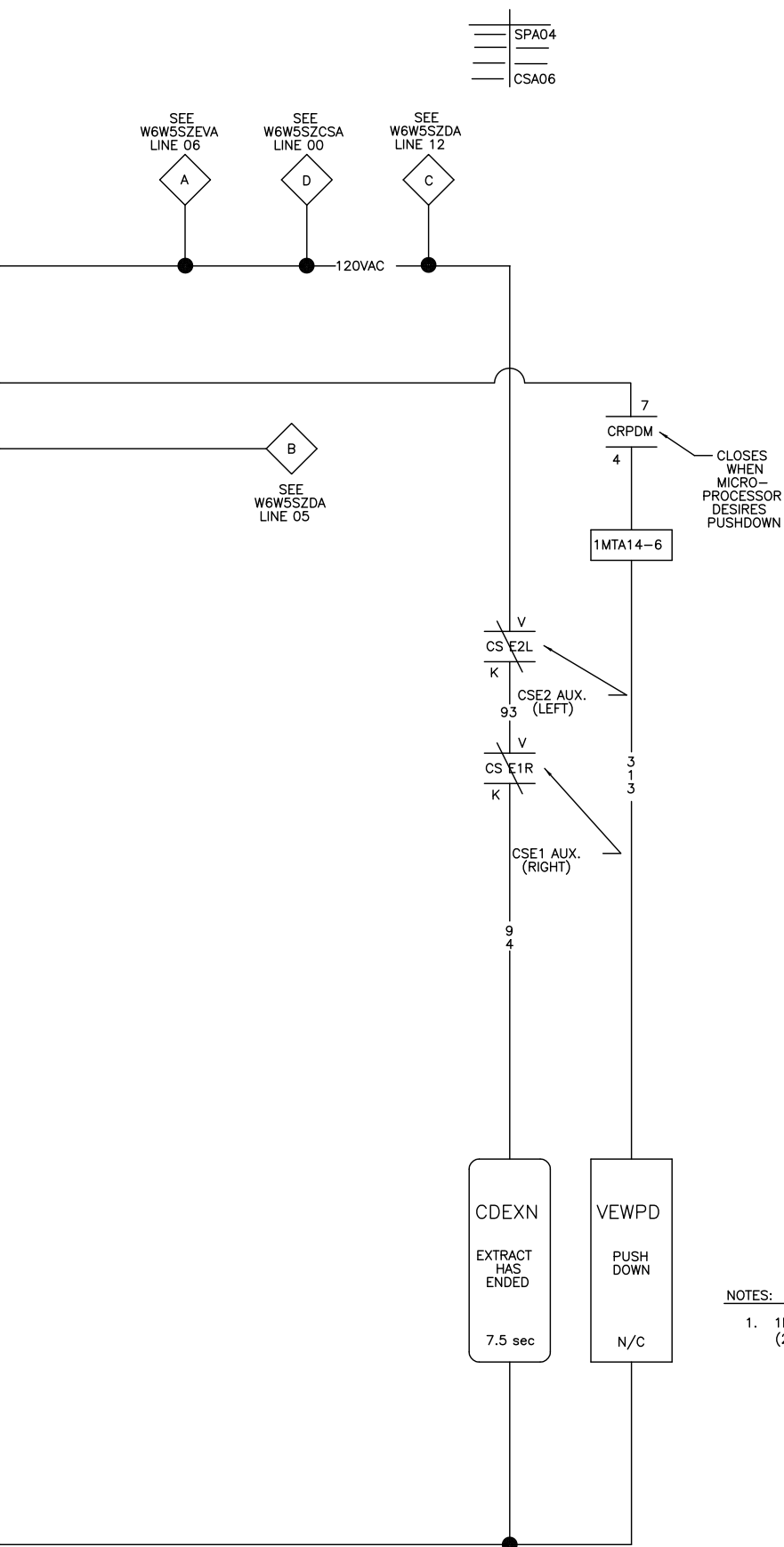
12

13

W6W5SZS+A
2025174B



W6W5SZSP
MILTOUCH-EX™ CONTROLS
SCHEMATIC: MASTER SWITCH
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



NOTES:

1. 1MTA 14 IS LOCATED ON B024-1 (24 OUTPUT BOARD).

W6W5SZSPA

MILTOUCH-EX™ CONTROLS

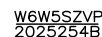
72044 SR2/3 ONLY

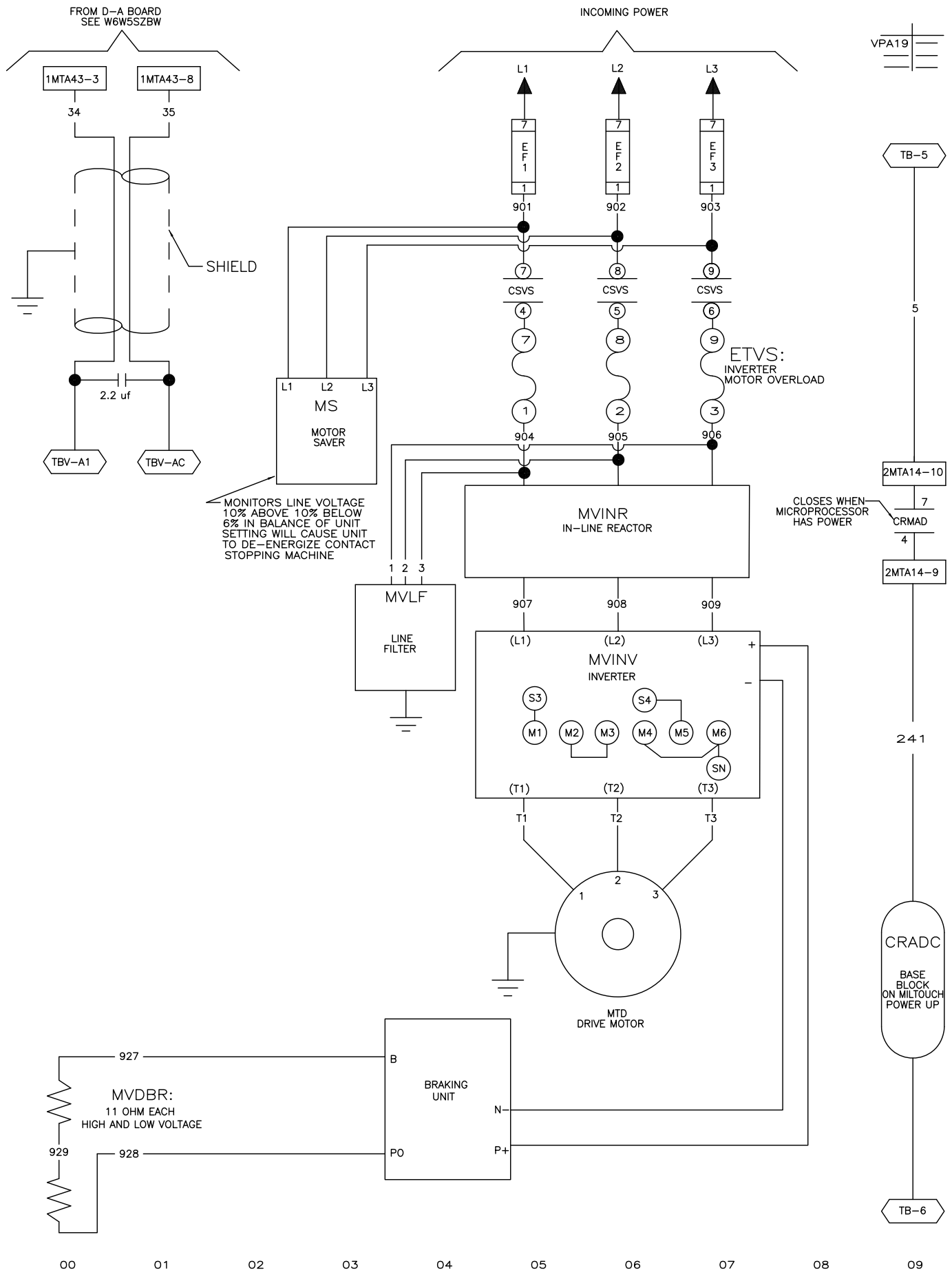
SCHEMATIC: SPEED, DOOR CIRCUITS, & MASTER SWITCH

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

W6W5SZSPA
2022475B

W6W5SZSPA
2022475B





W6W5SZVPA
2025254B

