

| CONNECT WIRING GROUP NO. | OPTION COMBINATIONS | | | | | |
|--------------------------|---------------------|----|------------------------------------|----------------|----|----------------|
| | PC, PE, PJ, OR PM | PD | WITHOUT OPT. PC, PD, PE, PJ, OR PM | PF SEE NOTE 11 | PR | TB SEE NOTE 12 |
| C1, C14 | X | | | | | |
| C2, C14 | | X | | | | |
| C5, C14 | | | X | | | |
| C3, C6, C15 | X | | | X | | |
| C4, C7, C16 | X | | | | X | |
| C3, C8, C15 | | X | | X | | |
| C4, C9, C16 | | X | | | X | |
| C4, C6, C10, C16 | X | | | X | X | |
| C4, C8, C10, C16 | | X | | X | X | |
| C3, C11, C15 | | | X | X | | |
| C4, C12, C16 | | | X | | X | |
| C4, C10, C11, C16 | | | X | X | X | |
| C17, C18 | | | | | | X |

| OPTION COMBINATIONS | | |
|---------------------|----|------------------|
| PJ | PL | GAUGE/COLOR |
| X | | SEE NOTES 5 - 7 |
| | X | SEE NOTES 8 - 10 |

| OPTION BOARD PART NUMBERS PER OPTION CODE | |
|---|-------------|
| OPTION CODE | PART NUMBER |
| TA | AI-A3 |
| TC | SI-EP3 |
| TD | SI-EN3D |
| TE | DO-A3 |
| TF | DI-A3 |
| TG | SI-N3 |
| TH | SI-P3 |
| TJ | SI-B3 |
| TL | SI-W3 |
| TN | AO-A3 |
| TQ | SI-EM3D |
| TU | SI-J3 |
| TV | DI-101 |
| TX | PG-X3 |

| GROUP NO. | WIRE NO. | FROM | TO | GAUGE/COLOR |
|-----------|----------|--------------|--------------|-------------|
| C1 | 1L1 | CB1(4) | A1(L1) | SEE NOTE 1 |
| | 1L2 | CB1(5) | A1(L2) | |
| | 1L3 | CB1(6) | A1(L3) | |
| C2 | 1L1 | S1(T1) | A1(L1) | |
| | 1L2 | S1(T2) | A1(L2) | |
| | 1L3 | S1(T3) | A1(L3) | |
| C3 | 2L1 | F3(2) | A1(L1) | |
| | 2L2 | F4(2) | A1(L2) | |
| | 2L3 | F5(2) | A1(L3) | |
| C4 | 3L1 | L1(A2 OR U2) | A1(L1) | |
| | 3L2 | L1(B2 OR V2) | A1(L2) | |
| | 3L3 | L1(C2 OR W2) | A1(L3) | |
| C5 | 1L1 | TB2(1) | A1(L1) | |
| | 1L2 | TB2(2) | A1(L2) | |
| | 1L3 | TB2(3) | A1(L3) | |
| C6 | 1L1 | CB1(4) | F3(1) | |
| | 1L2 | CB1(5) | F4(1) | |
| | 1L3 | CB1(6) | F5(1) | |
| C7 | 1L1 | CB1(4) | L1(A1 OR U1) | |
| | 1L2 | CB1(5) | L1(B1 OR V1) | |
| | 1L3 | CB1(6) | L1(C1 OR W1) | |
| C8 | 1L1 | S1(T1) | F3(1) | |
| | 1L2 | S1(T2) | F4(1) | |
| | 1L3 | S1(T3) | F5(1) | |
| C9 | 1L1 | S1(T1) | L1(A1 OR U1) | |
| | 1L2 | S1(T2) | L1(B1 OR V1) | |
| | 1L3 | S1(T3) | L1(C1 OR W1) | |
| C10 | 2L1 | F3(2) | L1(A1 OR U1) | |
| | 2L2 | F4(2) | L1(B1 OR V1) | |
| | 2L3 | F5(2) | L1(C1 OR W1) | |
| C11 | 1L1 | TB2(1) | F3(1) | |
| | 1L2 | TB2(2) | F4(1) | |
| | 1L3 | TB2(3) | F5(1) | |
| C12 | 1L1 | TB2(1) | L1(A1 OR U1) | |
| | 1L2 | TB2(2) | L1(B1 OR V1) | |
| | 1L3 | TB2(3) | L1(C1 OR W1) | |

| GROUP NO. | WIRE NO. | FROM | TO | GAUGE/COLOR |
|-----------|----------|-------------|------------|-------------|
| C14 | 1L1 | A1(L1) | T1(H1(F1)) | SEE NOTE 2 |
| | 1L2 | A1(L2) | T1(HF(F2)) | |
| C15 | 2L1 | A1(L1) | T1(H1(F1)) | |
| | 2L2 | A1(L2) | T1(HF(F2)) | |
| C16 | 3L1 | A1(L1) | T1(H1(F1)) | |
| | 3L2 | A1(L2) | T1(HF(F2)) | |
| C17 | 1L1 | SEE NOTE 12 | F8(1) | SEE NOTE 2 |
| | 1L2 | | F9(1) | |
| | 1L3 | | F10(1) | |
| C18 | 4L1 | F8(1) | K1(L1) | |
| | 4L2 | F9(1) | K1(L2) | |
| | 4L3 | F10(1) | K1(L3) | |

| OPTION BOARD COMBINATIONS, LOCATIONS AND REFERENCE DESIGNATORS | | |
|--|-------------|--------------|
| CONNECT TO DRIVE CONTROL BOARD CONNECTOR | | |
| CN5-A AS A6 | CN5-B AS A7 | CN5-C AS A10 |
| TE | | |
| | TN | |
| | | TX |
| TE | TN | |
| TE | | TX |
| | TN | TX |
| TE | TN | TX |
| TA, TC, TD, TF, TG, TH, TJ, TL, TQ OR TU | | |
| TA, TC, TD, TF, TG, TH, TJ, TL, TQ OR TU | TE | |
| TA, TC, TD, TF, TG, TH, TJ, TL, TQ OR TU | TN | |
| TA, TC, TD, TF, TG, TH, TJ, TL, TQ OR TU | | TX |
| TA, TC, TD, TF, TG, TH, TJ, TL, TQ OR TU | TN | TE |
| TA, TC, TD, TF, TG, TH, TJ, TL, TQ OR TU | TE | TX |
| TA, TC, TD, TF, TG, TH, TJ, TL, TQ OR TU | TN | TX |

WIRING NOTE:
CONNECT THESE OPTION BOARDS' GREEN GROUND WIRE TO THE GROUND TERMINAL "FE" ON THE DRIVE CONTROL BOARD.

| SEND THE FOLLOWING DOCUMENTS ALONG WITH THE SCHEMATICS TO THE CUSTOMER | |
|--|---------------|
| TA | TOBPC73060038 |
| TC | TOBPC73060089 |
| TD | TOEPYAICOM16 |
| TE | TOBPC73060041 |
| TF | TOBPC73060039 |
| TG | TOBPC73060084 |
| TH | TOBPC73060082 |
| TJ | TOEPYACOM08 |
| TL | TOBPC73060093 |
| TN | TOBPC73060040 |
| TQ | TOEPYAICOM18 |
| TU | TOEPYAICOM13 |
| TV | TOEPYEAOPT07 |
| TX | TOBPC73060076 |

- NOTES:
- FOR WIRE GAUGE, COLOR AND TYPE, SEE THE WIRE TABLE SPECIFIED ON THE PRODUCTION ORDER "INPUT POWER WIRES NUMBERED _L_", AS PER THE PARTICULAR STD. BASE NO., OR THE DRIVE PART NUMBER AND INPUT AMPS.
 - USE 14 AWG BLACK WIRE PART NO. M35081140003.
 - FOR THE 3 CONDUCTOR SHIELDED CABLE WIRES NUMBERED (+V, A1 AND AC), USE 22 AWG PART NUMBER M35073220002. ADD 1/16 INCH GREEN HEAT SHRINK TUBING PART NUMBER UWS-0562 TO COVER THE SHIELD WIRE.
 - FOR THE 2 CONDUCTOR SHIELDED CABLE WIRES NUMBERED (A2 AND AC), USE 22 AWG PART NUMBER M35172220002. ADD 1/16 INCH GREEN HEAT SHRINK TUBING PART NUMBER UWS-0562 TO COVER THE SHIELD WIRE.

WITH OPTION PJ

- FOR WIRES NUMBERED 1 THRU 4, USE 18 AWG BLUE TWISTED PAIR WIRE PART NUMBER UWR-0196:
 - FOR WIRES NUMBERED 1 AND 3, CONNECT THE BLUE WIRE TO (A2, A3 OR A4) TERMINALS ((1) OR (IN1)), AND ((5) OR (OUT1)).
 - FOR WIRES NUMBERED 2 AND 4, CONNECT THE BLUE WIRE WITH THE WHITE STRIPE TO (A2, A3 OR A4) TERMINALS ((2) OR (IN2)), AND ((6) OR (OUT2)).
- FOR JUMPERS J1 AND J2, USE 18 AWG RED WIRE PART NUMBER M35081180009.
- CONNECT JUMPERS J1 AND J2 TO THE SHOP WIRING SIDE OF TB1.

WITH OPTION PL

- FOR WIRES NUMBERED 1 THRU 4, USE 18 AWG BLUE TWISTED PAIR WIRE PART NUMBER UWR-0196:
 - FOR WIRES NUMBERED 1 AND 3, CONNECT THE BLUE WIRE TO (A2, A3 OR A4) TERMINALS ((1) OR (IN1)), AND ((5) OR (OUT1)).
 - FOR WIRES NUMBERED 2 AND 4, CONNECT THE BLUE WIRE WITH THE WHITE STRIPE TO (A2, A3 OR A4) TERMINALS ((2) OR (IN2)), AND ((6) OR (OUT2)).
- FOR JUMPERS J1 AND J2, USE 18 AWG YELLOW WIRE PART NUMBER M35081180006.
- CONNECT JUMPERS J1 AND J2 TO THE SHOP WIRING SIDE OF TB1.

WITH OPTIONS PE, PC, PM OR PJ

- DRIVE INPUT FUSES F3, F4, F5 ARE INCLUDED FOR THE FOLLOWING BASE NUMBERS :

| | |
|---------------------|---------------------|
| G8C1B007 - G8C1B720 | G8C4B004 - G8C4B590 |
| G8C2B065 - G8C2B720 | G8C5B052 - G8C5B590 |
| G8C3B180 - G8C3B720 | G8C6B156 - G8C6B590 |

WITH OPTION TB

- CONNECT TO THE 1L1, 1L2, 1L3 WIRE CONNECTION LOCATION THAT IS THE EASIEST TO CONNECT TO, AS PER THE SPECIFIED SCHEMATIC DIAGRAM

| | |
|---------------------|---------------------|
| G8C1A004 - G8C1A009 | G8C1B002 - G8C1B007 |
| G8C2A004 - G8C2A009 | G8C2B002 - G8C2B007 |

REVISIONS

| REV. | DESCRIPTION | ECO # | DRAWN BY | DATE |
|------|---------------------------------|-------|----------|----------|
| 02 | ADDED OPTION TB WIRING | 10925 | KAP | 10/28/20 |
| 01 | UPDATED OPTION TL DOCUMENTATION | 10581 | KG | 05/12/20 |
| 00 | INITIAL RELEASE | - | NSL | 10/19/18 |

| | | | | | |
|-----------------------------|------------------------|-------------------|------------------------------------|-----------------|-----------------|
| YASKAWA | DRAWN BY: N. LAWS | DATE: 10/19/18 | TITLE: GA800 PANEL WIRING TABLE | | |
| | CHECKED: K. MALUSIC | DATE: 10/22/18 | | | |
| | TECH: | DATE: | | | |
| | APPROVED: K. FLIERL | DATE: 10/23/18 | SIZE: C | REVISION: 02 | PAGE: 1 of 1 |
| ORIGINAL DESIGN: N. LAWS | | DATE: 10/19/18 | DRAWING #: UDE00609 | | |

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