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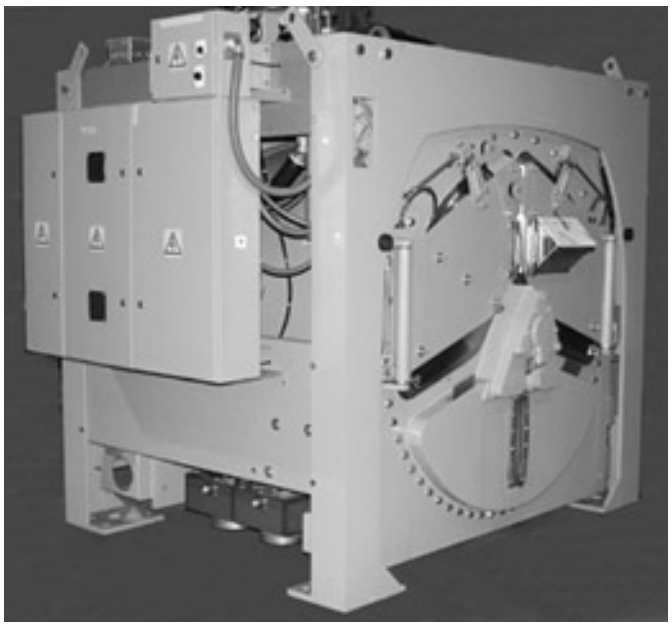
Schematic/Electrical Parts

Divided Cylinder Washer-Extractors MarkV or VI Controls



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

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

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ME6HWEDSEE/14085A

COMPONENT PARTS LIST

W6W5DSPL/2010533N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
	>>CONTROL BOX LAYOUTS				
001	DETAIL-4244 HIGH VOLTAGE CONTROL BOX	W6W5DSTG1	B2T2005013	4244 MK5 DIV-CYL HIGH VOLT BOX	SEE FUNCTION
002	DETAIL-4244 LOW VOLTAGE CONTROL BOX	W6W5DSTG1	B2T2005012	4244 MK5 DIV-CYL LOW VOLT BOX	SEE FUNCTION
003	DETAIL-DIV-CYL 1MTR CONTROL BOARDS	W6W5DSTG2	B2T2005014	4244 INPUTS/OUTPUTS	SEE FUNCTION
004	DETAIL-186 PROCESSOR CONTROL BOX	W6W5DSTG2	B2TAG98040	186 PROCESSOR BOX	SEE FUNCTION
BA	**>>PRINTED CIRCUIT BOARDS**				
BAD-1	BOARD-ANALOG TO DIGITAL CONVERTER	W6W5DSBW	08BSADCT	BD:SERIAL A-D CONVERT->TEST	LOW VOLT BOX
BARG	BOARD-12->5 V REGULATED BEFORE 10-1-05	W6W5DSDF	08BS5VRT	BOARD 5V REGULATOR->TEST	SWITCH PANEL
BBB-1	BOARD-MEMORY BATTERY BACKUP	W6W5DSBW	08BSBB1T	BOARD: SER BATT BACKUP-TEST	LOW VOLT BOX
BDA-1	BOARD-HIGH RES DIGITAL TO ANALOG CONV.	W6W5DSBW	08BSDACHT	BD:HI-RES SERIAL D-A->TEST	LOW VOLT BOX
BDFP	DISPLAY-MICROPROCESSOR-COLOR FP	W6W5SSEC	08EFD320A	DISPLAY#AV05114KIT#BT057PM	SWITCH PANEL
BFPC	BOARD-COLOR FLAT PANEL CONTROLLER	W6W5SSEC	MESSAGE EW	INCLUDED IN KIT FOR BDFP ABOVE	SWITCH PANEL
BFPI	BOARD-FLAT PNL INTERFACE AFTER 10-1-05	W6W5DSDF	08BSAT3AT	BOARD-FLAT PNL INTERFACE ->TEST	SWITCH PANEL
BFPI	BOARD-FLAT PNL INTERFACE BEFORE 10-1-05	W6W5SSEC	MESSAGE EW	INCLUDED IN KIT FOR BDFP ABOVE	SWITCH PANEL
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6W5DSBW	08BS816CT	BOARD:8OUT-16INPUT-AUTOSPOT	LOW VOLT BOX
BIO-A	BOARD-8OUTPUT/16INPUT #A (AUTOSPOT)	W6W5DSBW	08BS816CTA	BOARD-8OUT-16INPUT-AUTOSPOT	LOW VOLT BOX
BLB	BOARD-LEVEL RECEIVER/TRANSDUCER	W6W5DSBW	08BNLTT	LEVEL TRANSDUCER BD->TEST	LOW VOLT BOX
BO24-1	BOARD-24 OUTPUT #1	W6W5DSBW	08BSO24AT	BD:SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO24-2	BOARD-24 OUTPUT #2	W6W5DSBW	08BSO24AT	BD:SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BO24-3	BOARD-24 OUTPUT #3	W6W5DSBW	08BSO24AT	BD:SERIAL 24 OUTPUT->TEST	LOW VOLT BOX
BPB	BOARD-MICROPROCESSOR	W6W5DSBW	08BSPE2T	SERIAL 186 PROC BD+FP->TEST	PROCESSOR BOX
BSP	BOARD-SPEED SENSING	W6W5DSVP	08BNDSRBT	BD:SAFETY ROTATION SG 1MR-TEST	LOW VOLT BOX
CD	**>>RELAY-TIME DELAY**				
CDS+N	DELAY-3-WIRE DISABLE	W6W5DSSP	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
CRASS	RELAY-AUTOSPOT STOP	W6W5DSS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRC01	RELAY-CHEM INTERPERT #1	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC02	RELAY-CHEM INTERPERT #2	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC03	RELAY-CHEM INTERPERT #3	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC04	RELAY-CHEM INTERPERT #4	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC05	RELAY-CHEM INTERPERT #5	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC06	RELAY-CHEM INTERPERT #6	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
CRC07	RELAY-CHEM INTERPERT #7	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC08	RELAY-CHEM INTERPERT #8	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC09	RELAY-CHEM INTERPERT #9	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC10	RELAY-CHEM INTERPERT #10	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC11	RELAY-CHEM INTERPERT #11	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC12	RELAY-CHEM INTERPERT #12	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC13	RELAY-CHEM INTERPERT #13	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC14	RELAY-CHEM INTERPERT #14	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRC15	RELAY-CHEM INTERPERT #15	W6W5DSCP	09C024D37	4PDT "KH" 110/120V	INT RELAY BX
CRDL	RELAY-OPEN DOOR	W6W5DSS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRPLA	RELAY-DOOR LATCH	W6W5DSSP	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CRS+	RELAY-START 3-WIRE	W6W5DSS+	09C024D37	4PDT "KH" 110/120V	LOW VOLT BOX
CS	**>>CONTACTOR-MOTOR STARTER**				
CSVS	CONTACTOR-VARIABLE SPEED	W6W5DSS+	MESSAGE EW	SEE CSVS-1 OR -2 FOR PART NUMBER	
CSVS	CONTACTOR-VARIABLE SPEED 4244	W6W5SS+	09M08G337	37A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
CSVS	CONTACTOR-VARIABLE SPEED 6044	W6W5SS+	09M08N337	72A 3P MCS CONT NR 120V5/6	HIGH VOLT BX
EB	**>>BUZZER OR AUDIBLE SIGNAL**				
EBSG	BUZZER-SIGNAL AUDIBLE	W6W5DSS+	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	SWITCH PANEL
EL	**>>LIGHT-PILOT OR INDICATOR**				
ELPS	LIGHT-POCKET SPOTTED	W6W5DSAS	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CYL SPOTTED PLT
ELPS	LIGHT-POCKET SPOTTED	W6W5DSASB	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CYL SPOTTED PLT
ELSG	LIGHT -SIGNAL	W6W5DSS+	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
ES	**>>POWER SUPPLY-ELECTRONIC**				
ESPS	POWER SUPPLY-120V TO +12,-12,+5V	W6W5DSBW	08PSS3401T	40 WATT POWER SUPPLY TESTED	LOW VOLT BOX
EX	**>>TRANSFORMERS**				
EX37	TRANSFORMER-INCOMING VOLT.120VAC	W6W5DSPS	MESSAGE EW	SEE EX37-1, OR -2 FOR VOLTAGE	
EX37-1	TRANSFORMER-208/240>120VAC	W6W5SSPS	09UA025A37	XFMR 200-240PRI/120SEC 250V5/6	HIGH VOLT BX
EX37-2	TRANSFORMER-380/480>120VAC	W6W5SSPS	09UA025AAB	XFMR 380-480PRI/120-240SEC250V	HIGH VOLT BX
EX96A	TRANSFORMER-600V-480V 52-72"DIA	W6W5DSMT6	09US050A96	XFMR 1PH 5KVA 240/280 X 120/240	SIDE OF MACHINE
EX96B	TRANSFORMER-600V-480V 52-72"DIA	W6W5DSMT6	09US050A96	XFMR 1PH 5KVA 240/280 X 120/240	SIDE OF MACHINE
MS	MOTOR SAVER	W6W5DSVP	09X370	VOLT.MONT-MTR SAVER 190-480VAC	HIGH VOLT BOX
MS	MOTOR SAVER	W6W5DSVPA	09X370	VOLT.MONT-MTR SAVER 190-480VAC	HIGH VOLT BOX

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MT	**>>MOTORS**				
MTD	MOTOR-DRIVE	W6W5DSVP	MESSAGE EW	SEE MTD-1 OR -2	
MTD-1	MOTOR-DRIVE 4244WP2	W6W5DSVP	39G852AATD	25HP6P220/380/440 50HZ ODP INV	TOP OF MACHINE
MTD-2	MOTOR-DRIVE 6044WP2 240V	W6W5DSVP	39G8A0AAT	50HP 6P 230/460/60	TOP OF MACHINE
MV	**>>MOTOR POWER INVERTERS**				
MVDBR	RESISTOR-DYNAMIC BRAKE	W6W5DSVP	MESSAGE EW	SEE MVDBR-1 OR -2	
MVDBR-1	RESISTOR-DYNAMIC BRAKE 4244WP2	W6W5DSVP	09MV020RES	RESISTOR 20 OHM 300WATT	HIGH VOLT BOX
MVDBR-2	RESISTOR-DYNAMIC BRAKE 6044WP2	W6W5DSVP	09MV011RET	RESISTOR 11 OHM 1000 WATT	HIGH VOLT BOX
MVINV	INVERTER-SINGLE MOTOR DRIVE	W6W5DSVP	MESSAGE SO	SEE MVINV-1 OR -2	
MVINV-1	INVERTER-4244WP2 HIGH VOLTAGE	W6W5DSVP	09MWA03996	INVERTER 39AMPS 480V F7	HIGH VOLT BOX
MVINV-2	INVERTER- 6044WP2 LOW VOLTAGE	W6W5DSVP	09MWA14574	F7 INVERTER 145 AMPS	HIGH VOLT BOX
MVLF	FILTER-INVERTER LINE	W6W5DSVP	09MVFILTR1	RFI NOISE INPUT FILTER	INVERTER BOX
MVRCT	REACTOR-INVERTER	W6W5DSVP	09MX300A96	REACTOR 30HP 460V 45A	HIGH VOLT BOX
PX	**>>PROXINITY SWITCH**				
PX1	PROX SW-POCKET 1 SPOTTED	W6W5DSAS	09RPS07RDS	7MM SENSING RECTANGULAR SHLD	LOW VOLT BOX
PX1	PROX SW-POCKET 1 SPOTTED	W6W5DSASB	09RPS07RDS	7MM SENSING RECTANGULAR SHLD	LOW VOLT BOX
PX2	PROX SW-POCKET 1 & 2 SPOTTED	W6W5DSAS	09RPS07RDS	7MM SENSING RECTANGULAR SHLD	LOW VOLT BOX
PX2	PROX SW-POCKET 1 & 2 SPOTTED	W6W5DSASB	09RPS07RDS	7MM SENSING RECTANGULAR SHLD	LOW VOLT BOX
PX4	PROX SW-PCKT 2 SPTD,(PKT 3 SPTD FOR WP3	W6W5DSAS	09RPS07RDS	7MM SENSING RECTANGULAR SHLD	LOW VOLT BOX
PX4	PROX SW-PCKT 2 SPTD,(PKT 3 SPTD FOR WP3	W6W5DSASB	09RPS07RDS	7MM SENSING RECTANGULAR SHLD	LOW VOLT BOX
PXSP	PROX SWITCH-SPEED	W6W5DSVP	09RPS07RDS	7MM SENSING RECTANGULAR SHLD	MACHINE REAR
SH	**>>SWITCH-HAND OPERATED**				
SHAS	SWITCH-AUTOSPOT POCKET SELECT	W6W5DSVP	09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	SWITCH PANEL
SHDO	SWITCH-DOOR OPEN	W6W5DSS+	09N405PB11	SWASS PBBK1NO/1NC	SWITCH PANEL
SHMD	SWITCH-MILDATA LOCAL/REMOTE	W6W5DSI1	09N405M210	SWASS M2W 1NO	PROCESSOR BOX
SHS+	SWITCH-START 3-WIRE	W6W5DSS+	09N405PG10	SWASS PBGN 1NO	SWITCH PANEL
SHSG	SWITCH-SIGNAL CANCEL	W6W5DSI1	09N405PY10	SWASS PB YELLOW 1NO	SWITCH PANEL
SHSMA	SWITCH-MASTER	W6W5DSSP	09N405M210	SWASS M2W 1NO	SWITCH PANEL
SHSOE	SWITCH-EMERGENCY STOP	W6W5DSS+	09N505	SW ASSY EMER STOP	SWITCH PANEL
SHSOM	SWITCH-STOP	W6W5DSS+	09N405PR01	SWASS PBRD 1NC	SWITCH PANEL
SHWCF	SWITCH-CHEM #1 FLUSH	W6W5DSCF	09N405S320	SWASS S3W 2NO	5 COMP. SUPPLY
SK	**>>SWITCH-KEYLOCK**				
SKPR	SWITCH-RUN/PROGRAM (KEY OP)	W6W5DSI1	09N127C	KEYSW SPST 7A120VAC SCREW TERM	SWITCH PANEL

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SM	**>>SWITCH-MECHANICAL OPERATED**				
SMD2	SWITCH-SECONDARY DOOR -CLEAN SIDE	W6W5DSS+	09RM01212S	CAPSW 12FT 180DEG ROLLER SILVER	DOOR
SMERB	SWITCH-EXCURSION	W6W5DSS+	09R008A	MICSW SPDT PAINTED BZE6-RN 01	SIDE OF MACHINE
SMPL1	SWITCH-1ST DOOR LATCHED LEFT	W6W5DSSP	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR ASSEMBY
SMPL2	SWITCH-2ND DOOR LATCHED RIGHT	W6W5DSSP	09R012	MICSW SPDT PAINTED BZE6-RN 01	DOOR ASSEMBY
SMWVB	SWITCH-MACHINE VIBRATION	W6W5DSS+	09R020	SWITCH NC VIBR #WZ-2RW84429-P52	LOW VOLT BOX
SP	**>>SWITCH-PRESSURE OPERATED**				
SPBR	PRESSURE SW-BRAKE	W6W5DSI1	09N082A	PRESSW NASON CLOSE @ 62 LB.	AIR VALVE BOX
ST	**>>SWITCH-TEMPERATURE**				
STDB	THERMOSTAT-DYNAMIC BRAKING RESISTOR	W6W5DSS+	30RA175T	THERMOSTAT OPENS AT 175F	BRAKING RESIST
TP1	PROBE-TEMPERATURE	W6W5DSBW	30R0043PB	TEMPERATURE PROBE ASSY=BRASS	BOTTOM OF CYL.
VE	**>>VALVE-ELECTRIC OPERATED**				
VEB2R	VALVE-2ND BRAKE	W6W5DSSP	96R302A37	1/8"AIR PILOT 3WANO 120V50/60C	AIR VALVE BX
VEC01	VALVE-CHEMICAL #1 FLUSH	W6W5DSCF	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC02	VALVE-CHEMICAL #2 FLUSH	W6W5DSCF	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC03	VALVE-CHEMICAL #3 FLUSH 4244	W6W5DSCF	96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC03	VALVE-CHEMICAL #3 FLUSH 6044	W6W5DSCF	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC04	VALVE-CHEMICAL #4 FLUSH 4244	W6W5DSCF	96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC04	VALVE-CHEMICAL #4 FLUSH 6044	W6W5DSCF	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC05	VALVE-CHEMICAL #5 FLUSH 4244	W6W5DSCF	96TCC2AA37	3/8" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC05	VALVE-CHEMICAL #5 FLUSH 6044	W6W5DSCF	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC07	VALVE-CHEMICAL #7 FLUSH	W6W5DSCX	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	SUPPLY VLVST
VEC08	VALVE-CHEMICAL #8 FLUSH	W6W5DSCX	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	SUPPLY VLVST
VEC09	VALVE-CHEMICAL #9 FLUSH	W6W5DSCX	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	SUPPLY VLVST
VEC10	VALVE-CHEMICAL #10 FLUSH	W6W5DSCX	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	SUPPLY VLVST
VEC11	VALVE-CHEMICAL #11 FLUSH	W6W5DSCX	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	SUPPLY VLVST
VEC12	VALVE-CHEMICAL #12 FLUSH	W6W5DSCX	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	SUPPLY VLVST
VEC13	VALVE-CHEMICAL #13 FLUSH	W6W5DSCX	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	SUPPLY VLVST
VEC14	VALVE-CHEMICAL #14 FLUSH	W6W5DSCX	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	SUPPLY VLVST
VEC15	VALVE-CHEMICAL #15 FLUSH	W6W5DSCX	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	SUPPLY VLVST
VECFM	VALVE-FLUSH MANIFOLD	W6W5DSCX	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	SUPPLY VLVST
VEDRR	VALVE-DRAIN TO REUSE	W6W5DSEV	96R302A37	1/8"AIR PILOT 3WANO 120V50/60C	AIR VALVE BOX
VEDRS	VALVE-DRAIN TO SEWER	W6W5DSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BOX

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COMPONENT PARTS LIST

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COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
VEPL	VALVE-DOOR LATCH SOIL SIDE	W6W5DSSP	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEPPO	VALVE-DOOR SEAL	W6W5DSS+	96R302A37	1/8"AIR PILOT 3WANO 120V50/60C	AIR VALVE BOX
VESC	VALVE-SPRAY	W6W5DSCF	96R301B37	1/8"AIRPILOT 3W NC 120V50/60	AIR VALVE BX
VESTM	VALVE-STEAM	W6W5DSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BOX
VETCW	VALVE-COOLDOWN	W6W5DSEV	96P151A37	1+1/4" VAL 110V HAYS 2110-60211S	AIR VALVE BOX
VEWBR	VALVE-BRAKE	W6W5DSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BOX
VEWPD	VALVE-PUSH DOWN 42" DIA	W6W5DSSP	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWS	VALVE-SPRAY DOWN	W6W5DSS+	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWSS	VALVE-SEAL SUCKER	W6W5DSSP	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWVC	VALVE-COLD WATER	W6W5DSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BOX
VEWVH	VALVE-HOT WATER	W6W5DSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BOX
VEWVX	VALVE-EXTRA WATER	W6W5DSEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BOX
WFM	METER-FLOW	W6W5DSBW	30F515	FLOW SENSOR SIGNET P51530-P0	WATER INLET

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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, FOB our factory. We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is repaired or altered in any way without MILNOR's written consent.

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

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

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

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

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

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

How to Get the Necessary Repair Components

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

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

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

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

To write to the Milnor factory:

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

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

— End of BIUUUD19 —

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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).

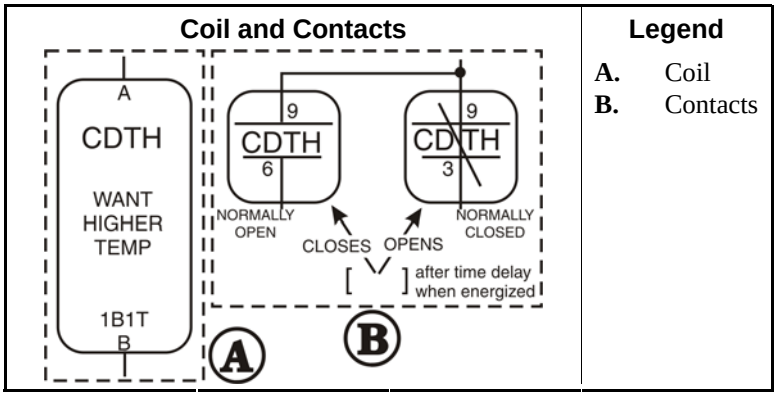
BA=Printed Circuit Board—Insulating substrate on which a thin pattern of copper conductors has been formed to connect discrete electronic components also mounted on the board.

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)

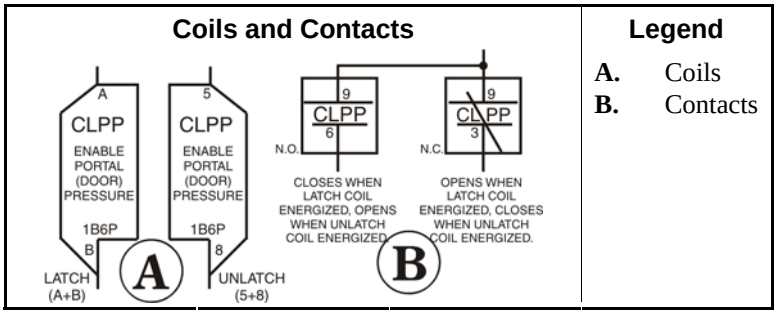
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



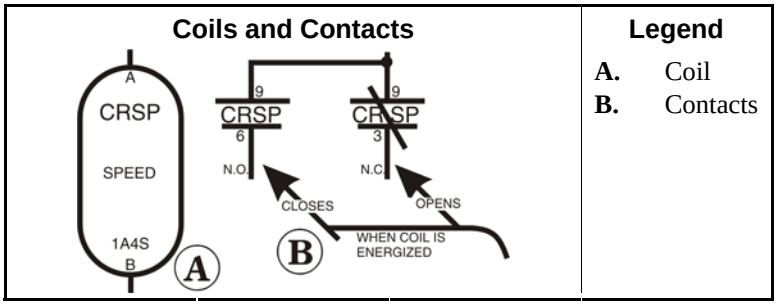
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



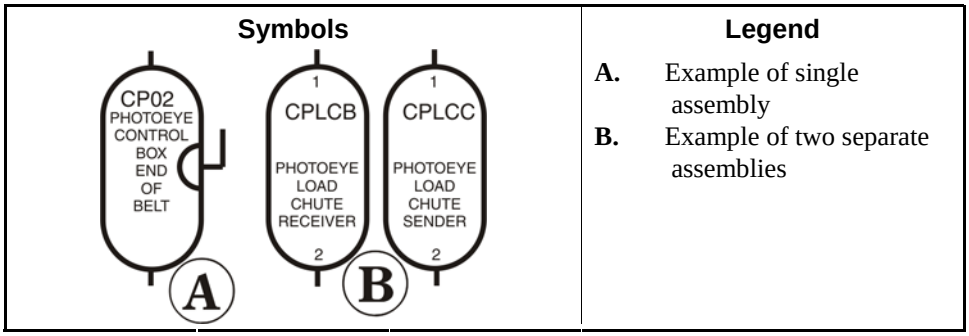
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



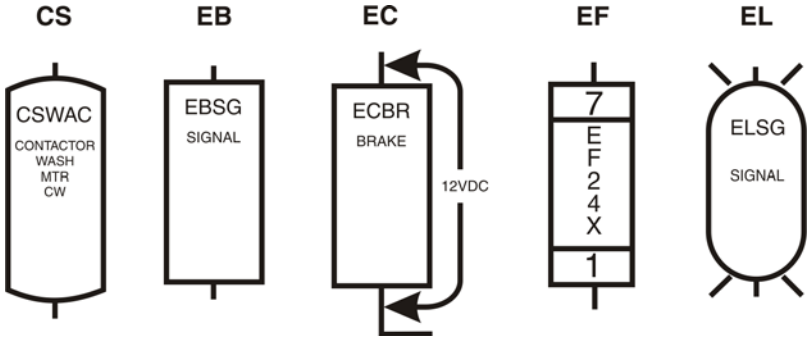
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these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

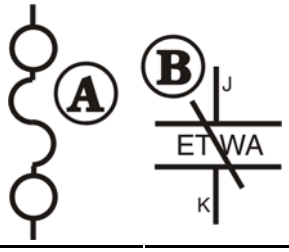
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

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.

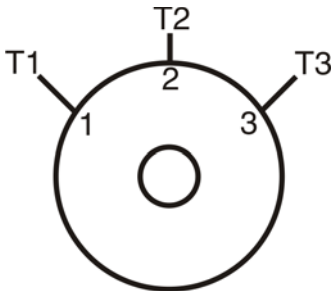
KB=Keyboard—Device similar to a typewriter for making entries to a computer.

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)

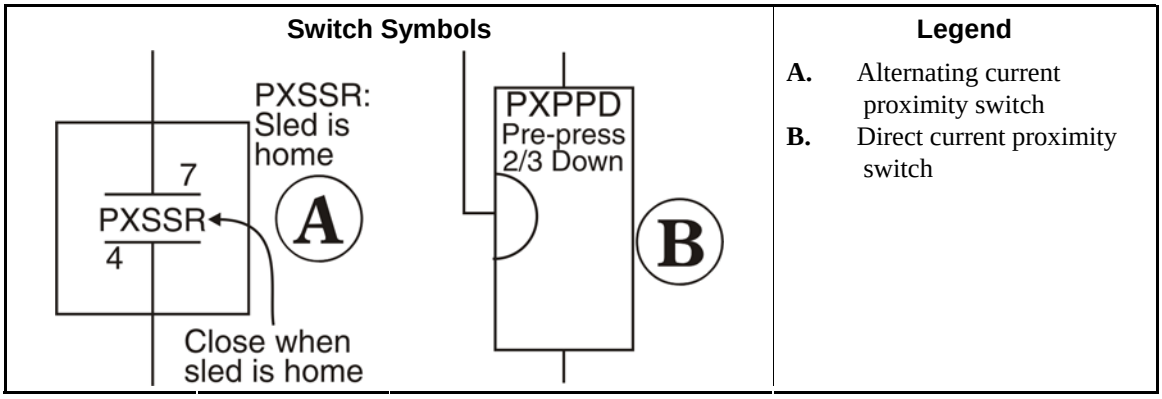


MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the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

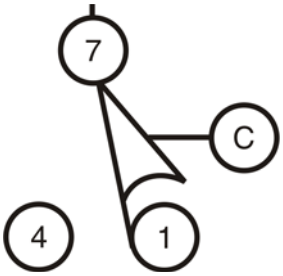
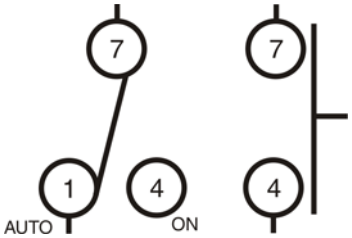


Figure 12: Hand Operated Switch (SH)



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)

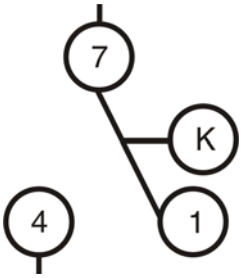
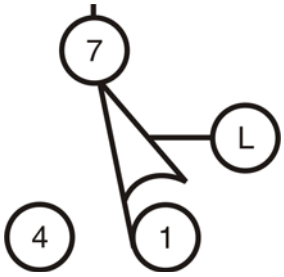


Figure 14: Level Switch (SL)



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)

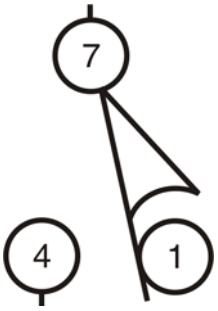
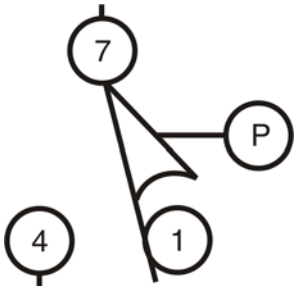


Figure 16: Pressure Switch (SP)



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)

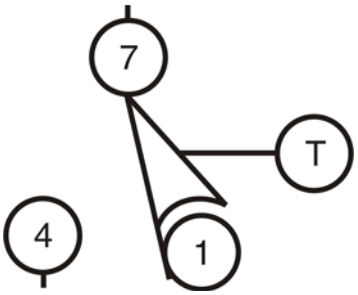
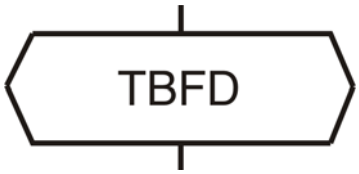


Figure 18: Terminal Board (TB)



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)

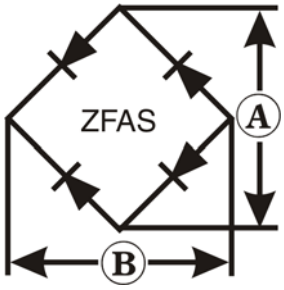
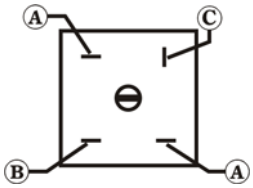
Component Symbol	Legend
	**A.** Alternating current input **B.** Direct current output

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.

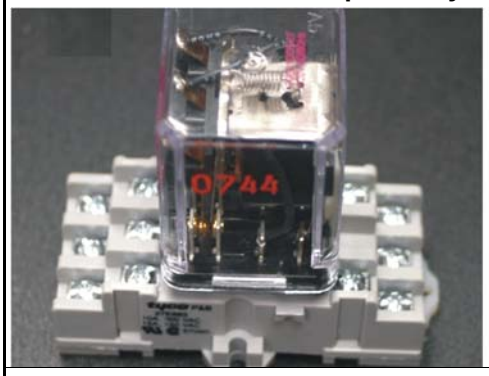
2. Component Terminal Numbering

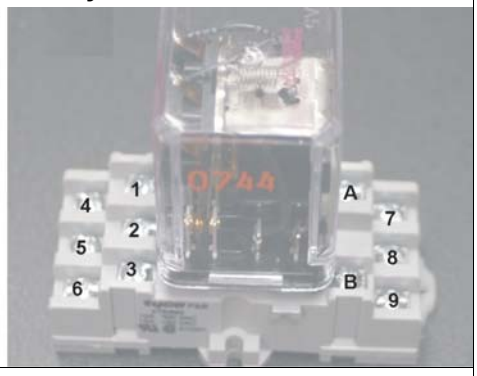
CAUTION 1: Risk of Mis-wiring—Due to electrical component manufacturing inconsistencies, the pin numbers imprinted on components such as connectors and relay bases used on Milnor machines often do not correspond to the pin numbers shown in the schematics.

- 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.

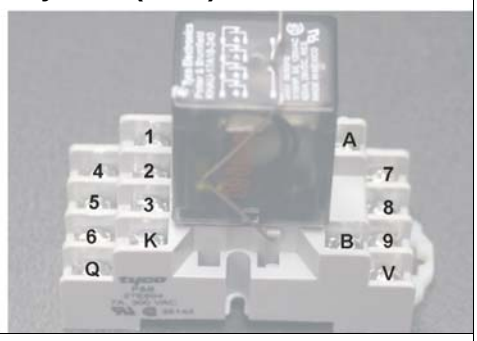
Figure 22: Plug-in Relays

11-pin Relay with Grey Base

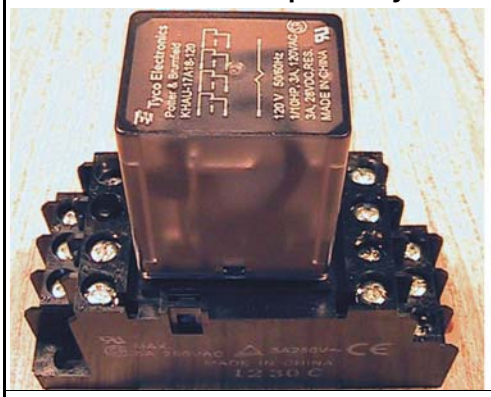


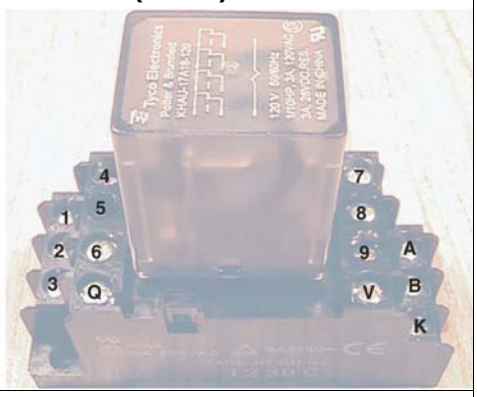


14-pin Relay with Grey Base (older)

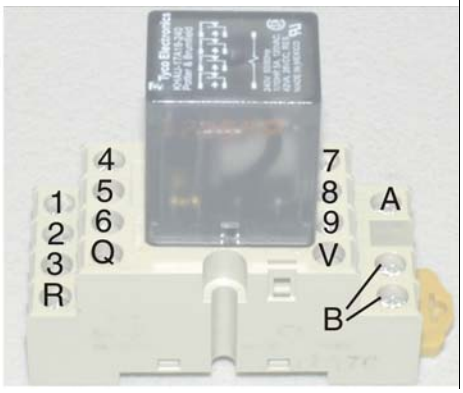


14-pin Relay with Black Base (newer)





14-pin Relay with Beige Base (rare)



Legend

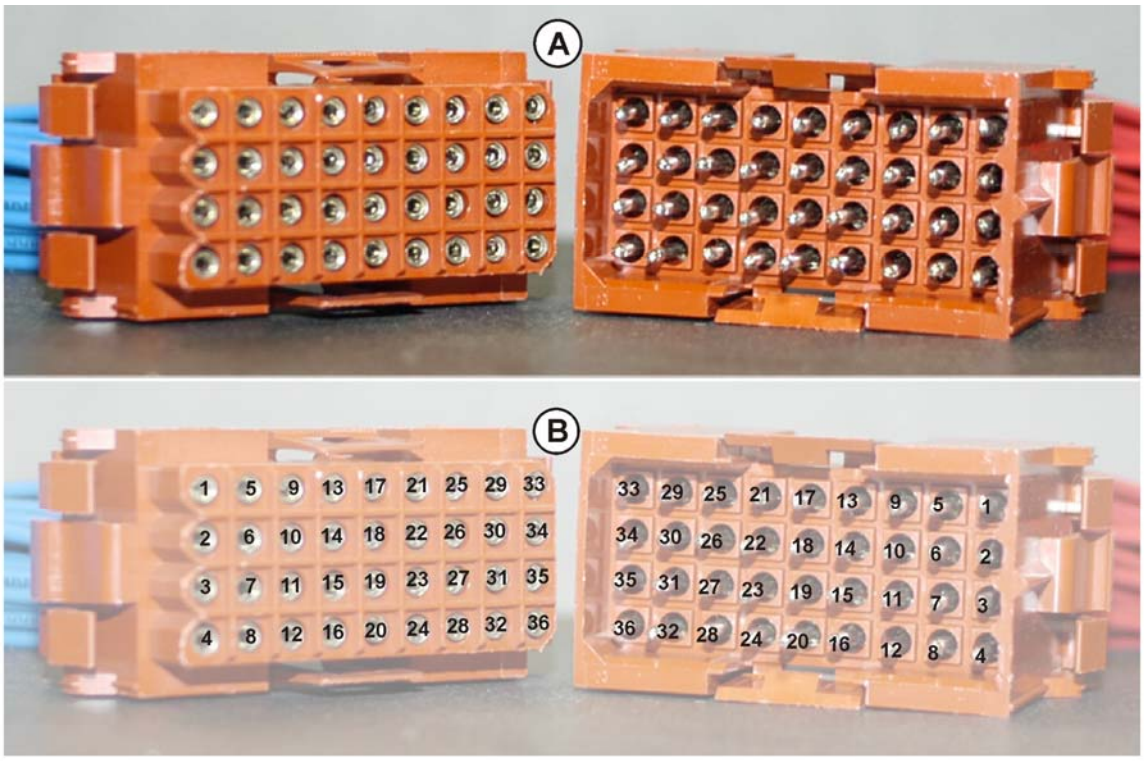
Left. View of relay and base

Right. Same view, showing pin numbers

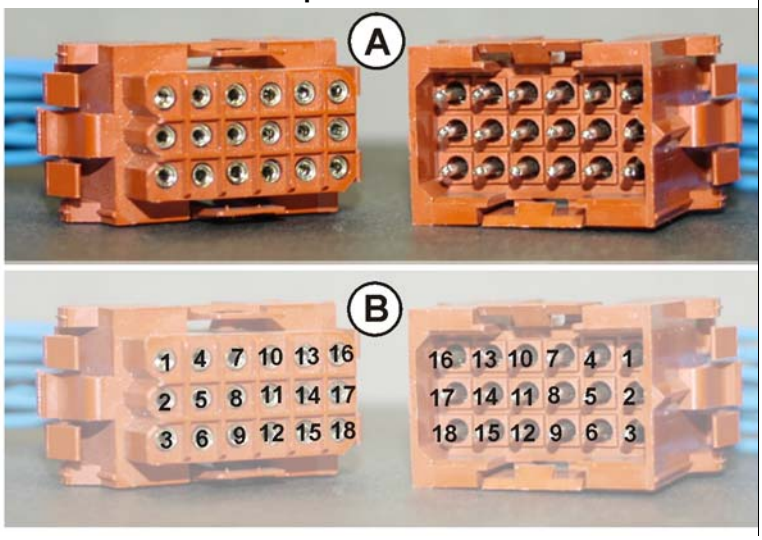
Note 3: Relay functional names ending with the letter "M" (e.g., CRxxM) are not discrete components but are a component of a printed circuit board. They are usually not individually replaceable.

Figure 23: AMP Connector Pin Locations

36-pin Connector



18-pin Connector

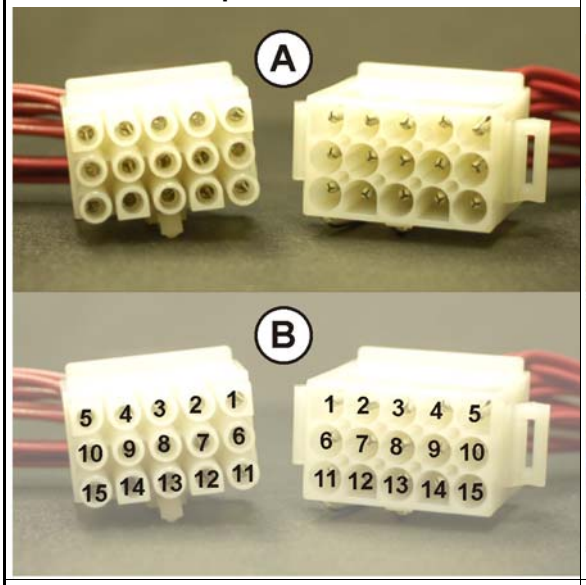


Legend

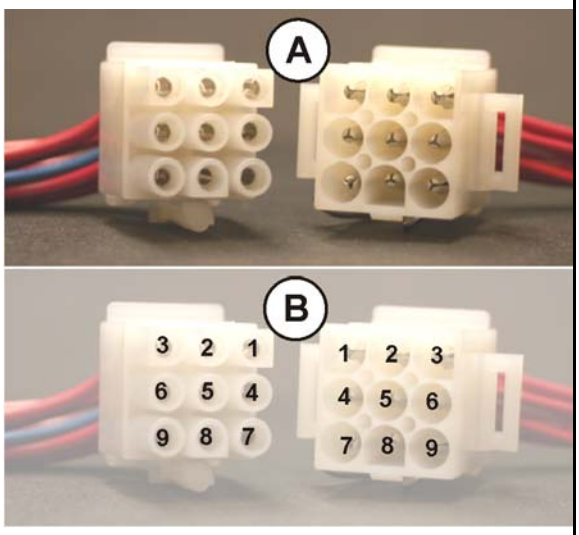
A. View of mating halves of connector
B. Same view, showing assigned pin numbers

Figure 24: Molex Connector Pin Locations

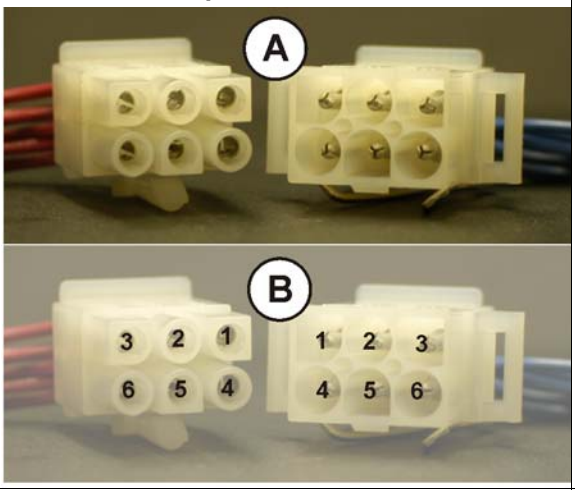
15-pin Connector



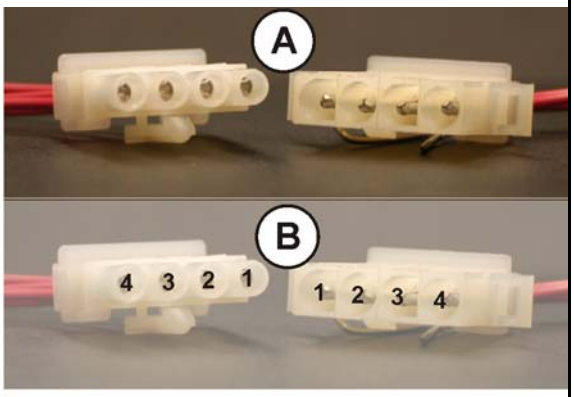
9-pin Connector



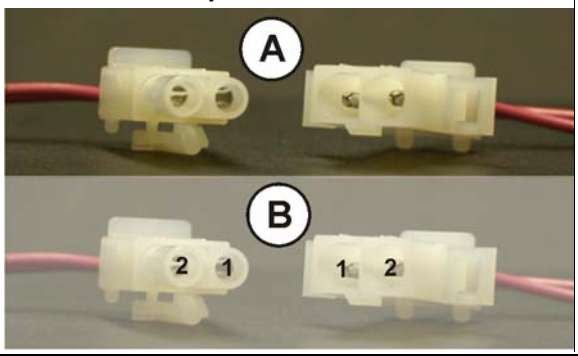
6-pin Connector



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

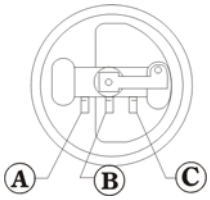
Component	Legend
	**A.** Contact 1—Normally open **B.** Contact 2—Normally closed **C.** Contact 3—Common

Figure 26: Toggle Switch

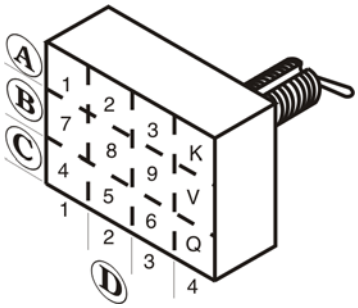
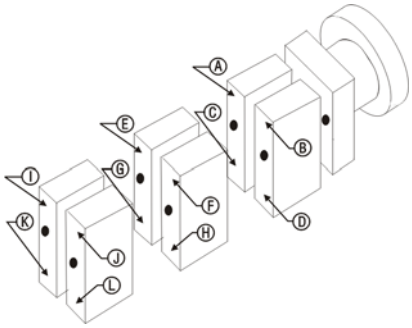
Component	Legend
	**A.** Normally closed contacts **B.** Common contacts **C.** Normally open contacts **D.** Pole

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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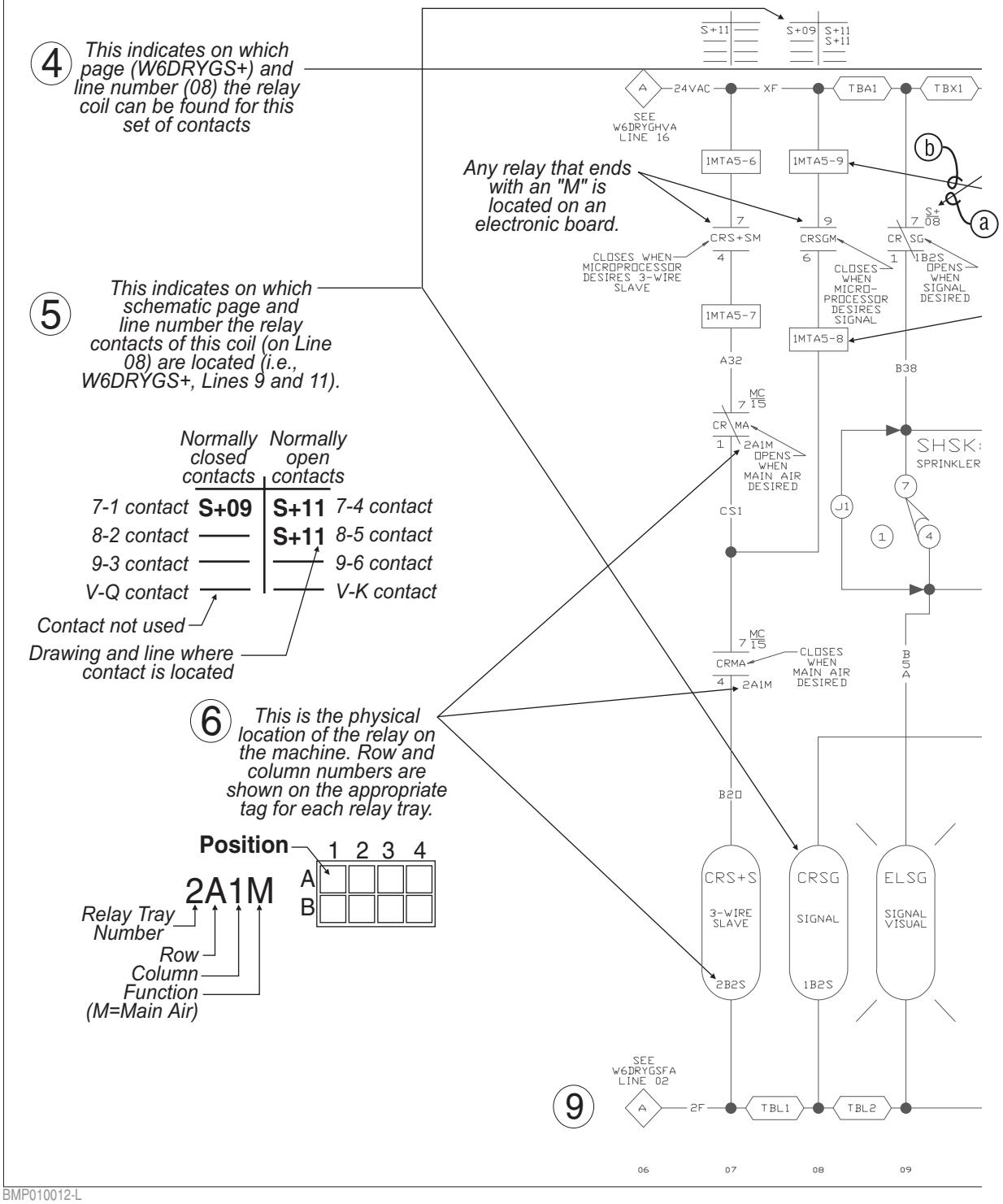
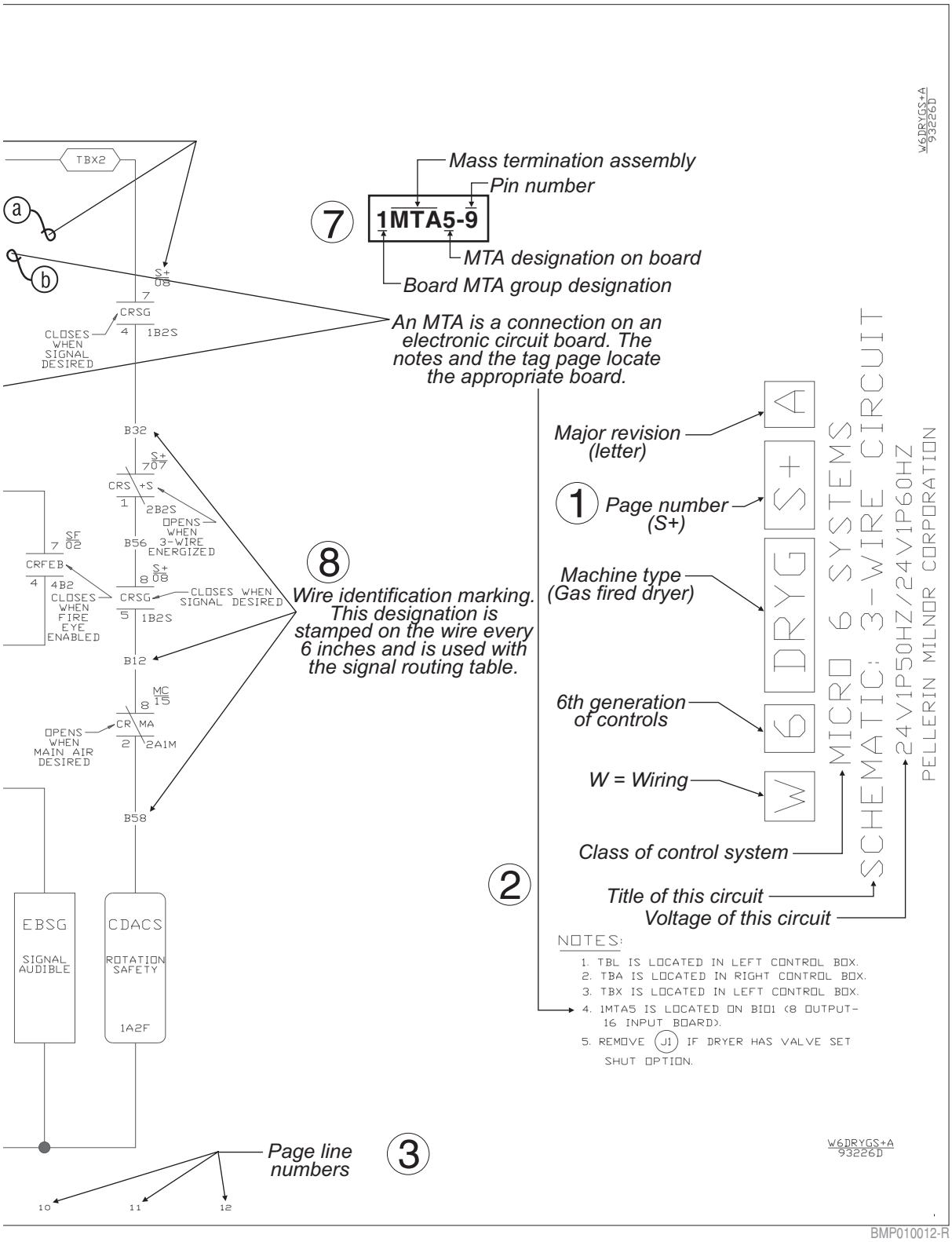
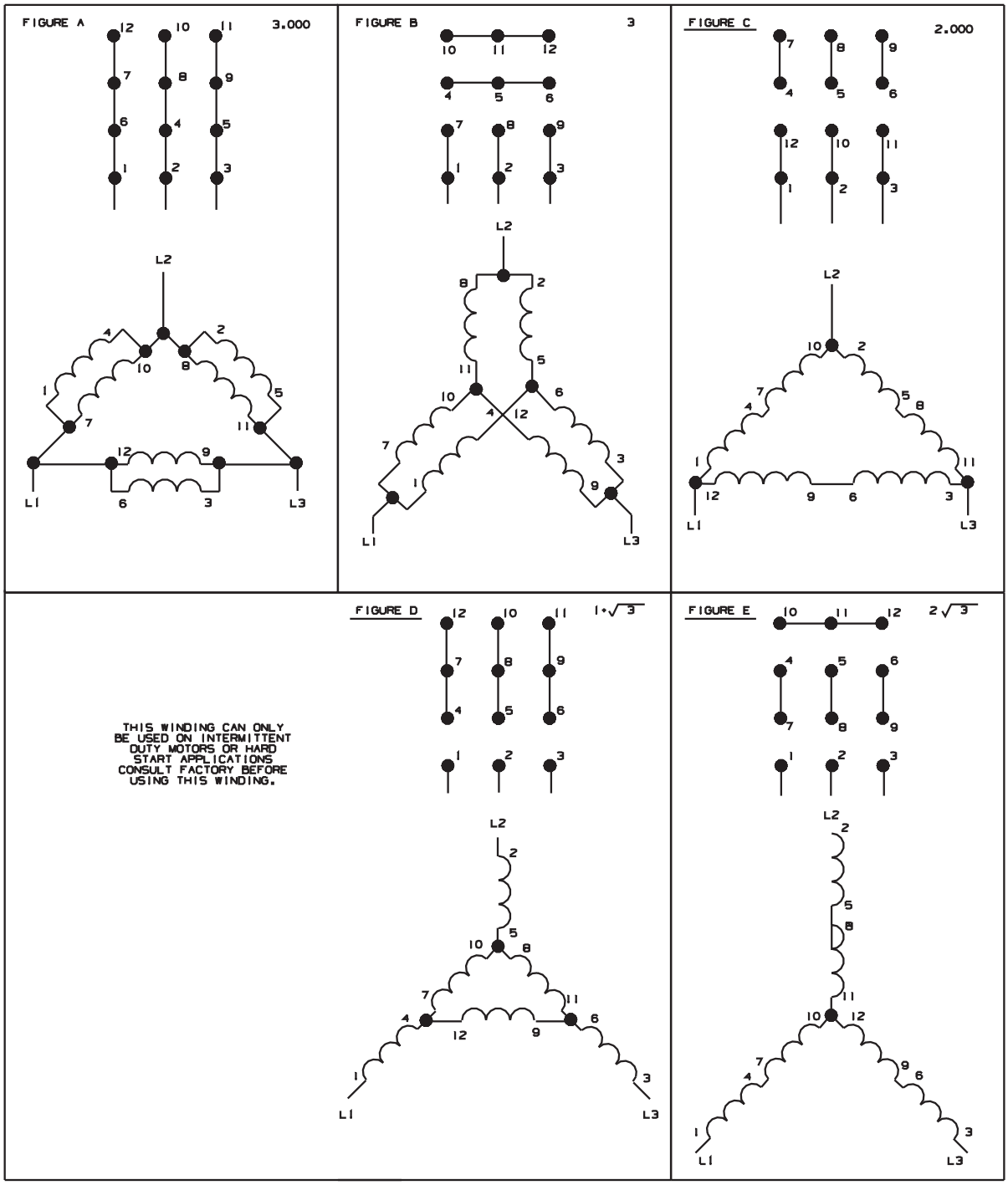

4
This indicates on which page (W6DRYGS+) and line number (08) the relay coil can be found for this set of contacts
5
This indicates on which schematic page and line number the relay contacts of this coil (on Line 08) are located (i.e., W6DRYGS+, Lines 9 and 11).
Normally closed contacts
Normally open contacts
7-1 contact S+09 S+11 7-4 contact
8-2 contact S+11 8-5 contact
9-3 contact 9-6 contact
V-Q contact V-K contact
Contact not used
Drawing and line where contact is located
6
This is the physical location of the relay on the machine. Row and column numbers are shown on the appropriate tag for each relay tray.
Position 1 2 3 4
A
B
2A1M
Relay Tray Number
Row
Column
Function (M=Main Air)
Any relay that ends with an "M" is located on an electronic board.
S+11
S+09 S+11 S+11
A
24VAC
XF
TBA1
TBX1
SEE W6DRYGHVA LINE 16
1MTA5-6
1MTA5-9
b
a
S+08
CRS+SM
CRSGM
CR SG
CLOSES WHEN MICROPROCESSOR DESIRES 3-WIRE SLAVE
CLOSES WHEN MICRO-PROCESSOR DESIRES SIGNAL
1B2S OPENS WHEN SIGNAL DESIRED
1MTA5-7
1MTA5-8
A32
B38
MC 15
CR MA
2A1M OPENS WHEN MAIN AIR DESIRED
SHSK
SPRINKLER
CS1
J1
CRMA
CLOSES WHEN MAIN AIR DESIRED
2A1M
B5A
B20
CRS+S
3-WIRE SLAVE
2B2S
CRSG
SIGNAL
1B2S
ELSG
SIGNAL VISUAL
9
SEE W6DRYGSFA LINE 02
2F
TBL1
TBL2
06
07
08
09

BMP010012-L


W6DRYGS+A
93226D
TBX2
a
b
Mass termination assembly
Pin number
7
1MTA5-9
MTA designation on board
Board MTA group designation
An MTA is a connection on an electronic circuit board. The notes and the tag page locate the appropriate board.
S+ 08
7
CRSG
4
1B2S
CLOSES WHEN SIGNAL DESIRED
B32
S+ 707
CRS
1
+S
2B2S
OPENS WHEN 3-WIRE ENERGIZED
SF 7 02
B56
CRFEB
4
4B2
CLOSES WHEN FIRE EYE ENABLED
S+ 8 08
CRSG
5
1B2S
CLOSES WHEN SIGNAL DESIRED
8
Wire identification marking. This designation is stamped on the wire every 6 inches and is used with the signal routing table.
B12
MC 8 15
CR
2
MA
2A1M
OPENS WHEN MAIN AIR DESIRED
B58
EBSG
SIGNAL AUDIBLE
CDACS
ROTATION SAFETY
1A2F
Page line numbers
3
10
11
12
Major revision (letter)
1
Page number (S+)
Machine type (Gas fired dryer)
6th generation of controls
W = Wiring
Class of control system
2
Title of this circuit
Voltage of this circuit
W 6 DRYG S+ A
MICRO 6 SYSTEMS
SCHEMATIC 3-WIRE CIRCUIT
24V1P50HZ/24V1P60HZ
PELLERIN MILNOR CORPORATION
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 BIO1 (8 OUTPUT-16 INPUT BOARD).
5. REMOVE J1 IF DRYER HAS VALVE SET SHUT OPTION.
W6DRYGS+A
93226D

BMP010012-R

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

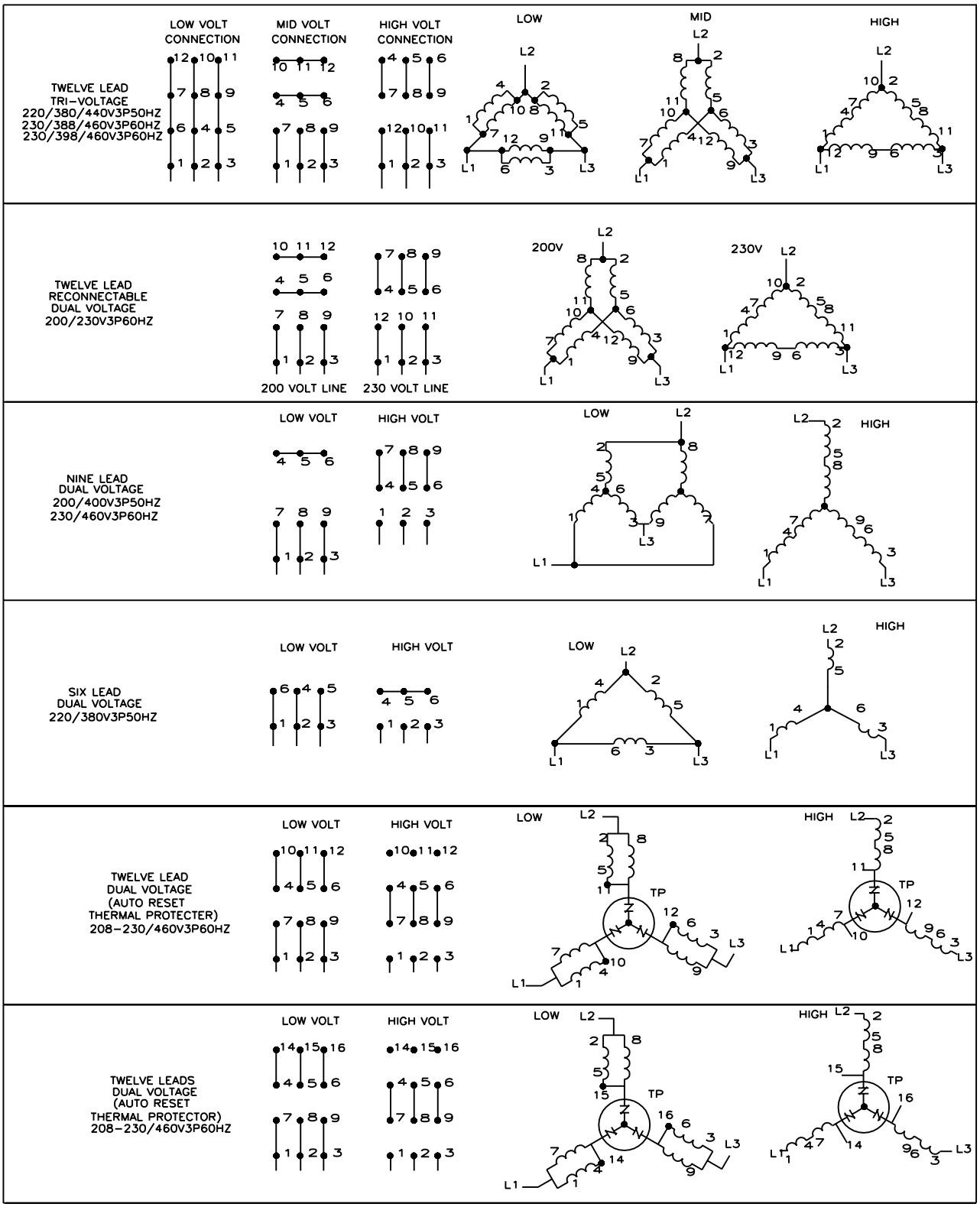
BMP850029

MOTOR CONNECTION DIAGRAMS

THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS

(ONLY FOR MOTOR SUFFIXES LISTED)

PELLERIN MILNOR CORPORATION

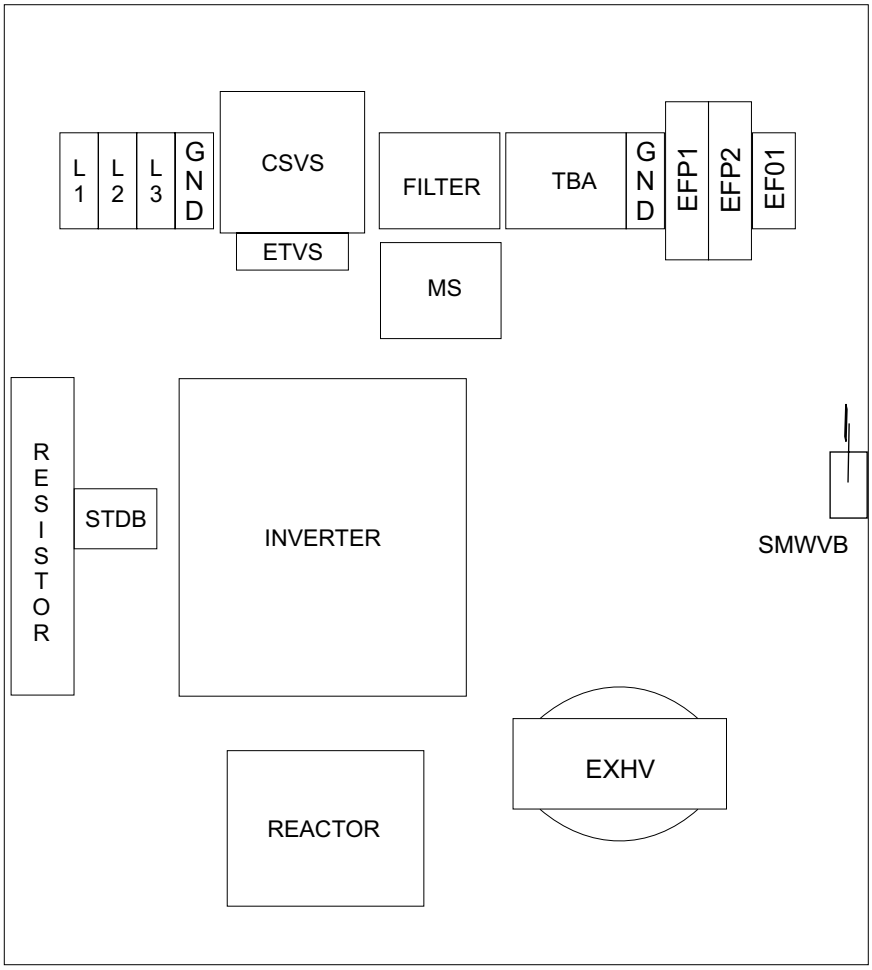


W80008

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

PELLERIN MILNOR CORPORATION

W80008
2001253A



MICRO 6 SYSTEMS
4244 SINGLE MOTOR WP2/SP2
HIGH VOLTAGE CONTROL BOX

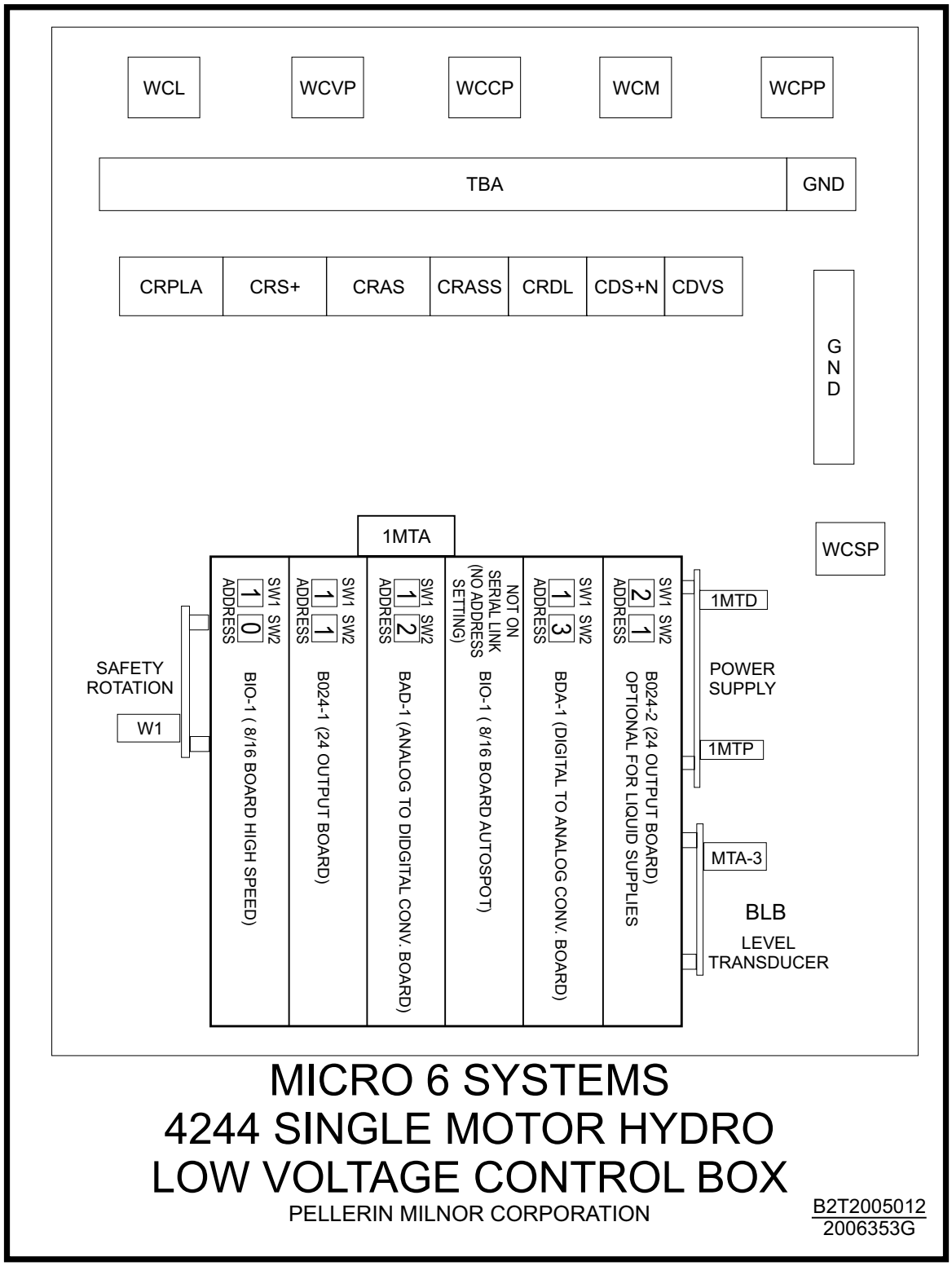
PELLERIN MILNOR CORPORATION

B2T2005003
2008345G

W6W5DSTG1

42044 SINGLE MOTOR HYDRO CONTROL BOX DETAILS

PELLERIN MILNOR CORPORATION



MICRO 6 SYSTEMS
4244 SINGLE MOTOR HYDRO LOW VOLTAGE CONTROL BOX

PELLERIN MILNOR CORPORATION

B2T2005012
2006353G

B024-1

OUTPUTS

0 TANK TO MACHINE1
1 ALT. EXT ACCEL/DECEL
2 DOOR UNLOCK
3 CW WASH
4 CCW WASH
5 STEAM VALVE
6 SIGNAL
7 THREE WIRE RELAY
8 BRAKE RELEASE
9 WATER VALVE #1
10 WATER VALVE #2
11 WATER VALVE #3
12 SEWER DRAIN
13 REUSE DRAIN
14 MACHINE TO MACHINE
15 MACHINE TO TANK
16 PUSH DOWN
17 TRANSFER CONTROL 1
18 XFER CTRL NOT 1
19 TRANSFER CONTROL 2
20 XFER CTRL NOT 2
21 CLEAN BUZZER
22 CLUTCH
23 SPRAY DOWN

BO24-2 (OPTIONAL)
(STANDARD ON 7244 MODELS)

OUTPUTS

0 CHEM 14
1 CHEM 9
2 CHEM 13
3 FLUSH
4 CHEM 15
5 CHEM 11
6 CHEM SAVE
7 DRAIN SAVER
8 CHEM 10
9 AMP SAVER
10 CHEM 6
11 CHEM 7
12 CHEM 8
13 CHEM 12
14 AUTOMATIC RECIRC.
15 DRAIN MOTOR
16 E1 MOTOR
17 E2 MOTOR
18 NOT USED
19 NOT USED
20 NOT USED
21 NOT USED
22 NOT USED
23 NOT USED

BO24-3 (OPTIONAL)

OUTPUTS

0 PROGRAM. OUT #00
1 PROGRAM OUT #01
2 PROGRAM OUT #02
3 PROGRAM OUT #03
4 PROGRAM OUT #04
5 PROGRAM OUT #05
6 PROGRAM OUT #06
7 PROGRAM OUT #07
8 PROGRAM OUT #08
9 PROGRAM OUT #09
10 PROGRAM OUT #10
11 PROGRAM OUT #11
12 PROGRAM OUT #12
13 PROGRAM OUT #13
14 PROGRAM OUT #14
15 PROGRAM OUT #15
16 PROGRAM OUT #16
17 PROGRAM OUT #17
18 PROGRAM OUT #18
19 PROGRAM OUT #19
20 NOT USED
21 NOT USED
22 NOT USED
23 NOT USED

BIO-1 (HIGH SPEED)

INPUTS

0 TANK IS FULL
1 DOOR CLOSED
2 INVERTER TRIPPED
3 AUTOSPOT DESIRED
4 NOT USED
5 NOT USED
6 CHEM SAVE/TIMERSTOP
7 BASKET TURNING
8 AMP SAVER
9 NOT USED
10 NOT USED
11 BRAKE IS OFF
12 NOT USED
13 NOT USED
14 NOT USED
15 NOT USED

OUTPUTS

0 RECIRC. PUMP
1 COOLDOWN
2 FLUSH
3 CHEM 4
4 CHEM 1
5 CHEM 3
6 CHEM 2
7 CHEM 5

BI/O-A AUTOSPOT
ON 1MTR MODELS ONLY

INPUTS

0 NOT USED
1 SOIL SIDE PCKT 3 SPOTTED
2 SOIL SIDE PCKT 2 SPOTTED
3 SOIL SIDE PCKT 1 SPOTTED
4 SPOT CLEAN POCKET 2
5 SPOT CLEAN POCKET 1
6 SPOT SOILED POCKET 2
7 SPOT SOILED POCKET 1
8 SPOT SOILED POCKET 3
9 OK TO SPOT
10 SPOT CLEAN POCKET 3
11 NOT USED
12 NOT USED
13 CLEAN POCKET 3 SPOTTED
14 CLEAN POCKET 2 SPOTTED
15 CLEAN POCKET 1 SPOTTED

OUTPUTS

0 BRAKE
1 I AM SPOTTING
2 NOT USED
3 DC BRAKE
4 I AM SPOTTING
5 START SPOTTING
6 SOIL SPOTTED
7 CLEAN SPOTTED

NOT ALL INPUTS/OUTPUTS
USED FOR ALL MODELS

MICRO 6 SYSTEMS MARK V or VI CONTROLS
MODELS WP2/3, SP2/3
CONTROL BOARDS INPUTS/OUTPUTS

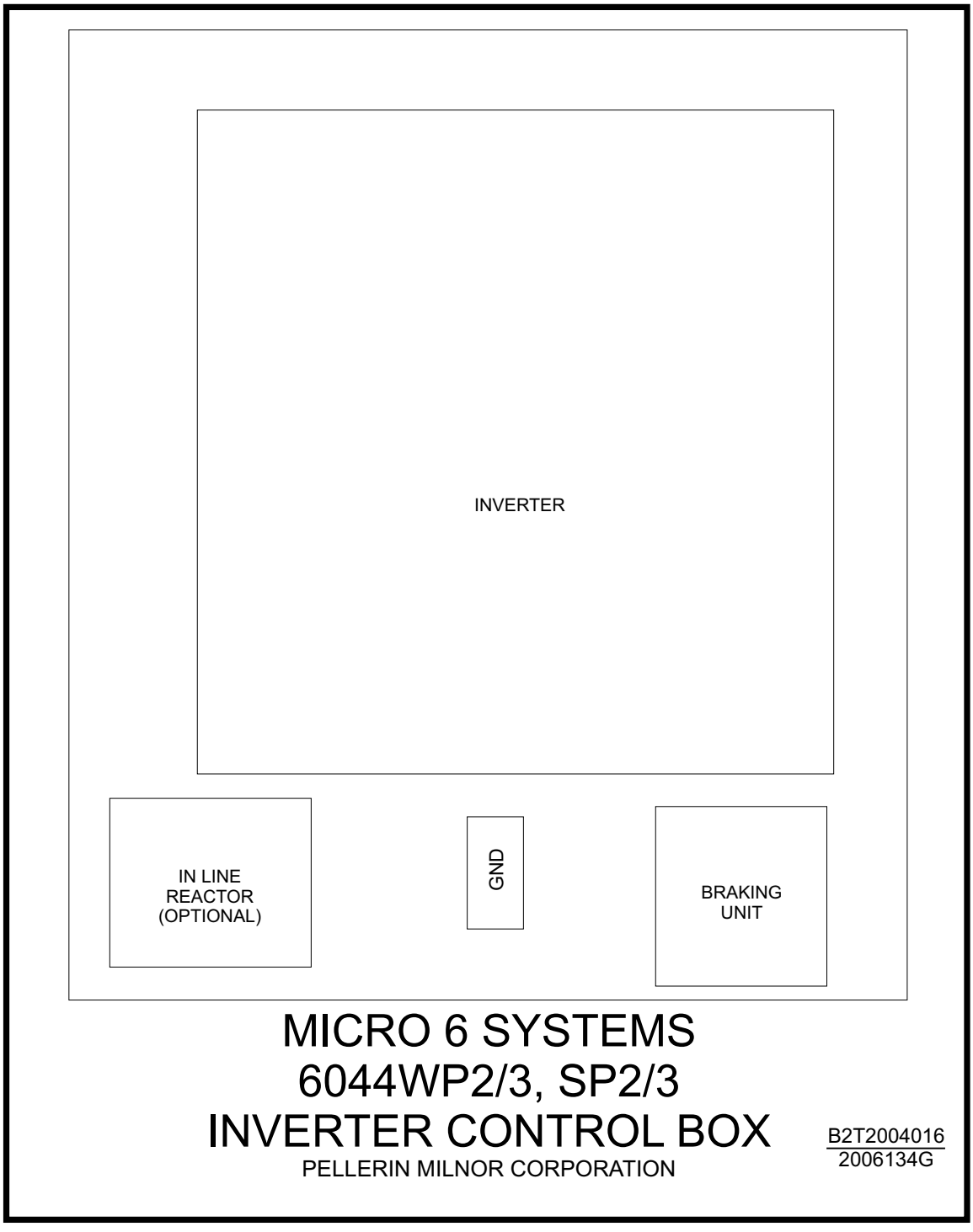
PELLERIN MILNOR CORPORATION

B2T2005014
2011043G

W6W5DSTG2

42 & 60” WP2, WP3 SINGLE MOTOR CONTROL BOX DETAILS

PELLERIN MILNOR CORPORATION



MICRO 6 SYSTEMS
6044WP2/3, SP2/3
INVERTER CONTROL BOX

PELLERIN MILNOR CORPORATION

B2T2004016
2006134G

W6W5DSTG3
2008345B

W6W5DSTG3

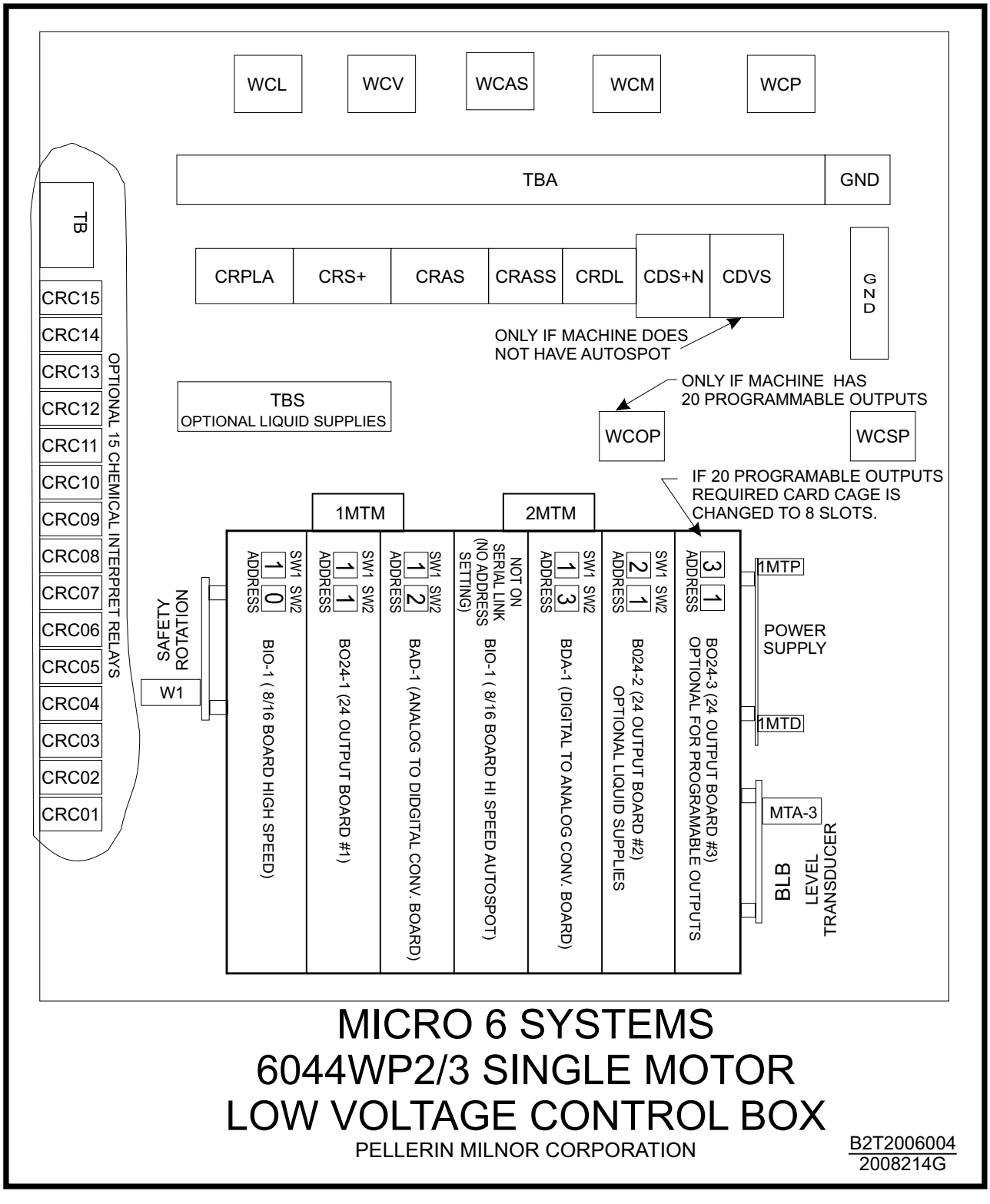
60044 SINGLE MOTOR HYDRO CONTROL BOX DETAILS

PELLERIN MILNOR CORPORATION

MICRO 6 SYSTEMS
6044WP2/3, SP2/3
HIGH VOLTAGE BOX

PELLERIN MILNOR CORPORATION

B2T2004017
2008345G



MICRO 6 SYSTEMS
6044WP2/3 SINGLE MOTOR
LOW VOLTAGE CONTROL BOX

PELLERIN MILNOR CORPORATION

B2T2006004
2008214G

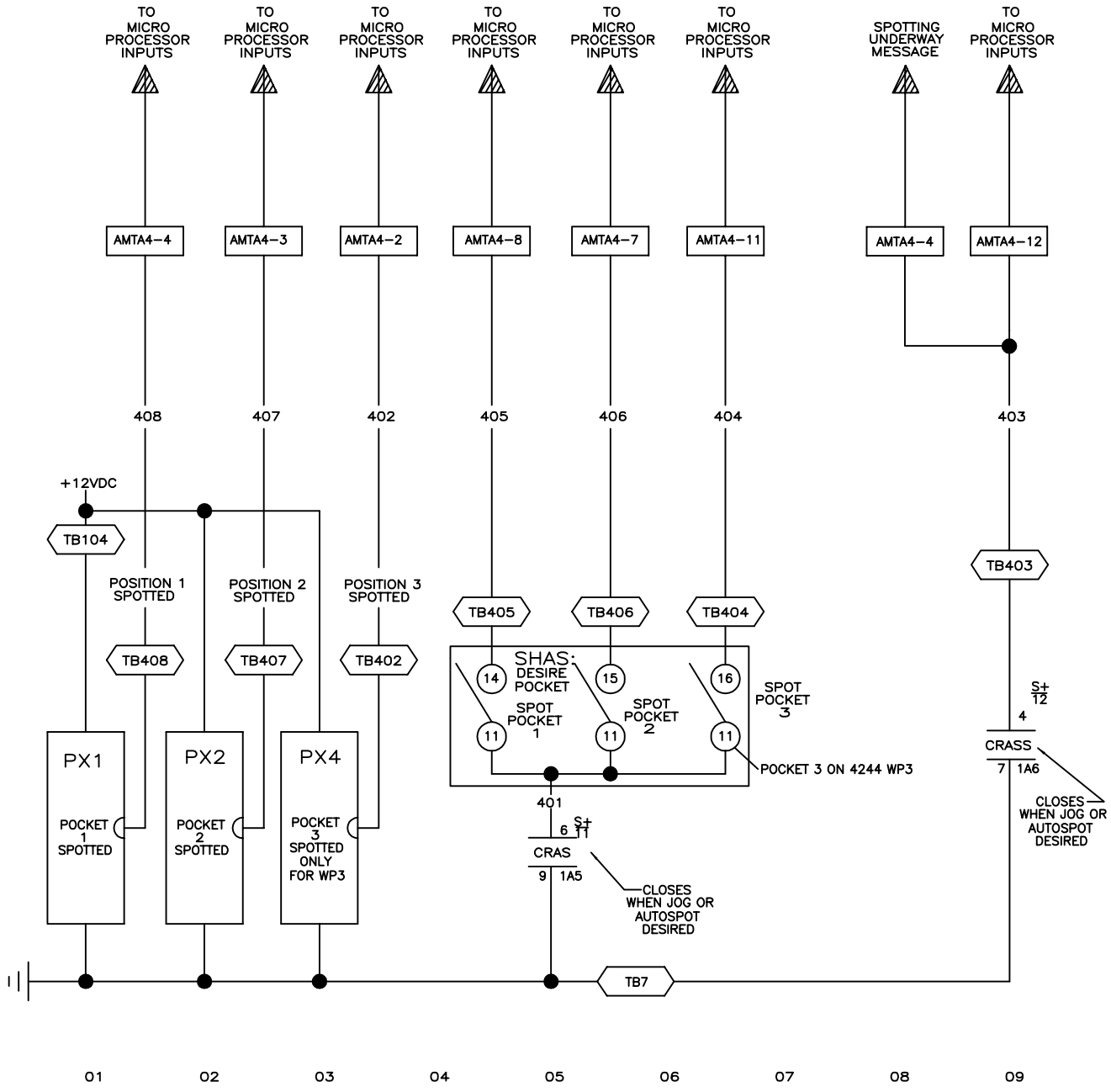
W6W5DSTG4
2012303B

W6W5DSTG4

60044 SINGLE MOTOR HYDRO CONTROL BOX DETAILS

PELLERIN MILNOR CORPORATION

W6W5DSTG4
2012303B



W6W5DSAS
2007224B

W6W5DSAS

MICRO 6 SYSTEMS

MARK VI

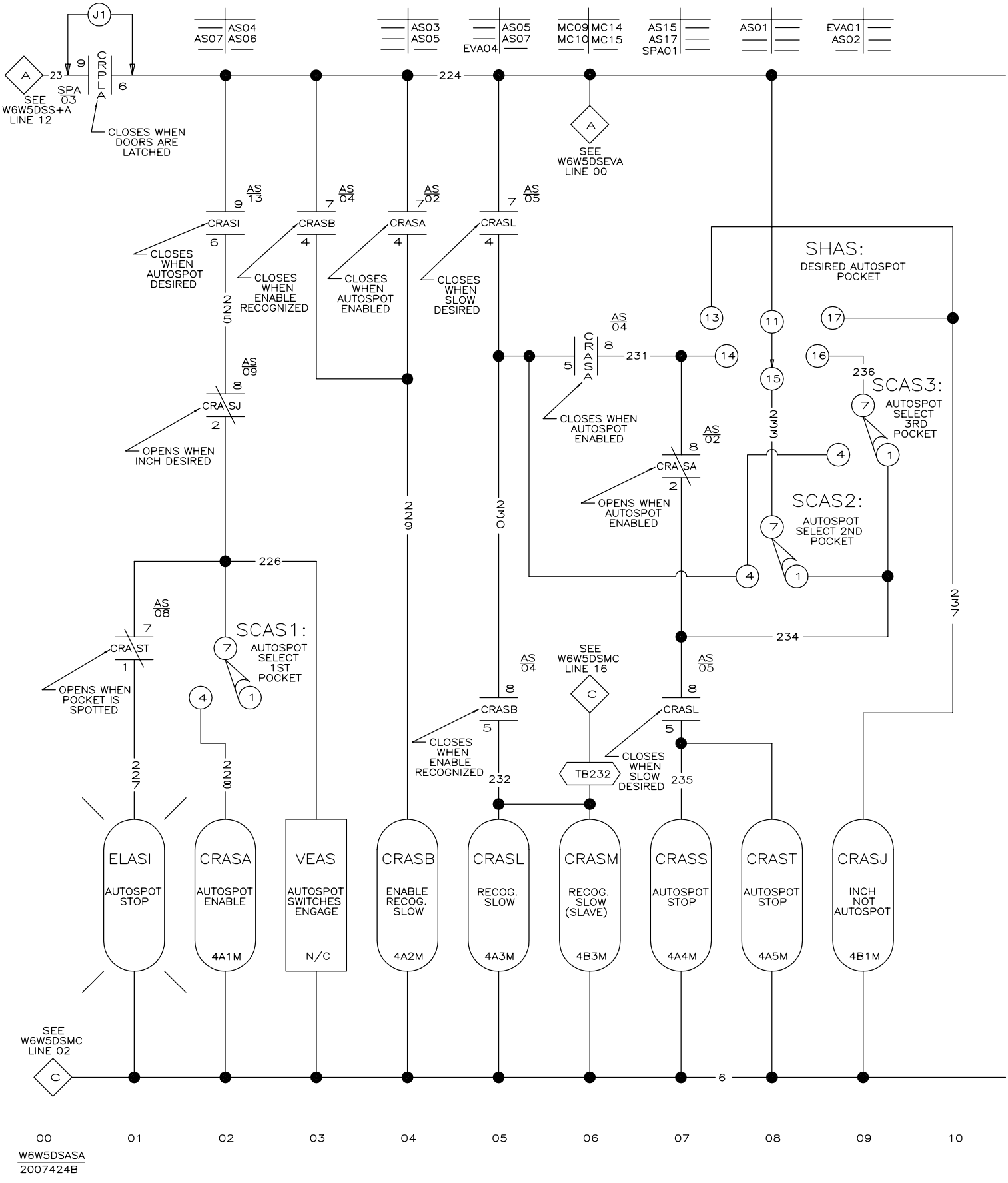
SCHEMATIC: AUTOSPOT(SERIAL CONTROLS)

AUTOSPOT CONTROLS 4244 WP2/3

110V1P50HZ/120V1P60HZ

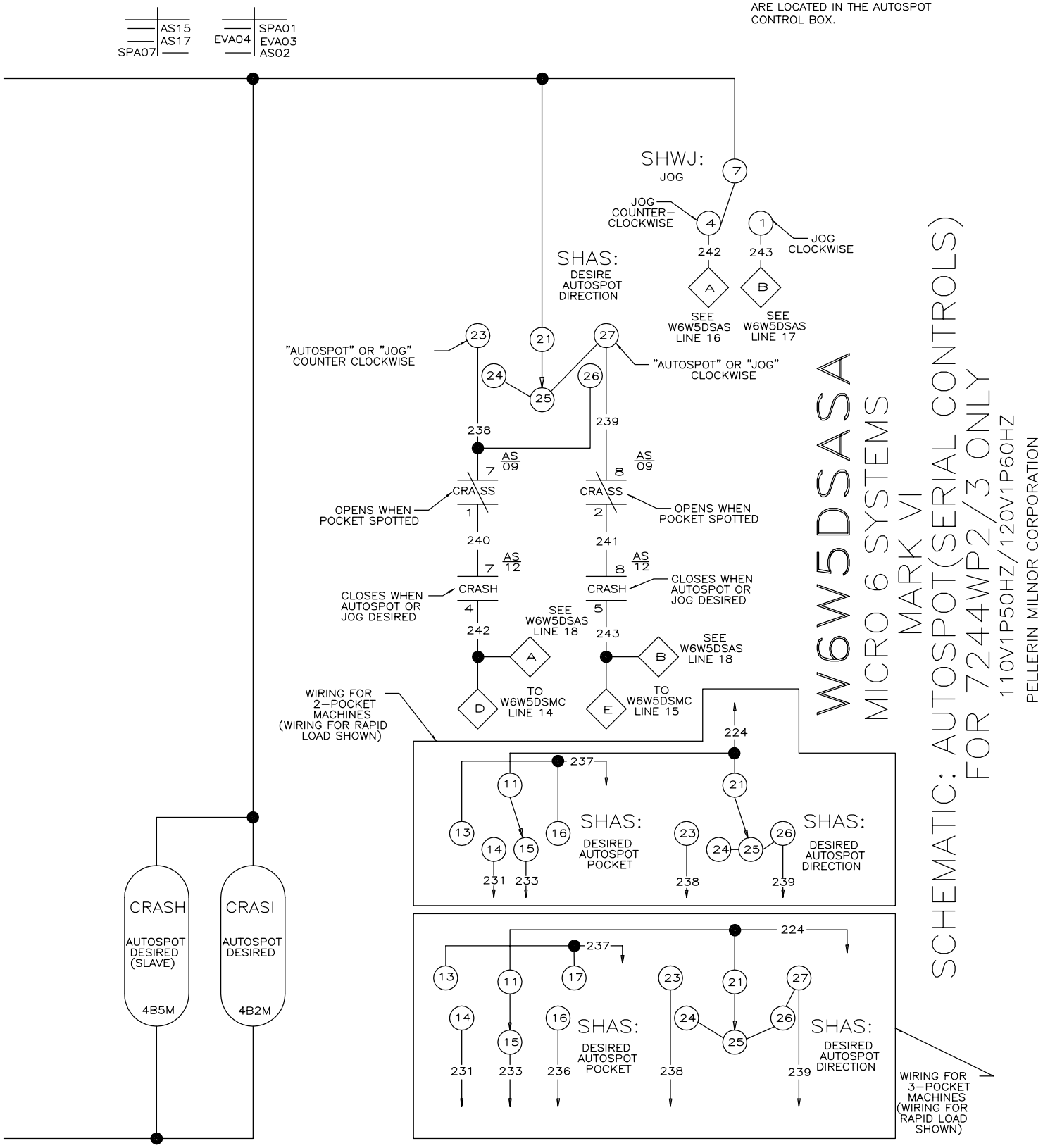
PELLERIN MILNOR CORPORATION

10 11 12 13 14 15 16 17


J1
AS04
AS07 AS06
AS03
AS05
EVA04 AS05
AS07
MC09 MC14
MC10 MC15
AS15
AS17
SPA01
AS01
EVA01
AS02
A
23
9
CRPLA
6
SPA 03
SEE W6W5DSS+A LINE 12
CLOSES WHEN DOORS ARE LATCHED
224
A
SEE W6W5DSEVA LINE 00
AS 13
9
CRASI
6
CLOSES WHEN AUTOSPOT DESIRED
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
225
AS 09
8
CRASJ
2
OPENS WHEN INCH DESIRED
AS 04
8
CRASA
5
231
CLOSES WHEN AUTOSPOT ENABLED
AS 02
8
CRASA
2
OPENS WHEN AUTOSPOT ENABLED
SHAS:
DESIRED AUTOSPOT POCKET
13
11
17
14
15
16
236
233
SCAS3:
7
AUTOSPOT SELECT 3RD POCKET
1
4
SCAS2:
7
AUTOSPOT SELECT 2ND POCKET
1
4
229
230
226
AS 08
7
CRASJ
1
OPENS WHEN POCKET IS SPOTTED
SCAS1:
7
AUTOSPOT SELECT 1ST POCKET
1
4
234
237
AS 04
8
CRASB
5
CLOSES WHEN ENABLE RECOGNIZED
232
SEE W6W5DSMC LINE 16
C
TB232
AS 05
8
CRASL
5
CLOSES WHEN SLOW DESIRED
235
227
228
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 W6W5DSMC LINE 02
C
6
00
01
02
03
04
05
06
07
08
09
10
W6W5DSASA
2007424B

NOTES:

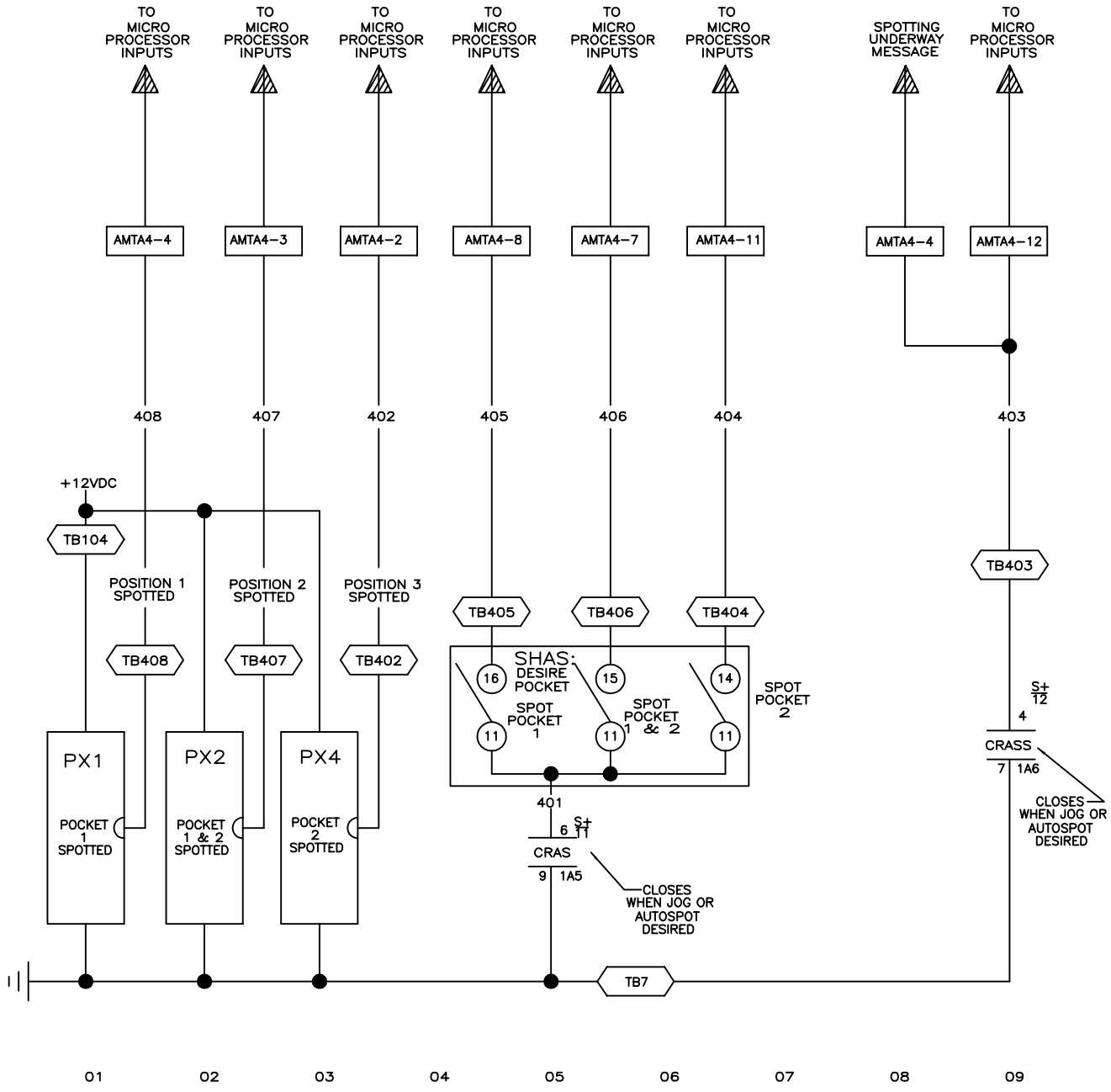
1. REMOVE (J1) FOR MACHINES WITHOUT DOOR CLOSED OPTION ALL RELAYS ON THIS SCHEMATIC ARE LOCATED IN THE AUTOSPOT CONTROL BOX.



W6W5DSASA
MICRO 6 SYSTEMS
MARK VI
SCHEMATIC: AUTOSPOT(SERIAL CONTROLS)
FOR 7244WP2/3 ONLY
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

11 12 13 14 15 16 17 18 19



W6W5DSASB
2008174B

W6W5DSASB

MICRO 6 SYSTEMS

MARK VI

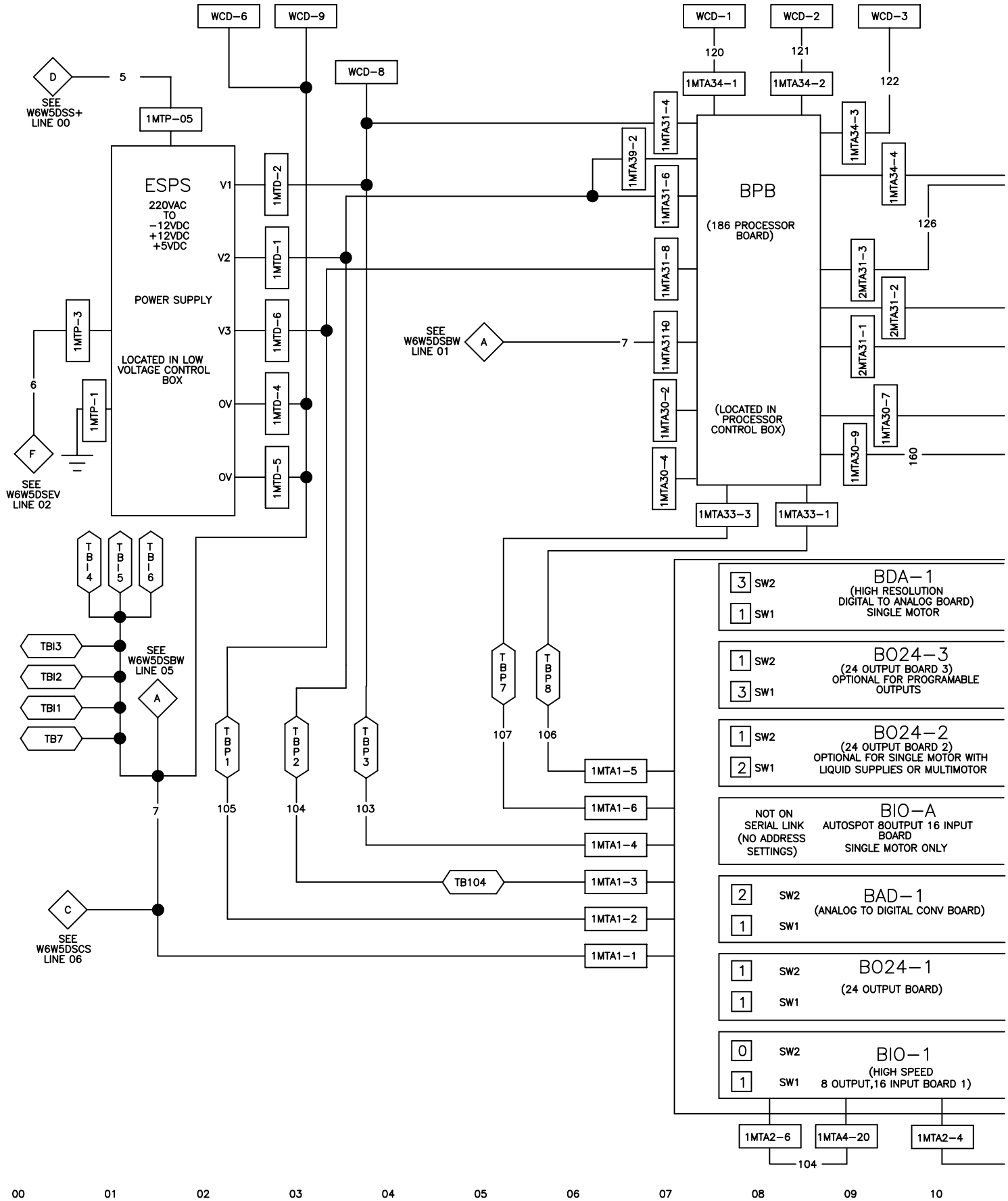
SCHEMATIC: AUTOSPOT(SERIAL CONTROLS)

AUTOSPOT SENSORS 6044 WP2/3

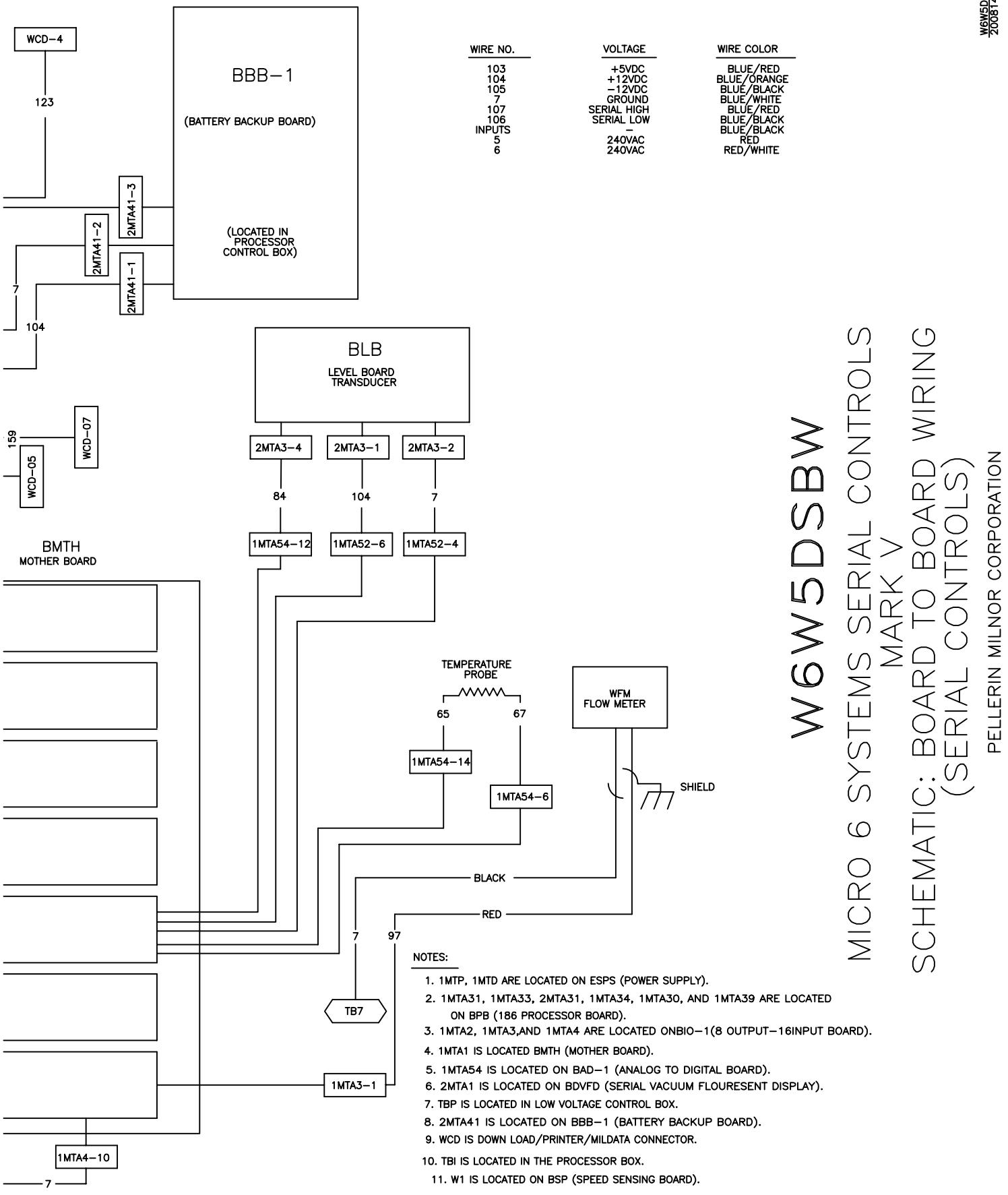
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

10 11 12 13 14 15 16 17



W6W5DSBW
2008142B



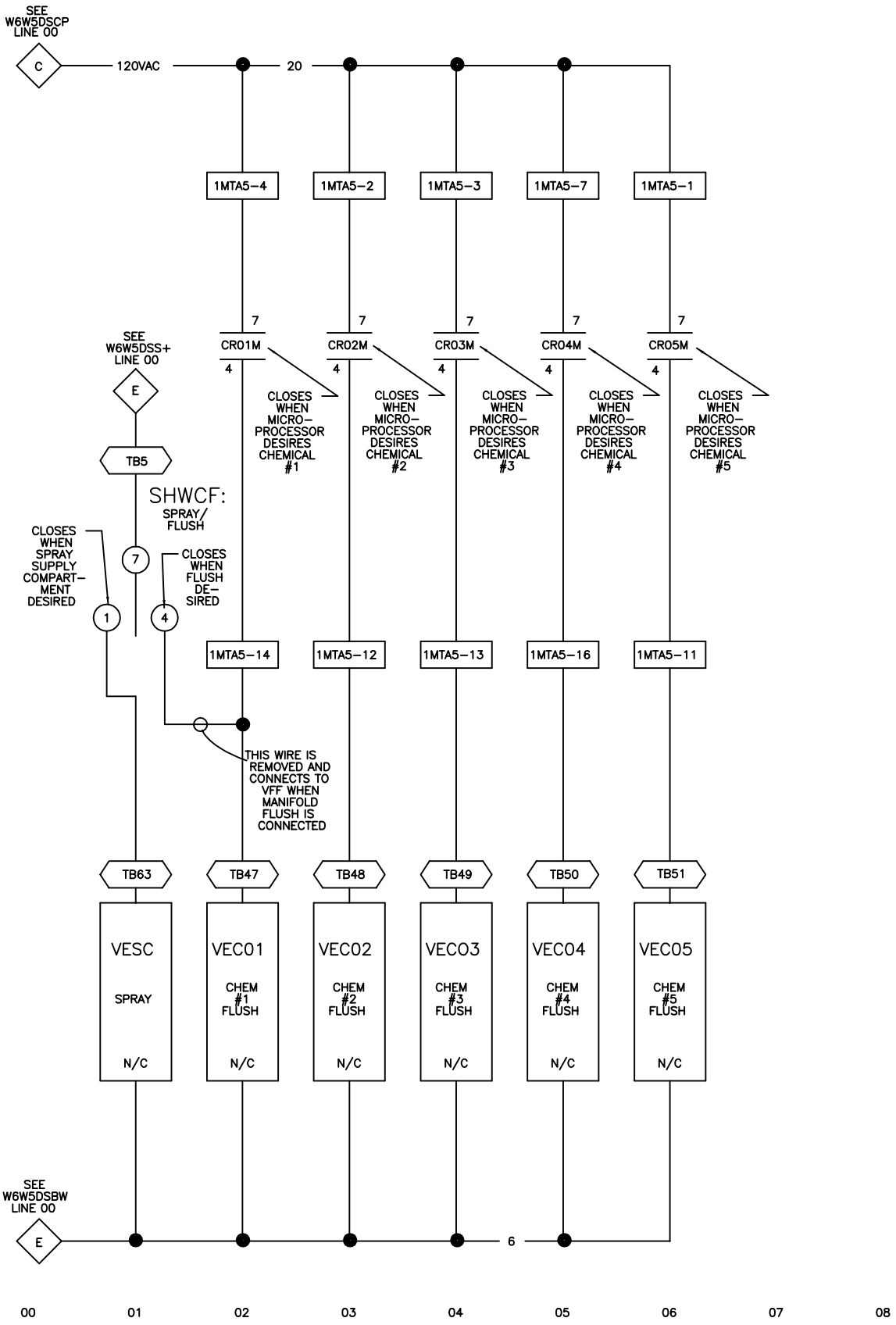
WIRE NO.	VOLTAGE	WIRE COLOR
103	+5VDC	BLUE/RED
104	+12VDC	BLUE/ORANGE
105	–12VDC	BLUE/BLACK
7	GROUND	BLUE/WHITE
107	SERIAL HIGH	BLUE/RED
106	SERIAL LOW	BLUE/BLACK
INPUTS	–	BLUE/BLACK
5	240VAC	RED
6	240VAC	RED/WHITE

W6W5DSBW
MICRO 6 SYSTEMS SERIAL CONTROLS MARK V
SCHEMATIC: BOARD TO BOARD WIRING (SERIAL CONTROLS)

PELLERIN MILNOR CORPORATION

NOTES:

1. 1MTP, 1MTD ARE LOCATED ON ESPS (POWER SUPPLY).
2. 1MTA31, 1MTA33, 2MTA31, 1MTA34, 1MTA30, AND 1MTA39 ARE LOCATED ON BPB (186 PROCESSOR BOARD).
3. 1MTA2, 1MTA3,AND 1MTA4 ARE LOCATED ONBIO–1(8 OUTPUT–16INPUT BOARD).
4. 1MTA1 IS LOCATED BMTH (MOTHER BOARD).
5. 1MTA54 IS LOCATED ON BAD–1 (ANALOG TO DIGITAL BOARD).
6. 2MTA1 IS LOCATED ON BDVFD (SERIAL VACUUM FLOURESENT DISPLAY).
7. TBP IS LOCATED IN LOW VOLTAGE CONTROL BOX.
8. 2MTA41 IS LOCATED ON BBB–1 (BATTERY BACKUP BOARD).
9. WCD IS DOWN LOAD/PRINTER/MILDATA CONNECTOR.
10. TBI IS LOCATED IN THE PROCESSOR BOX.
11. W1 IS LOCATED ON BSP (SPEED SENSING BOARD).


SEE W6W5DSCP LINE 00
C
120VAC
20
1MTA5–4
1MTA5–2
1MTA5–3
1MTA5–7
1MTA5–1
7
CR01M
CR02M
CR03M
CR04M
CR05M
4
SEE W6W5DSS+ LINE 00
E
TB5
SHWCF:
SPRAY/ FLUSH
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEMICAL #1
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEMICAL #2
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEMICAL #3
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEMICAL #4
CLOSES WHEN MICRO–PROCESSOR DESIRES CHEMICAL #5
CLOSES WHEN SPRAY SUPPLY COMPART–MENT DESIRED
CLOSES WHEN FLUSH DE–SIRED
7
1
4
1MTA5–14
1MTA5–12
1MTA5–13
1MTA5–16
1MTA5–11
THIS WIRE IS REMOVED AND CONNECTS TO VFF WHEN MANIFOLD FLUSH IS CONNECTED
TB63
TB47
TB48
TB49
TB50
TB51
VESC
SPRAY
N/C
VEC01
CHEM #1 FLUSH
N/C
VEC02
CHEM #2 FLUSH
N/C
VEC03
CHEM #3 FLUSH
N/C
VEC04
CHEM #4 FLUSH
N/C
VEC05
CHEM #5 FLUSH
N/C
SEE W6W5DSBW LINE 00
E
6
00
01
02
03
04
05
06
07
08

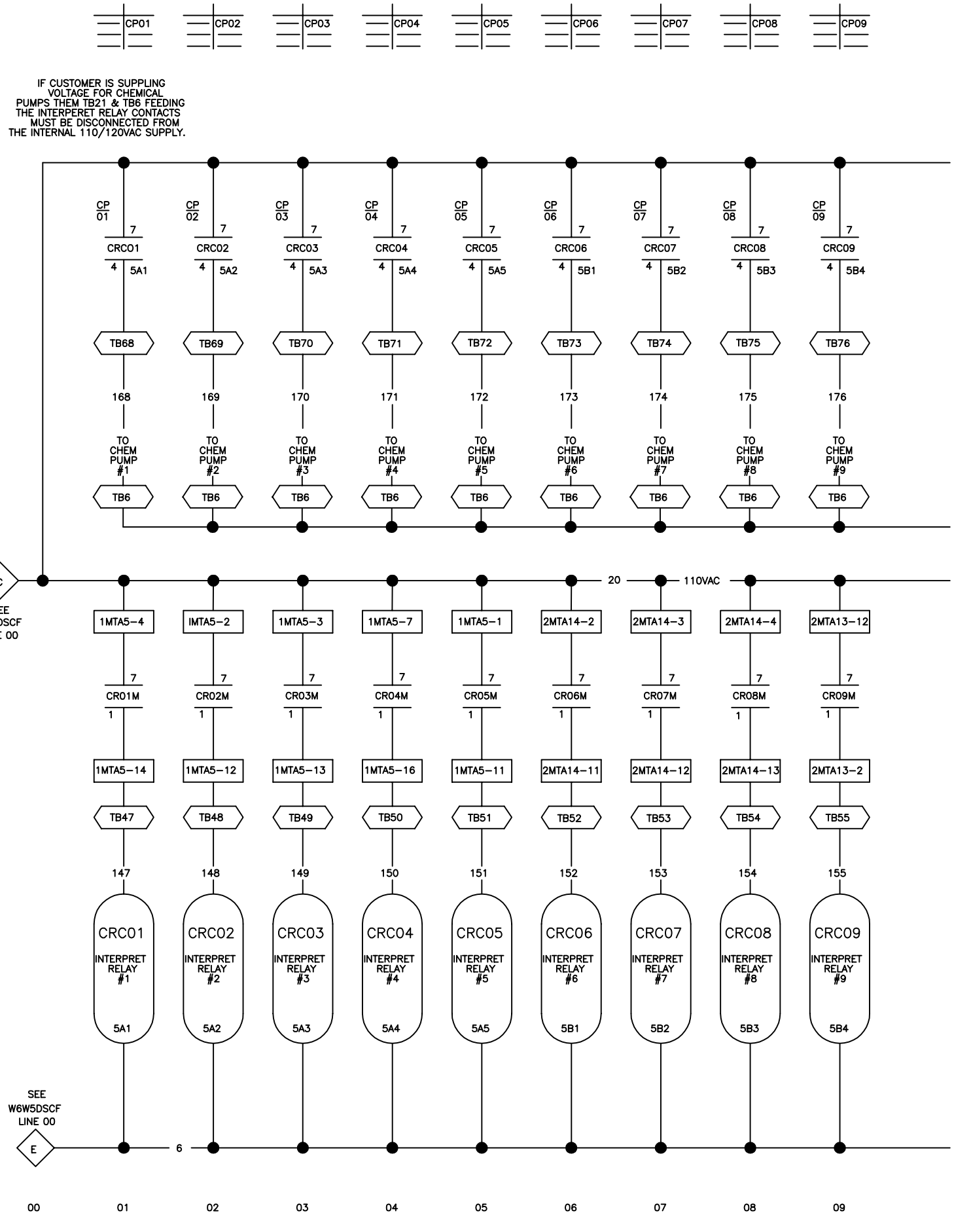
W6W5DSCF

MICRO 6 SYSTEMS
MARK V
SCHEMATIC: FLUSHING SUPPLIES
(SERIAL CONTROLS)

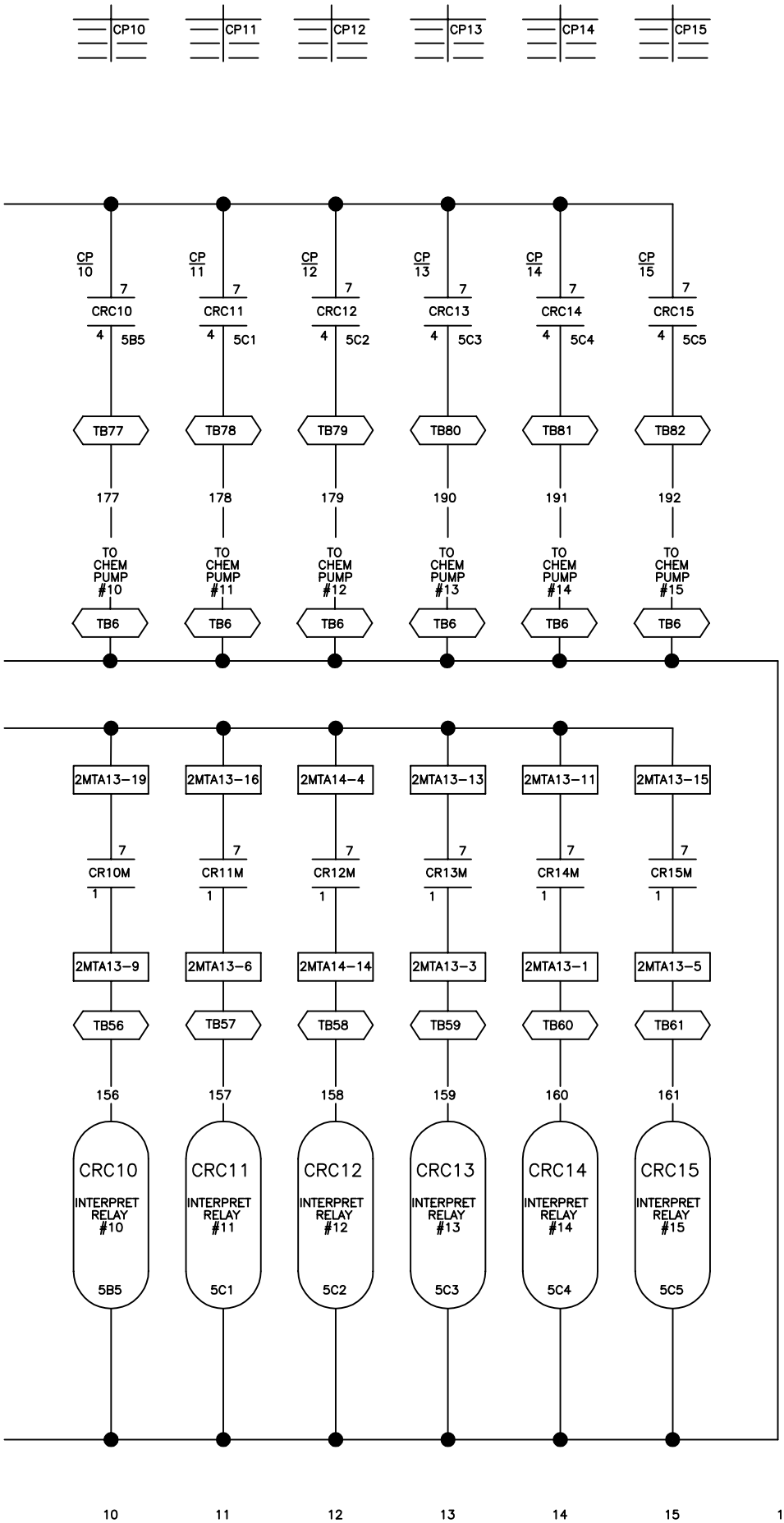
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

W6W5DSCF
2005404B



W6W5DSCP
2005404B



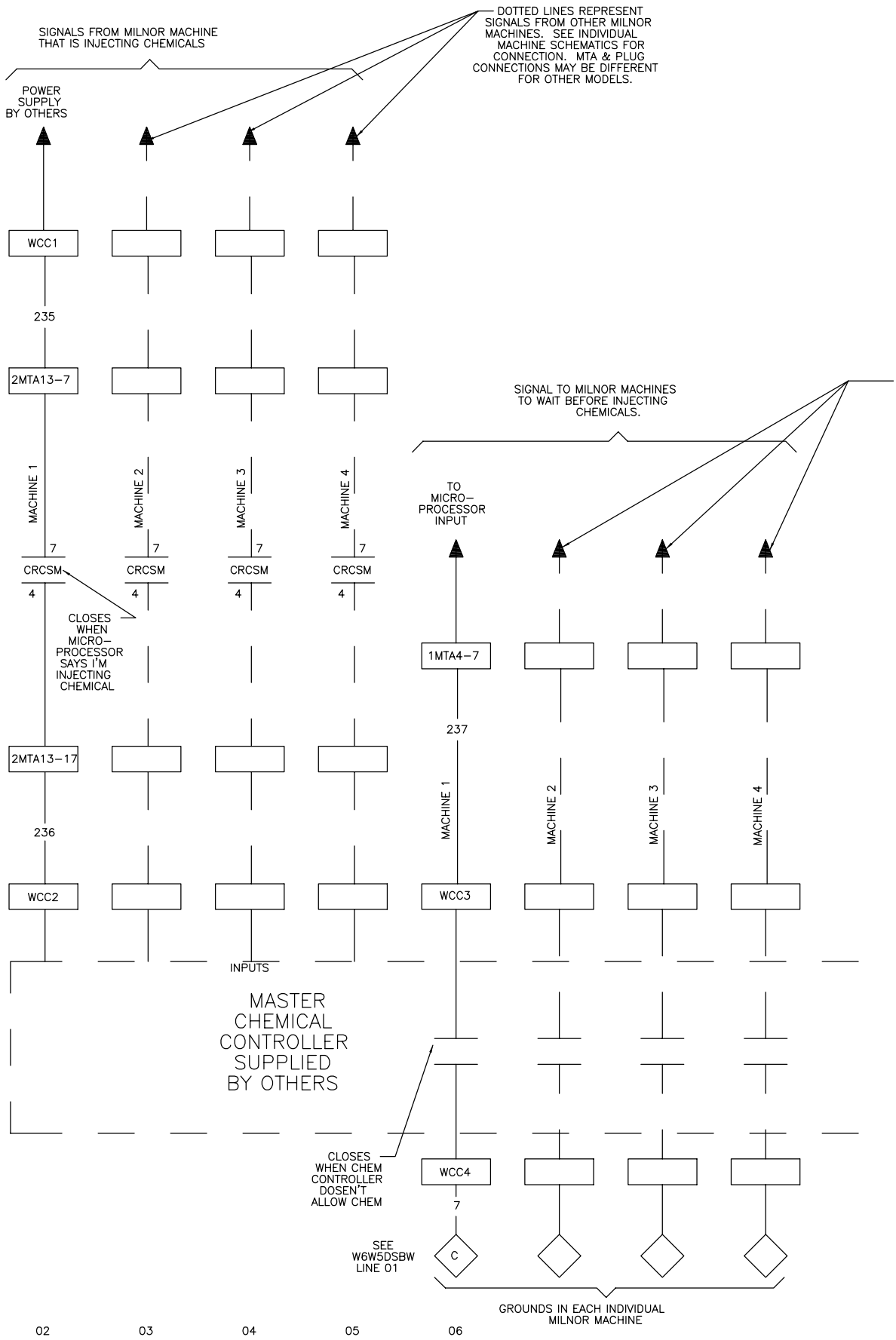
W6W5DSCP

MICRO 6 SYSTEMS SERIAL CONTROLS

SCHEMATIC: LIQUID SUPPLY—INTERPRET RELAYS

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION


SIGNALS FROM MILNOR MACHINE THAT IS INJECTING CHEMICALS
DOTTED LINES REPRESENT SIGNALS FROM OTHER MILNOR MACHINES. SEE INDIVIDUAL MACHINE SCHEMATICS FOR CONNECTION. MTA & PLUG CONNECTIONS MAY BE DIFFERENT FOR OTHER MODELS.
POWER SUPPLY BY OTHERS
WCC1
235
2MTA13–7
MACHINE 1
MACHINE 2
MACHINE 3
MACHINE 4
7
CRCSM
4
CLOSES WHEN MICRO–PROCESSOR SAYS I'M INJECTING CHEMICAL
2MTA13–17
236
WCC2
SIGNAL TO MILNOR MACHINES TO WAIT BEFORE INJECTING CHEMICALS.
TO MICRO–PROCESSOR INPUT
1MTA4–7
237
WCC3
INPUTS
MASTER CHEMICAL CONTROLLER SUPPLIED BY OTHERS
CLOSES WHEN CHEM CONTROLLER DOSEN'T ALLOW CHEM
WCC4
SEE W6W5DSBW LINE 01
C
GROUNDS IN EACH INDIVIDUAL MILNOR MACHINE
00
01
02
03
04
05
06

DOTTED LINES REPRESENT SIGNALS TO OTHER MILNOR MACHINES SEE INDIVIDUAL MACHINE SCHEMATICS FOR CONNECTION. MTA & PLUG CONNECTIONS MAY BE DIFFERENT FOR OTHER MODELS.

W6W5DSCS

MICRO 6 SYSTEMS

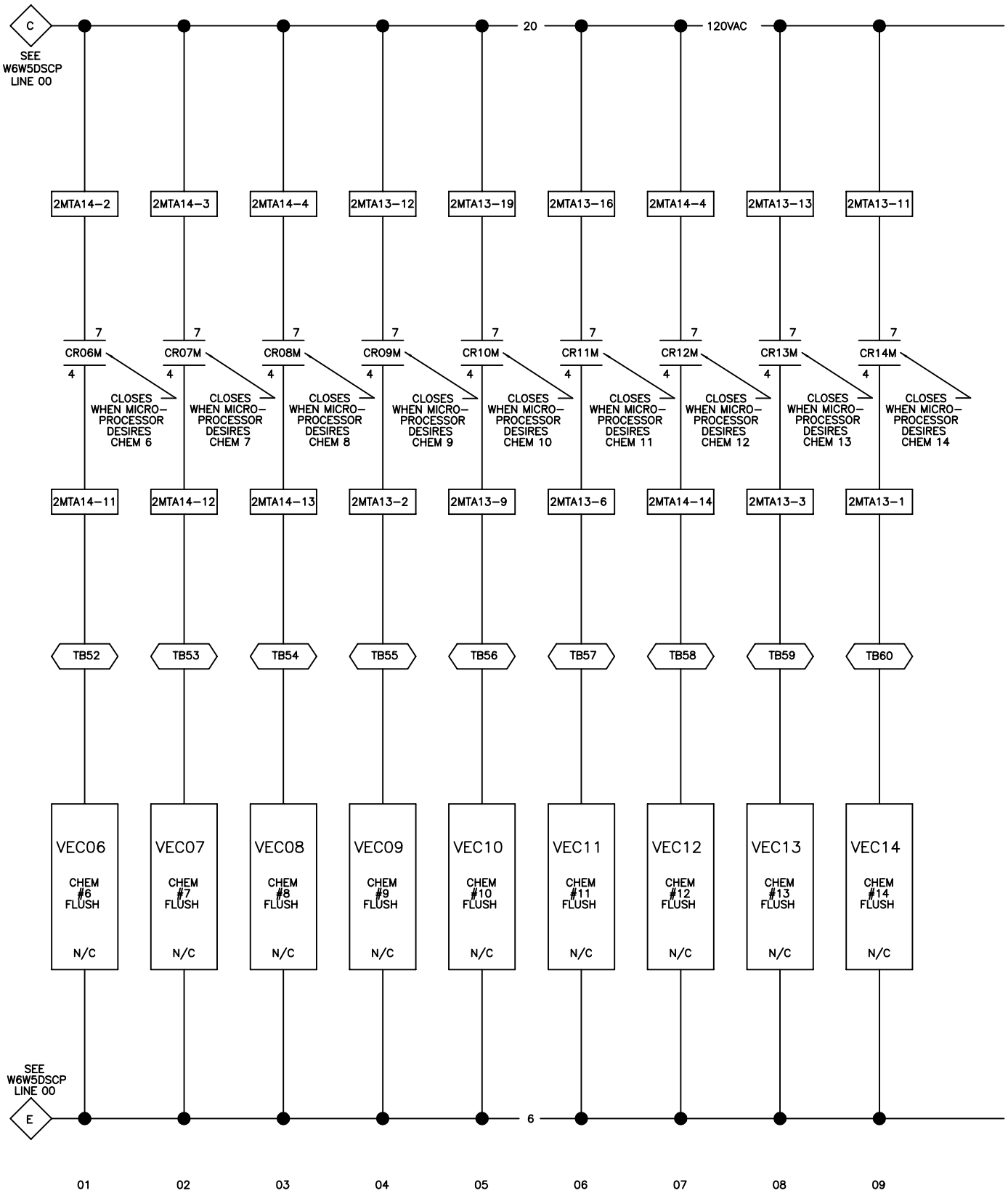
MARK V

SCHEMATIC: CHEMICAL SAVE (OPTIONAL)

PELLERIN MILNOR CORPORATION

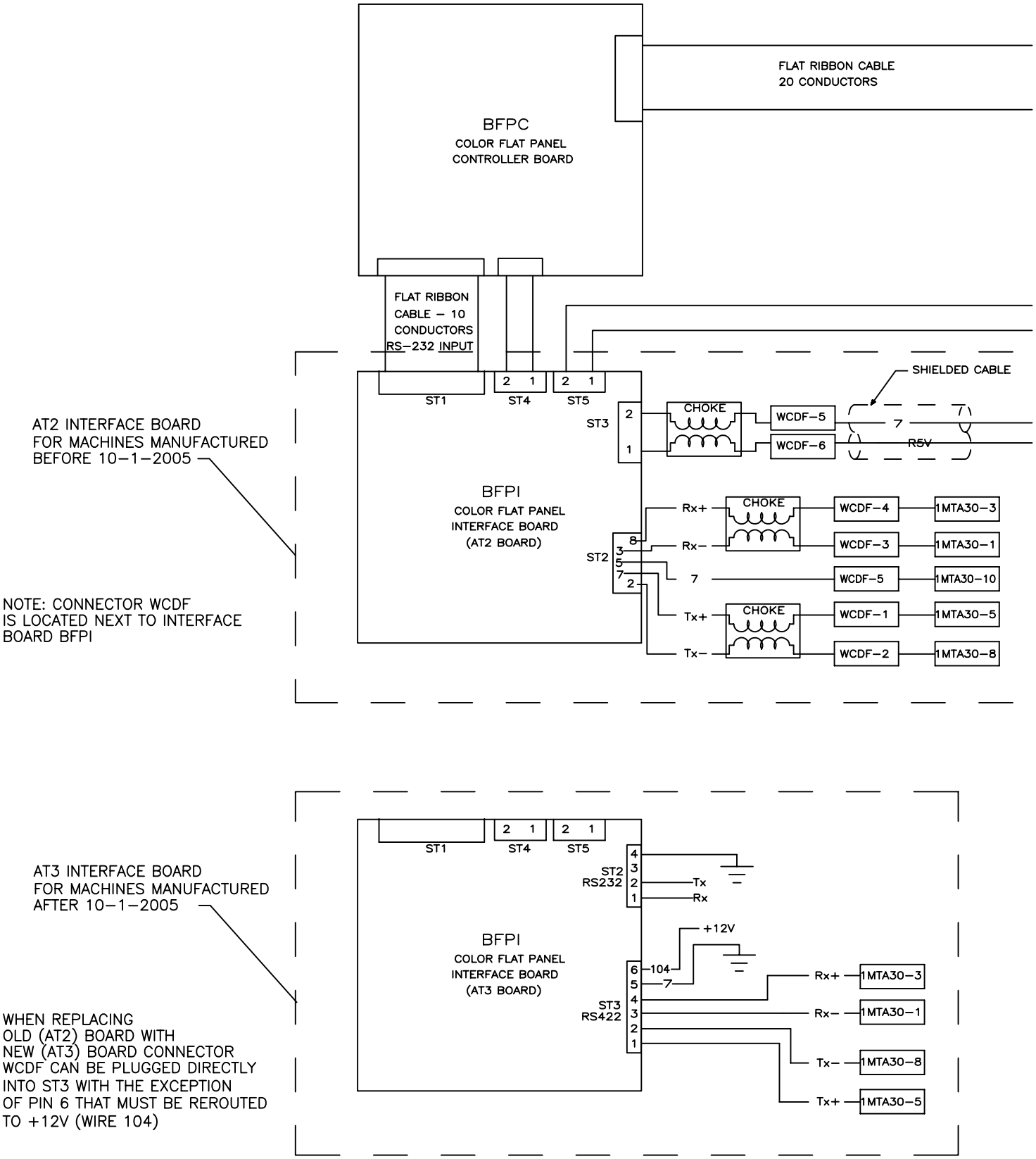
NOTES:

1. WCC IS LOCATED IN THE RIGHT CONTROL BOX ON THIS MODEL MACHINE.
2. CONTACT CRCSM MUST BE INTERPRETED BY THE CHEMICAL SEQUENCER (SUPPLIED BY OTHERS) AND IT MUST SIGNAL ALL OTHER MILNOR MACHINES TO WAIT BEFORE THEY INJECT CHEMICALS.


C
SEE W6W5DSCP 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 W6W5DSCP LINE 00
E
6
00
01
02
03
04
05
06
07
08
09

W6W5DSCX
MICRO 6 SYSTEMS
SERIAL CONTROLS
MARK V
SCHEMATIC: CENTRAL LIQUID SUPPLY FLUSH
6 THRU 15

PELLERIN MILNOR CORPORATION



W6W5DSDF
2008043B

NOTES

1. 1MTA30 IS LOCATED ON BPB (PROCESSOR BOARD).
2. ST1 THROUGH ST5 IS LOCATED ON BFPI COLOR FLAT PANEL INTERFACE BOARD.

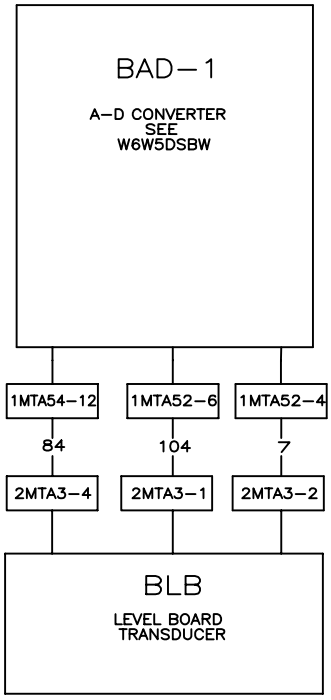
W6W5DSDF

MICRO 6 SYSTEMS
MARK V

SCHEMATIC: COLOR FLAT PANEL DISPLAY

PELLERIN MILNOR CORPORATION

10 11 12 13 14 15 16 17 18

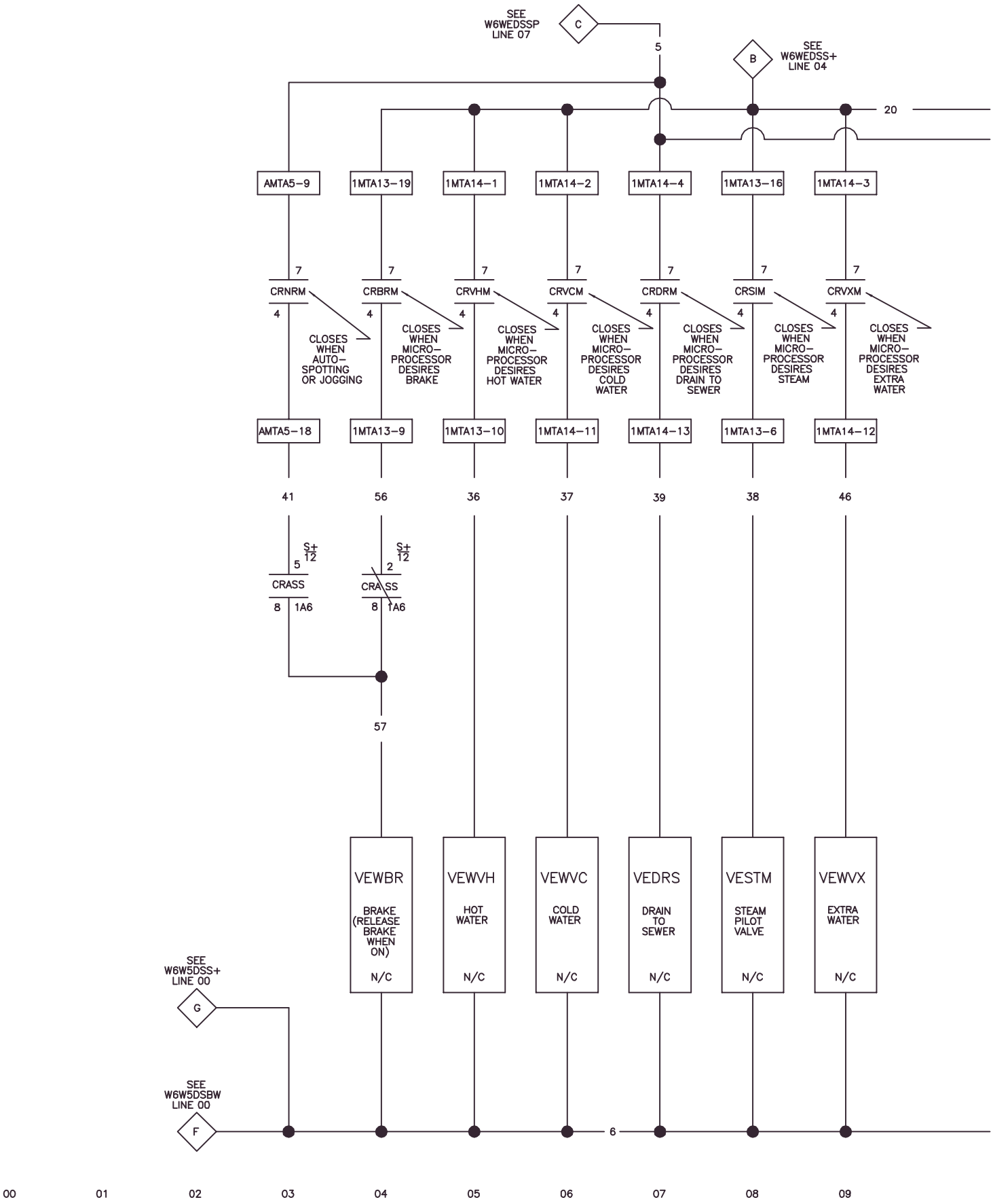

BAD–1
A–D CONVERTER
SEE
W6W5DSBW
1MTA54–12
1MTA52–6
1MTA52–4
84
104
7
2MTA3–4
2MTA3–1
2MTA3–2
BLB
LEVEL BOARD
TRANSDUCER

W6W5DSEC

MICRO 6 SYSTEMS
SERIAL CONTROLS
MARK VI
SCHEMATIC: ELECTRONIC RPM/LEVEL

PELLERIN MILNOR CORPORATION

W6W5DSEC
2007424B



W6W5DSEV
2005404B

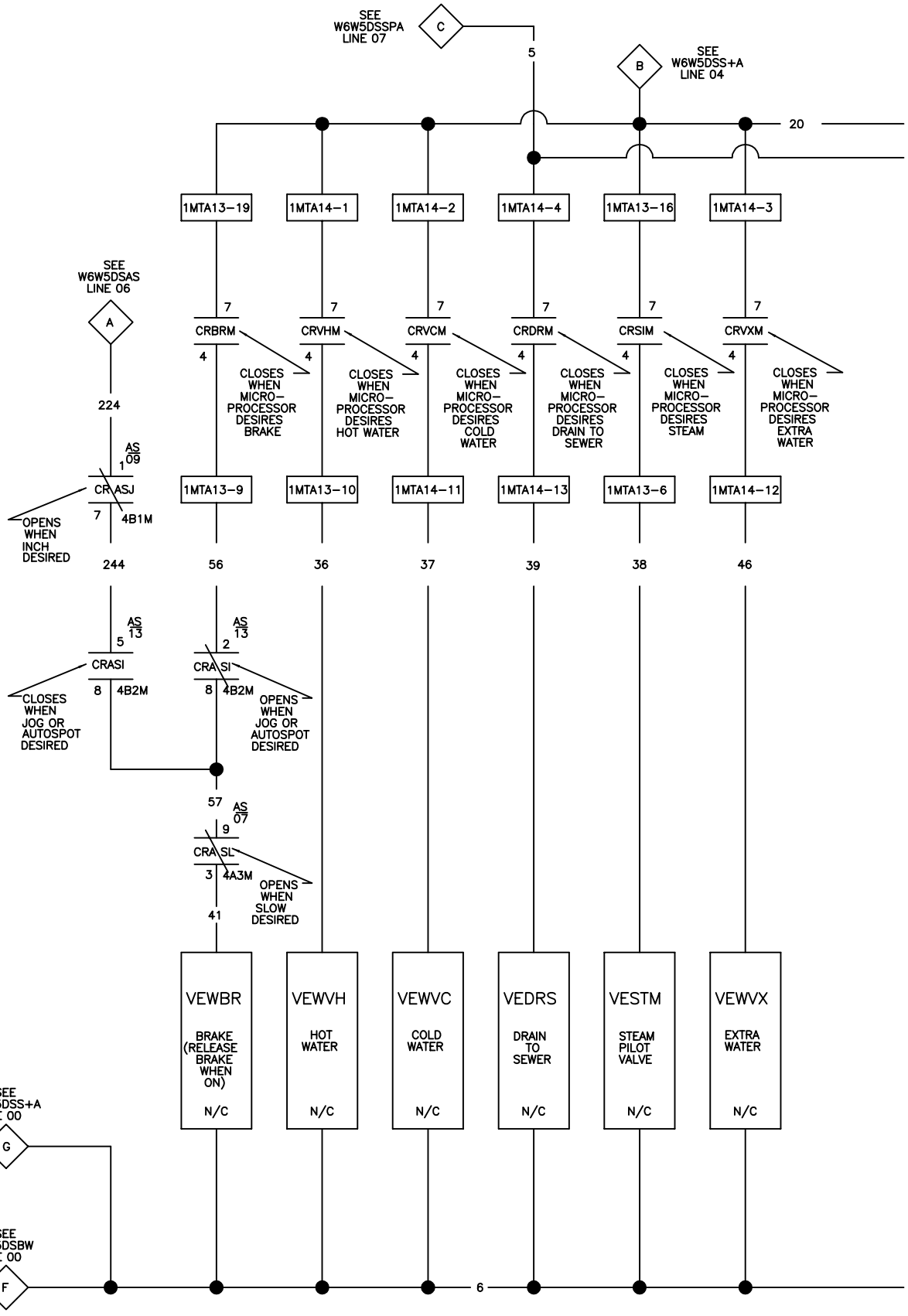
W6W5DSEV

MICRO 6 SYSTEMS MARK V

SHCEMATIC: ELECTRICAL VALVES (SERIAL CONTROLS)

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION



W6W5DSEVA
2007424B

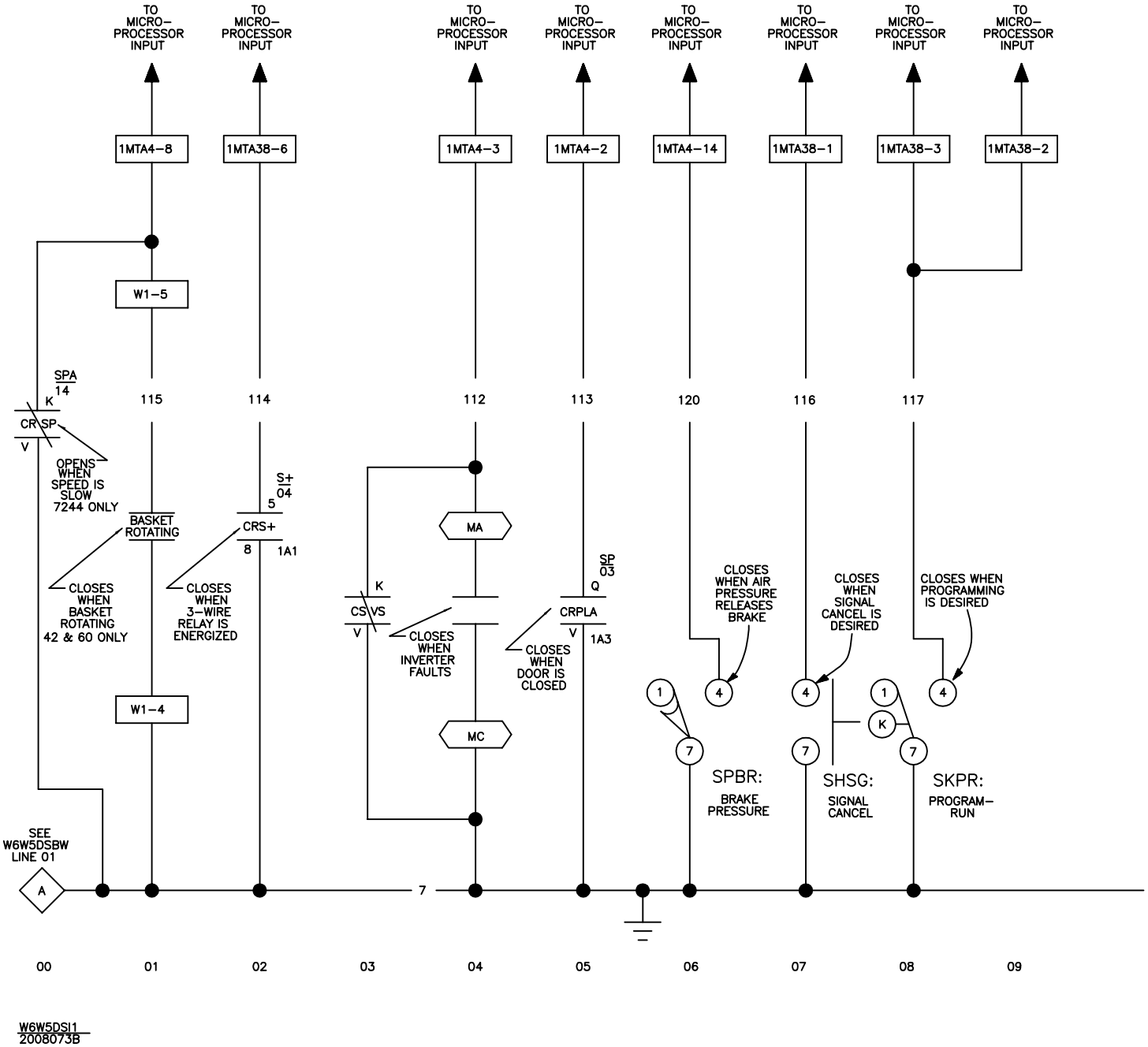
W6W5DSEVA

MICRO 6 SYSTEMS MARK VI

SHCEMATIC: ELECTRICAL VALVES FOR 7244WP2/3 ONLY

110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

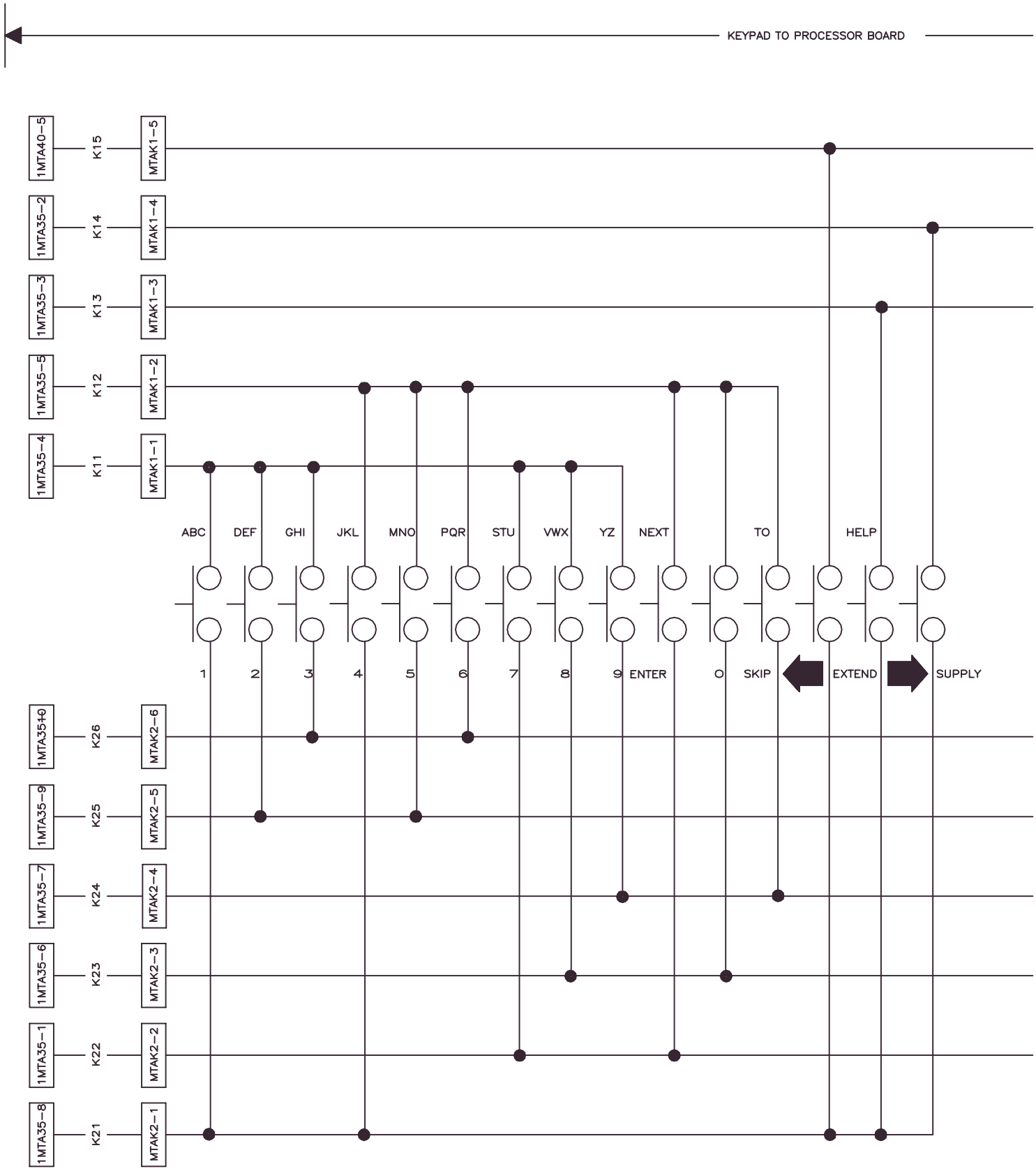


W6W5DSI1
2008073B

W6W5DSI1

MICRO 6 SYSTEMS
MARK VI
SCHEMATIC: MICROPROCESSOR INPUTS (SERIAL CONTROLS)

PELLERIN MILNOR CORPORATION



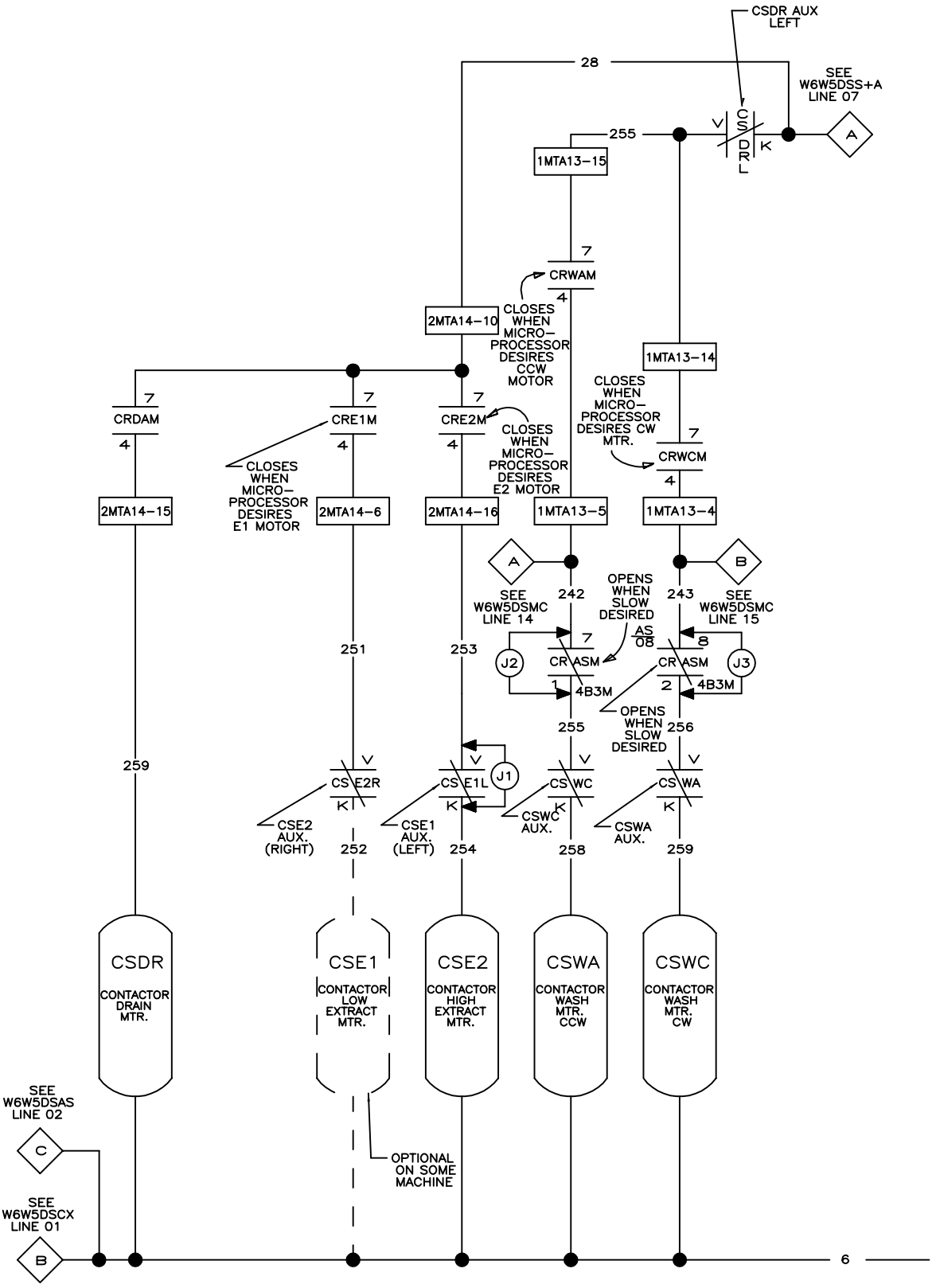
W6W5DSKP
2005404B

W6W5DSKP
MICRO 6 SYSTEMS
MARK V
SCHEMATIC: KEYPAD (SERIAL CONTROLS)
PELLERIN MILNOR CORPORATION

NOTES:

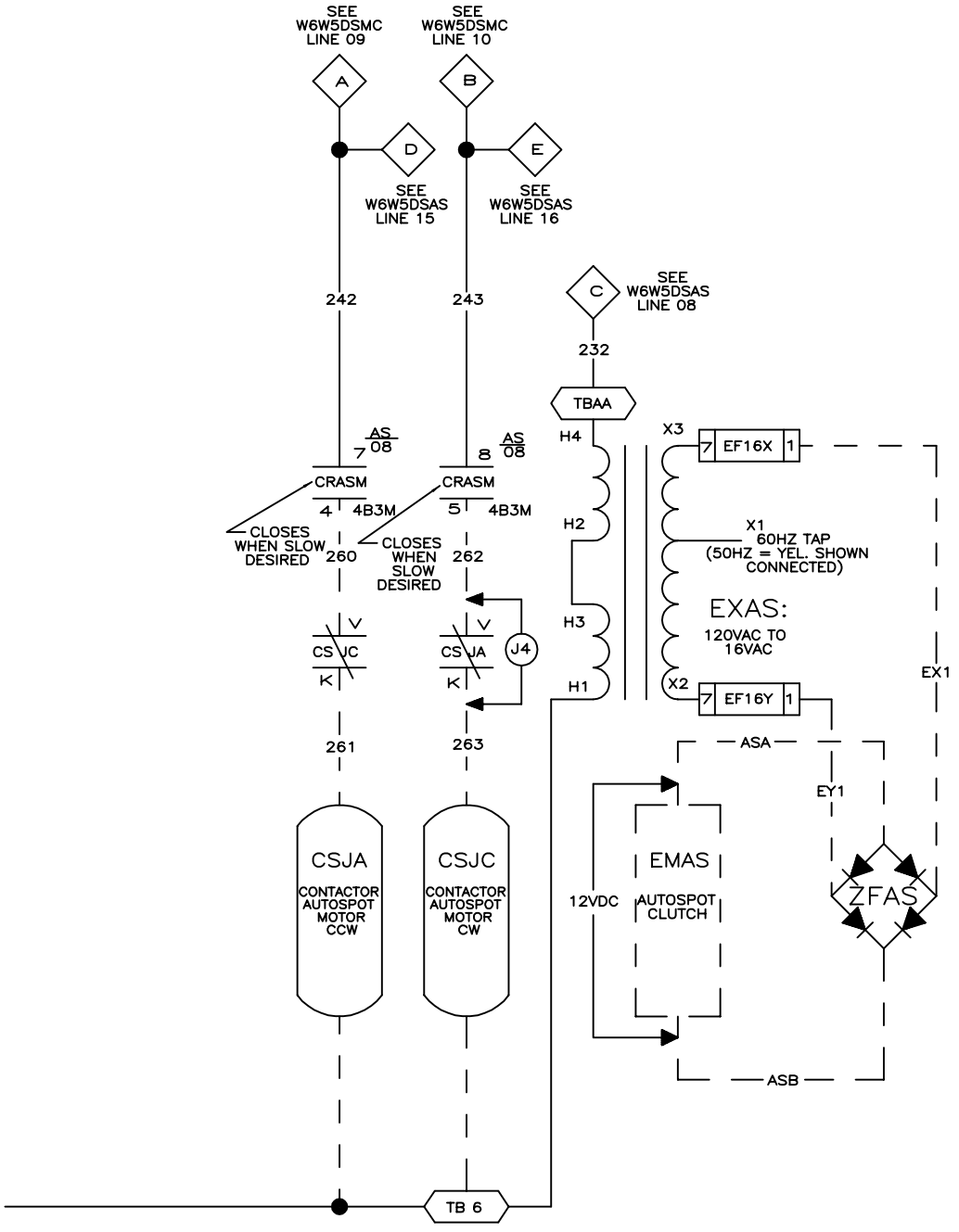
1. MTAK1 & MTAK2 ARE LOCATED ON KEYPAD.
2. 1MTA35 & 1MTA40 ARE LOCATED ON BPB (PROCESSOR BOARD).

11 12 13 14 15 16 17 18 19


CSDR AUX LEFT
28
SEE W6W5DSS+A LINE 07
255
CSDR
1MTA13-15
7
CRWAM
4
2MTA14-10
CLOSES WHEN MICRO-PROCESSOR DESIRES CCW MOTOR
1MTA13-14
CLOSES WHEN MICRO-PROCESSOR DESIRES CW MTR.
7
CRWCM
4
7
CRDAM
4
2MTA14-15
7
CRE1M
4
CLOSES WHEN MICRO-PROCESSOR DESIRES E1 MOTOR
2MTA14-6
7
CRE2M
4
CLOSES WHEN MICRO-PROCESSOR DESIRES E2 MOTOR
2MTA14-16
1MTA13-5
1MTA13-4
A
SEE W6W5DSMC LINE 14
242
B
243
SEE W6W5DSMC LINE 15
OPENS WHEN SLOW DESIRED
AS 08
7
CR ASM
1
4B3M
J2
8
CR ASM
2
4B3M
J3
OPENS WHEN SLOW DESIRED
251
253
255
256
259
CS E2R
CS E1L
J1
CS WC
CS WA
CSE2 AUX. (RIGHT)
CSE1 AUX. (LEFT)
CSWC AUX.
CSWA AUX.
252
254
258
259
CSDR
CONTACTOR DRAIN MTR.
CSE1
CONTACTOR LOW EXTRACT MTR.
CSE2
CONTACTOR HIGH EXTRACT MTR.
CSWA
CONTACTOR WASH MTR. CCW
CSWC
CONTACTOR WASH MTR. CW
SEE W6W5DSAS LINE 02
C
SEE W6W5DSCX LINE 01
B
OPTIONAL ON SOME MACHINE
6
00
01
02
03
04
05
06
07
08
09
10

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



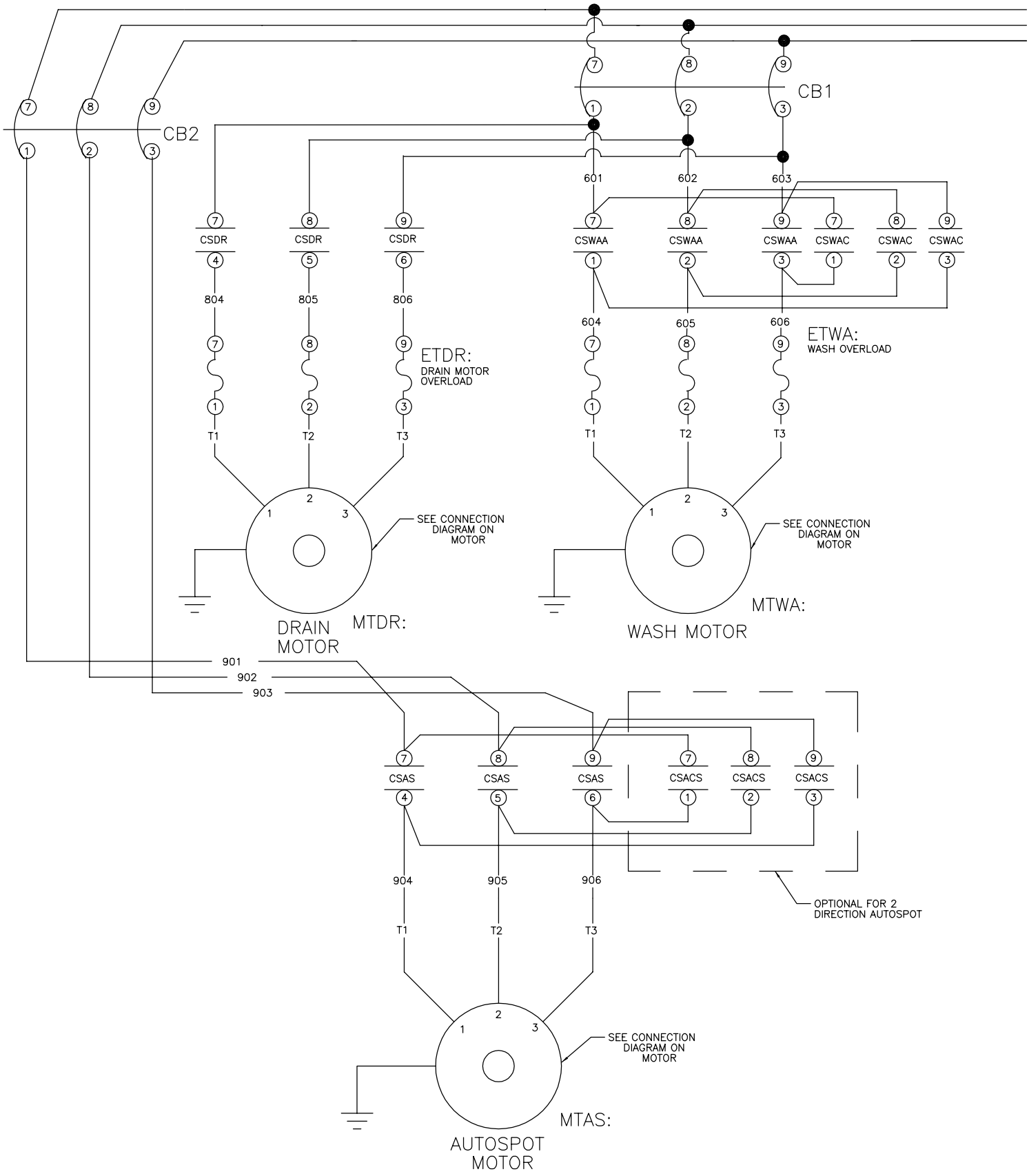
W6W5DSMC

MICRO 6 SYSTEMS MARKVI

SCHEMATIC: DRIVE MOTOR CONTACTORS FOR 7244WP2/3 ONLY

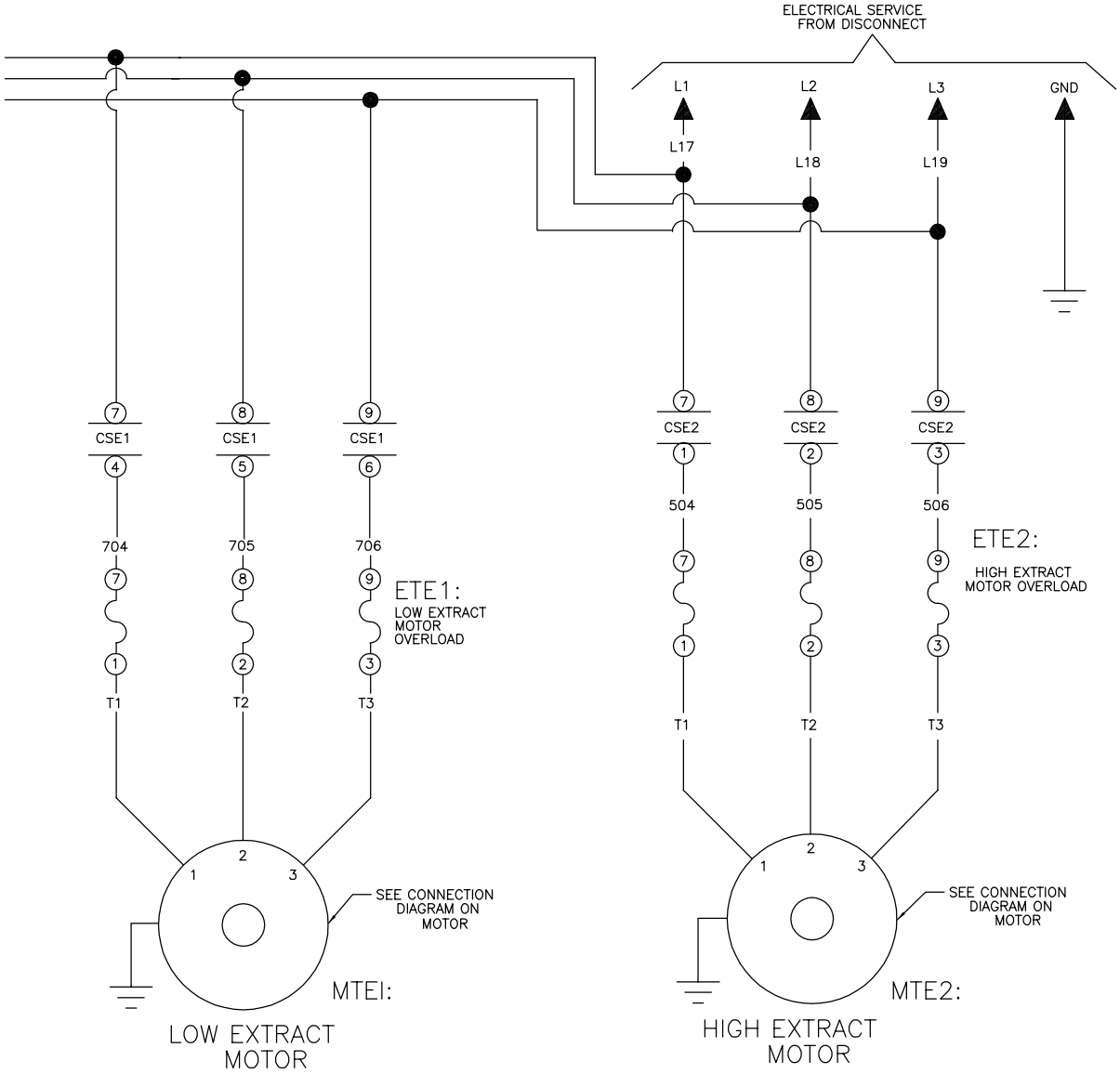
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION



00 01 02 03 04 05 06 07 08 09 10

W6W5DSMTA
2007424B



NOTE:

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

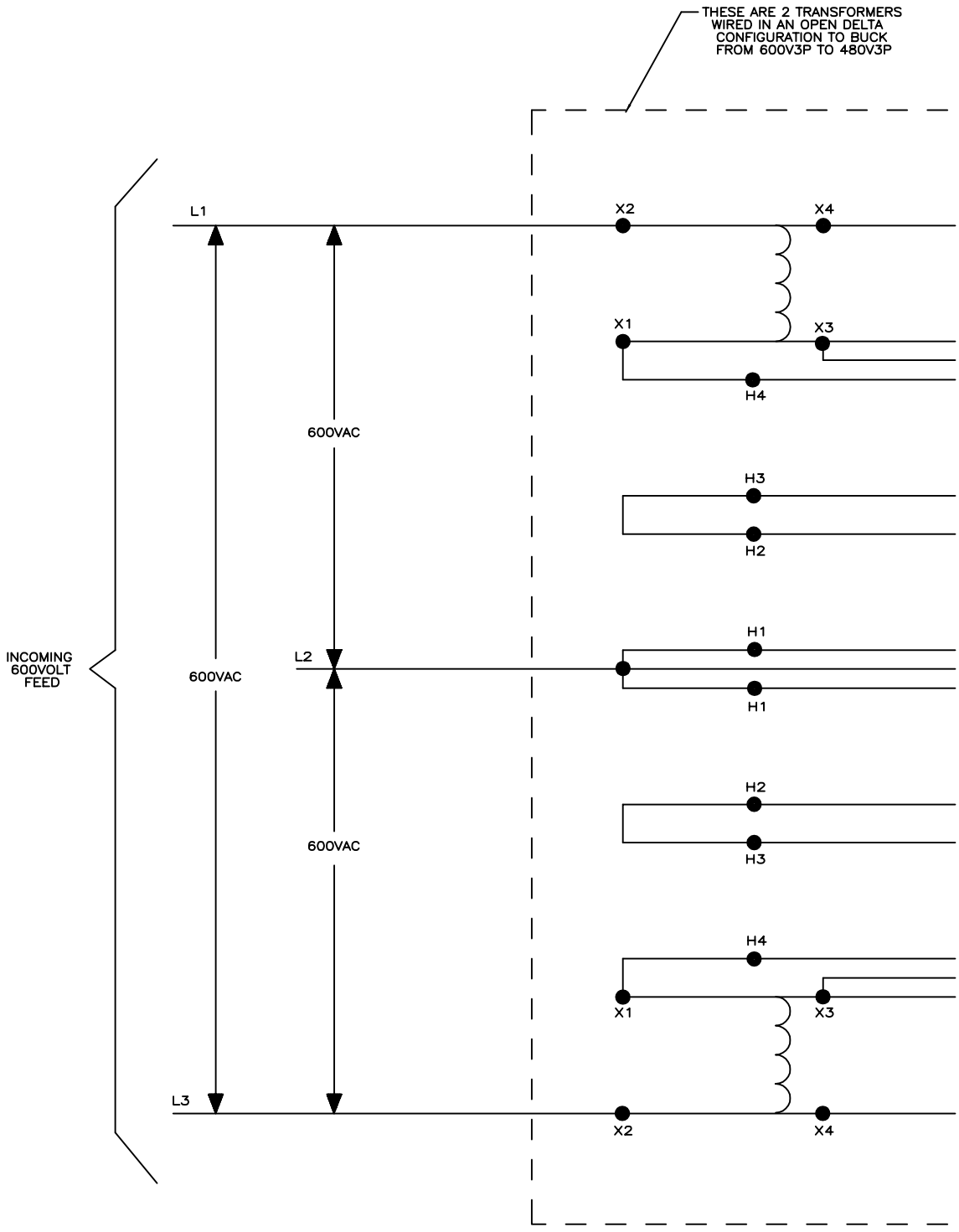
W6W5DSMTA
MICRO 6 SYSTEMS
MARK VI
SCHEMATIC: 7244WP2/3 MOTOR CONNECTIONS

PELLERIN MILNOR CORPORATION

W6W5DSMTA
2007424B

11 12 13 14 15 16 17 18 19

W6W5DSMTA
2007424B



00 01 02 03 04 05 06 07 08 09 10

W6W5DSMT6
2005404B

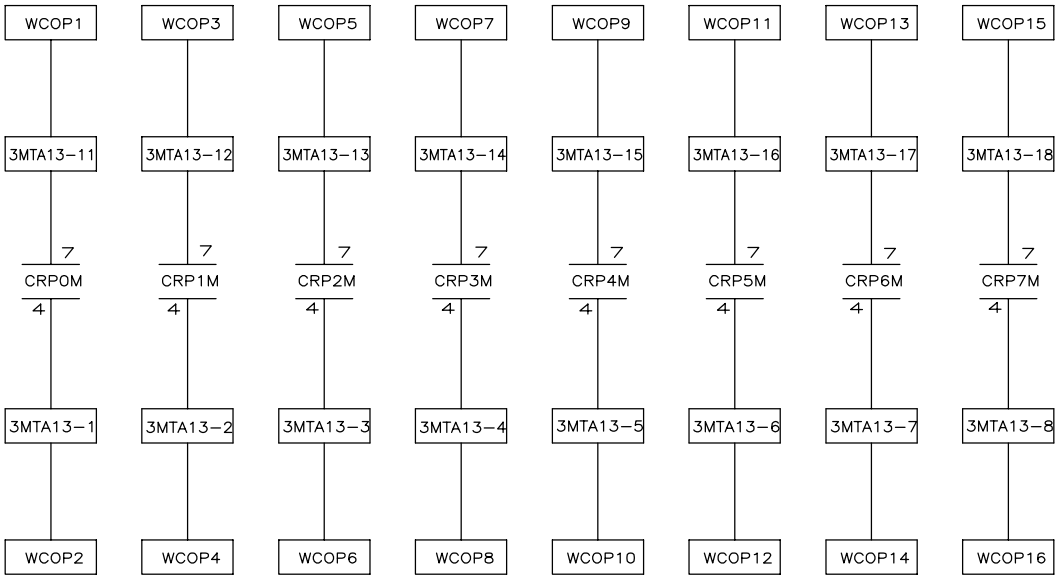
W6W5DSMT6

MICRO 6 SYSTEMS MARK V

SCHEMATIC: 600V VARIABLE SPEED

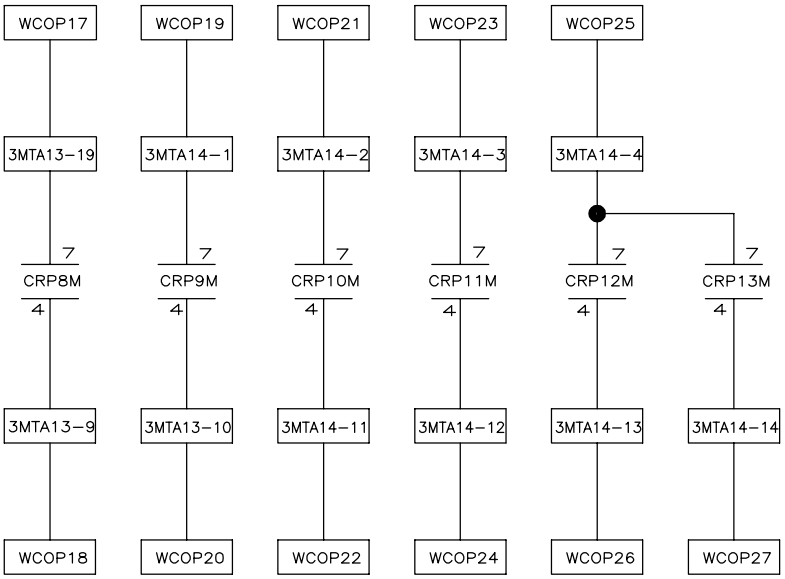
PELLERIN MILNOR CORPORATION

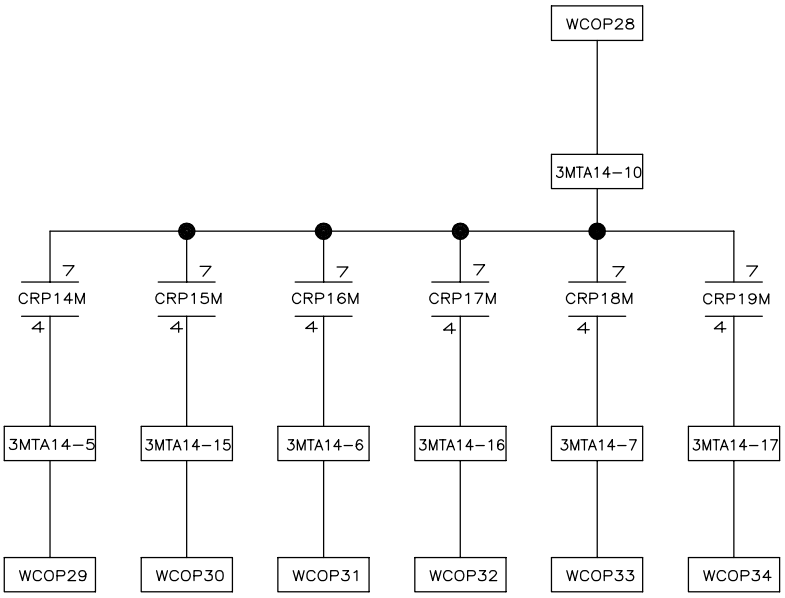
11 12 13 14 15 16 17



00 01 02 03 04 05 06 07 08

W6W5DSOP
2008142B





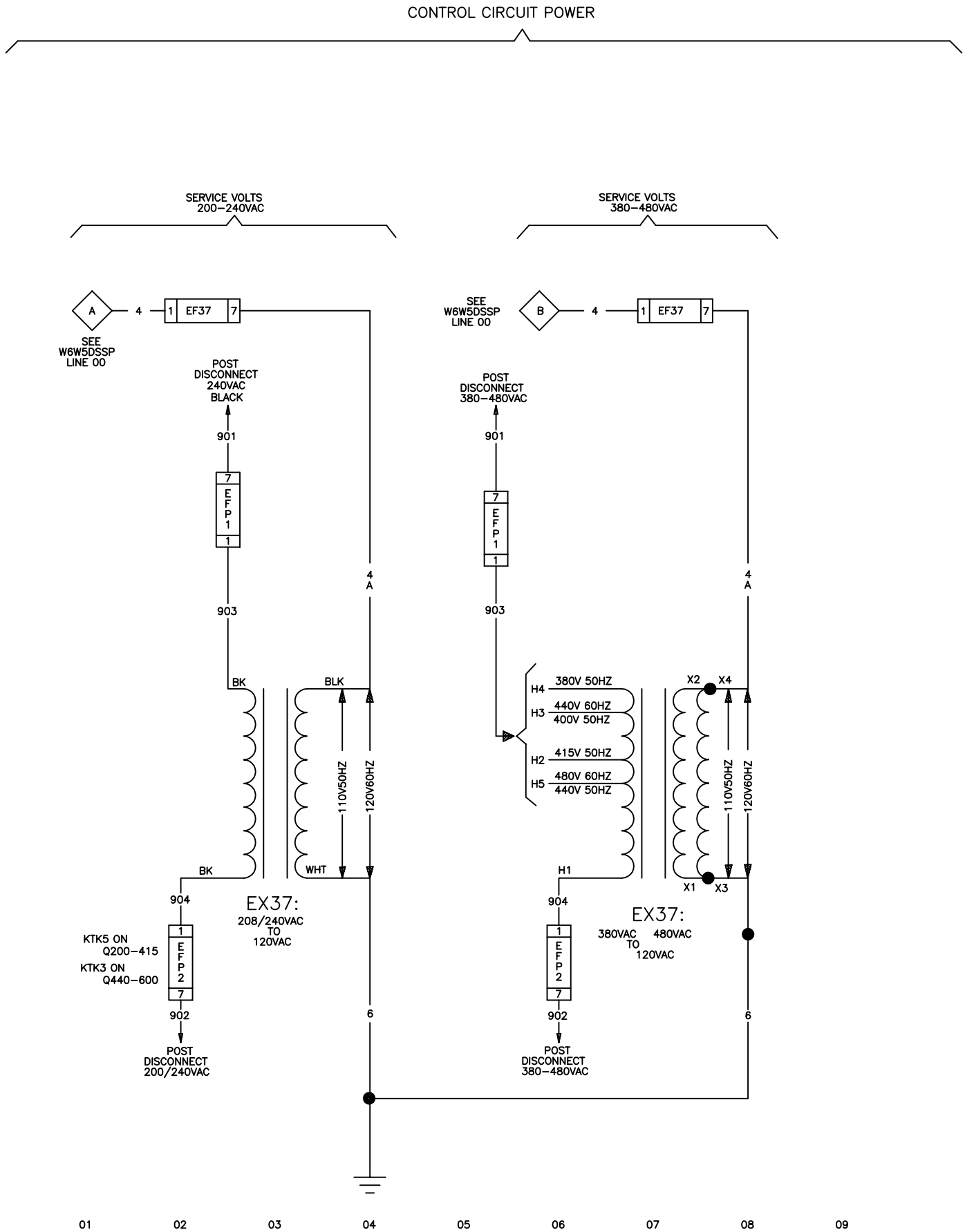
W6W5DSOP

MICRO 6 SYSTEMS SERIAL CONTROLS

SCHEMATIC: 20 OPTIONAL PROGRAMABLE OUTPUTS

PELLERIN MILNOR CORPORATION

09 10 11 12 13 14 15 16 17



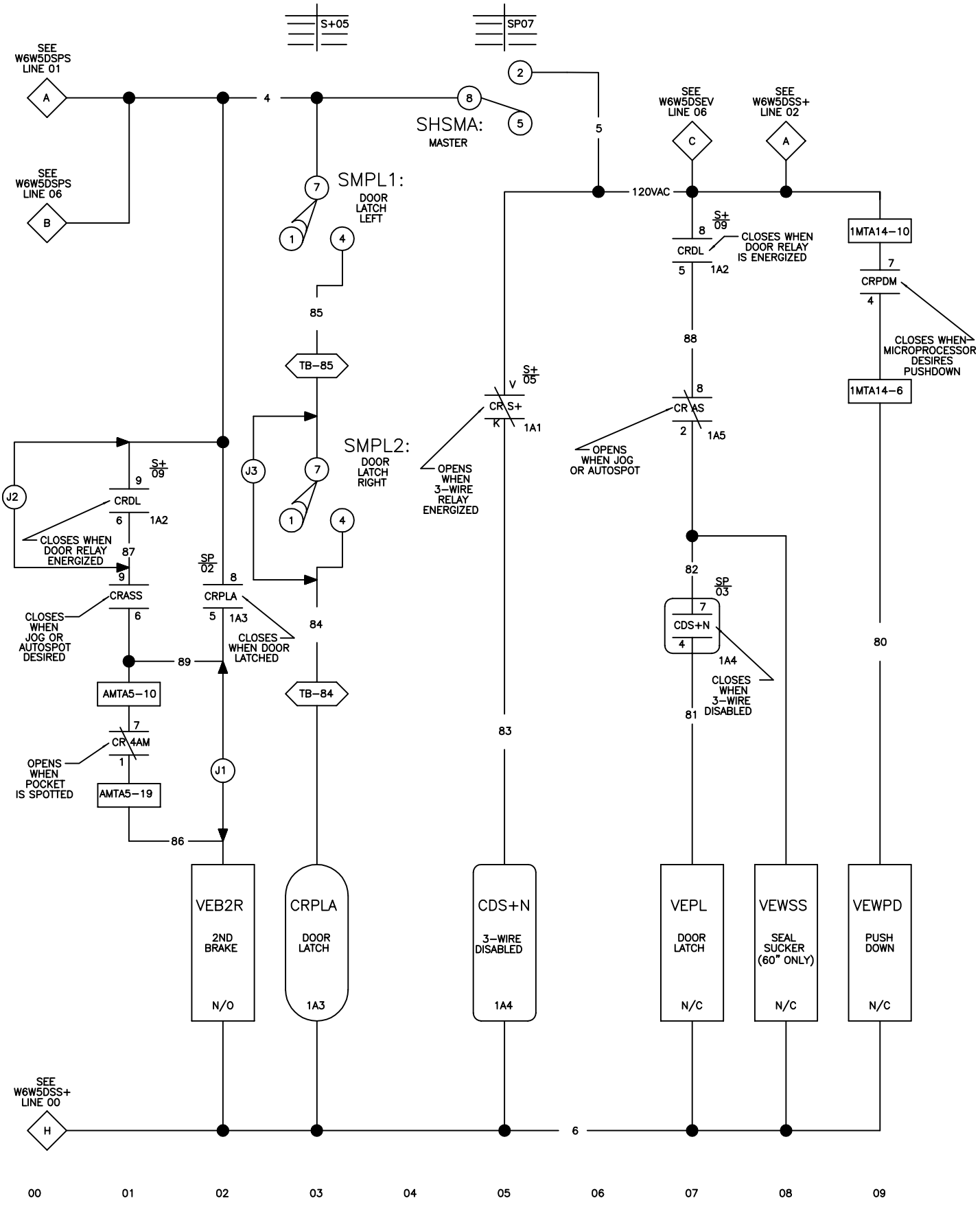
W6W5DSPS
2005463B

W6W5DSPS

MICRO 6 SYSTEMS
SERIAL CONTROLS
MARK V
SCHEMATIC:SOURCE 110V1P50HZ/120V1P60HZ
CONTROL CIRCUIT POWER

PELLERIN MILNOR CORPORATION

W6W5DSPS
2005463B



W6W5DSSP
2008073B

W6W5DSSP

MICRO 6 SYSTEMS
MARK V
SCHEMATIC: DOOR CIRCUITS, & MASTER SWITCH (SERIAL CONTROLS)

110V1P50HZ/120V1P60HZ

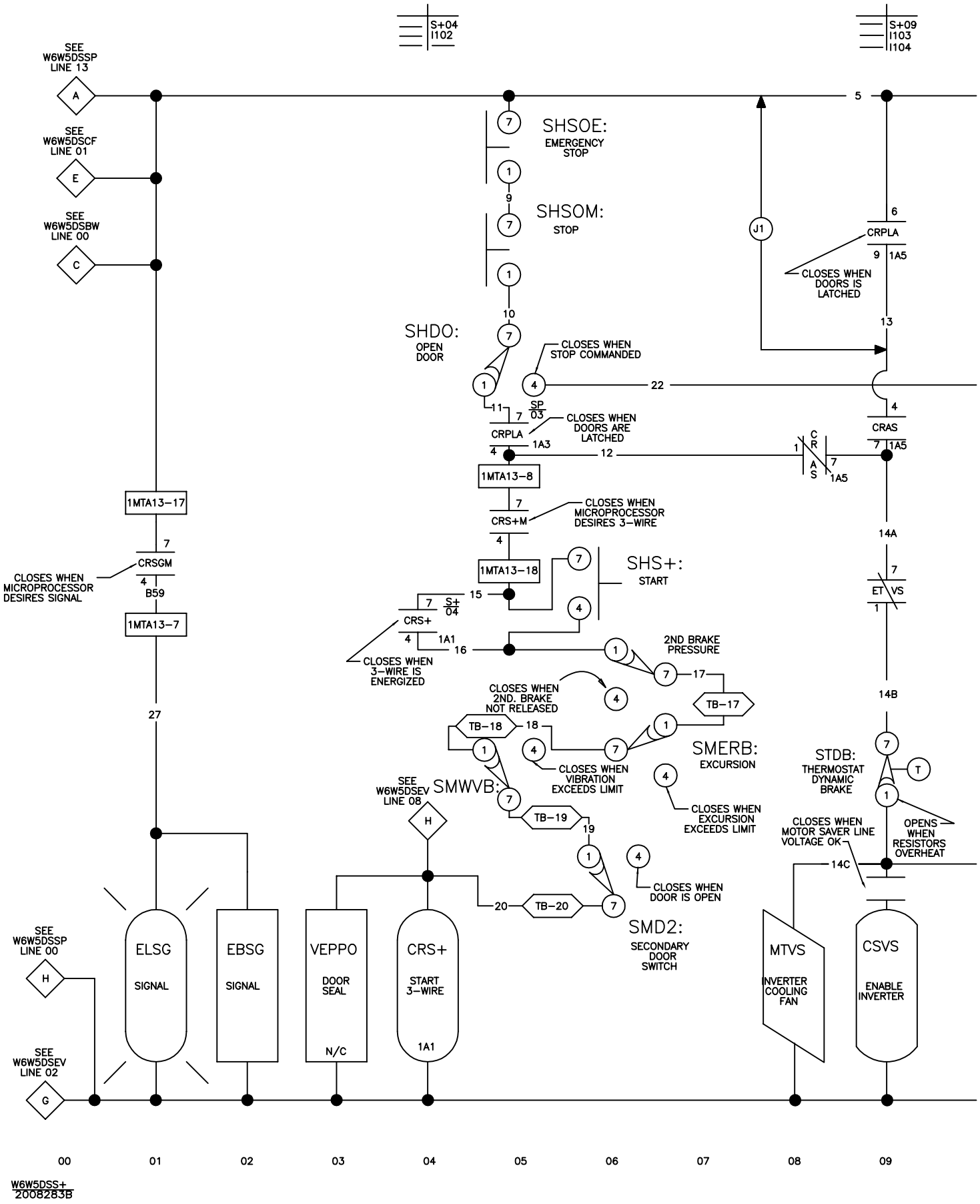
PELLERIN MILNOR CORPORATION

NOTES:

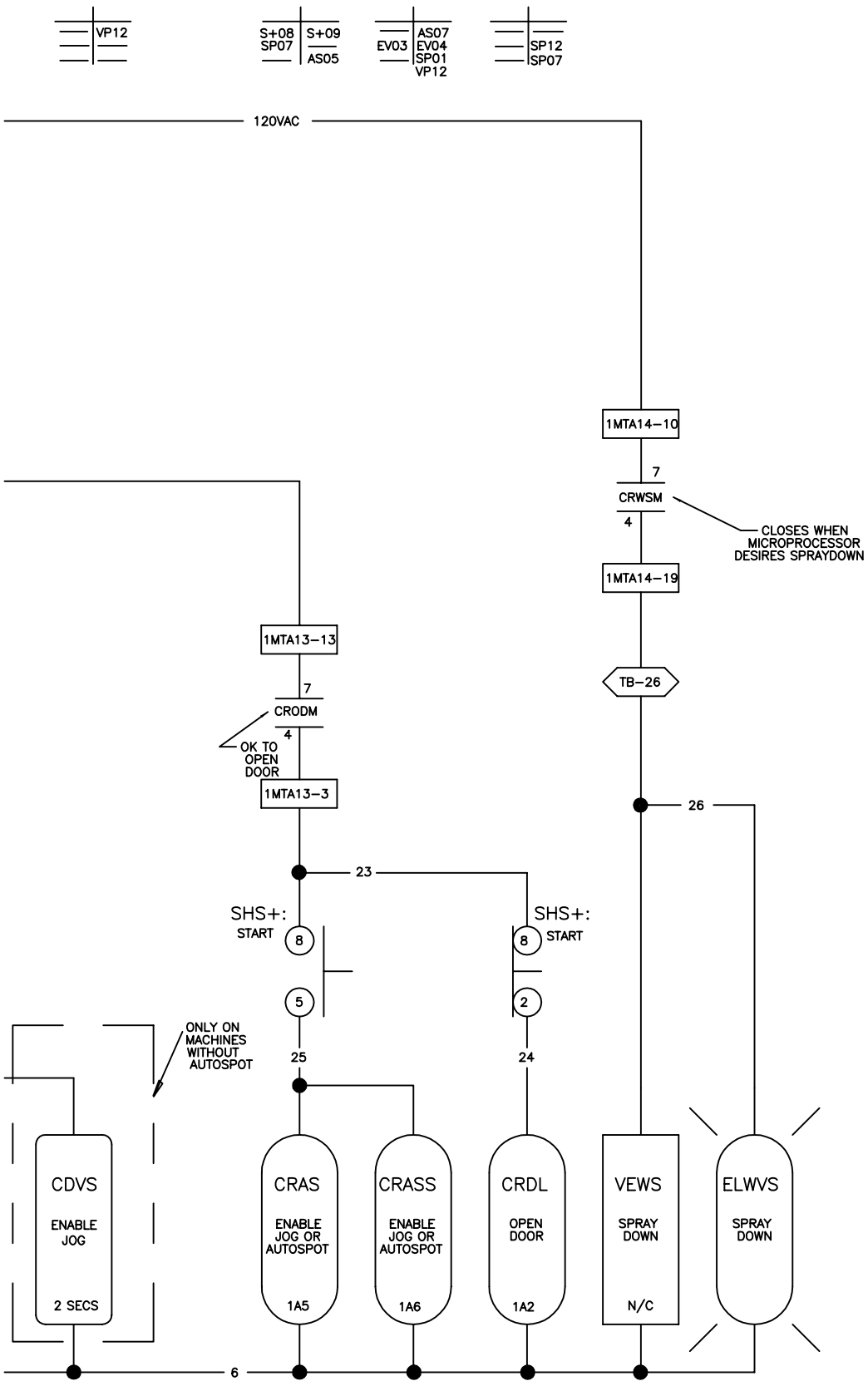
1 REMOVE JUMPERS (J1) AND (J2)
FOR MACHINES WITH AUTOSPOT

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

10 11 12 13 14 15 16 17 18 19



W6W5DSS+
2008283B



W6W5DSS+

MICRO 6 SYSTEMS MARK V

SCHEMATIC: START CIRCUIT (SERIAL CONTROLS)

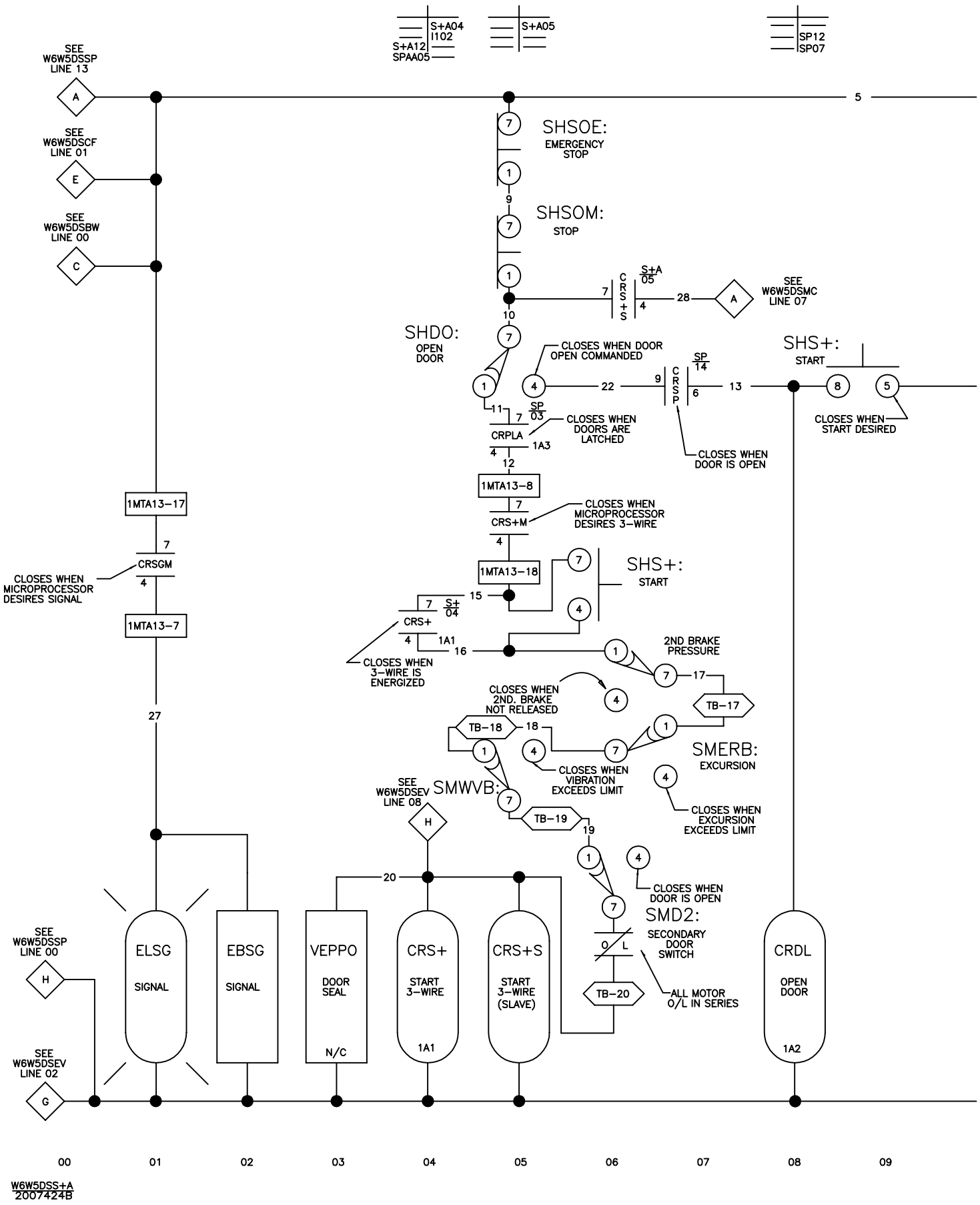
110V1P50HZ/120V1P60HZ

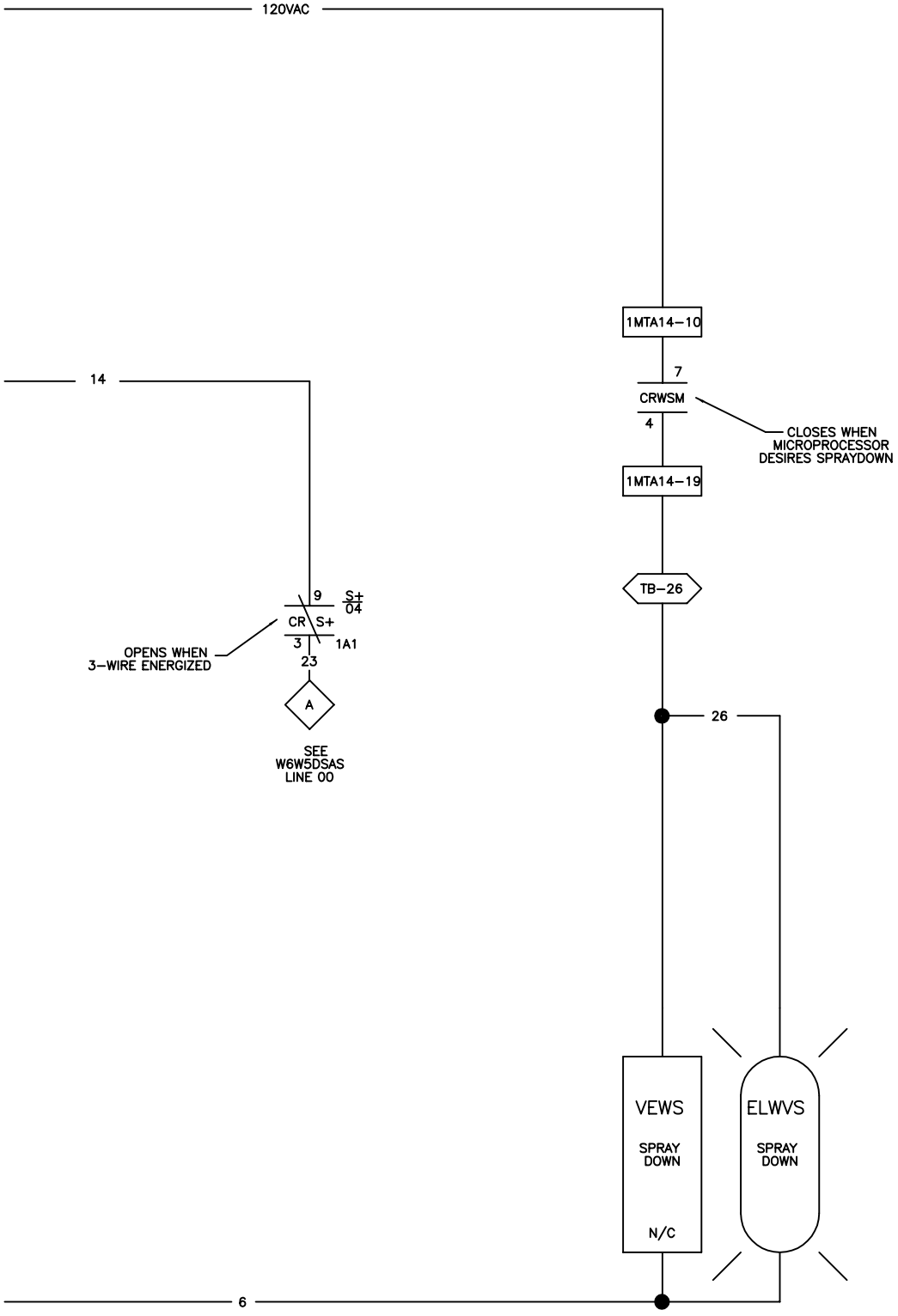
PELLERIN MILNOR CORPORATION

NOTE:

1 REMOVE JUMPER (J1) FOR AUTOSPOT

W6W5DSS+
2008283B

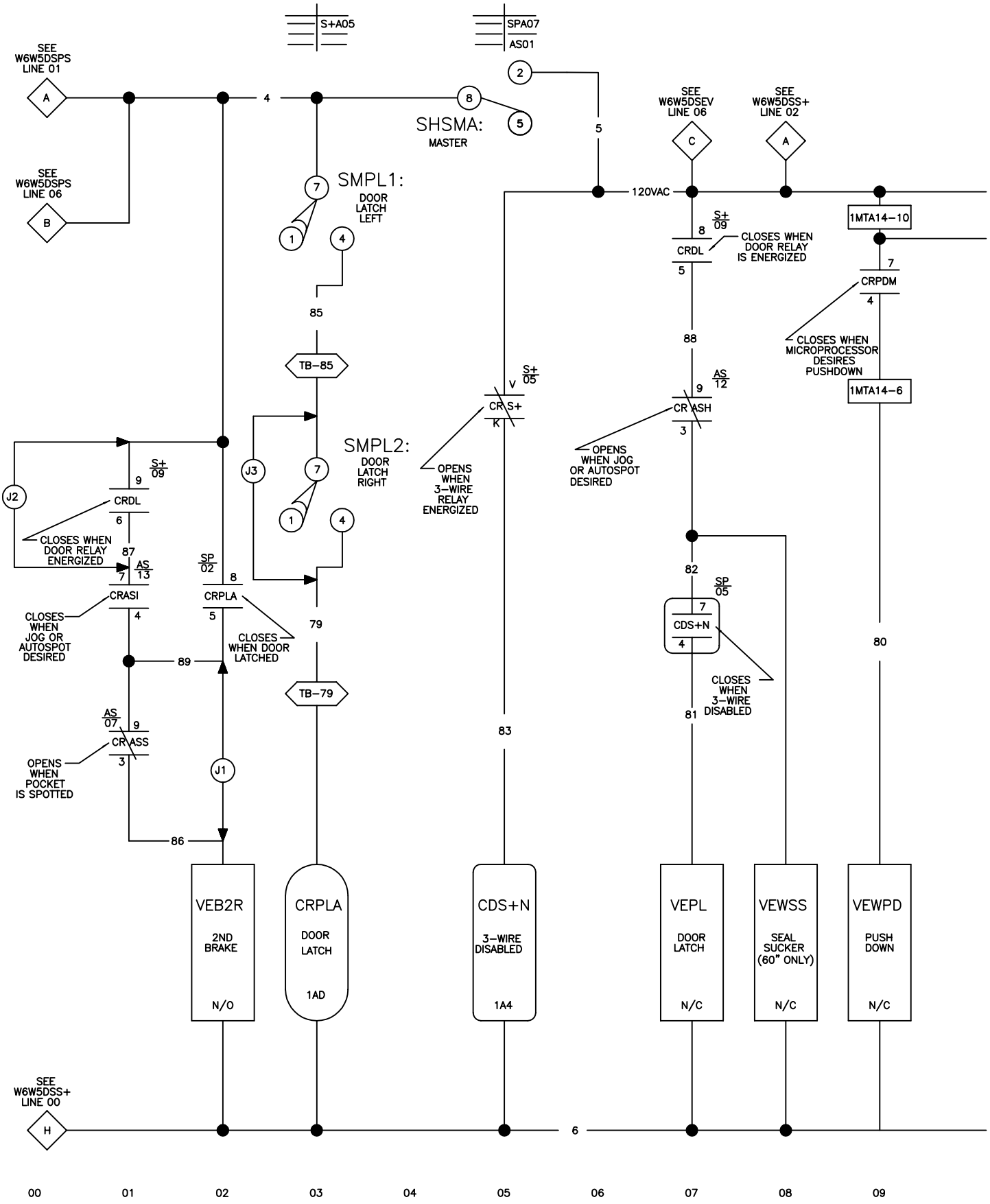

S+A04
I102
S+A12
SPAA05
S+A05
SP12
SP07
SEE W6W5DSSP LINE 13
A
5
SEE W6W5DSCF LINE 01
E
SEE W6W5DSBW LINE 00
C
7
SHSOE:
EMERGENCY STOP
1
9
SHSOM:
STOP
7
1
C R S + S
S+A 05
7
4
28
A
SEE W6W5DSMC LINE 07
10
SHDO:
OPEN DOOR
7
CLOSES WHEN DOOR OPEN COMMANDED
1
4
22
9
C R S P
SP 14
6
13
SHS+:
START
8
5
CLOSES WHEN START DESIRED
11
7
SP 03
CRPLA
CLOSES WHEN DOORS ARE LATCHED
4
1A3
CLOSES WHEN DOOR IS OPEN
12
1MTA13-8
7
CRS+M
CLOSES WHEN MICROPROCESSOR DESIRES 3-WIRE
4
1MTA13-17
7
CRSGM
CLOSES WHEN MICROPROCESSOR DESIRES SIGNAL
4
1MTA13-18
7
SHS+:
START
4
15
7
S+ 04
CRS+
4
1A1
16
CLOSES WHEN 3-WIRE IS ENERGIZED
1MTA13-7
27
1
2ND BRAKE PRESSURE
7
17
TB-17
CLOSES WHEN 2ND. BRAKE NOT RELEASED
4
TB-18
18
1
7
4
CLOSES WHEN VIBRATION EXCEEDS LIMIT
SMERB:
EXCURSION
4
CLOSES WHEN EXCURSION EXCEEDS LIMIT
SEE W6W5DSEV LINE 08
H
SMWVB:
7
TB-19
19
1
4
CLOSES WHEN DOOR IS OPEN
20
7
SMD2:
SECONDARY DOOR SWITCH
O
L
TB-20
ALL MOTOR O/L IN SERIES
SEE W6W5DSSP LINE 00
H
SEE W6W5DSEV LINE 02
G
ELSG
SIGNAL
EBSG
SIGNAL
VEPPO
DOOR SEAL
N/C
CRS+
START 3-WIRE
1A1
CRS+S
START 3-WIRE (SLAVE)
CRDL
OPEN DOOR
1A2
00
01
02
03
04
05
06
07
08
09
W6W5DSS+A
2007424B



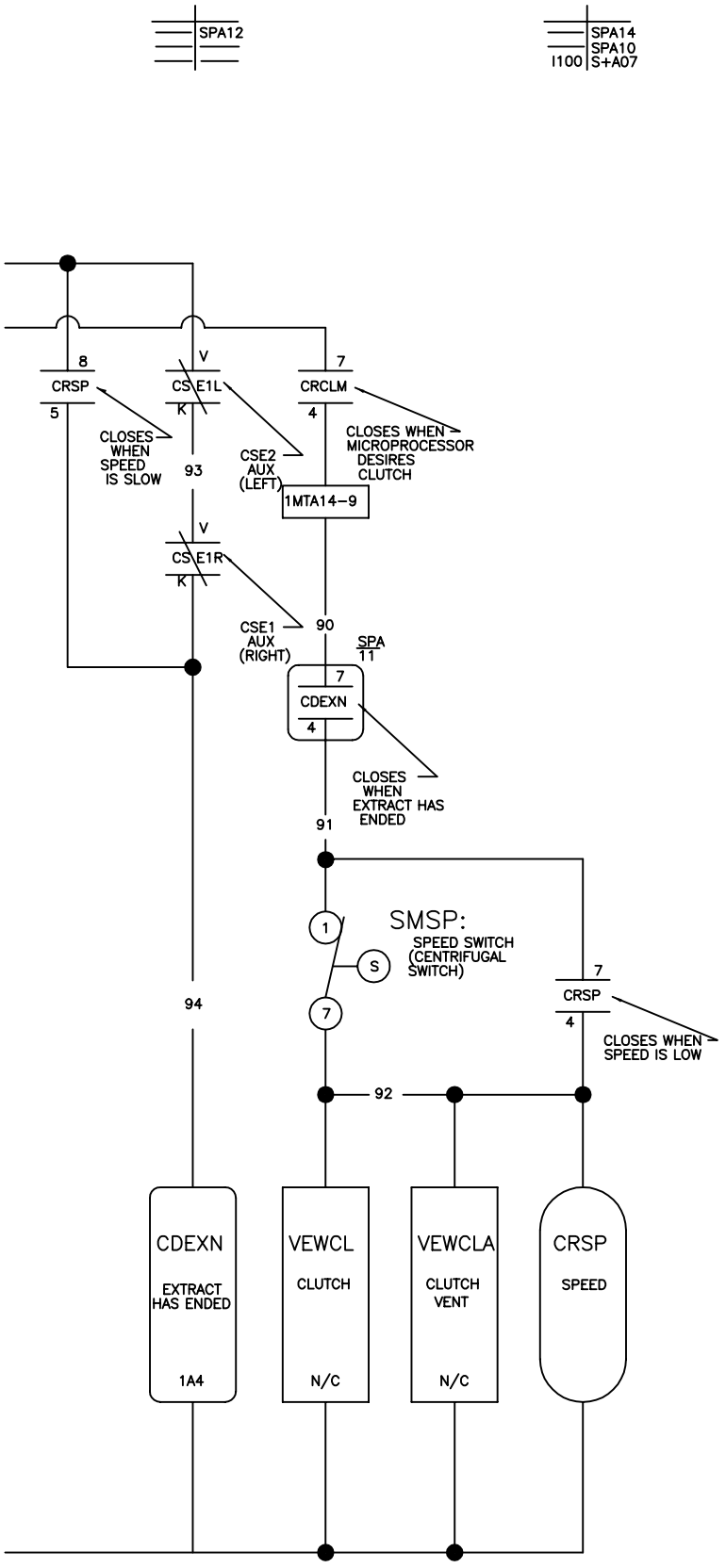
W6W5DSS+A

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

NOTE:
1 REMOVE JUMPER (J1)
FOR AUTOSPOT



W6W5DSSPA
2007352B



W6W5DSSPA

MICRO 6 SYSTEMS
MARK VI
SCHEMATIC: DOOR CIRCUITS, & MASTER SWITCH 7244WP2/3 ONLY

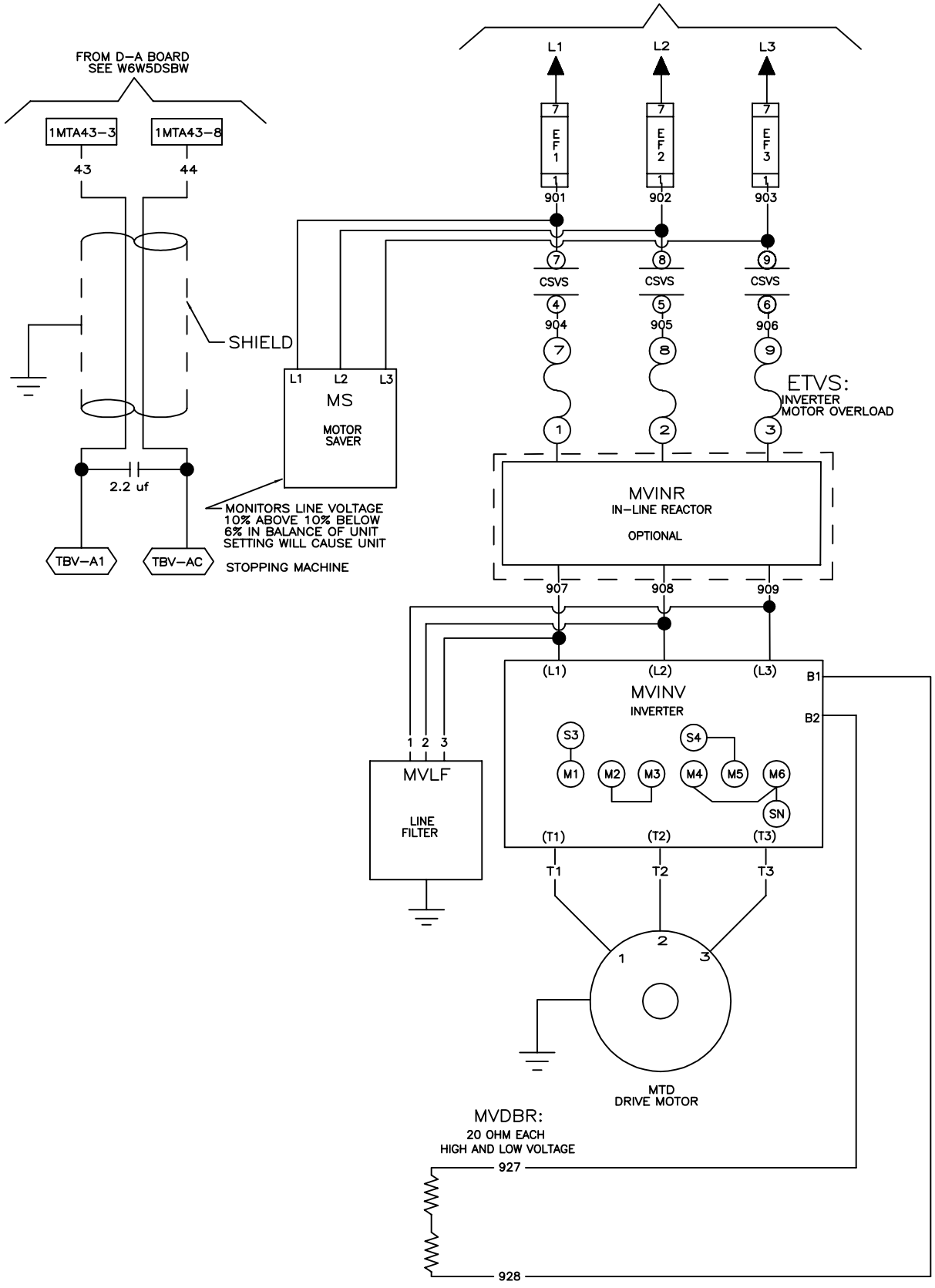
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

NOTES:

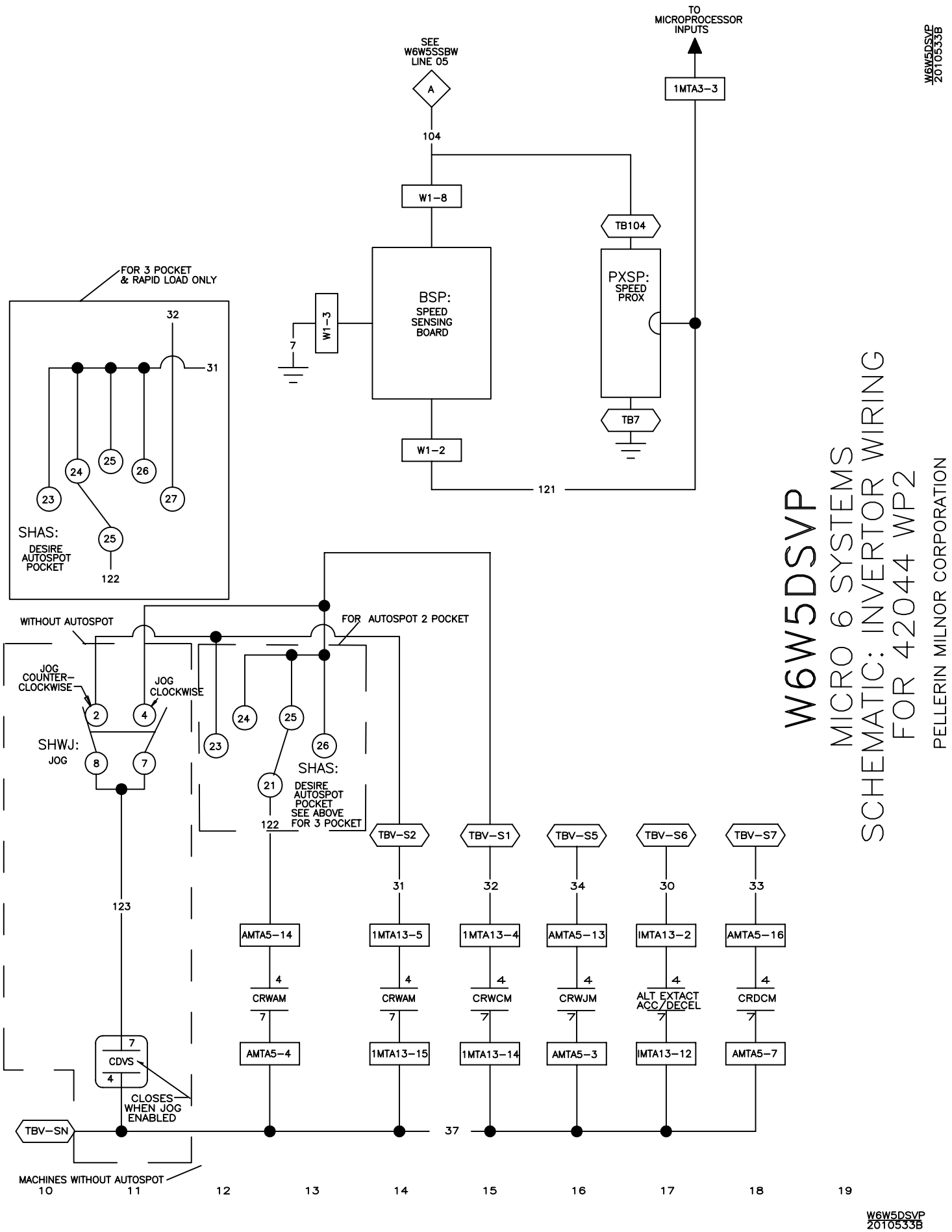
1 REMOVE JUMPERS (J1) AND (J2) FOR MACHINES WITH AUTOSPOT

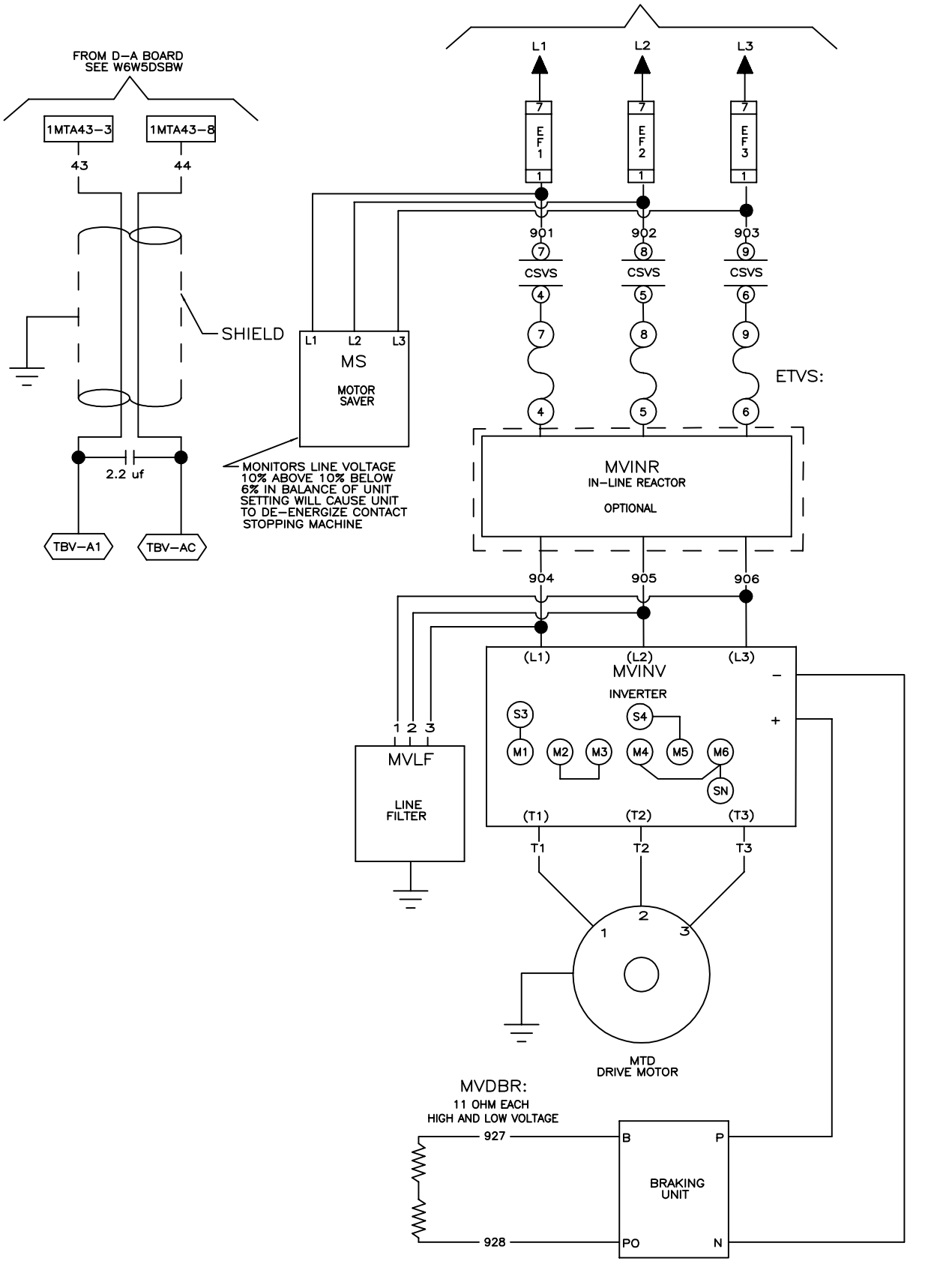
2. REMOVE JUMPER (J3) FOR 2 DOOR MODEL MACHINES.



00 01 02 03 04 05 06 07 08 09

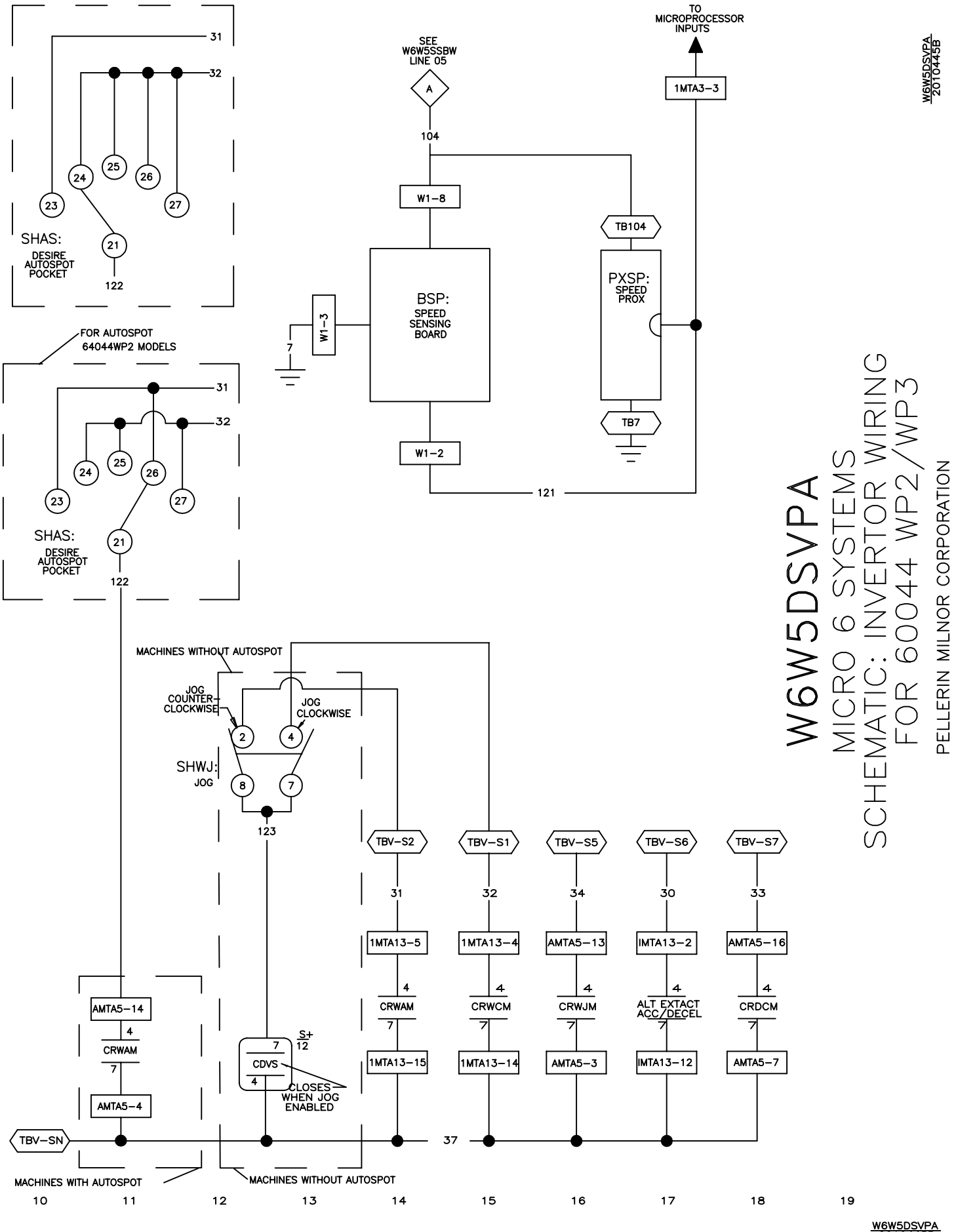
W6W5DSVP
2010533B


W6W5DSVP
MICRO 6 SYSTEMS
SCHEMATIC: INVERTOR WIRING
FOR 42044 WP2
PELLERIN MILNOR CORPORATION
W6W5DSVP
2010533B
SEE W6W5SSBW LINE 05
A
104
W1-8
TO MICROPROCESSOR INPUTS
1MTA3-3
TB104
PXSP: SPEED PROX
TB7
BSP: SPEED SENSING BOARD
W1-3
7
W1-2
121
FOR 3 POCKET & RAPID LOAD ONLY
32
31
24
25
26
23
27
SHAS: DESIRE AUTOSPOT POCKET
25
122
WITHOUT AUTOSPOT
FOR AUTOSPOT 2 POCKET
JOG COUNTER-CLOCKWISE
JOG CLOCKWISE
2
4
SHWJ: JOG
8
7
24
25
23
26
SHAS: DESIRE AUTOSPOT POCKET SEE ABOVE FOR 3 POCKET
21
122
123
TBV-S2
TBV-S1
TBV-S5
TBV-S6
TBV-S7
31
32
34
30
33
AMTA5-14
1MTA13-5
1MTA13-4
AMTA5-13
IMTA13-2
AMTA5-16
4
CRWAM
CRWAM
CRWCM
CRWJM
ALT EXTACT ACC/DECEL
CRDCM
7
AMTA5-4
1MTA13-15
1MTA13-14
AMTA5-3
IMTA13-12
AMTA5-7
7
CDVS
4
CLOSES WHEN JOG ENABLED
TBV-SN
37
MACHINES WITHOUT AUTOSPOT
10
11
12
13
14
15
16
17
18
19
W6W5DSVP
2010533B



00 01 02 03 04 05 06 07 08 09

W6W5DSVPA
2010445B


W6W5DSVPA
MICRO 6 SYSTEMS
SCHEMATIC: INVERTOR WIRING
FOR 60044 WP2/WP3
PELLERIN MILNOR CORPORATION
W6W5DSVPA
2010445B
TO MICROPROCESSOR INPUTS
1MTA3-3
SEE W6W5SSBW LINE 05
A
104
W1-8
TB104
BSP: SPEED SENSING BOARD
PXSP: SPEED PROX
W1-3
7
TB7
W1-2
121
31
32
24
25
26
23
27
21
SHAS: DESIRE AUTOSPOT POCKET
122
FOR AUTOSPOT 64044WP2 MODELS
MACHINES WITHOUT AUTOSPOT
JOG COUNTER-CLOCKWISE
JOG CLOCKWISE
2
4
SHWJ: JOG
8
7
123
TBV-S2
TBV-S1
TBV-S5
TBV-S6
TBV-S7
31
32
34
30
33
1MTA13-5
1MTA13-4
AMTA5-13
IMTA13-2
AMTA5-16
4
CRWAM
7
CRWCM
CRWJM
ALT EXTACT ACC/DECEL
CRDCM
AMTA5-14
AMTA5-4
S+
12
CDVS
CLOSES WHEN JOG ENABLED
1MTA13-15
1MTA13-14
AMTA5-3
IMTA13-12
AMTA5-7
TBV-SN
37
MACHINES WITH AUTOSPOT
MACHINES WITHOUT AUTOSPOT
10
11
12
13
14
15
16
17
18
19
W6W5DSVPA
2010445B