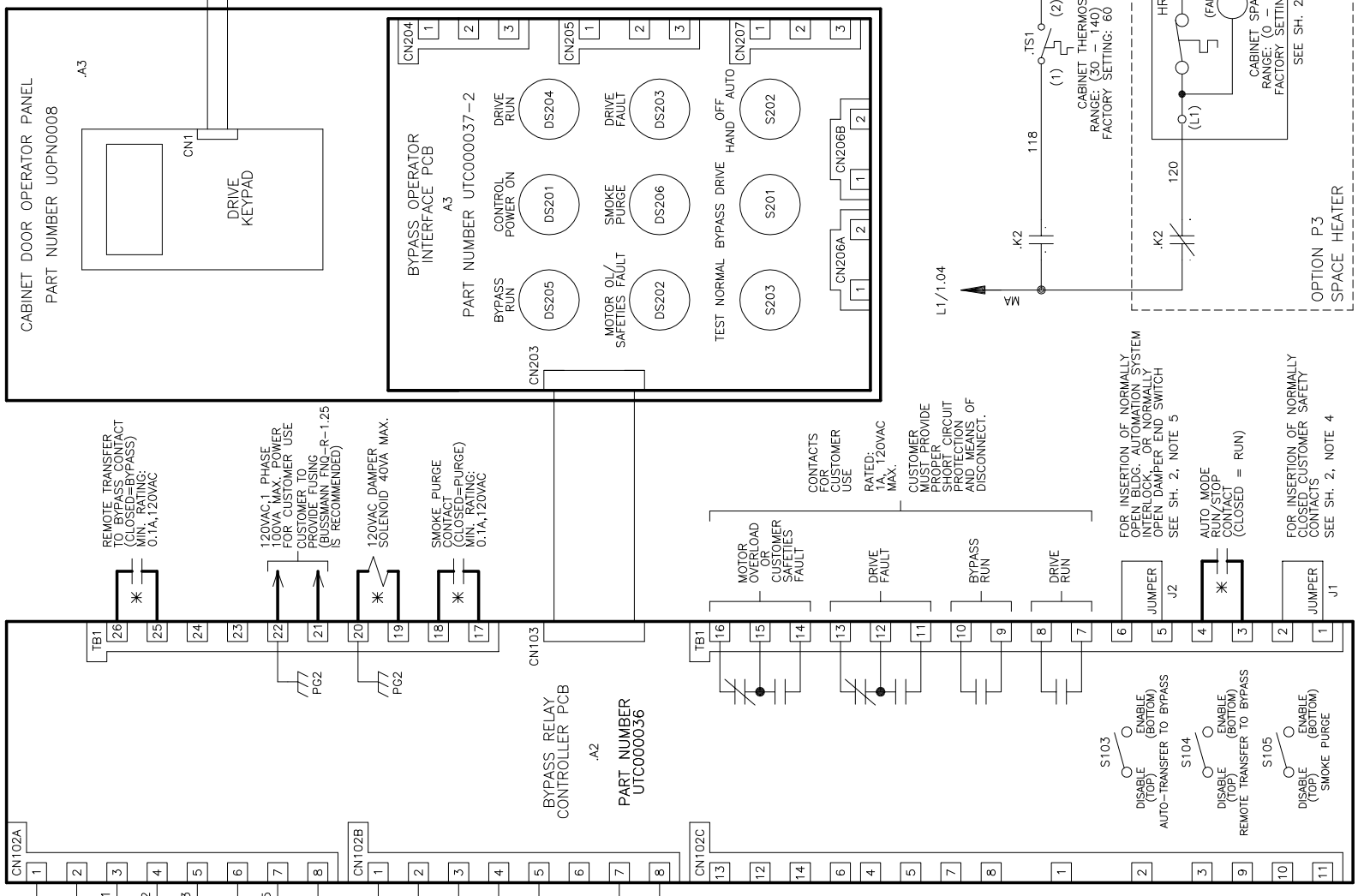


| CONTROL TRANSFORMER PRIMARY CONNECTIONS |           |                 |
|---|-----------|-----------------|
| INPUT VOLTS                             | TERMINALS | JUMPER LOCATION |
| 208                                     | A (H1)    | B (H2)          |
| 230/240                                 | (H1)      | (H4)            |
| 460/480                                 | (H1)      | (H4)            |



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DATE: 5/27/08  
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DESIGNED BY: D.R. CMELAK  
 ORDERED BY: K. FLIERL  
 APPROVED BY: J. ZUEHLKE  
 DRAWN BY: D.R. CMELAK

TITLE: SCHEMATIC DIAGRAM  
 E7B BYPASS

SIZE: R03  
 REVISION: R03  
 PAGE: 1 of 3

DRAWING NO.: DS-E7B.03

\* - INDICATES COMPONENTS NOT SUPPLIED BY YASKAWA.  
 - - INDICATES CUSTOMER WIRING.  
 SEE SHEETS 2 AND 3 FOR NOTES AND TABLES.

**NOTES:**

- CONNECTED TO THE CABINET. CUSTOMER TO CONNECT THE CABINET GROUND LUGS TO EARTH GROUND AND UTILITY GROUND.
- THE CUSTOMER MUST USE TYPE 3R HUBS AND FITTINGS (OR EQUIVALENT) TO MAINTAIN THE ENCLOSURE RATING.
- THE MOTOR OVERLOAD RELAY IS FACTORY SET FOR MANUAL RESET. CUSTOMER TO ADJUST THE MOTOR OVERLOAD RELAY TRIP SETTING FOR THE ACTUAL AC MOTOR'S FULL LOAD AMPS.
- TERMINALS TB1(1) AND TB1(2) ARE SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED NORMALLY CLOSED SAFETY CONTACTS (I.E., FIRESTAT, FREEZE/STAT, WINDING OR BEARING TEMPERATURE ACTIVATED SWITCHES). IF APPLICABLE, REMOVE FACTORY INSTALLED JUMPER J1.
- TERMINALS TB1(5) AND TB1(6) ARE SUPPLIED FOR INSERTION OF A CUSTOMER SUPPLIED NORMALLY OPEN DAMPER END SWITCH (OPEN = DAMPER CLOSED, AND CLOSED = DAMPER FULLY OPEN), OR A NORMALLY OPEN BUILDING AUTOMATION SYSTEM (BAS) INTERLOCK. IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER J2.
- INSULATED TWISTED SHIELDED WIRE IS REQUIRED. 2 CONDUCTOR #18GA. (BELDEN #8760, OR EQUIVALENT). SHIELD TO CONNECT TO PROPER TERMINAL AS SHOWN. CONNECT THE SHIELD ONLY AT THIS END. STUB AND ISOLATE THE OTHER END. DO NOT RUN THESE WIRES IN THE SAME CONDUIT AS THE AC POWER AND AC CONTROL WIRES.
- CUSTOMER TO ADJUST THE THERMOSTAT ON THE SPACE HEATER HR1 FOR THE MINIMUM DESIRED TEMPERATURE INSIDE THE DRIVE CABINET. THIS SET TEMPERATURE IS NORMALLY SELECTED TO BE SLIGHTLY HIGHER THAN THE MINIMUM AMBIENT TEMPERATURE OF THE AIR SURROUNDING THE DRIVE CABINET, AND IS THE TEMPERATURE AT WHICH THE SPACE HEATER HR1 WILL SHUT OFF.
- SERIAL COMMUNICATIONS OPTIONS T2, T3, T4, T5, OR T6 (SEE TABLE 5 ON SHEET 3):  
 OPTION T2 = ETHERNET/IP, OPTION T3 = BACNET, OPTION T4 = EMBEDDED METASYS N2, OPTION T5 = EMBEDDED APOGEE FLN, OPTION T6 = EMBEDDED MODBUS AND OPTION T6 = LONWORKS  
 A. THE HAND/OFF/AUTO SWITCH MUST BE IN THE "AUTO" POSITION, IF SERIAL COMMUNICATION IS TO BE USED TO CONTROL THE DRIVE.  
 B. TO OBTAIN AN ANALOG REFERENCE AT DRIVE TERMINAL A2 WHEN IN THE "AUTO" MODE, THERE MUST BE JUMPERS ADDED TO THE DRIVE, FROM TERMINAL S4 TO TERMINAL SN, AND FROM TERMINAL S5 TO TERMINAL S6.  
 C. THERE MUST BE A JUMPER ADDED TO THE DRIVE, FROM TERMINAL S5 TO TERMINAL S6.

**TABLE 1 FACTORY SET DRIVE PARAMETERS**

| PARAMETER | DATA        | UNIT  | DESCRIPTION/REMARKS  |
|-----------|-------------|-------|--|
| b1-01     | SEE TABLE 5 | N/A   | FREQUENCY REFERENCE SELECTION  |
| b1-08     | 1           | N/A   | RUN COMMAND SELECTION DURING PROGRAMMING - ENABLED                               |
| b2-03     | 0.0         | SEC.  | DC INJECTION BRAKING TIME AT START   |
| b5-01     | SEE TABLE 5 | N/A   | PI MODE SETTING  |
| d1-01     | 10.0        | HZ.   | FREQUENCY REFERENCE 1 - SEE TABLE 5  |
| d1-02     | 6.0         | HZ.   | FREQUENCY REFERENCE 2 - SEE TABLE 5  |
| d1-04     | 20.0        | HZ.   | FREQUENCY REFERENCE 4 - SEE TABLE 5  |
| E1-01     | 240(480)    | VOLTS | STANDARD INPUT VOLTAGE SETTING   |
| E1-05     | 208         | VOLTS | INPUT VOLTAGE SETTING FOR BASE NUMBER "D_--"                                     |
|           | 230(460)    | VOLTS | STANDARD MAXIMUM OUTPUT VOLTAGE SETTING  |
|           | 208         | VOLTS | MAXIMUM OUTPUT VOLTAGE SETTING FOR BASE NUMBER "D_--"                            |
| F6-02     | SEE TABLE 5 | N/A   | SERIAL COMMUNICATIONS EXTERNAL FAULT DETECTION SELECTION                         |
| F6-03     | SEE TABLE 5 | N/A   | SERIAL COMMUNICATIONS EXTERNAL FAULT STOPPING METHOD SELECTION                   |
| H1-01     | 70          | N/A   | TERMINAL S3 SET FOR BYPASS DRIVE ENABLE  |
| H1-02     | SEE TABLE 5 | N/A   | TERMINAL S4 SELECTION  |
| H1-03     | SEE TABLE 5 | N/A   | TERMINAL S5 SELECTION  |
| H1-04     | SEE TABLE 5 | N/A   | TERMINAL S6 SELECTION  |
| H2-02     | 3B          | N/A   | TERMINALS M3-M4 SET FOR SERIAL COMM. RUN COMMAND                                 |
| H3-08     | SEE TABLE 5 | N/A   | TERMINAL A2 SIGNAL SELECTION   |
| H3-09     | SEE TABLE 5 | N/A   | TERMINAL A2 FUNCTION SELECTION   |
| H5-02     | SEE TABLE 5 | N/A   | SERIAL COMMUNICATIONS SPEED SELECTION BAUD RATE                                  |
| H5-07     | SEE TABLE 5 | N/A   | REQUEST TO SEND (RTS) CONTROL SELECTION  |
| H5-08     | SEE TABLE 5 | N/A   | SERIAL COMMUNICATIONS PROTOCOL SELECTION   |
| H5-09     | 10.0        | SEC.  | SERIAL COMMUNICATIONS ERROR DETECTION TIME                                       |
| L4-05     | 0           | N/A   | FREQUENCY REFERENCE LOSS DETECTION DISABLED                                      |
| L5-01     | 10          | N/A   | NUMBER OF AUTO RESTART ATTEMPTS  |
| L5-03     | 10.0        | SEC.  | MAXIMUM RESTART TIME AFTER FAULT   |
| o2-02     | 0           | N/A   | DIGITAL OPERATOR KEYPAD "OFF" KEY DISABLED                                       |
| o2-03     | 1           | N/A   | USER INITIALIZATION FACTORY SET PARAMETER DEFAULT VALUES (FOUND IN A1-03="1110") |
| o2-15     | 0           | N/A   | DIGITAL OPERATOR KEYPAD "HAND" KEY DISABLED                                      |
| o3-02     | 1           | N/A   | DIGITAL OPERATOR KEYPAD READ ALLOWED ENABLED                                     |

SEE SHEET 3 FOR TABLE 5.

**CUSTOMER WIRING REQUIREMENTS**

- FOR 0 TO 100 AMPS, USE A MINIMUM OF 60° -75°C COPPER WIRE.
- FOR ABOVE 100 AMPS, USE A MINIMUM OF 75°C COPPER WIRE.

**TABLE 2 E7 BYPASS MODEL NO. BASE NUMBER E7BRXXXX**

| E7 BYPASS MODEL NO. BASE NUMBER E7BRXXXX | MFG. PART NUMBER | CURRENT RATING (AMPS) | MOTOR CIRCUIT PROTECTOR WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
|--|------------------|-----------------------|---|-----------------------------|
| 208V 240V 480V                           | A002 B001        | 3                     | 14 - 4  | 35                          |
|  | A003 B002        | 7                     |   |                             |
| D002                                     | FAL36003         |                       |   |                             |
| D003                                     | FAL36007         |                       |   |                             |
| D004                                     | A004 B003        |                       |   |                             |
| D007                                     | A006 B004        |                       |   |                             |
| D010                                     | A009 B007        | 15                    |   |                             |
| D016                                     | A015 B011        |                       |   |                             |
| D024                                     | A022 B014        | 30                    |   |                             |
| D030                                     | A028 B021        | 50                    | 14 - 1/0                                      | 80                          |
| D046                                     | A042 B040        | 100                   |   |                             |
| D059                                     | A054 B052        |                       |   |                             |
|  | A068 B065        |                       |   |                             |
| D074                                     | A080 B096        | 150                   | 4 - 350 kcmil                                 | 250                         |
| D088                                     | A104 B124        |                       |   |                             |
| D143                                     | A130 B156        | 250                   |   |                             |
| D169                                     | A154 B180        |                       |   |                             |
| D211                                     | A248 B240        | 400                   | 1 x (1-600 kcmil)                             | 375                         |
| D273                                     | LAL36400         |                       | 2 x (1-250 kcmil)                             | 2 x 375                     |

**TABLE 3 E7 BYPASS PART NUMBER E7BRXXXX**

| E7 BYPASS PART NUMBER E7BRXXXX | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
|--------------------------------|-----------------------|-----------------------------|
| 208V 240V 480V                 | 14 - 10               | 35                          |
| D002                           | A002 B001             |                             |
| D003                           | A003 B002             |                             |
| D004                           | A004 B003             |                             |
| D007                           | A006 B004             |                             |
| D010                           | A009 B007             |                             |
| D016                           | A015 B011             |                             |
| D024                           | A022 B014             |                             |
| D030                           | A028 B021             |                             |
|                                | B027 B034             |                             |
| D046                           | A042 B040             | 8                           |
| D059                           | A054 B052             |                             |
|                                | B065                  |                             |
| D074                           | A068 B077             | 14 - 2/0                    |
| D088                           | A080 B096             |                             |
| D114                           | A104 B124             |                             |
| D143                           | A130 B156             |                             |
| D169                           | A154 B180             |                             |
| D211                           | A192 B240             |                             |
| D273                           | A248 B302             | 120                         |

**TABLE 4 E7 BYPASS MODEL NO. BASE NUMBER E7BRXXXX**

| E7 BYPASS MODEL NO. BASE NUMBER E7BRXXXX | MFG. PART NUMBER | MOTOR OVERLOAD RELAY  |                             | CONTROL WIRING |           |
|--|------------------|-----------------------|-----------------------------|----------------|-----------|
|  |                  | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | TERMINAL       | BLOCK TB1 |
| 208V 240V 480V                           | B001             | 18 - 8                | 15                          | 22 - 14        | 4.4       |
|  | LRD06            |                       |                             |                |           |
| D002                                     | A002 B002        |                       |                             |                |           |
| D003                                     | A003 B003        | 18 - 8                |                             |                |           |
| D004                                     | A004 B004        |                       |                             |                |           |
| D007                                     | A006 B007        |                       |                             |                |           |
| D010                                     | A009 B011        |                       |                             |                |           |
| D016                                     | A015 B014        |                       |                             |                |           |
| D024                                     | A022 B021        |                       |                             |                |           |
| D030                                     | A028 B027        |                       |                             |                |           |
| D046                                     | A042 B034        |                       |                             |                |           |
| D059                                     | A054 B040        |                       |                             |                |           |
| D074                                     | A068 B052        |                       |                             |                |           |
|  | A080 B065        |                       |                             |                |           |
|  | B077             |                       |                             |                |           |
| D088                                     | B096             |                       |                             |                |           |
| D114                                     | A104 B124        |                       |                             |                |           |
| D143                                     | A130 B156        |                       |                             |                |           |
| D169                                     | A154 B180        |                       |                             |                |           |
| D211                                     | A192 B240        |                       |                             |                |           |
| D273                                     | B302             |                       |                             |                |           |



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|                                |               |                          |
|--------------------------------|---------------|--------------------------|
| DRAWN BY: D.R. CMELAK          | DATE: 5/27/08 | TITLE: SCHEMATIC DIAGRAM |
| CHECKED: K. FLIERL             | DATE: 5/27/08 | E7B BYPASS               |
| TECH: J. ZUEHLKE               | DATE: 5/27/08 | SIZE: D                  |
| APPROVED: J. ZUEHLKE           | DATE: 5/27/08 | REVISION: R03            |
| ORIGINAL DESIGNER: D.R. CMELAK | DATE: 5/1/07  | PAGE: 2 of 3             |
|                                |               | DRAWING #: DS-E7B.03     |

TABLE 5 DRIVE OPERATION MODE SELECTION

| OPTION<br>PRESENT | FACTORY SET E7B BYPASS DRIVE PARAMETERS |   |       |   |       |    |            |   |            |   | DRIVE CONTROL BOARD SWITCH S1 SETTING | DRIVE MODE SPEED COMMAND |   |       |       | DRIVE MODE PI CONTROL |       |       |  | RUN/STOP CONTROL (SEE SHEET 2, NOTE 5) |  |                 |                 |        |                  |
|-------------------|---|---|-------|---|-------|----|------------|---|------------|---|---------------------------------------|--------------------------|---|-------|-------|-----------------------|-------|-------|--|--|--|-----------------|-----------------|--------|------------------|
|                   | b1-01                                   |   | F6-02 |   | F6-03 |    | H1-02 (S4) |   | H1-03 (S5) |   |                                       | H1-04 (S6)               |   | H3-08 | H3-09 | H5-02                 | H5-07 | H5-08 | HAND MODE SPEED COMMAND DRIVE KEYPAD d1-01 | HAND MODE DRIVE KEYPAD d1-01           | FEEDBACK DRIVE TERMINAL A2 SIGNAL 0-10 VDC | HAND MODE DRIVE | AUTO MODE DRIVE | BYPASS | AUTO MODE BYPASS |
|                   | 1                                       | 2 | 1     | 2 | 1     | 2  | 1          | 2 | 1          | 2 |                                       | 1                        | 2 | 1     | 2     | 1                     | 2     | 1     |  |  |  |                 |                 |        |                  |
| NONE +            | 1                                       | 0 | 0     | 1 | 14    | 3  | 4          | 4 | 2          | 0 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| NONE              | 1                                       | 0 | 0     | 1 | 14    | 3  | 4          | 4 | 0          | 0 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    |  |                 |                 |        |                  |
| TP                | 1                                       | 0 | 0     | 1 | 14    | 3  | 4          | 4 | 2          | 0 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| T2 +              | 0                                       | 0 | 0     | 1 | 14    | 2  | 4          | 4 | 2          | 2 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| T2                | 0                                       | 0 | 0     | 1 | 3     | 2  | 4          | 4 | 0          | 2 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    |  |                 |                 |        |                  |
| T2 AND TP         | 0                                       | 0 | 0     | 1 | 3     | 2  | 4          | 4 | 2          | 2 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| T3 +              | 0                                       | 0 | 1     | 3 | 14    | 6C | 4          | 4 | 2          | 2 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| T3                | 0                                       | 0 | 1     | 3 | 3     | 6C | 4          | 4 | 0          | 2 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    |  |                 |                 |        |                  |
| T3 AND TP         | 0                                       | 0 | 1     | 3 | 3     | 6C | 4          | 4 | 2          | 2 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| TJ +              | 0                                       | 0 | 0     | 1 | 14    | 6C | 4          | 4 | 2          | 2 | 3                                     | 1                        | 1 | 1     | 1     | 1                     | 1     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| TJ                | 0                                       | 0 | 0     | 1 | 3     | 6C | 4          | 4 | 0          | 2 | 3                                     | 1                        | 1 | 1     | 1     | 1                     | 1     | OFF   | OFF  | YES                                    |  |                 |                 |        |                  |
| TJ AND TP         | 0                                       | 0 | 0     | 1 | 3     | 6C | 4          | 4 | 2          | 2 | 3                                     | 1                        | 1 | 1     | 1     | 1                     | 1     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| TU +              | 0                                       | 0 | 0     | 1 | 14    | 6C | 4          | 4 | 2          | 2 | 2                                     | 2                        | 1 | 2     | 2     | 2                     | 2     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| TU                | 0                                       | 0 | 0     | 1 | 3     | 6C | 4          | 4 | 2          | 2 | 2                                     | 2                        | 1 | 2     | 2     | 2                     | 2     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| TU AND TP         | 0                                       | 0 | 0     | 1 | 3     | 6C | 4          | 4 | 2          | 2 | 2                                     | 2                        | 1 | 2     | 2     | 2                     | 2     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| TV +              | 0                                       | 0 | 0     | 1 | 14    | 6C | 4          | 4 | 2          | 2 | 2                                     | 3                        | 1 | 0     | 0     | 0                     | 0     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| TV                | 0                                       | 0 | 0     | 1 | 3     | 6C | 4          | 4 | 0          | 2 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    |  |                 |                 |        |                  |
| TV AND TP         | 0                                       | 0 | 0     | 1 | 3     | 6C | 4          | 4 | 2          | 2 | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | ON   | YES                                    |  |                 |                 |        |                  |
| TL +              | 0                                       | 0 | 0     | 1 | 14    | 6C | 4          | 4 | 2          | 2 | 3                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | ON    | ON   | YES                                    |  |                 |                 |        |                  |
| TL                | 0                                       | 0 | 0     | 1 | 3     | 6C | 4          | 4 | 0          | 2 | 3                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | ON    | OFF  | YES                                    |  |                 |                 |        |                  |
| TL AND TP         | 0                                       | 0 | 0     | 1 | 3     | 6C | 4          | 4 | 2          | 2 | 3                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | ON    | ON   | YES                                    |  |                 |                 |        |                  |
| PI CONTROL        | 0                                       | 1 | 0     | 1 | 14    | 19 | 4          | 4 | 2          | 2 | B                                     | 3                        | 1 | 0     | 0     | 0                     | 0     | OFF   | ON   | YES                                    | YES  |                 |                 |        |                  |
| PI CONTROL        | 0                                       | 1 | 0     | 1 | 14    | 19 | 4          | 4 | 0          | B | 3                                     | 1                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    | YES  |                 |                 |        |                  |
| T2 AND PI         | 3                                       | 1 | 0     | 1 | 14    | 19 | 6E         | 0 | B          | 3 | 1                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    |  |                 | 8C              |        |                  |
| T3 AND PI         | 2                                       | 1 | 1     | 3 | 14    | 19 | 6E         | 0 | B          | 3 | 1                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    |  |                 | 8C              |        |                  |
| TJ AND PI         | 2                                       | 1 | 0     | 1 | 14    | 19 | 6E         | 0 | B          | 3 | 1                                     | 1                        | 1 | 1     | 1     | 1                     | 1     | OFF   | OFF  | YES                                    |  |                 | 8C              |        |                  |
| TU AND PI         | 2                                       | 1 | 0     | 1 | 14    | 19 | 6E         | 0 | B          | 3 | 1                                     | 2                        | 2 | 2     | 2     | 2                     | 2     | OFF   | OFF  | YES                                    |  |                 | 8C              |        |                  |
| TV AND PI         | 2                                       | 1 | 0     | 1 | 14    | 19 | 6E         | 0 | B          | 3 | 1                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    |  |                 | 8C              |        |                  |
| TL AND PI         | 2                                       | 1 | 0     | 1 | 14    | 19 | 6E         | 0 | B          | 3 | 0                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | ON    | OFF  | YES                                    |  |                 | 8C              |        |                  |
| T2 AND PI         | 0                                       | 1 | 0     | 1 | 14    | 19 | 2          | 0 | B          | 3 | 1                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    | YES  |                 |                 |        |                  |
| T3 AND PI         | 0                                       | 1 | 1     | 3 | 14    | 6C | 19         | 0 | B          | 3 | 1                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    | YES  |                 |                 |        |                  |
| TJ AND PI         | 0                                       | 1 | 0     | 1 | 14    | 19 | 6C         | 0 | B          | 3 | 1                                     | 1                        | 1 | 1     | 1     | 1                     | 1     | OFF   | OFF  | YES                                    | YES  |                 |                 |        |                  |
| TU AND PI         | 0                                       | 1 | 0     | 1 | 14    | 19 | 6C         | 0 | B          | 2 | 1                                     | 2                        | 2 | 2     | 2     | 2                     | 2     | OFF   | OFF  | YES                                    | YES  |                 |                 |        |                  |
| TV AND PI         | 0                                       | 1 | 0     | 1 | 14    | 19 | 6C         | 0 | B          | 3 | 1                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | OFF   | OFF  | YES                                    | YES  |                 |                 |        |                  |
| TL AND PI         | 0                                       | 1 | 0     | 1 | 14    | 6C | 19         | 0 | B          | 3 | 0                                     | 0                        | 0 | 0     | 0     | 0                     | 0     | ON    | OFF  | YES                                    | YES  |                 |                 |        |                  |

+ = STANDARD E7B BYPASS SET UP

= FACTORY 2-WIRE INITIALIZATION/DEFAULT SETTING

SEE SHEET 2 FOR NOTES, AND TABLES 1, 2, 3 AND 4.

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