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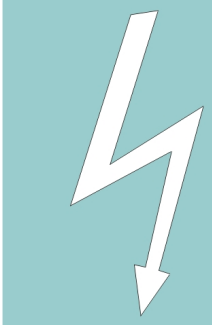
Schematic/Electrical Parts

Miscellaneous Controllers

Relay Logic



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

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

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COMPONENT PARTS LIST

W6RLCPL/2010276N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
CD	**RELAY-TIME DELAY**				
CD1	DELAY-DEVICE ACCEPTS LOAD	W6RLCAD	09CF016037	TDR F16S 2PDT 11PIN 120V50/60C	BELT CNTL BOX
CD1	DELAY-DISC NOT BLOCKED	W6RLCCL1	09CF016037	TDR F16S 2PDT 11PIN 120V50/60C	BELT CNTL BOX
CD1	DELAY-BELT CLEAR +EMPTY	W6RLCDDB	09CA240037	TDR A240S 2PDT 11PIN 120V50/60C	DRYER DISC BLT
CD1	DELAY-BELT CLEAR + EMPTY	W6RLCDDJ	09CA060037	TDR A60S 2PDT 11PIN 120V5/6	BELT CNTL BOX
CD1	DELAY-BELT NOT BLOCKED	W6RLCDL1	09CF016037	TDR F16S 2PDT 11PIN 120V50/60C	BELT CNTL BOX
CD1	DELAY-BELT FORWARD	W6RLCSCP	09CF001037	TDR F1S 2PDT 11PIN 120V60C	BELT CNTL BOX
CD1	DELAY-BELT CLEAR	W6RLCSDA	09CA240037	TDR A240S 2PDT 11PIN 120V50/60C	BELT CNTL BOX
CD1	DELAY-RESET DISCHARGE ALLOWED	W6RLCSS+	09CF001037	TDR F1S 2PDT 11PIN 120V60C	BELT CNTL BOX
CD2	DELAY-BELT LOADING	W6RLCDDB	09CF002037	TDR F2S 2PDT 11PIN 120V60/50C	DRYER DISC BLT
CD2	DELAY-BELT LOADING	W6RLCDDJ	09CF002037	TDR F2S 2PDT 11PIN 120V60/50C	BELT CNTL BOX
CD2	DELAY-BELT REVERSE	W6RLCSCP	09CF001037	TDR F1S 2PDT 11PIN 120V60C	BELT CNTL BOX
CD3	DELAY-BELT EMPTY	W6RLCDDB	09CF001037	TDR F1S 2PDT 11PIN 120V60C	DRYER DISC BLT
CDBL	DELAY-BELT LOADING	W6RLCDL1	09CF016037	TDR F16S 2PDT 11PIN 120V50/60C	BELT CNTL BOX
CL	**RELAY-LATCH**				
CL1	LATCH-BELT LOADING	W6RLCDDB	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	DRYER DISC BLT
CL1	LATCH-BELT LOADING	W6RLCDDJ	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	BELT CNTL BOX
CL1	LATCH-REVERSE BLOCKED	W6RLCSCP	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	BELT CNTL BOX
CL2	LATCH-FORWARD BLOCKED	W6RLCSCP	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	BELT CNTL BOX
CLL	LATCH-BELT DESIRES LOAD	W6RLCAD	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	BELT CNTL BOX
CLL	LATCH-BELT CLEAR	W6RLCCL1	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	BELT CNTL BOX
CLL	LATCH-BELT CLEAR	W6RLCDL1	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	BELT CNTL BOX
CLX	LATCH-BELT CLEAR	W6RLCDL1	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	BELT CNTL BOX
CP	**PHOTOEYES**				
CPPE	PHOTOEYE-FORWARD	W6RLCBS+	09RPE004	SENSOR DK.OPR.AC N/O-OUT	SIDE OF BELT
CPPE	PHOTOEYE-FORWARD	W6RLCDDB	09RPE004	SENSOR DK.OPR.AC N/O-OUT	DRYER DISC BLT
CPPE	PHOTOEYE-LOAD END	W6RLCDDJ	09RPE004	SENSOR DK.OPR.AC N/O-OUT	SIDE OF BELT
CPRD	PHOTOEYE-DISCHARGE END	W6RLCAD	09RPE004	SENSOR DK.OPR.AC N/O-OUT	SIDE OF BELT
CPRD	PHOTOEYE-DISCHARGE END	W6RLCDL1	09RPE004	SENSOR DK.OPR.AC N/O-OUT	SIDE OF BELT
CPRL	PHOTOEYE-LOAD END	W6RLCCL1	09RPE004	SENSOR DK.OPR.AC N/O-OUT	SIDE OF BELT
CR	**RELAY-PILOT OR CONTROL**				
CR1	RELAY-DISCHARGE ALLOWED	W6RLCSDA	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CR1	Y-DEVICE 1	W6RLCST	09C024D37	4PDT "KH" 110/120V	BELT BOX RELAY

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
CR2	Y-DEVICE 2	W6RLCST	09C024D37	4PDT "KH" 110/120V	BELT BOX RELAY
CR3	Y-DEVICE 3	W6RLCST	09C024D37	4PDT "KH" 110/120V	BELT BOX RELAY
CR4	Y-DEVICE 4	W6RLCST	09C024D37	4PDT "KH" 110/120V	BELT BOX RELAY
CR5	Y-DEVICE 5	W6RLCST	09C024D37	4PDT "KH" 110/120V	BELT BOX RELAY
CR6	Y-DEVICE 6	W6RLCST	09C024D37	4PDT "KH" 110/120V	BELT BOX RELAY
CR7	Y-DEVICE 7	W6RLCST	09C024D37	4PDT "KH" 110/120V	BELT BOX RELAY
CR8	Y-DEVICE 8	W6RLCST	09C024D37	4PDT "KH" 110/120V	BELT BOX RELAY
CRBL	RELAY-BELT IS LOADED	W6RLCCDL1	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRBL	RELAY-BELT LOADED	W6RLCCL1	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRD	RELAY-DISCHARGE END BLOCKED	W6RLCAD	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRD	RELAY-DISCHARGE END BLOCKED	W6RLCCL1	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRD	RELAY-NO EYES HAVE BEEN BLOCKED	W6RLCSCP	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRD	RELAY-DISCHARGE END BLOCKED	W6RLCDL1	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRE	RELAY-BOTH EYES BLOCKED	W6RLCSCP	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRL	RELAY-LOAD END BLOCKED	W6RLCCL1	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRM	RELAY-MANUAL	W6RLCDL1	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRMA	RELAY-MANUAL	W6RLCDL1	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRMB	RELAY-MANUAL	W6RLCDL1	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRP1	PHOTOEYE-FORWARD BLOCKED	W6RLCSCP	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRP2	PHOTOEYE-FORWARD BLOCKED	W6RLCSCP	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRPE	RELAY-PHOTOEYE BLOCKED	W6RLCBS+	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRPE	RELAY-PHOTOEYE BLOCKED	W6RLCDDB	09C024D37	4PDT "KH" 110/120V	DRYER DISC BLT
CRPE	RELAY-PHOTOEYE BLOCKED	W6RLCDDJ	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRS+	RELAY-3-WIRE	W6RLCAD	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRS+	RELAY-3-WIRE ON	W6RLCBS+	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRS+	RELAY-3-WIRE	W6RLCCL1	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRS+	RELAY-3-WIRE	W6RLCDDB	09C024D37	4PDT "KH" 110/120V	DRYER DISC BLT
CRS+	RELAY-3-WIRE	W6RLCDDJ	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRS+	RELAY-3-WIRE	W6RLCDL1	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRS+	RELAY-3-WIRE	W6RLCSCP	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CRS+	RELAY-3-WIRE	W6RLCSS+	09C024D37	4PDT "KH" 110/120V	BELT CNTL BOX
CS	**CONTACTOR-MOTOR STARTER**				
CSBF	CONTACTOR-BELT FORWARD	W6RLCAD	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACT BOX

COMPONENT PARTS LIST

W6RLCPL/2010276N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
CSBF	CONTACTOR-BELT FORWARD	W6RLCCL1	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	BELT CNTL BOX
CSBF	CONTACTOR-BELT FORWARD	W6RLCDL1	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	BELT CNTL BOX
CSBR	CONTACTOR-BELT REVERSE	W6RLCAD	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACT BOX
CSBR	CONTACTOR-BELT REVERSE	W6RLCCL1	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	
CSBR	CONTACTOR-BELT REVERSE	W6RLCDL1	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	BELT CNTL BOX
CSF	CONTACTOR-MOVE BELT FORWARD	W6RLCBS+	09MC08B337	12A 3P MCS CONT NR 120V5/6	BELT CNTL BOX
CSF	CONTACTOR-MOVE BELT FORWARD	W6RLCDDB	09MC08B337	12A 3P MCS CONT NR 120V5/6	DRYER DISC BLT
CSF	CONTACTOR-ENABLE INVERTER	W6RLCDDJ	09MC08B337	12A 3P MCS CONT NR 120V5/6	BELT CNTL BOX
CSF	CONTACTOR-BELT FORWARD	W6RLCSCP	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	BELT CNTL BOX
CSR	CONTACTOR-BELT REVERSE	W6RLCSCP	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	BELT CNTL BOX
EB	**BUZZER OR AUDIBLE SIGNAL**				
EBSG	BUZZER-SIGNAL	W6RLCAD	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	BELT CNTL BOX
EBSG	BUZZER-SIGNAL	W6RLCBS+	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	BELT CNTL BOX
EBSG	BUZZER-SIGNAL	W6RLCCL1	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	BELT CNTL BOX
EBSG	BUZZER-SIGNAL	W6RLCDDB	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	DRYER DISC BLT
EBSG	BUZZER-SIGNAL	W6RLCDDJ	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	BELT CNTL BOX
EBSG	BUZZER-SIGNAL	W6RLCDL1	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	BELT CNTL BOX
EBSG	BUZZER-SIGNAL	W6RLCSCP	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	BELT CNTL BOX
EBSG	BUZZER-SIGNAL	W6RLCSS+	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	BELT CNTL BOX
EF	**FUSE OR FUSE HOLDER**				
EF1	FUSE-12VAC	W6RLCSCP	09CL2C-C37	RELAY-LATCH DPT 120V 2-COIL	BELT CNTL BOX
EL	**LIGHT-PILOT OR INDICATOR**				
EL1	LIGHT-DISCHARGE ALLOWED	W6RLCSDA	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	BELT CNTL BOX
EL37	LIGHT-120VOLT AVAILABLE	W6RLCCL1	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	BELT CNTL BOX
EL37	LIGHT-120VOLT AVAILABLE	W6RLCDL1	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	BELT CNTL BOX
ELBL	LIGHT-BELT LOADED	W6RLCCL1	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	BELT CNTL BOX
ELBL	LIGHT-BELT LOADED	W6RLCDL1	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	BELT CNTL BOX
ELS+	LIGHT-3-WIRE	W6RLCAD	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	BELT CNTL BOX
ELS+	LIGHT-3-WIRE	W6RLCBS+	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	BELT CNTL BOX
ELS+	LIGHT-3-WIRE	W6RLCCL1	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	BELT CNTL BOX
ELS+	LIGHT-3-WIRE	W6RLCDDB	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	DRYER DISC BLT
ELS+	LIGHT-3-WIRE	W6RLCDDJ	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	BELT CNTL BOX
ELS+	LIGHT-3-WIRE	W6RLCDL1	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	BELT CNTL BOX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
ELS+	LIGHT-3-WIRE	W6RLCSCP	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	BELT CNTL BOX
ELS+	LIGHT-3-WIRE	W6RLCSS+	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	BELT CNTL BOX
ELSG	LIGHT-SIGNAL	W6RLCDDB	09J060WH37	LAMP 1/2" WH 120 TAB IDI 1052QC5	DRYER DISC BLT
ELSG	LIGHT-SIGNAL	W6RLCDDJ	09J060WH37	LAMP 1/2" WH 120 TAB IDI 1052QC5	BELT CNTL BOX
ELSG	LIGHT-SIGNAL	W6RLCSCP	09J060WH37	LAMP 1/2" WH 120 TAB IDI 1052QC5	BELT CNTL BOX
ELSG	LIGHT-SIGNAL	W6RLCSS+	09J060WH37	LAMP 1/2" WH 120 TAB IDI 1052QC5	BELT CNTL BOX
ELSG	LIGHT-SIGNAL	W6RLSBS+	09J060WH37	LAMP 1/2" WH 120 TAB IDI 1052QC5	BELT CNTL BOX
ET	**THERMAL OVERLOAD DEVICES**				
ETB	OVERLOAD-MOTOR BELT DRIVE	W6RLCBS+	09FTB004T	THERM OL+CB (GFUS250) MAN:ADJ2-4A	BELT CNTL BOX
ETB	OVERLOAD-MOTOR BELT DRIVE	W6RLDDB	09FTB004T	THERM OL+CB (GFUS250) MAN:ADJ2-4A	DRYER DISC BLT
ETD	OVERLOAD-BELT MOTOR	W6RLCSS+	09FTB004T	THERM OL+CB (GFUS250) MAN:ADJ2-4A	BELT CNTL BOX
EX	**TRANSFORMERS**				
EX37	TRANSFORMER-380/480V TO 120VAC	W6RLCDDT	09U200AAB	XFMR 380-480V/240-120V 250VA	DRYER DISC BLT
EX37	TRANSFORMER-208/240V TO 120VAC	W6RLCDDT	09U249AA37	XFMR 200-240 PRI/120SEC 250VA	DRYER DISC BLT
EX37	TRANSFORMER-600V TO 120VAC	W6RLCDDT	09U251AB37	XFMR 600PRI/120VSC-250VA-3%RE	DRYER DISC BLT
MT	**MOTORS**				
MTB	MOTOR-BELT DRIVE	W6RLCBS+	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	SIDE OF BELT
MTB	MOTOR-BELT DRIVE	W6RLCDDJ	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	SIDE OF BELT
MTB	MOTOR-BELT	W6RLCSS+	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	BELT CNTL BOX
MV	**INVERTER**				
MVB	INVERTER-BELT MOTOR	W6RLCDDJ	09MWB00996	V1000 INVERTER 9.2AMP 460V	BELT CNTL BOX
MVDB	RESISTOR-DYNAMIC BRAKE	W6RLCDDJ	09MV100RES	RESIST 100 OHM 225WATT ADJ	BELT CNTL BOX
SH	**SWITCH-HAND OPERATED**				
SH1	SWITCH-MASTER	W6RLCDDJ	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHAM	SWITCH-AUTOMATIC/MANUAL	W6RLCAD	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHAM	SWITCH-AUTOMATIC/MANUAL	W6RLCCL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHAM	SWITCH-AUTOMATIC/MANUAL	W6RLCDL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHAX	SWITCH-MOVE BELT AUTO/MANUAL	W6RLCDL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHBF	SWITCH-MOVE BELT FORWARD	W6RLCBS+	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHBF	SWITCH-MOVE BELT FORWARD	W6RLCDDB	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DRYER DISC BLT
SHDA	SWITCH-DISCHARGE ALLOWED	W6RLCSDA	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHDNV	SWITCH-DATA VALID	W6RLCCL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHDNV	SWITCH-BELT NOT LOADED	W6RLCDL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
SHDV	SWITCH-BELT IS NOT LOADED	W6RLCCL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHDV	SWITCH-BELT LOADED-DATA VALID	W6RLCDL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHFR	SWITCH-FORWARD/REVERSE	W6RLCAD	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHFR	SWITCH-FORWARD/REVERSE	W6RLCCL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHFR	SWITCH-FORWARD/REVERSE	W6RLCDL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHFS	SWITCH-FORMULA SELECT	W6RLCCL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHFS	SWITCH-FORMULA SELECT	W6RLCDL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHMA	SWITCH-MASTER	W6RLCSCP	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHMD	SWITCH-MOTOR DISCONNECT	W6RLCBS+	09N042204	DISCON SWITCH 40A 600V 2POS 4P	SIDE OF BELT
SHMD	SWITCH-DISCONNECT MOTOR	W6RLCDDB	09N042204	DISCON SWITCH 40A 600V 2POS 4P	DRYER DISC BLT
SHMD	SWITCH-DISCONNECT MOTOR	W6RLCDDJ	09N042204	DISCON SWITCH 40A 600V 2POS 4P	BELT CNTL BOX
SHMD	SWITCH-DISCONNECT MOTOR	W6RLCSS+	09N042204	DISCON SWITCH 40A 600V 2POS 4P	BELT CNTL BOX
SHNC	SWITCH-NEW CUSTMER	W6RLCCL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHPE1	SWITCH-EMERGENCY PULL STRING-LEFT	W6RLCBS+	09R014A	05Z MINI-SW SPDT STAKON #V15G1C26K	SIDE OF BELT
SHPE1	SWITCH-EMERGENCY PULL STRINGS	W6RLCCL1	09R014A	05Z MINI-SW SPDT STAKON #V15G1C26K	SIDE OF BELT
SHPE1	SWITCH-EMERGENCY PULL STRINGS	W6RLCDDB	09R014A	05Z MINI-SW SPDT STAKON #V15G1C26K	DRYER DISC BLT
SHPE1	SWITCH-EMERGENCY PULL STRING	W6RLCDDJ	09R014A	05Z MINI-SW SPDT STAKON #V15G1C26K	BELT CNTL BOX
SHPE1	SWITCH-EMERGENCY PULL STRINGS	W6RLCSS+	09R014A	05Z MINI-SW SPDT STAKON #V15G1C26K	BELT CNTL BOX
SHPE2	SWITCH-EMERGENCY PULL STRING-RIGHT	W6RLCBS+	09R014A	05Z MINI-SW SPDT STAKON #V15G1C26K	SIDE OF BELT
SHPE2	SWITCH-EMERGENCY PULL STRINGS	W6RLCCL1	09R014A	05Z MINI-SW SPDT STAKON #V15G1C26K	SIDE OF BELT
SHPE2	SWITCH-EMERGENCY PULL STRINGS	W6RLCDDB	09R014A	05Z MINI-SW SPDT STAKON #V15G1C26K	DRYER DISC BLT
SHPE2	SWITCH-EMERGENCY PULL STRING	W6RLCDDJ	09R014A	05Z MINI-SW SPDT STAKON #V15G1C26K	BELT CNTL BOX
SHPE2	SWITCH-EMERGENCY PULL STRINGS	W6RLCSS+	09R014A	05Z MINI-SW SPDT STAKON #V15G1C26K	BELT CNTL BOX
SHRF	SWITCH-RANGE SELECT	W6RLCCL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHRF	SWITCH-RANGE SELECT	W6RLCDL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHS+	SWITCH-START	W6RLCAD	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHS+	SWITCH-START	W6RLCBS+	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHS+	SWITCH-START	W6RLCCL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHS+	SWITCH-START	W6RLCDDB	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DRYER DISC BLT
SHS+	SWITCH-START	W6RLCDDJ	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHS+	SWITCH-START	W6RLCSCP	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHS+	SWITCH-START	W6RLCSS+	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHSBL	SWITCH-REGULAR/SMALL LOAD	W6RLCCL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX

COMPONENT PARTS LIST

W6RLCPL/2010276N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT NUMBER	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
SHSBL	SWITCH-REGULAR/SMALL LOAD	W6RLCDL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHSMA	SWITCH-MASTER	W6RLCAD	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHSMA	SWITCH-MASTER	W6RLCCL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHSMA	SWITCH-MASTER	W6RLCDDB	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DRYER DISC BLT
SHSMA	SWITCH-MASTER	W6RLCDL1	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	BELT CNTL BOX
SHSO	SWITCH-STOP	W6RLCAD	09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	BELT CNTL BOX
SHSO	SWITCH-STOP	W6RLCDDB	09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	DRYER DISC BLT
SHSO	SWITCH-STOP	W6RLCDDJ	09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	BELT CNTL 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, FOB our factory. We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is repaired or altered in any way without MILNOR's written consent.

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

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

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

How to Get the Necessary Repair Components

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

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

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

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

To write to the Milnor factory:

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

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

— End of BIUUUD19 —

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

How to Use Milnor® Electrical Schematic Diagrams

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

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

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

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

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

1. Component Prefix Classifications and Descriptions

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

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

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

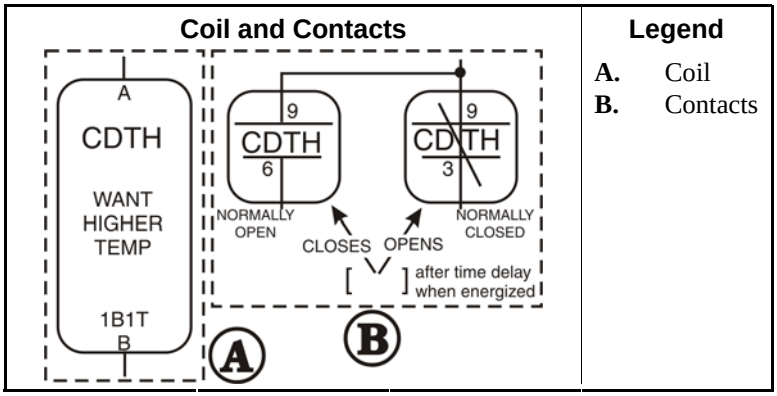
BA=Printed Circuit Board—Insulating substrate on which a thin pattern of copper conductors has been formed to connect discrete electronic components also mounted on the board.

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

Figure 1: Circuit Breaker (CB)

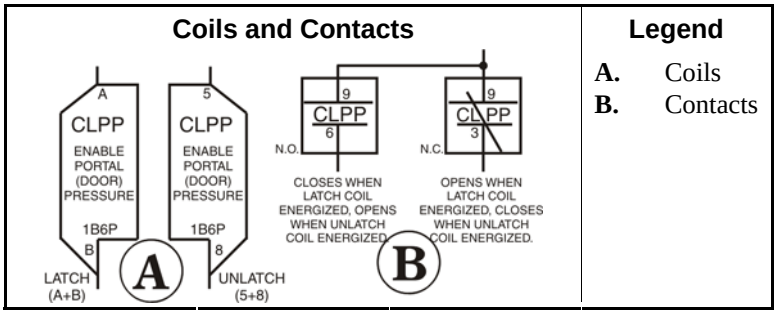
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



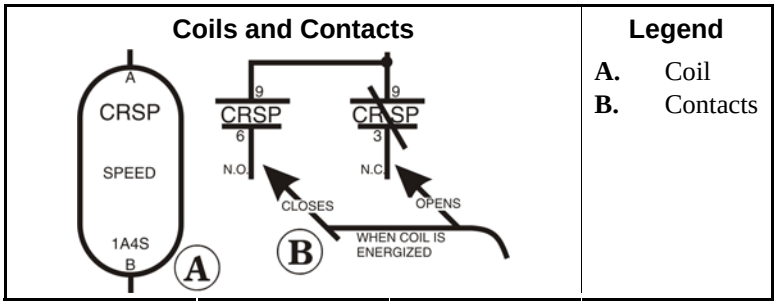
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



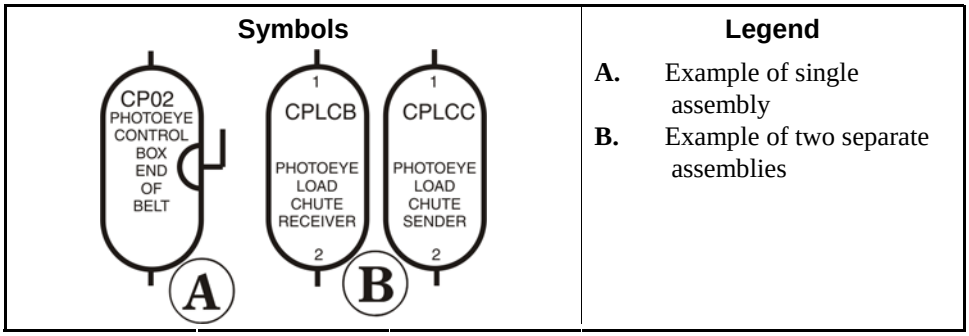
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



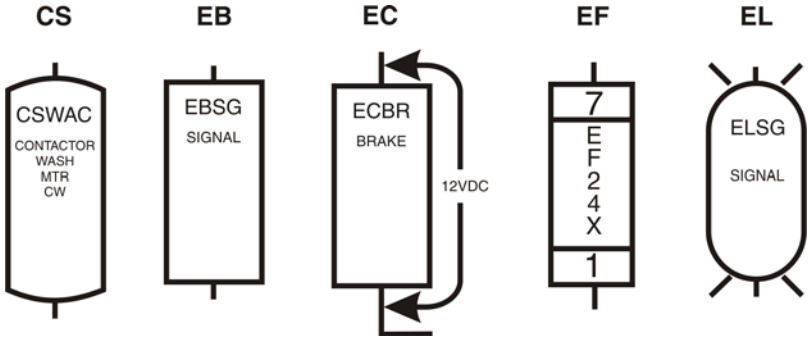
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these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

Figure 5: Photo-eye (CP)



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

Figure 6: Other Control Symbols



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

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

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

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

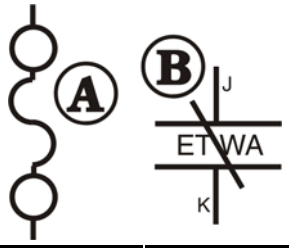
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

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

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

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

Figure 7: Thermal Overload (ET)

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

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

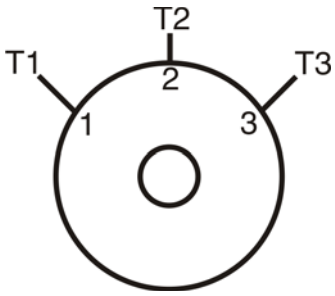
KB=Keyboard—Device similar to a typewriter for making entries to a computer.

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

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

Figure 8: Transformer (EX)

Figure 9: Electric Motor (MR)

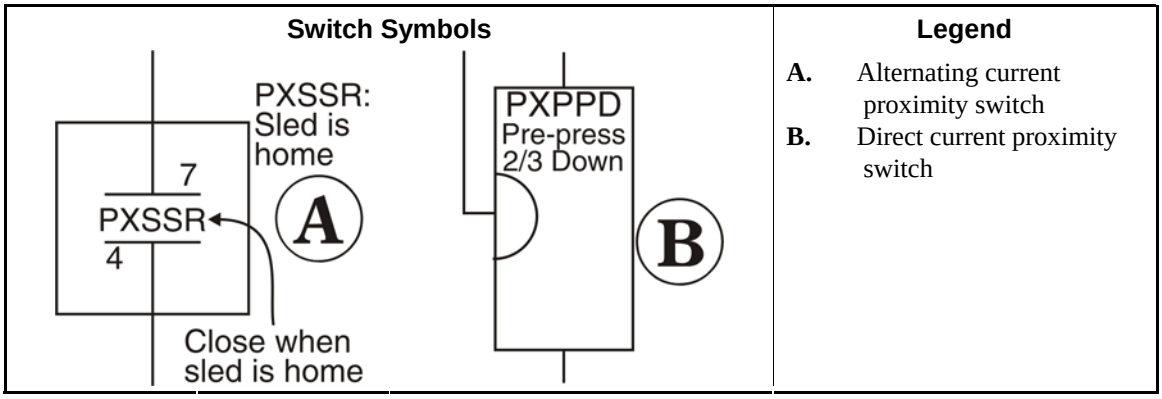


MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the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

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

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

Figure 10: Proximity Switches (PX)



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

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

Figure 11: Cam Switch (SC)

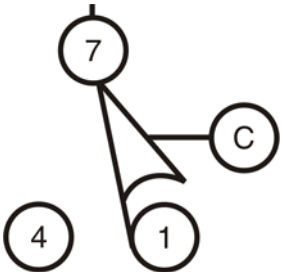
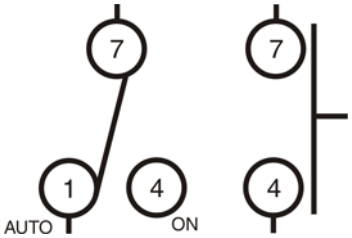


Figure 12: Hand Operated Switch (SH)



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

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

Figure 13: Key Switch (SK)

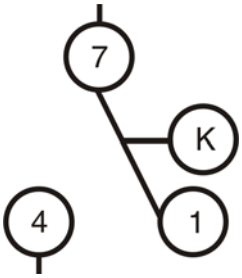
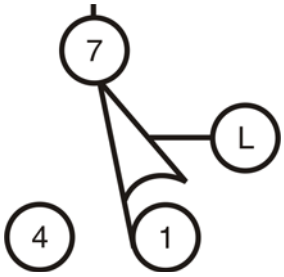


Figure 14: Level Switch (SL)



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

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

Figure 15: Mechanical Switch (SM)

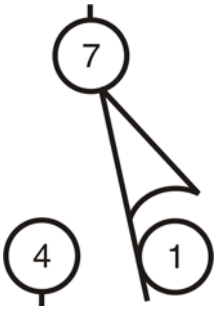
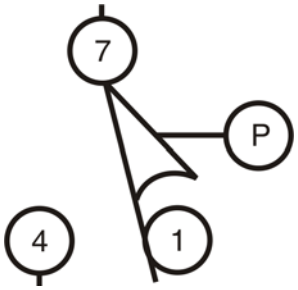


Figure 16: Pressure Switch (SP)



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

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

Figure 17: Temperature Switch (ST)

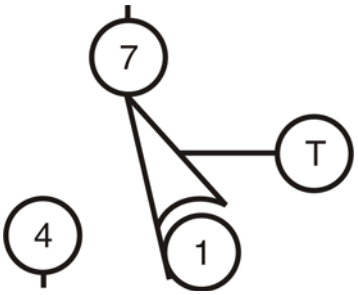
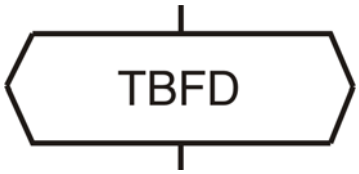


Figure 18: Terminal Board (TB)



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

Figure 19: Electrically Operated Valve (VE)

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

Figure 20: Bridge Rectifier (ZF)

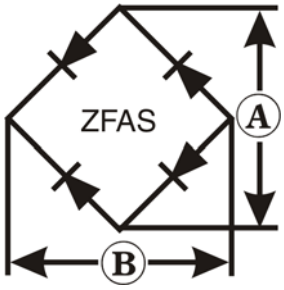
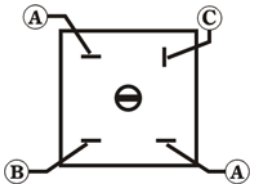
Component Symbol	Legend
	**A.** Alternating current input **B.** Direct current output

Figure 21: Bridge Rectifier

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

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

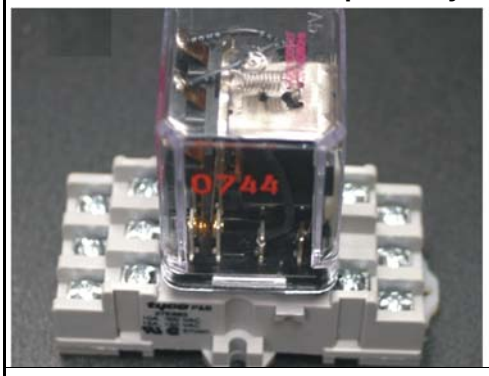
2. Component Terminal Numbering

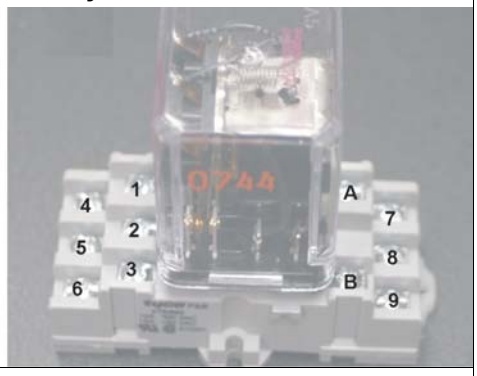
CAUTION 1: Risk of Mis-wiring—Due to electrical component manufacturing inconsistencies, the pin numbers imprinted on components such as connectors and relay bases used on Milnor machines often do not correspond to the pin numbers shown in the schematics.

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

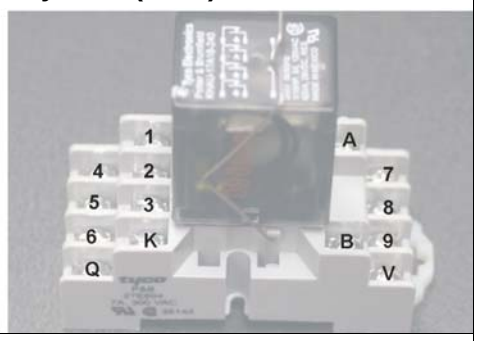
Figure 22: Plug-in Relays

11-pin Relay with Grey Base

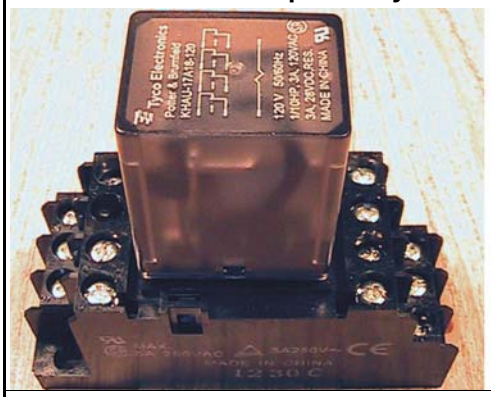


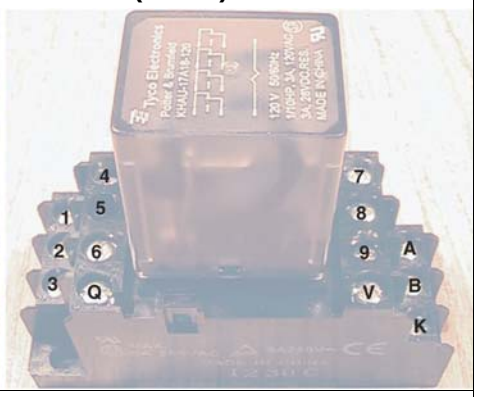


14-pin Relay with Grey Base (older)

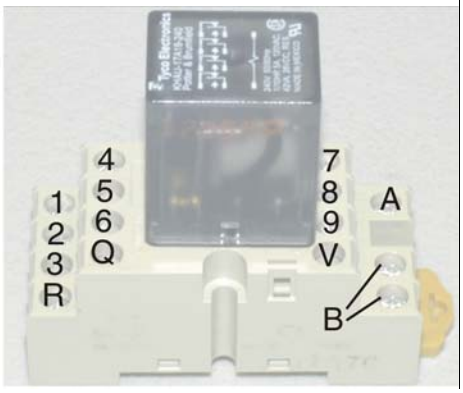


14-pin Relay with Black Base (newer)





14-pin Relay with Beige Base (rare)



Legend

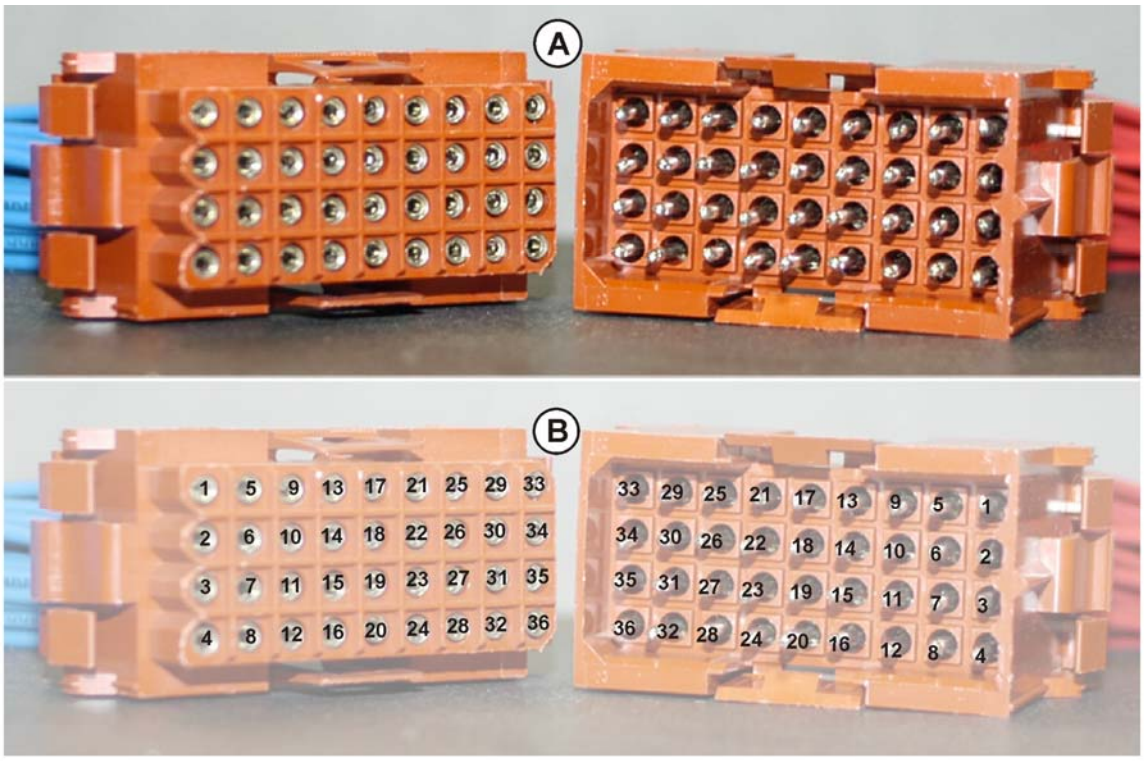
Left. View of relay and base

Right. Same view, showing pin numbers

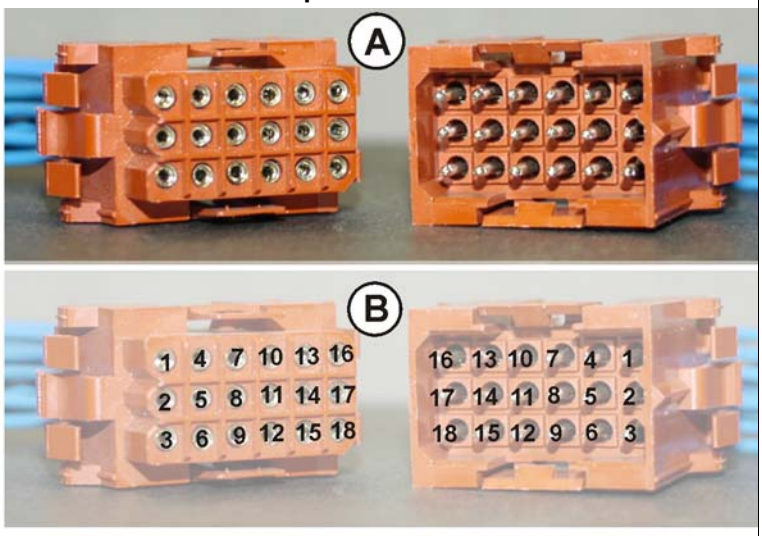
Note 3: Relay functional names ending with the letter "M" (e.g., CRxxM) are not discrete components but are a component of a printed circuit board. They are usually not individually replaceable.

Figure 23: AMP Connector Pin Locations

36-pin Connector



18-pin Connector

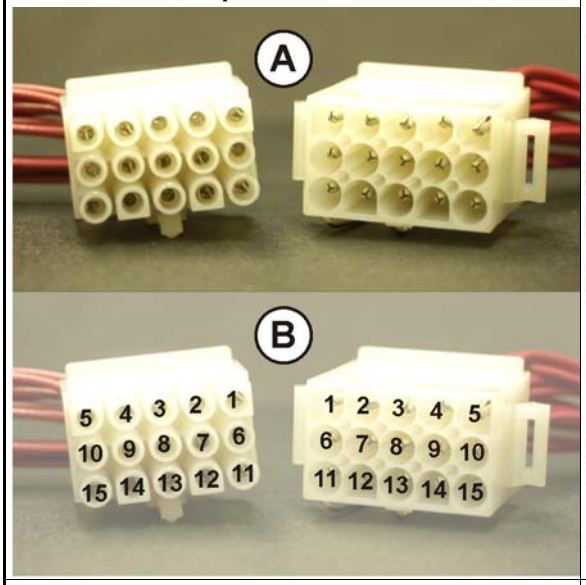


Legend

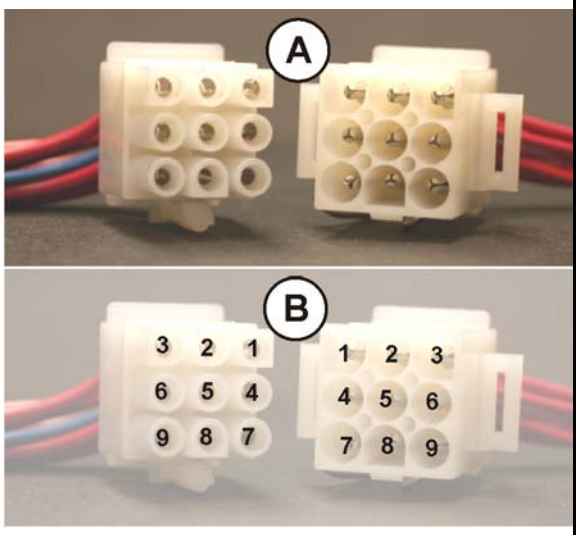
A. View of mating halves of connector
B. Same view, showing assigned pin numbers

Figure 24: Molex Connector Pin Locations

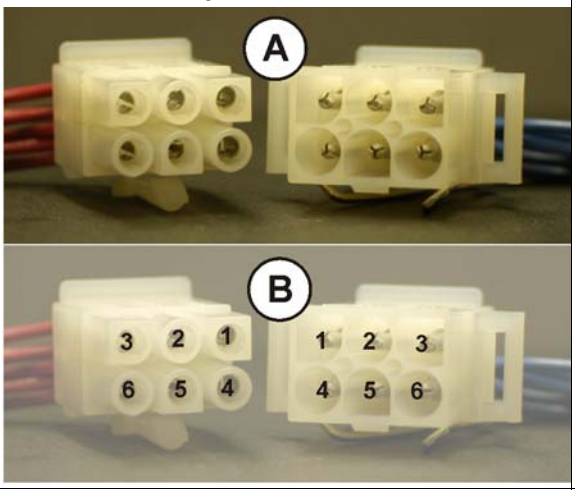
15-pin Connector



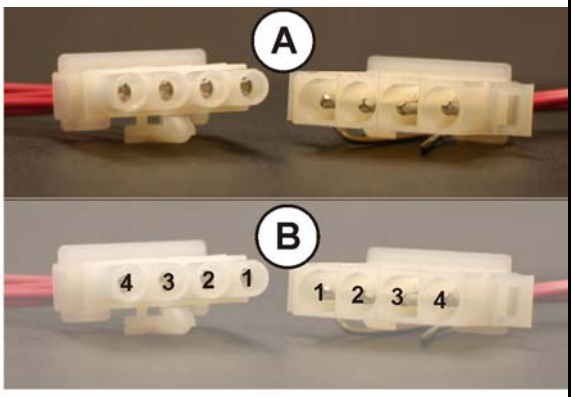
9-pin Connector



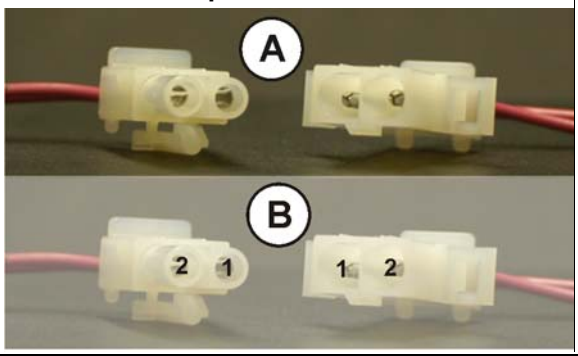
6-pin Connector



4-Pin Connector



2-pin Connector



Legend

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

Figure 25: Pressure Switch

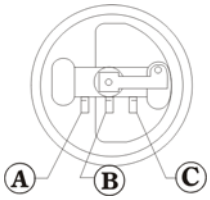
Component	Legend
	**A.** Contact 1—Normally open **B.** Contact 2—Normally closed **C.** Contact 3—Common

Figure 26: Toggle Switch

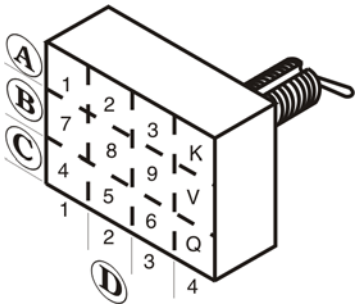
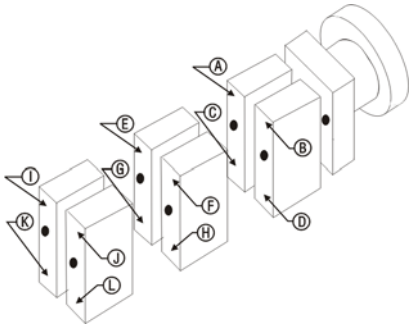
Component	Legend
	**A.** Normally closed contacts **B.** Common contacts **C.** Normally open contacts **D.** Pole

Figure 27: Switch with Replaceable Contact Blocks

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

3. Features of Milnor® Electrical Schematic Diagrams

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

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

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

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

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

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

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

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

— End of BIUUUK01 —

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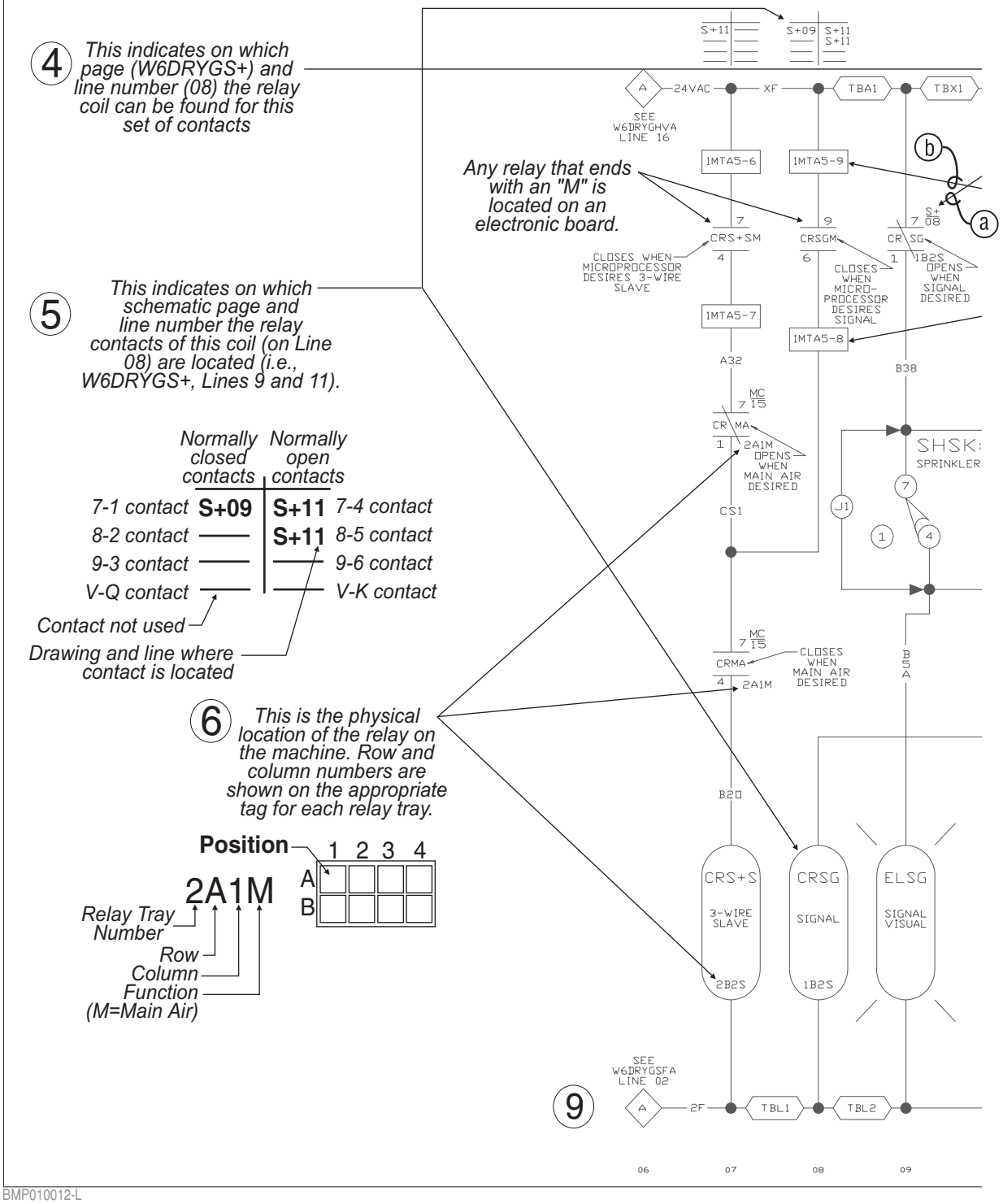
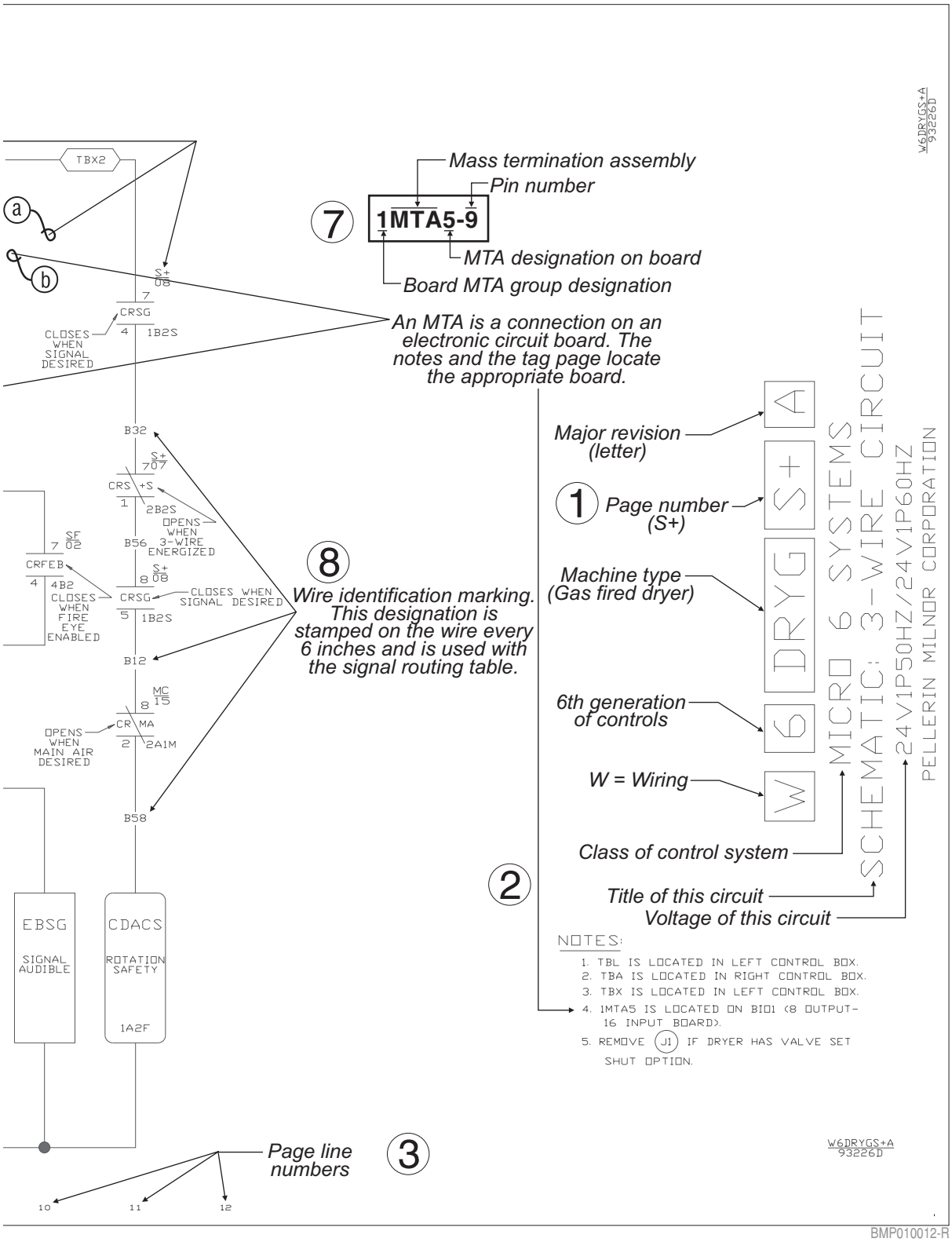
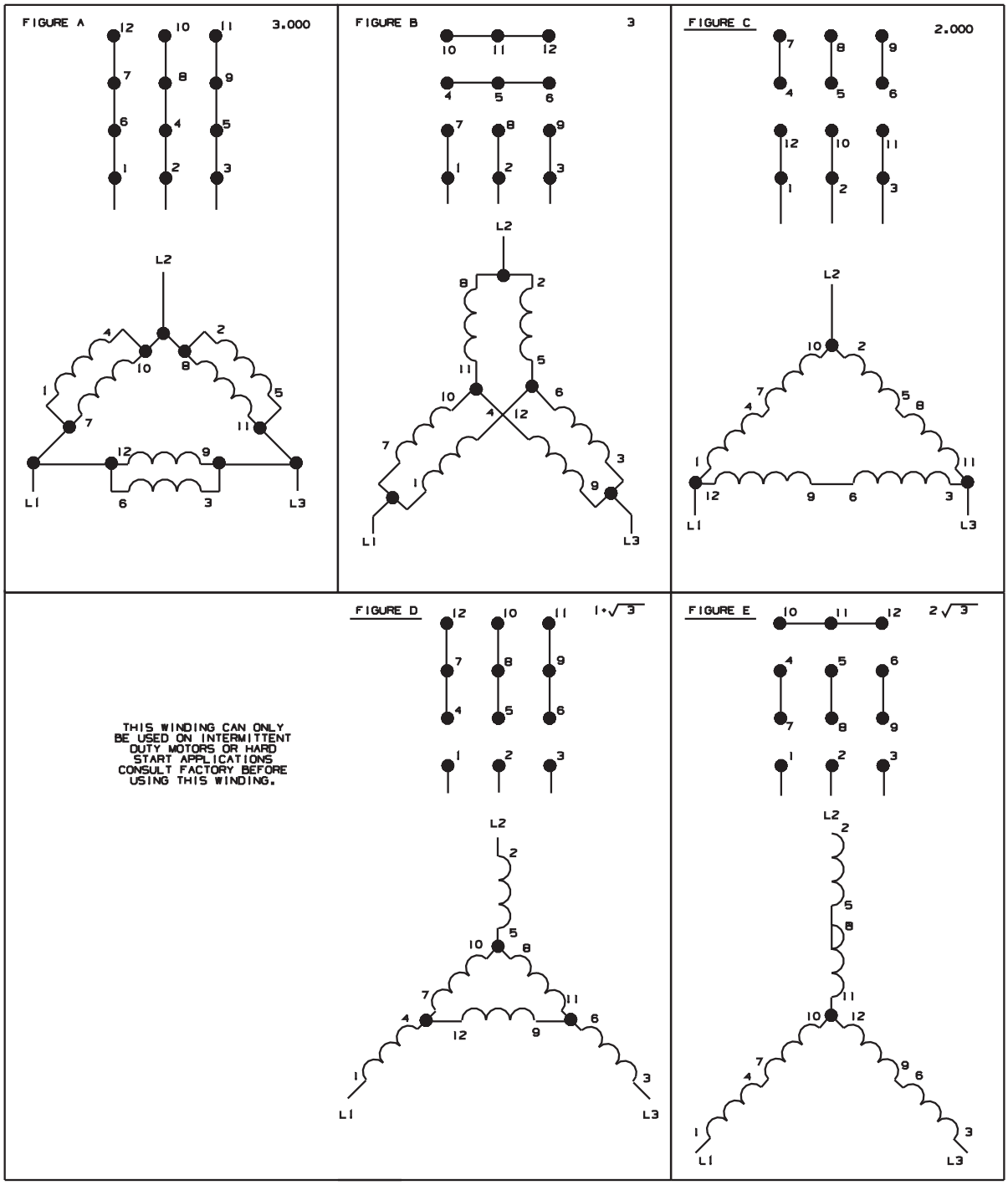

4
This indicates on which page (W6DRYGS+) and line number (08) the relay coil can be found for this set of contacts
5
This indicates on which schematic page and line number the relay contacts of this coil (on Line 08) are located (i.e., W6DRYGS+, Lines 9 and 11).
Normally closed contacts
Normally open 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

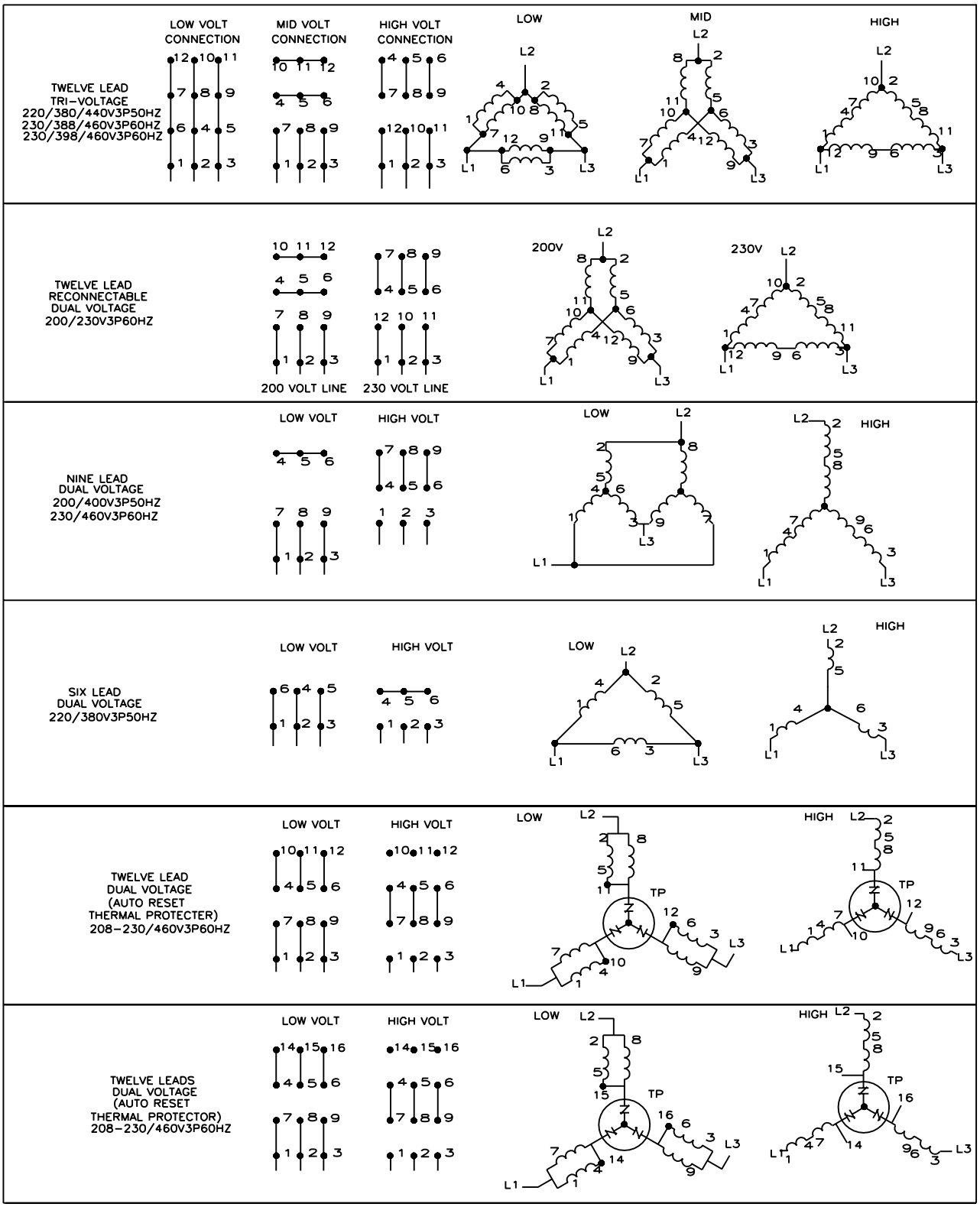
BMP850029

MOTOR CONNECTION DIAGRAMS

THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS

(ONLY FOR MOTOR SUFFIXES LISTED)

PELLERIN MILNOR CORPORATION

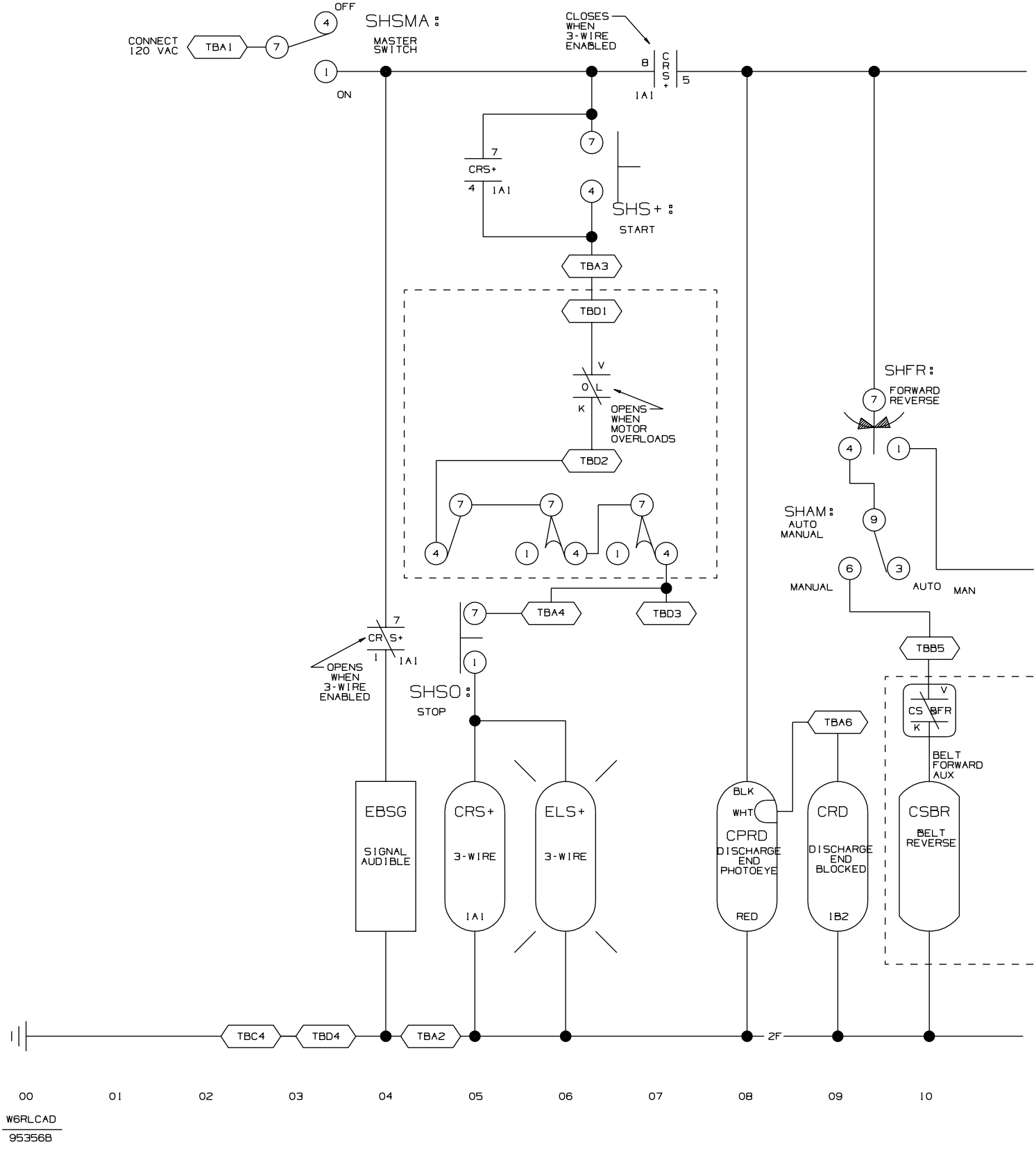


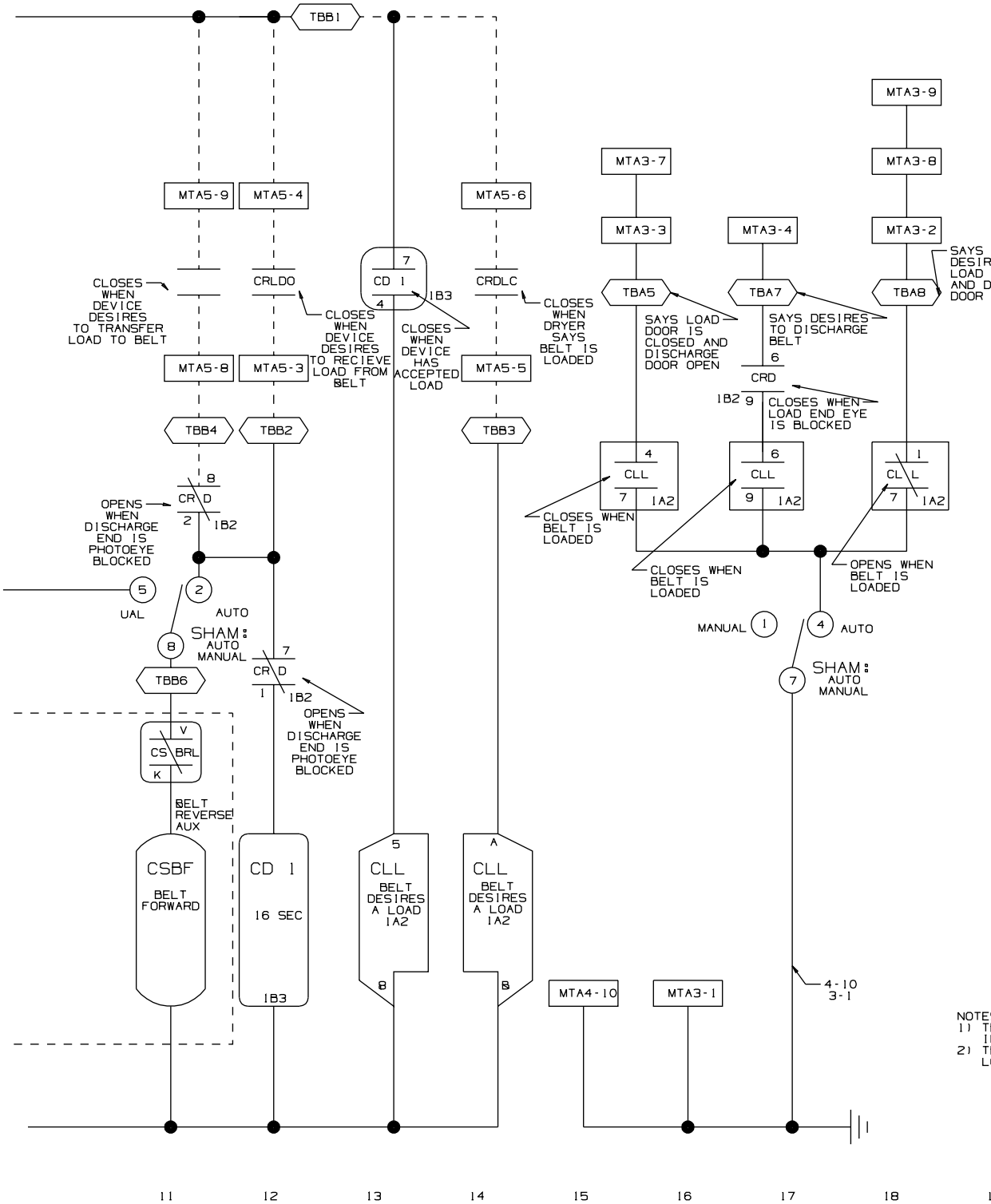
W80008

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

PELLERIN MILNOR CORPORATION

W80008
2001253A

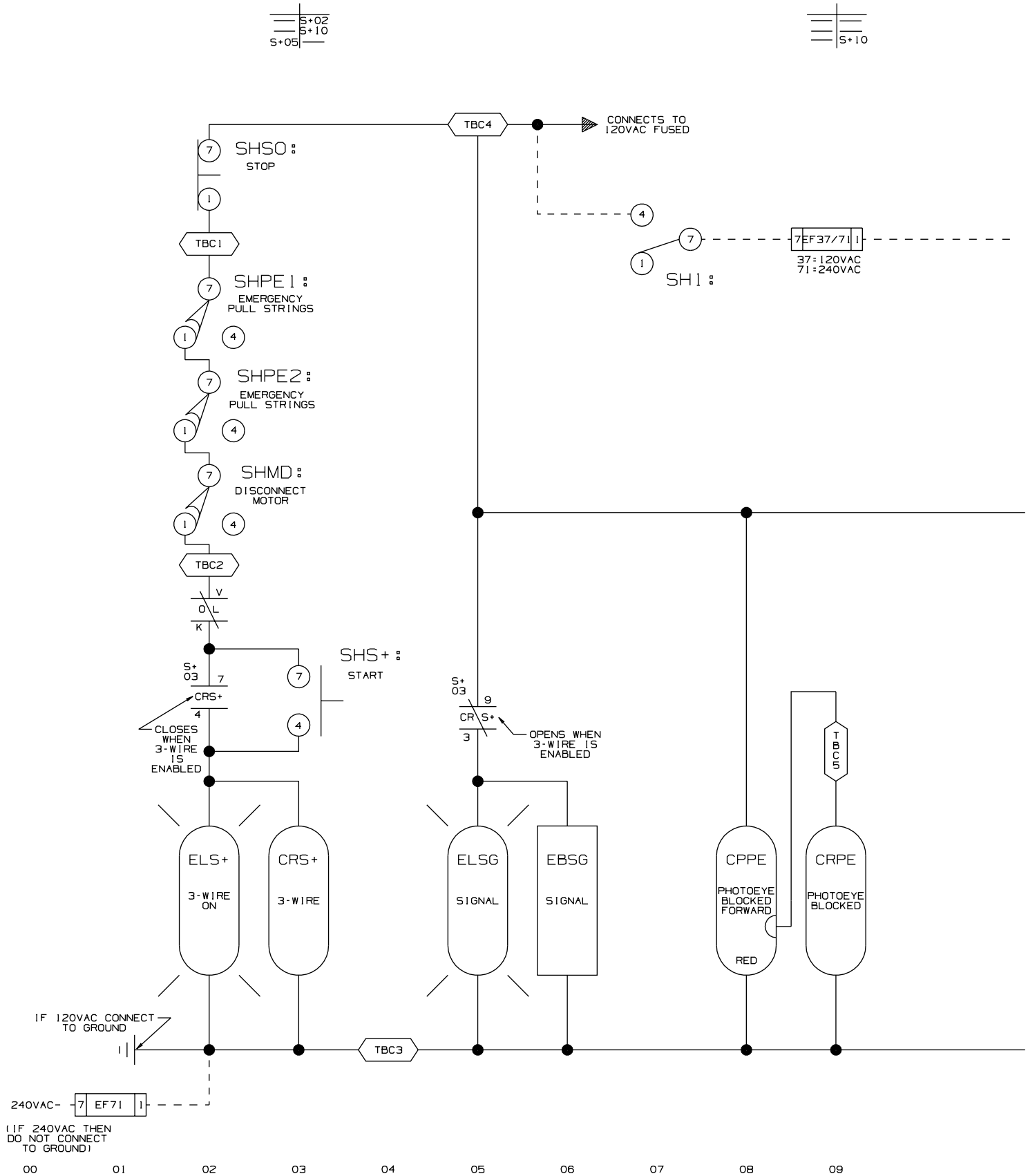

CONNECT 120 VAC
TBA1
OFF
SHSMA:
MASTER SWITCH
ON
CLOSES WHEN 3-WIRE ENABLED
CRS+
1A1
CRS+
1A1
SHS+:
START
TBA3
TBD1
OL
K
OPENS WHEN MOTOR OVERLOADS
TBD2
SHFR:
FORWARD
REVERSE
SHAM:
AUTO
MANUAL
MANUAL
AUTO
MAN
TBB5
TBA4
TBD3
CR S+
1A1
OPENS WHEN 3-WIRE ENABLED
SHSO:
STOP
CS BFR
K
BELT FORWARD AUX
TBA6
EBSG
SIGNAL AUDIBLE
CRS+
3-WIRE
1A1
ELS+
3-WIRE
BLK
WHT
CPRD
DISCHARGE END PHOTOEYE
RED
CRD
DISCHARGE END BLOCKED
1B2
CSBR
BELT REVERSE
TBC4
TBD4
TBA2
2F
00
01
02
03
04
05
06
07
08
09
10
W6RLCAD
953568



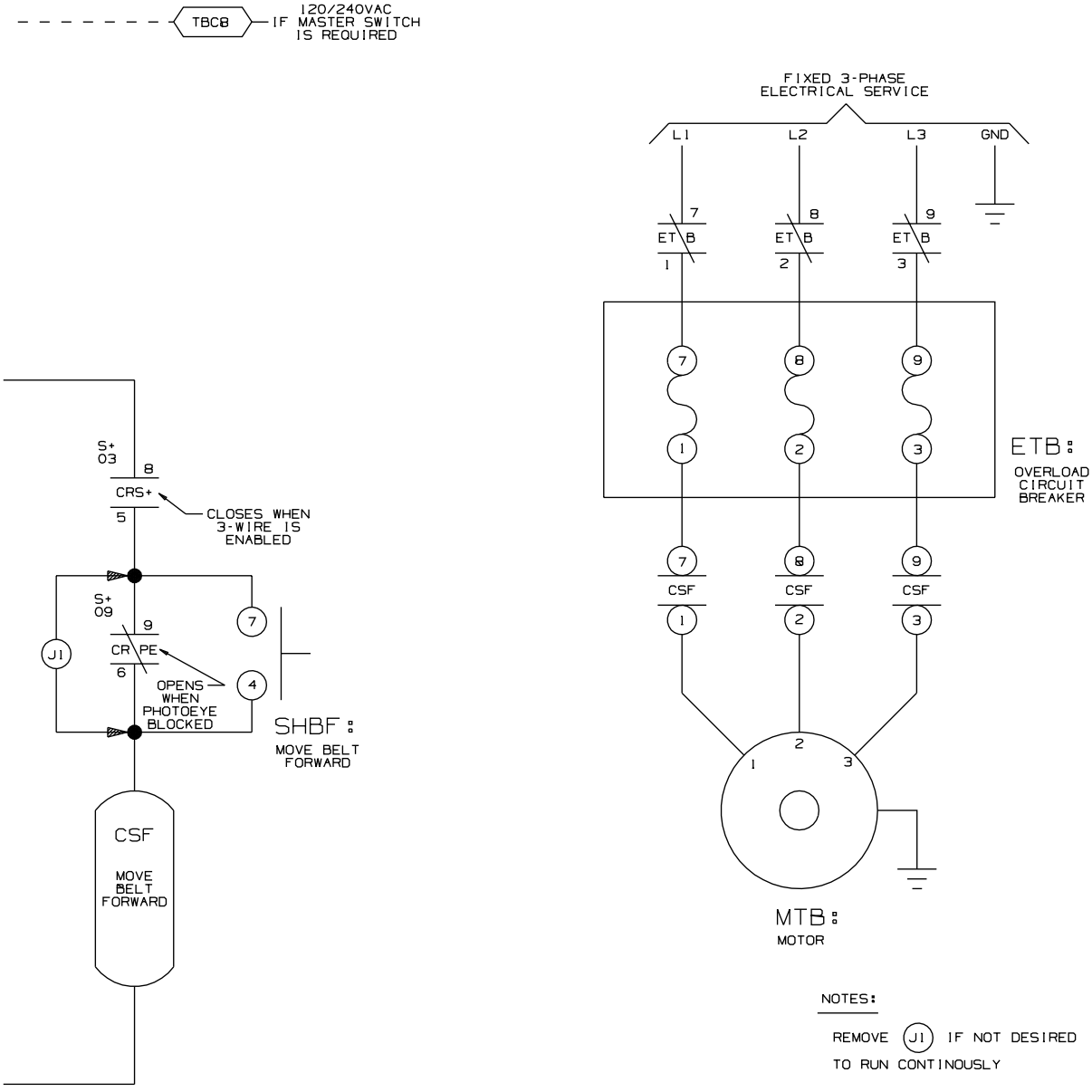
W6RLCAD
MICRO 6 SYSTEMS
SCHEMATIC: ALLIED DRYER INTERFACE FOR DEVICE MASTER ALLOWS BELT TO ACT LIKE DRYER

PELLERIN MILNOR CORPORATION

NOTES:
1) TBA AND TBB ARE LOCATED IN BELT CONTROLLER BOX.
2) TBC AND TBD FUSES ARE LOCATED IN CONTACTOR BOX.



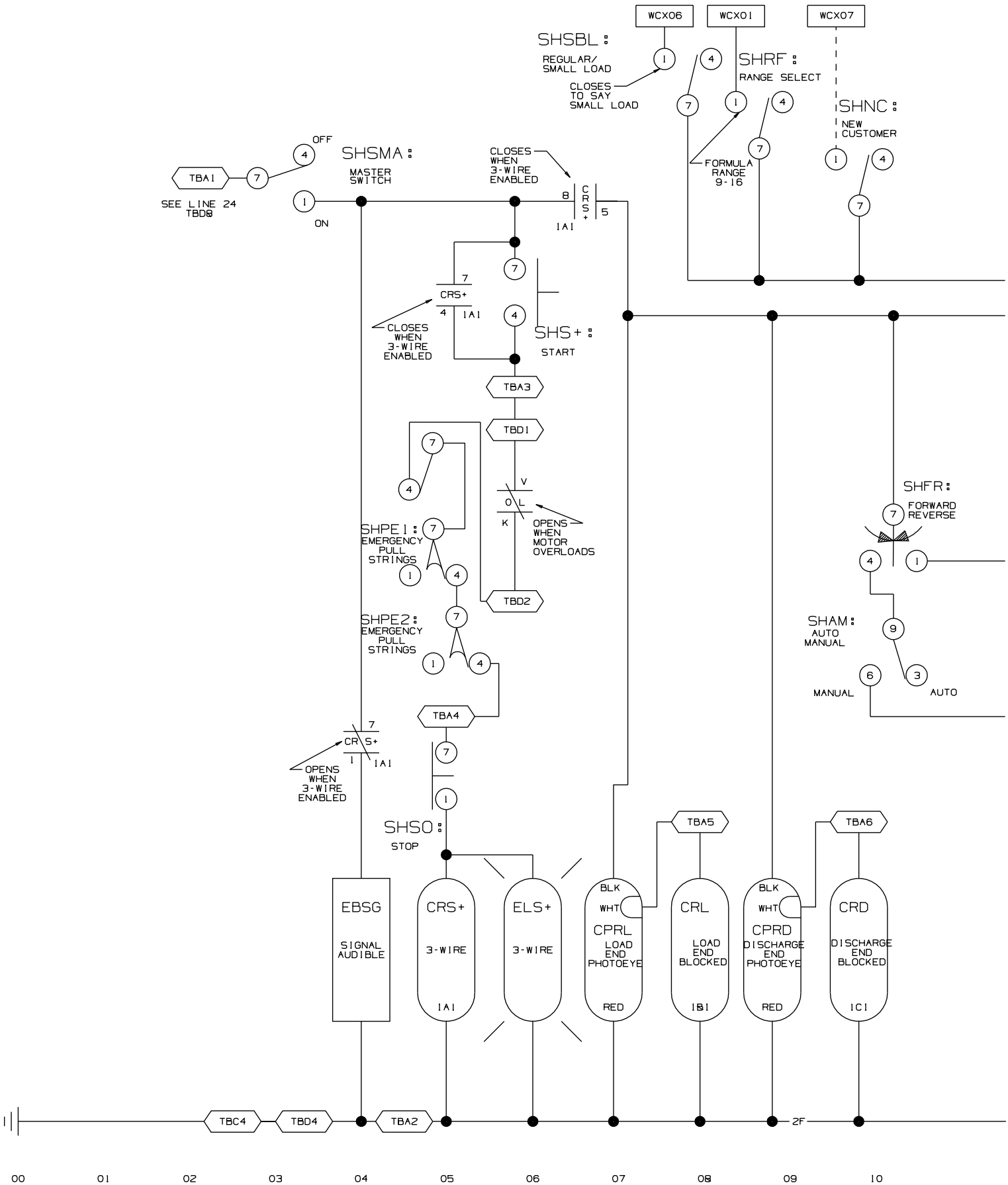
W6RLCBS+
95356B



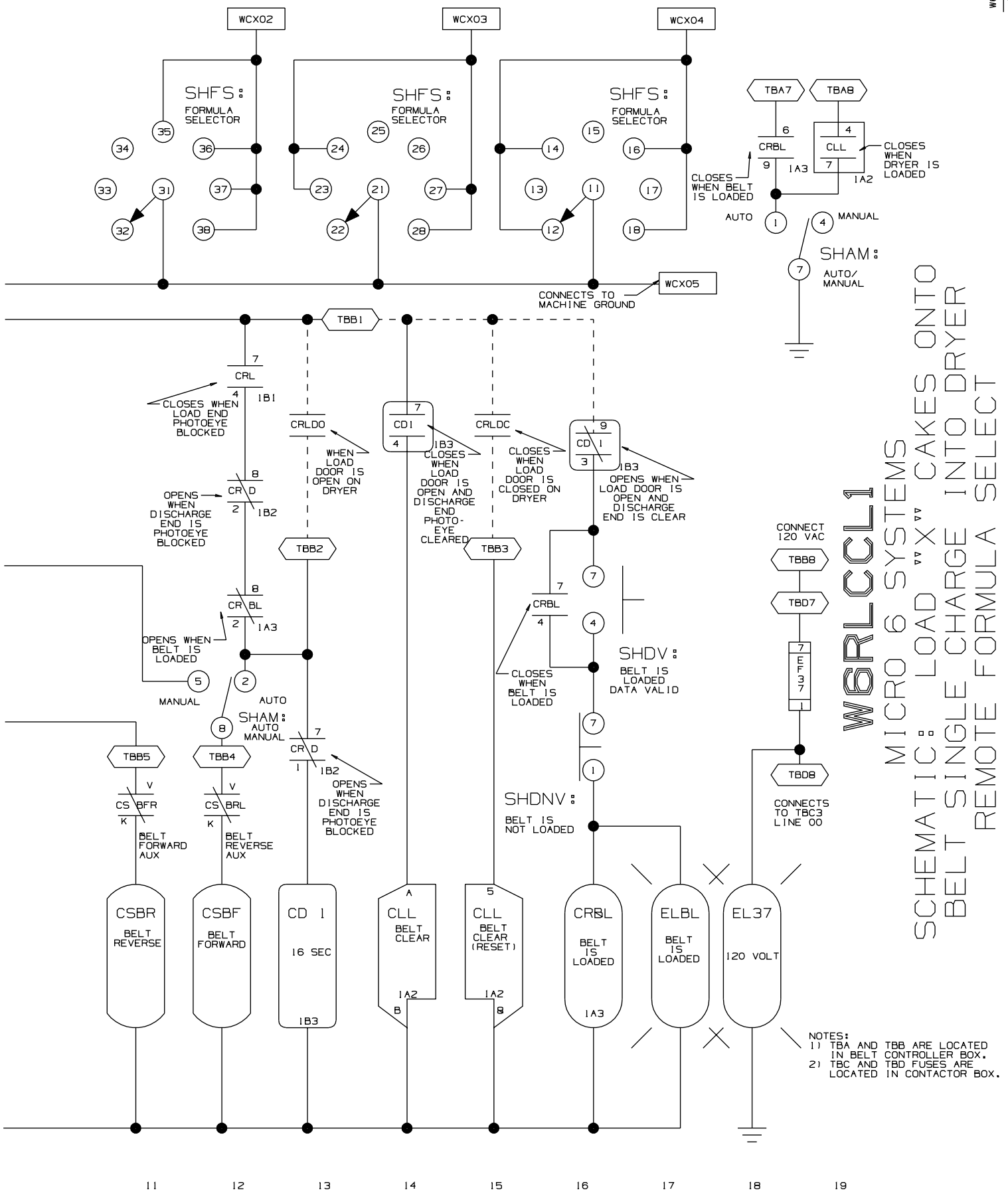
W6RLCBS+
SCHEMATIC: 3-WIRE CIRCUIT FOR BELT CONTROLS

PELLERIN MILNOR CORPORATION

10 11 12 13 14 15 16 17



W6RLCCL1
95356B

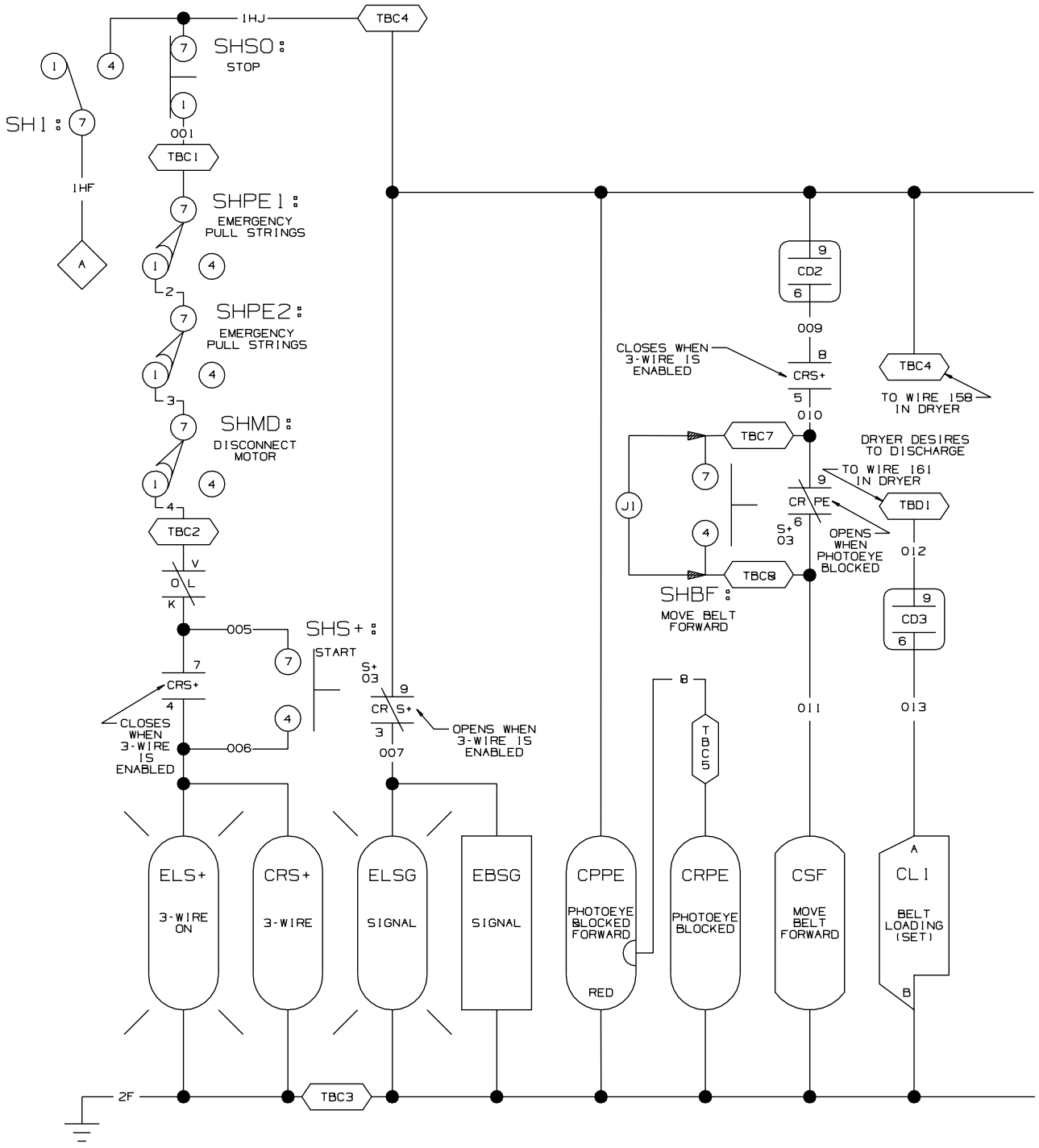


W6RLCL1

MICRO 6 SYSTEMS

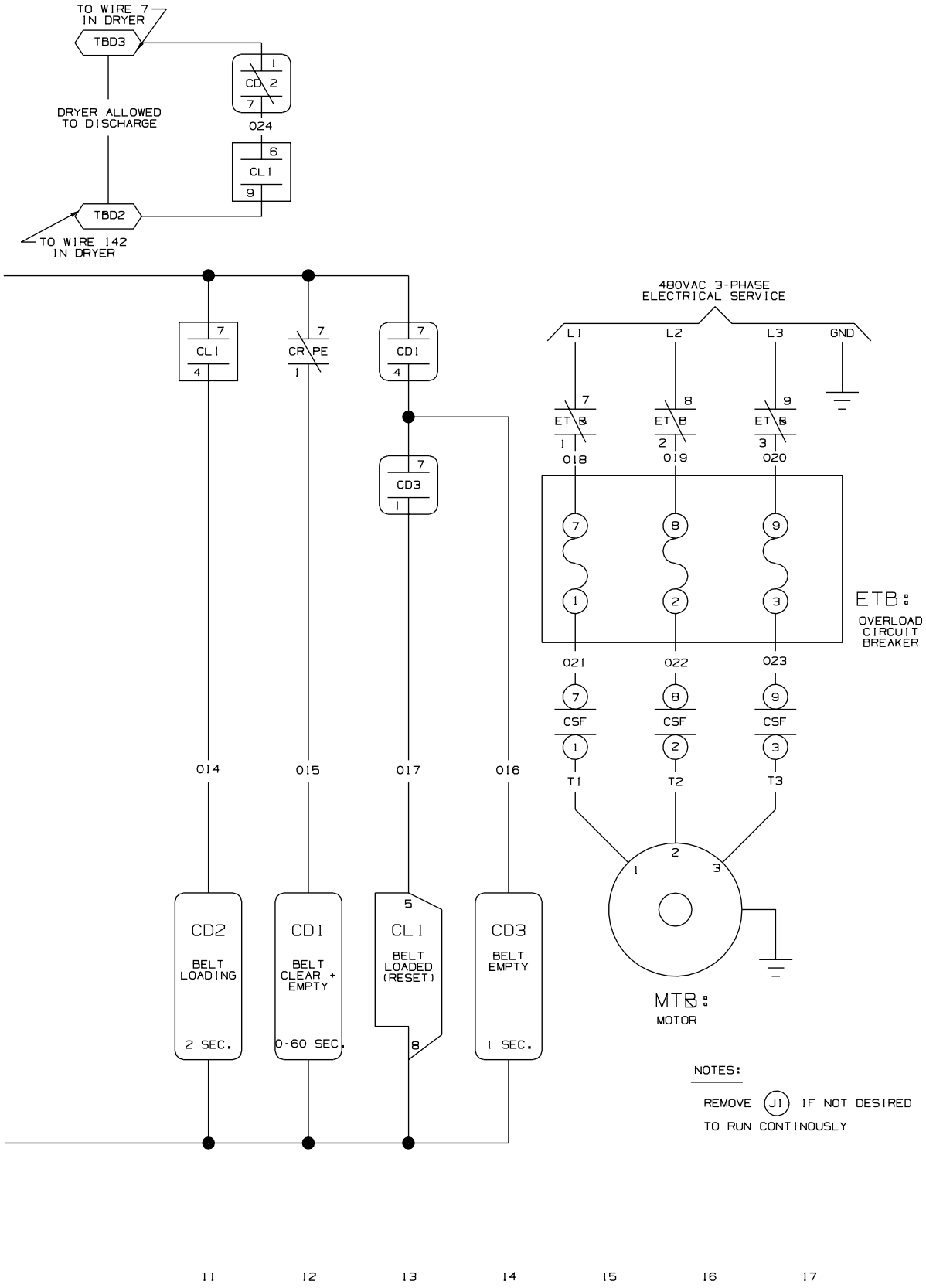
SCHEMATIC: LOAD XX CAKES ONTO BELT SINGLE CHARGE INTO DRYER REMOTE FORMULA SELECT

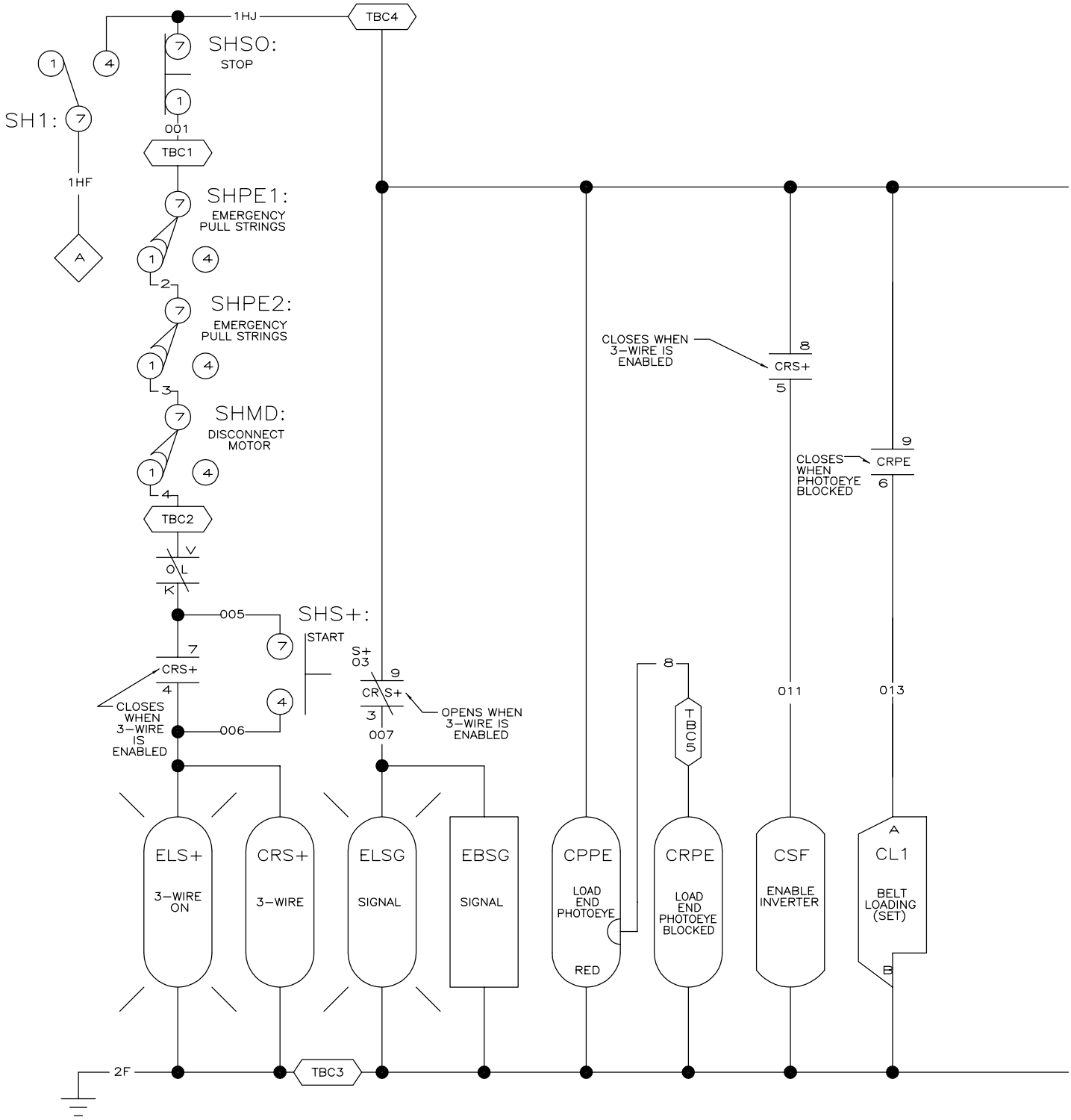
PELLERIN MILNOR CORPORATION


1HJ
TBC4
SHS0:
STOP
001
TBC1
SH1:
1HF
A
SHPE1:
EMERGENCY
PULL STRINGS
SHPE2:
EMERGENCY
PULL STRINGS
SHMD:
DISCONNECT
MOTOR
TBC2
005
SHS+:
START
CRS+
CLOSES
WHEN
3-WIRE
IS
ENABLED
006
CR S+
OPENS WHEN
3-WIRE IS
ENABLED
007
CD2
009
CRS+
CLOSES WHEN
3-WIRE IS
ENABLED
010
TBC4
TO WIRE 158
IN DRYER
TBC7
DRYER DESIRES
TO DISCHARGE
TO WIRE 161
IN DRYER
TBD1
CR PE
OPENS
WHEN
PHOTOEYE
BLOCKED
012
J1
TBC8
SHBF:
MOVE BELT
FORWARD
CD3
011
013
TBC5
ELS+
3-WIRE
ON
CRS+
3-WIRE
ELSG
SIGNAL
EBSG
SIGNAL
CPPE
PHOTOEYE
BLOCKED
FORWARD
RED
CRPE
PHOTOEYE
BLOCKED
CSF
MOVE
BELT
FORWARD
CL1
BELT
LOADING
(SET)
2F
TBC3
00
01
02
03
04
05
06
07
08
09
10

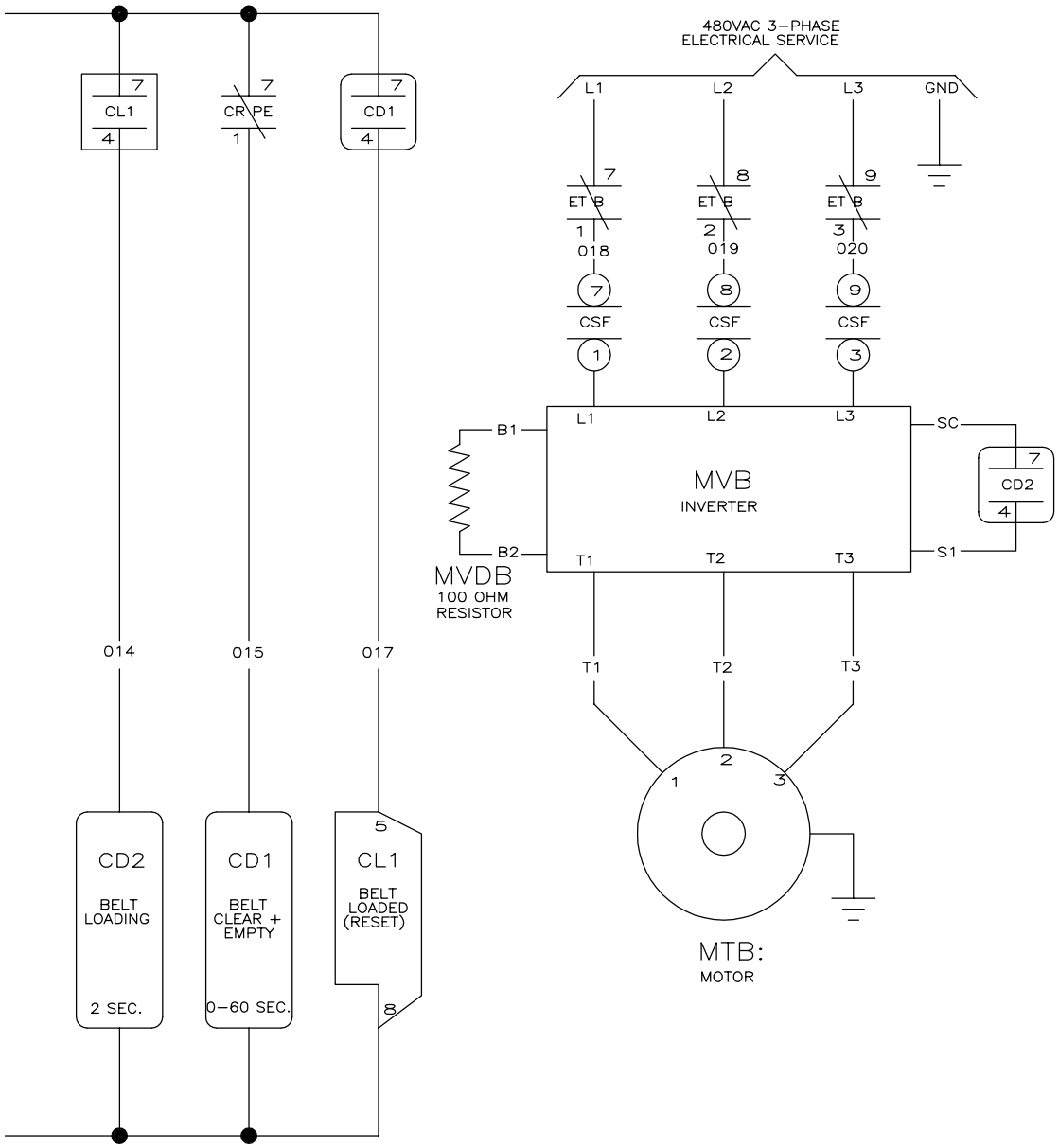
W6RLCDDB
SCHEMATIC: 3-WIRE CIRCUIT FOR BELT DRYER DISCHARGE

PELLERIN MILNOR CORPORATION





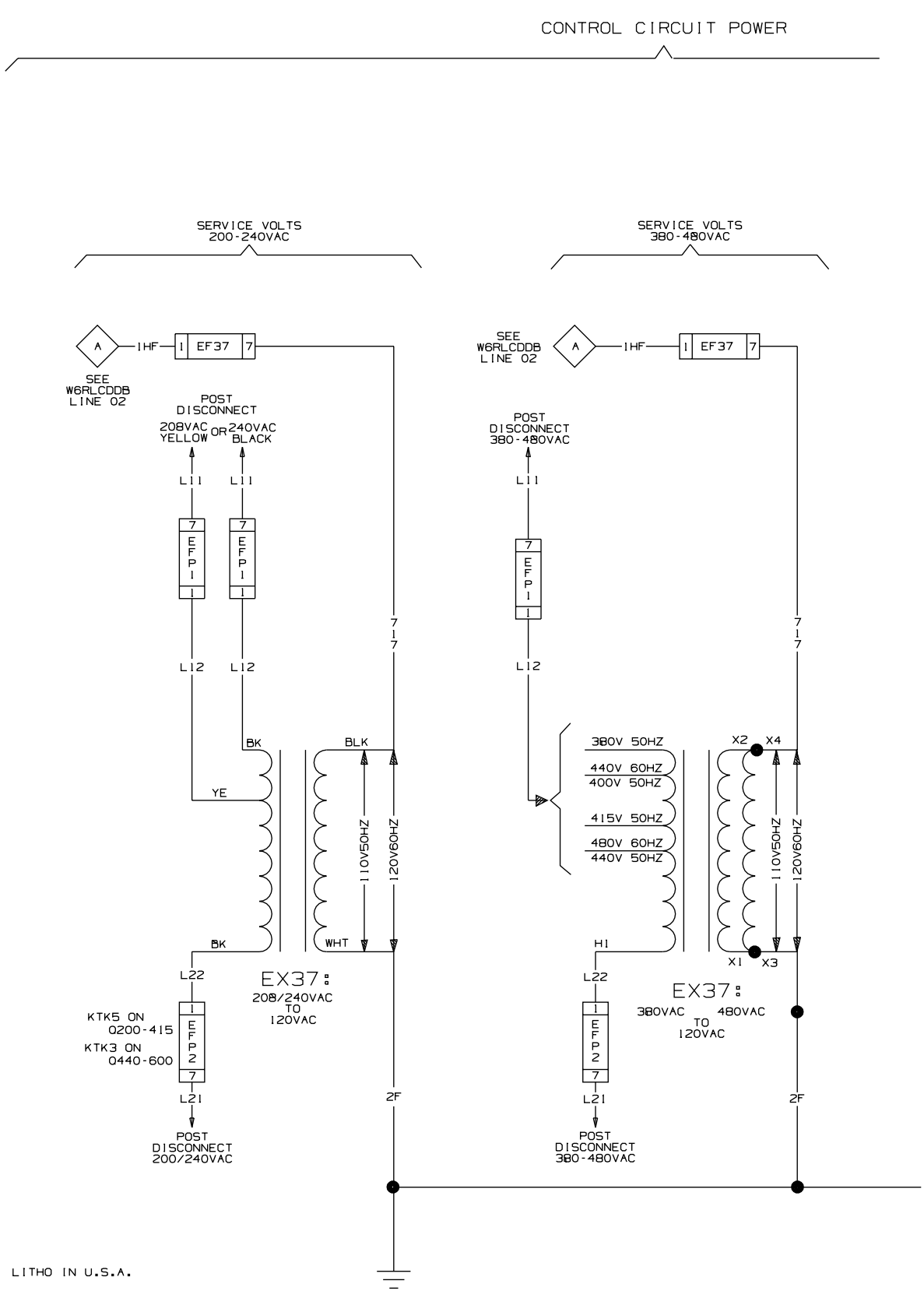
W6RLCDDJ
2010276B



W6RLCDDJ

SCHEMATIC: 3–WIRE CIRCUIT FOR CBW DISCHARGE TO LOAD CHUTE

PELLERIN MILNOR CORPORATION



W6RLCDDT
20001158

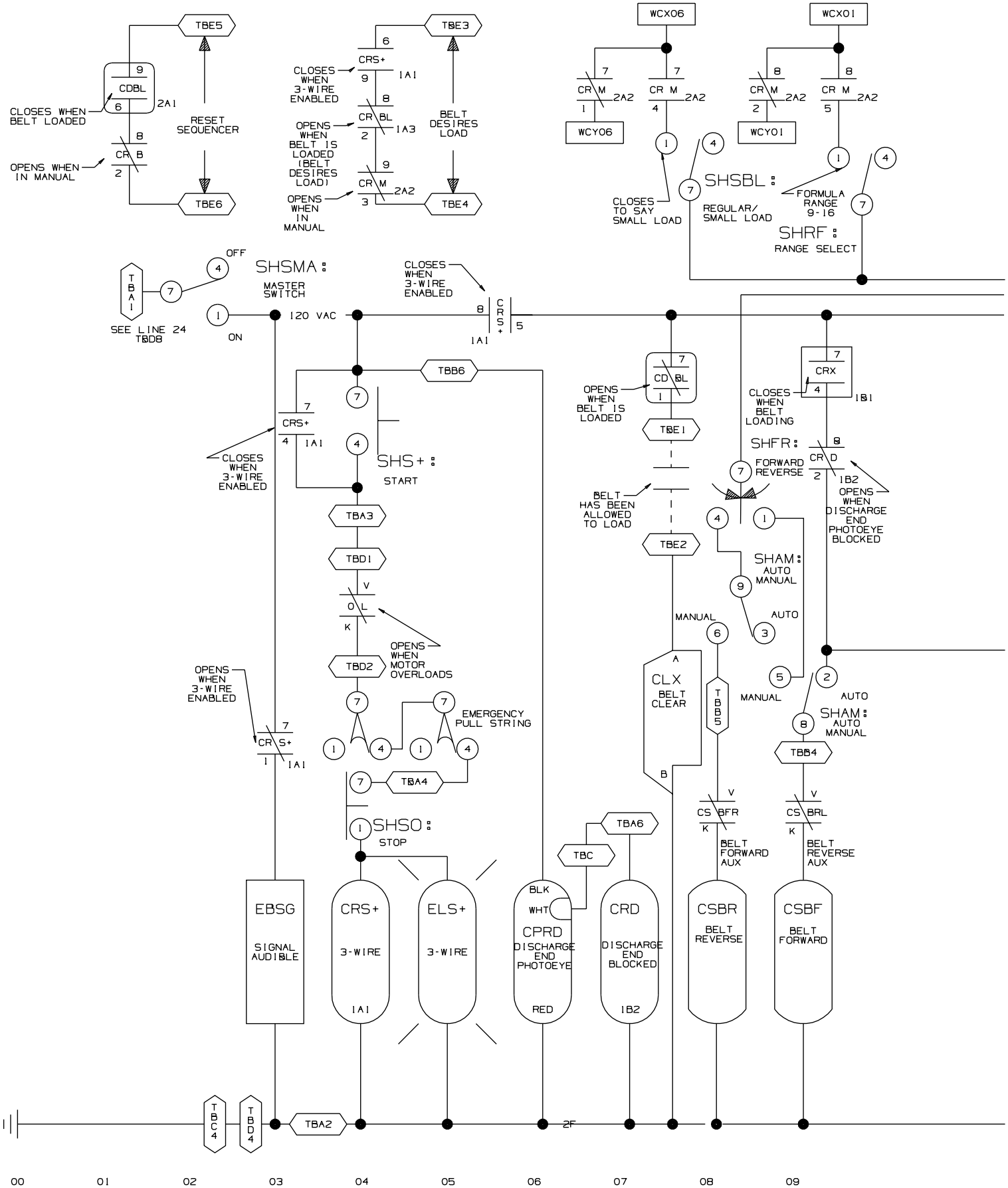
W6RLCDDT

MICRO 6 SYSTEMS
SERIAL CONTROLS
MARK II

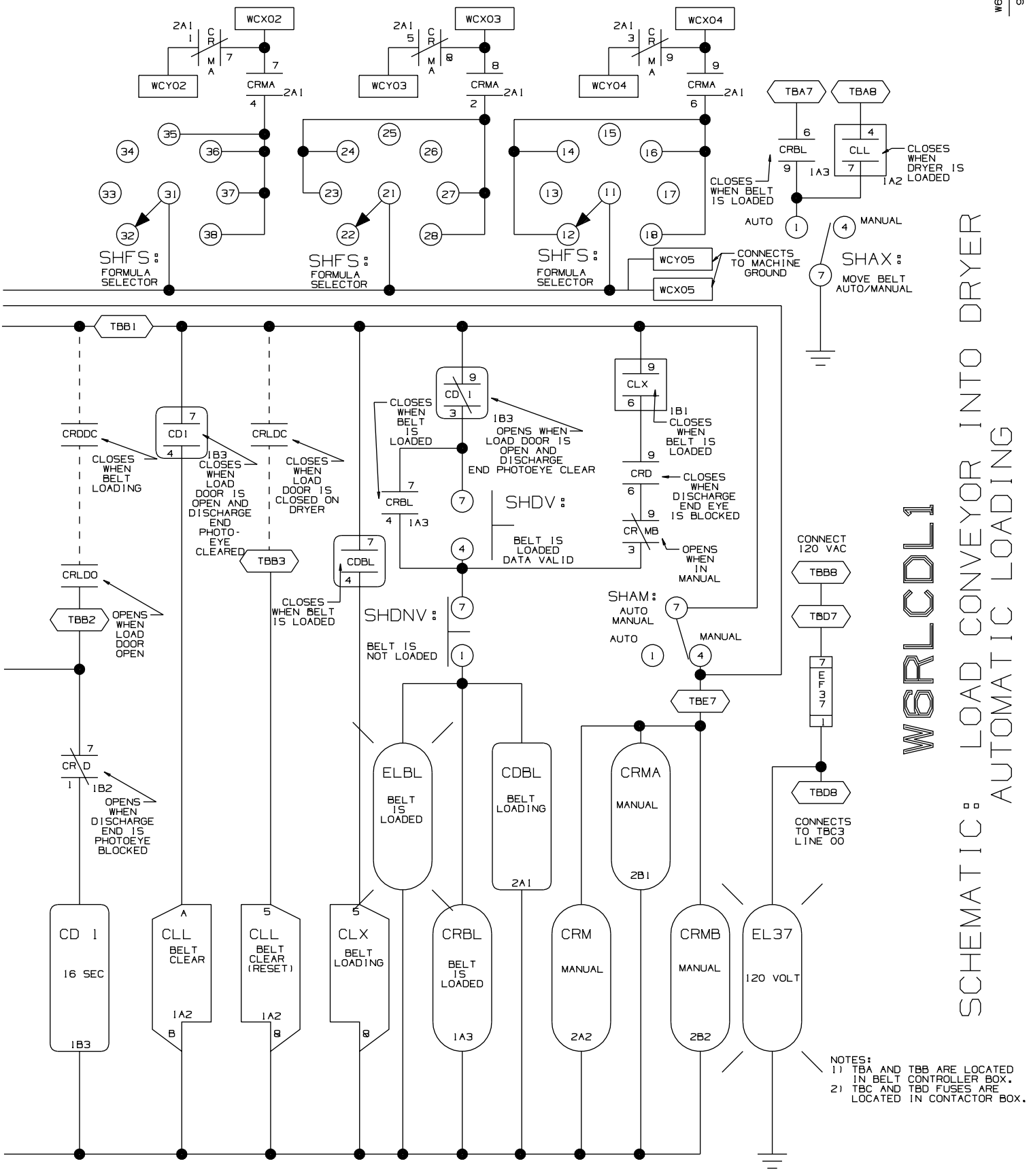
SCHEMATIC: SOURCE 110V1P50HZ/120V1P60HZ
CONTROL CIRCUIT POWER

PELLERIN MILNOR CORPORATION

09 10 11 12 13 14 15



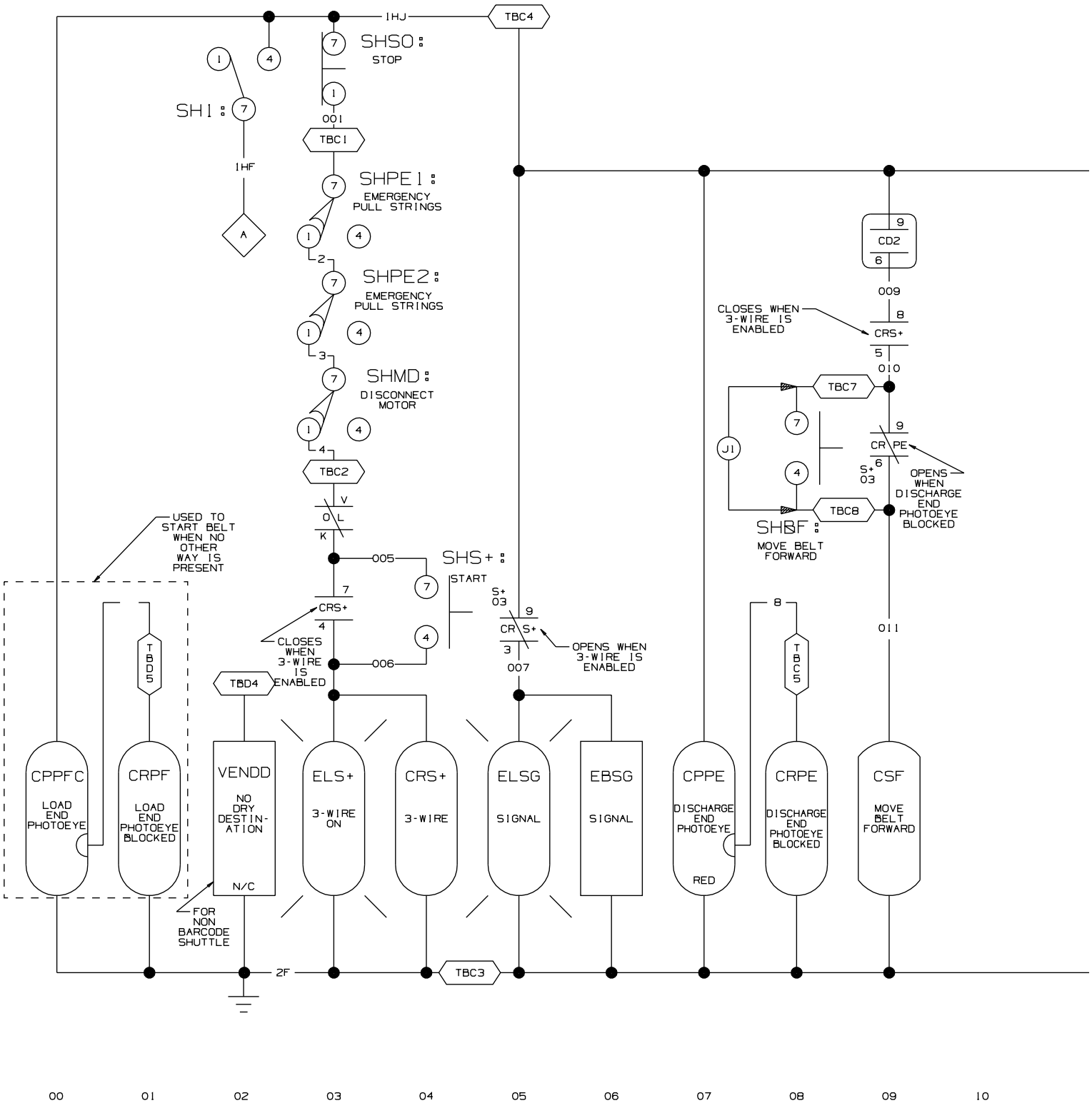
W6RLCDL1
95356B



W6RLCDL1 SCHEMATIC: LOAD CONVEYOR INTO DRYER AUTOMATIC LOADING

PELLERIN MILNOR CORPORATION

NOTES:
1) TBA AND TBB ARE LOCATED IN BELT CONTROLLER BOX.
2) TBC AND TBD FUSES ARE LOCATED IN CONTACTOR BOX.

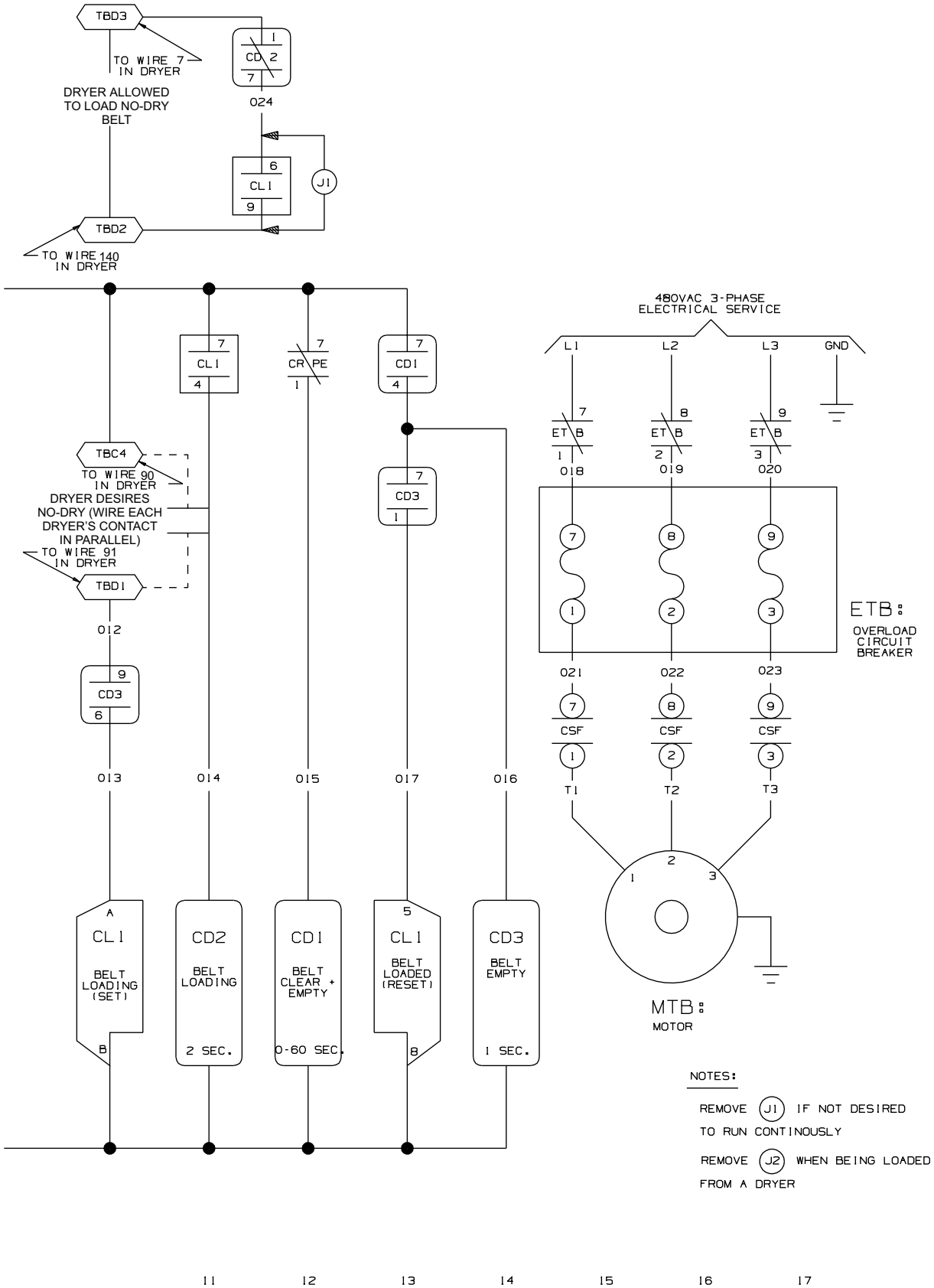


W6RLCNDB
2000245B

W6RLCNDB

SCHEMATIC: 3-WIRE CIRCUIT FOR BELT NO DRY DISCHARGE

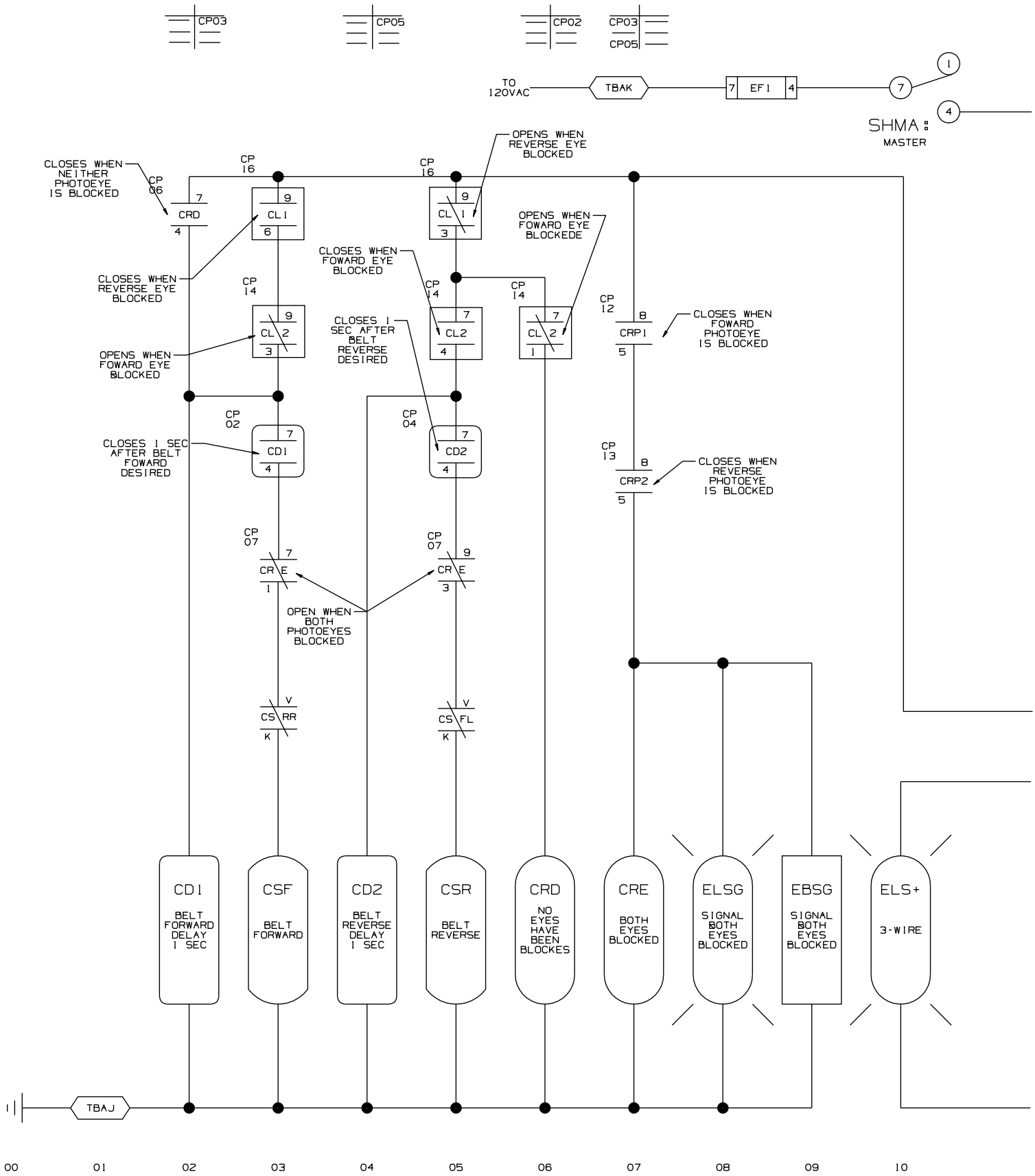
PELLERIN MILNOR CORPORATION

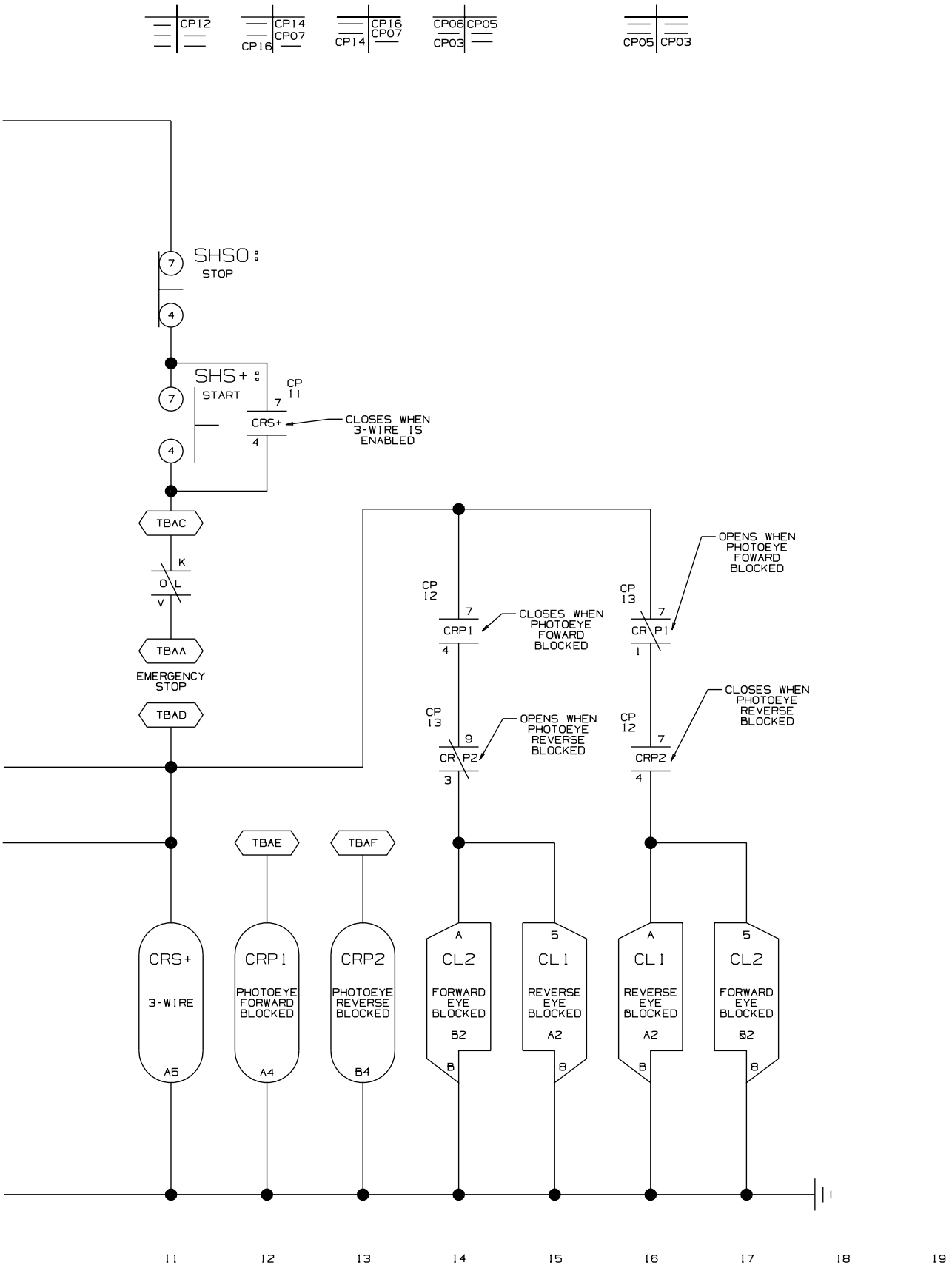


NOTES:

REMOVE (J1) IF NOT DESIRED TO RUN CONTINOUSLY

REMOVE (J2) WHEN BEING LOADED FROM A DRYER

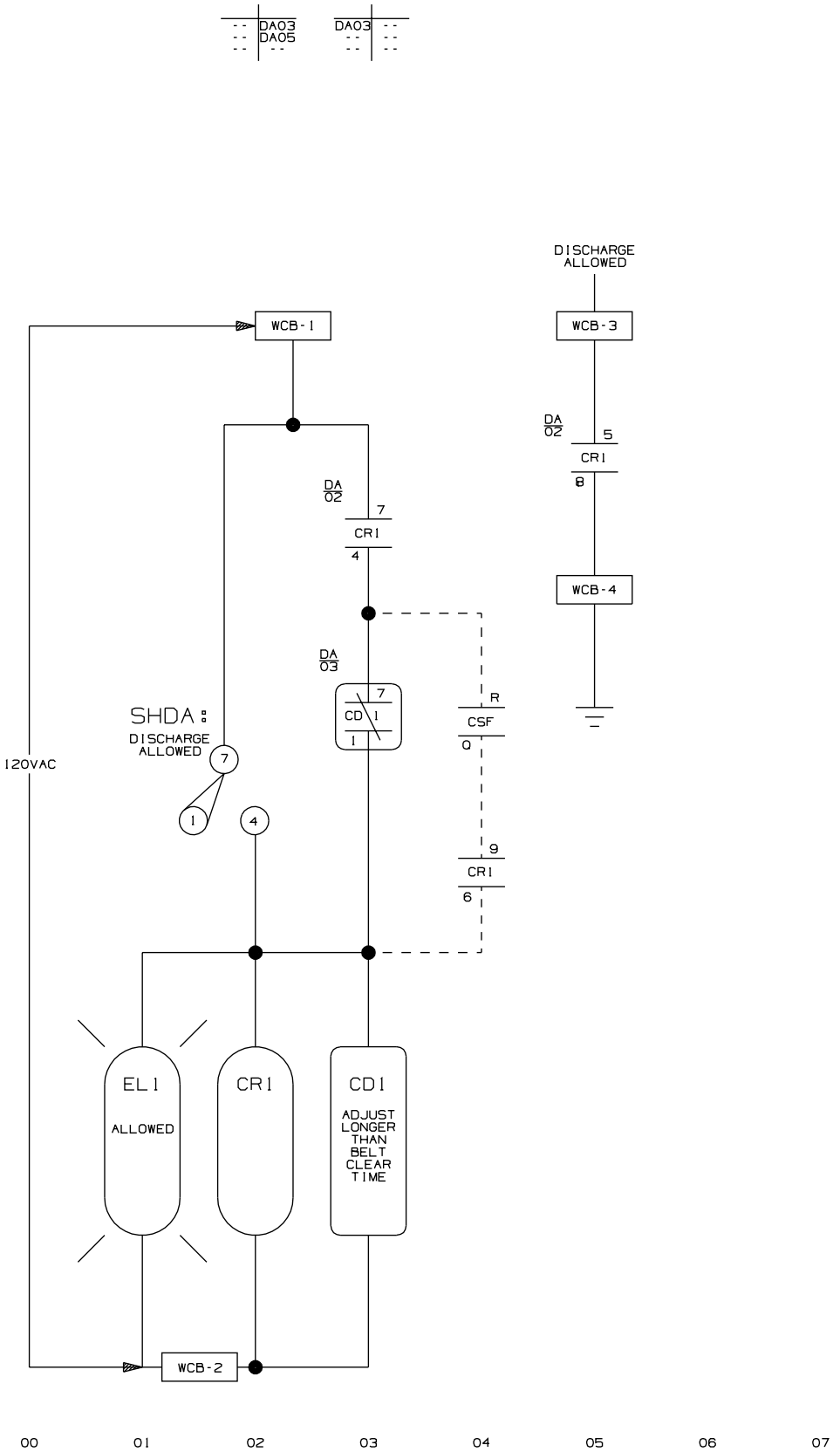

CP03
CP05
CP02
CP03
CP05
TO 120VAC
TBAK
7 EF1 4
1
7
4
SHMA
MASTER
CLOSES WHEN NEITHER PHOTOEYE IS BLOCKED
CP 06
7 CRD 4
CP 16
9 CL1 6
CP 16
OPENS WHEN REVERSE EYE BLOCKED
9 CL1 3
OPENS WHEN FOWARD EYE BLOCKEDE
CLOSES WHEN REVERSE EYE BLOCKED
CLOSES WHEN FOWARD EYE BLOCKED
CP 14
9 CL2 3
OPENS WHEN FOWARD EYE BLOCKED
CP 14
7 CL2 4
CP 14
7 CL2 1
CLOSES 1 SEC AFTER BELT REVERSE DESIRED
CP 12
8 CRP1 5
CLOSES WHEN FOWARD PHOTOEYE IS BLOCKED
CP 02
7 CD1 4
CLOSES 1 SEC AFTER BELT FOWARD DESIRED
CP 04
7 CD2 4
CP 13
8 CRP2 5
CLOSES WHEN REVERSE PHOTOEYE IS BLOCKED
CP 07
7 CR E 1
CP 07
9 CR E 3
OPEN WHEN BOTH PHOTOEYES BLOCKED
V CS RR K
V CS FL K
CD1 BELT FORWARD DELAY 1 SEC
CSF BELT FORWARD
CD2 BELT REVERSE DELAY 1 SEC
CSR BELT REVERSE
CRD NO EYES HAVE BEEN BLOCKES
CRE BOTH EYES BLOCKED
ELSG SIGNAL BOTH EYES BLOCKED
EBSG SIGNAL BOTH EYES BLOCKED
ELS+ 3-WIRE
1
TBAJ
00 01 02 03 04 05 06 07 08 09 10



W6RLCSCP

SCHEMATIC: SORTING BELT CONTROLLER WITH PHOTOEYES EACH END

PELLERIN MILNOR CORPORATION


DA03
DA05
DA03
DISCHARGE ALLOWED
WCB-1
WCB-3
DA 02
5
CR1
8
WCB-4
DA 02
7
CR1
4
DA 03
7
CD 1
1
R
CSF
0
SHDA:
DISCHARGE ALLOWED
7
120VAC
1
4
9
CR1
6
EL1
ALLOWED
CR1
CD1
ADJUST LONGER THAN BELT CLEAR TIME
WCB-2
00
01
02
03
04
05
06
07

W6RLCSDA

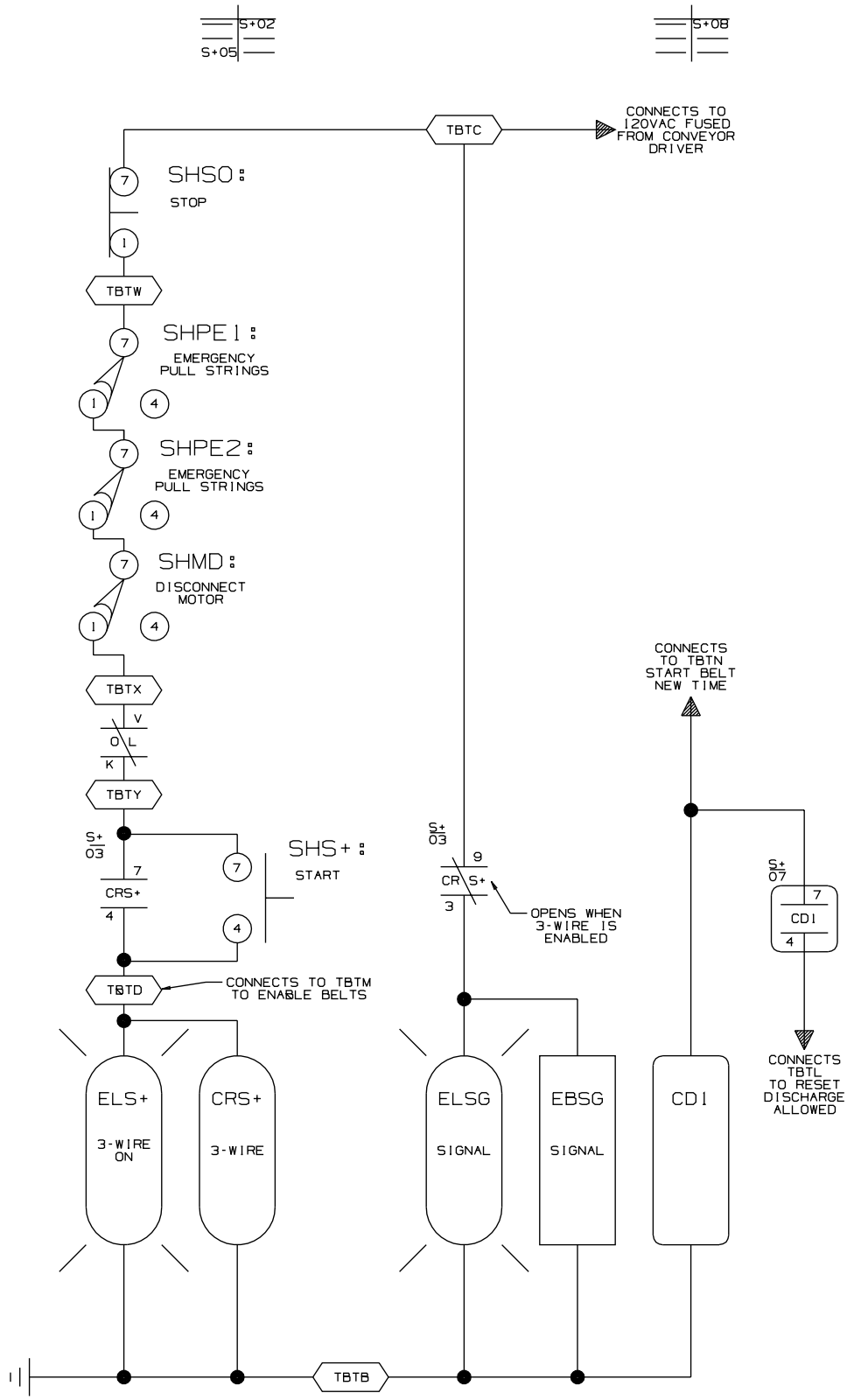
SCHEMATIC: SINGLE SHOT DISCHARGE ALLOWED

PELLERIN MILNOR CORPORATION

NOTES:

OPERATION:

1. GOODS GO TO END OF BELT AND WAIT.
2. SWITCH SHDA IS PRESSED WHICH ALLOWS BELT TO DISCHARGE UNTIL CDI TIMES OUT.
3. CDI MUST BE SET TO RUN LONGER THAN THE TIME FOR THE BELT TO CLEAR.
4. IF THE CDI CIRCUIT IS NOT DESIRED, THE DOTTED LINE CIRCUIT CAN BE ADDED AND CDI CIRCUIT REMOVED.



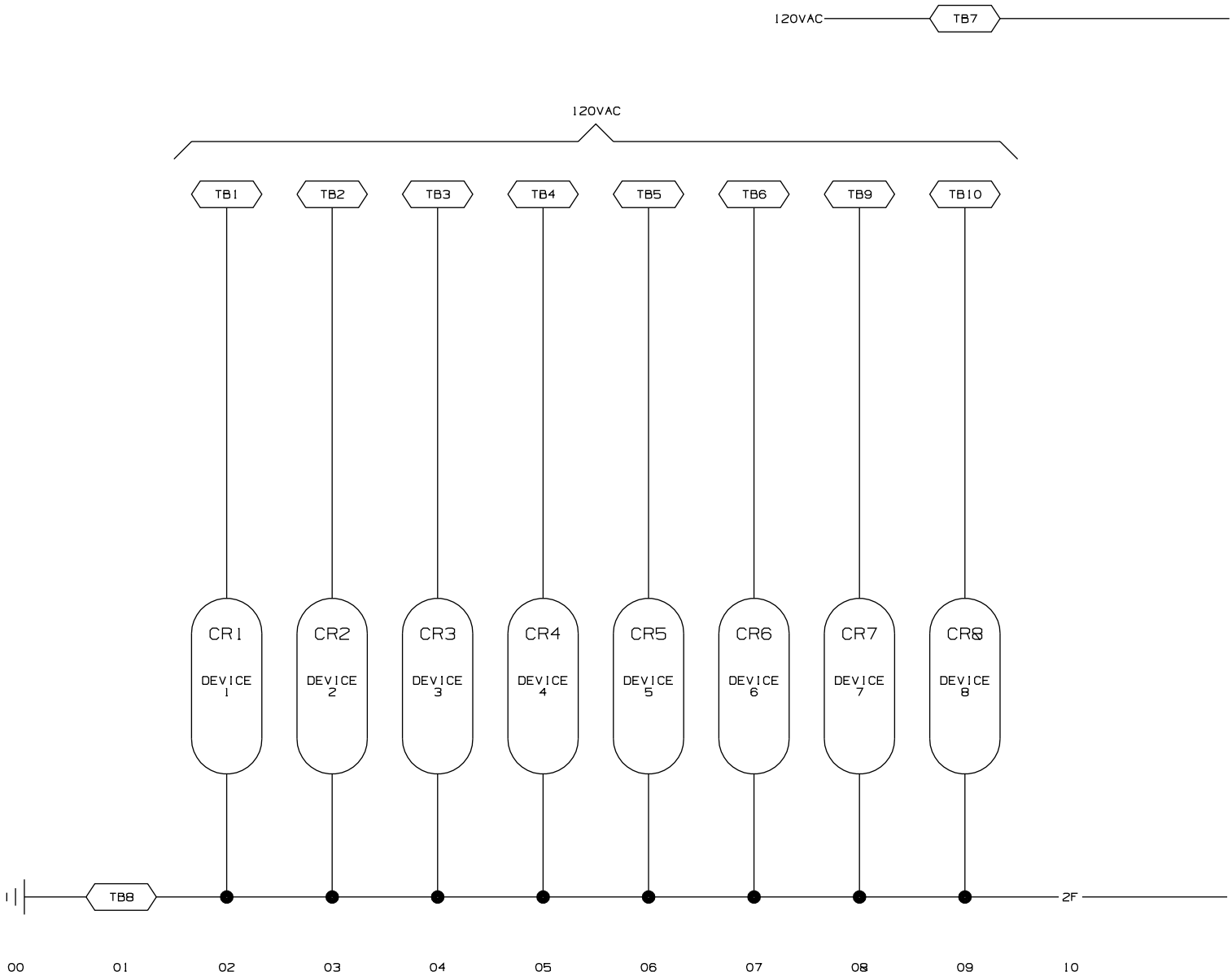
W6RLCSS+
95356B

W6RLCSS+

SCHEMATIC: 3-WIRE CIRCUIT FOR MILNOR DEVICE SEQUENCER

PELLERIN MILNOR CORPORATION

11 12 13 14 15 16 17



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SCHEMATIC: 2 DEVICES SHARE THE SAME SHUTTLE TARGET

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