

CUSTOMER WIRING REQUIREMENTS


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

| TABLE 1 | | | | | | | | | | | | | |
|---|------|---|-----------------------|---------------------------|-----------------------------|---|-----------------------|---------------------------|-----------------------------|---|-----------------------|---------------------------|-----------------------------|
| A.C. LINE WIRING | | | | | | | | | | | | | |
| GA800 CONFIGURED MODEL NO. BASE NUMBER G8C4XXXX | | WITH OPTION PE OR PC TO CIRCUIT BREAKER CB1 | | | | OR, WITH OPTION PM TO CIRCUIT BREAKER CB1 | | | | OR, WITH OPTION PD, TO DISCONNECT SWITCH S1 | | | |
| 240V | 480V | MFG. PART NUMBER | CURRENT RATING (AMPS) | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | MFG. PART NUMBER | CURRENT RATING (AMPS) | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | MFG. PART NUMBER | CURRENT RATING (AMPS) | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| A004 | B002 | H_36015 | 15 | 14 - 10 | 50 | H_36015 | 15 | 14 - 10 | 50 | H_36000S15 | 150 | 14 - 10 | 50 |
| A006 | B003 | | | OR | OR | | | OR | OR | | | OR | OR |
| | B004 | | | 8 - 3/0 | 120 | | | 8 - 3/0 | 120 | | | 8 - 3/0 | 120 |
| | B007 | | | | | | | | | | | | |
| A009 | B011 | H_36020 | 20 | | | H_36020 | 20 | | | | | | |
| | B014 | H_36025 | 25 | | | H_36025 | 25 | | | | | | |
| A015 | | H_36030 | 30 | | | H_36030 | 30 | | | | | | |
| A022 | B021 | H_36040 | 40 | | | H_36040 | 40 | | | | | | |
| A028 | B027 | H_36050 | 50 | | | H_36050 | 50 | | | | | | |
| | B034 | H_36060 | 60 | | | H_36060 | 60 | | | | | | |
| | B040 | | | | | H_36060 | 60 | | | | | | |
| | B052 | H_36080 | 80 | | | H_36080 | 80 | | | | | | |
| A042 | | H_36070 | 70 | | | H_36070 | 70 | | | | | | |
| | B065 | H_36090 | 90 | | | H_36090 | 90 | | | | | | |
| A054 | B077 | H_36100 | 100 | | | H_36100 | 100 | | | | | | |
| A068 | B096 | H_36125 | 125 | | | H_36125 | 125 | | | | | | |
| A080 | | H_36100 | 100 | | | H_36100 | 100 | | | | | | |
| A104 | | H_36150 | 150 | | | H_36150 | 150 | | | | | | |
| | B124 | J_36175 | 175 | 4 - 4/0 | 225 | J_36175 | 175 | 4 - 4/0 | 225 | J_36000S17 | 175 | 4 - 4/0 | 225 |
| A130 | | J_36200 ① | 200 | | | J_36200 ① | 200 | | | J_36000S25 ① | 250 | | |
| A154 | B156 | J_36225 | 225 | 3/0 - 350 kcmil | 225 | J_36225 | 225 | 3/0 - 350 kcmil | 225 | J_36000S25 | 250 | 3/0 - 350 | 225 |
| | B180 | J_36250 | 250 | | | J_36250 | 250 | | | | | | |
| A192 | | L_36400U31X | 400 | (1-2) x (2/0 - 500 kcmil) | (1-2) x 442 | L_36400U31X | 400 | (1-2) x (2/0 - 500 kcmil) | (1-2) x 442 | L_36000S40X | 400 | (1-2) x (2/0 - 500 kcmil) | (1-2) x 442 |
| | B240 | | | | | | | | | | | | |
| A248 | B302 | | | | | | | | | | | | |
| A312 | | | | | | | | | | | | | |
| A360 | | M_36500 | 500 | (1-3) x (3/0 - 500 kcmil) | (1-3) x 450 | M_36500 | 500 | (1-3) x (3/0 - 500 kcmil) | (1-3) x 450 | L_36000S60X | 600 | | |
| | B361 | | | | | P_34060 | 600 | | | | | | |
| | B414 | M_36600 | 600 | | | | | | | | | | |
| | B477 | P_36080 | 800 | | | P_34080 | 800 | | | P_34000S80 | 800 | (1-3) x (3/0 - 500 kcmil) | (1-3) x 450 |
| | B515 | | | | | | | | | | | | |
| | B590 | | | | | | | | | | | | |
| | B720 | | | | | | | | | OT800U03 | 800 | (1-4) x (2 - 600 kcmil) | (1-4) x 500 |
| | B810 | | | | | | | | | OT1200U03 | 1200 | (1-4) x (2 - 600 kcmil) | (1-4) x 500 |
| | B930 | | | | | | | | | | | | |
| | BK09 | | | | | | | | | OT1600U03 | 1600 | (1-8) x (2 - 600 kcmil) | (1-8) x 500 |

| TABLE 2 | | | | |
|--|------|------------------|---------------------------|-----------------------------|
| A.C. LINE WIRING | | | | |
| GA800 CONFIGURED MODEL NO. BASE NUMBER G8C4XXXX | | | | |
| OR, WITHOUT OPTIONS PE, PC, PM OR PD TO INPUT POWER TERMINAL BLOCK TB2 | | | | |
| 240V | 480V | MFG. PART NUMBER | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| A004 | B002 | LFS13003Z | 14 - 8 | 40 |
| A006 | B003 | | OR | OR |
| A009 | B004 | | 6 - 2 | 50 |
| A015 | B007 | | | |
| A022 | B011 | | | |
| A028 | B014 | | | |
| | B021 | | | |
| | B027 | | | |
| | B034 | | | |
| A042 | B040 | 1323572 | 14 - 10 | 35 |
| A054 | B052 | | OR | OR |
| A068 | B065 | | 8 | 40 |
| A080 | B077 | | OR | OR |
| | B096 | | 6 - 2/0 | 120 |
| A104 | B124 | MPDB67003 | 6 - 350 kcmil | 275 |
| A130 | B156 | | | |
| A154 | B180 | | | |
| A192 | | | | |
| A248 | B240 | MPDB69123 | (1-2) x (6 - 350 kcmil) | (1-2) x 275 |
| A312 | B302 | | | |
| A360 | B361 | | | |
| | B414 | | | |
| | B477 | MPDB69313 | (1-2) x (4 - 500 kcmil) | (1-2) x 500 |
| | B515 | | | |
| | B590 | 1453411 | (1-2) x (4 - 600 kcmil) | (1-2) x 500 |
| | B720 | PDB-55-500-1 | (1-5) x (3/0 - 500 kcmil) | (1-5) x 450 |
| | B810 | | | |
| | B930 | | | |
| | BK09 | | | |

① = STANDARD CIRCUIT BREAKER LUGS REPLACED WITH AL175JD (175A) LINE SIDE LUGS

| TABLE 3 | | | | |
|---|------|------------------|-----------------------|-----------------------------|
| BLOWER MOTOR STARTER WIRING | | | | |
| GA800 CONFIGURED MODEL NO. BASE NUMBER G8C4XXXX | | | | |
| WITH OPTION TB, TO OVERLOAD RELAY S10 | | | | |
| 240V | 480V | MFG. PART NUMBER | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| A004 | B515 | LRD15 | 18 - 8 | 15 |
| A006 | B590 | | | |
| A009 | B720 | | | |
| A015 | B810 | | | |
| A022 | B930 | | | |
| A028 | BK09 | | | |
| A042 | | | | |
| A054 | | | | |
| A068 | | | | |
| A080 | | | | |
| A104 | | | | |
| A130 | | | | |
| A154 | | | | |
| A192 | | | | |
| A248 | | | | |
| A312 | | | | |
| A360 | | | | |
| | B002 | LRD06 | 18 - 8 | 15 |
| | B003 | | | |
| | B004 | | | |
| | B007 | | | |
| | B011 | | | |
| | B014 | | | |
| | B021 | | | |
| | B027 | | | |
| | B034 | | | |
| | B040 | | | |
| | B052 | | | |
| | B065 | | | |
| | B077 | | | |
| | B096 | | | |
| | B124 | | | |
| | B156 | | | |
| | B180 | | | |
| | B240 | | | |
| | B302 | | | |
| | B361 | | | |
| | B414 | | | |
| | B477 | | | |

|  | | | | | DRAWN BY: K. MALUSIC | DATE: 8/1/18 | TITLE: CUSTOMER CONNECTION GA800 CONFIGURED TYPE 1 HD RATING | | | |
|---|--|--|--|--|--------------------------------|-----------------|---|-----------|------------------------|-----------------|
| | | | | | CHECKED: N. LAWS | DATE: 8/1/18 | TECH: | DATE: | APPROVED: K. FLIERL | DATE: 8/1/18 |
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| REVISIONS | | | | | | | | | | |
| REV. | DESCRIPTION | | | | ECO # | DRAWN BY | DATE | | | |
| 04 | ADDED B720 THRU BK09 AND ADDED BUBBLE NOTE 1 TO CLARIFY LUG CHANGE | | | | 13756 | KAP | 4/4/24 | | | |
| 03 | UPDATE OBSOLETE MARATHON TB2 | | | | 13611 | JZ | 1/31/24 | | | |
| 02 | UPDATE INPUT/OUTPUT TERMINAL BLOCK | | | | 12994 | JZ | 4/10/23 | | | |

CUSTOMER WIRING REQUIREMENTS

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

| TABLE 4 | | A.C. MOTOR WIRING | | | | | | EARTH GROUND WIRING | | | | |
|---|------|------------------------------------|---|-----------------------------------|--|-------------------------|-----------------------------|---|-----------------------|-----------------------------|-------------------------|-----------------------------|
| GA800 CONFIGURED MODEL NO. BASE NUMBER G8C4XXXX | | WITH OPTION PH, TO LOAD REACTOR L4 | | | OR, WITH OPTION PH TO TERMINAL BLOCK TB3 | | | OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE | GROUND LUG | | BLOWER MOTOR GROUND LUG | |
| 240V | 480V | MFG. PART NUMBER | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | MFG. PART NUMBER | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| | B002 | RLW-03P40_ | 22 - 10 | 4.5 | | | | CUSTOMER TO WIRE PER THE AC DRIVE TECHNICAL MANUAL USE 75° C COPPER WIRE ONLY | 14 - 10 | 35 | 14 - 10 | 35 |
| | B003 | RLW-04P80_ | | | | | | | | | | |
| A004 | B004 | RLW-07P60_ | | | | | | | | | | |
| | B007 | RLW-00110_ | | | | | | | | | | |
| A006 | B011 | RLW-00140_ | 14 - 6 | 16 | | | | | | | | |
| A009 | B014 | RLW-00210_ | | | | | | | | | | |
| A015 | | RLW-00280_ | | | | | | | | | | |
| A022 | | | | | | | | | | | | |
| A028 | B021 | RLW-00350_ | 6 - 4 OR 2 - 1/0 | 45 OR 50 | | | | | | | | |
| | B027 | RLW-00350_ | | | | | | | | | | |
| | B034 | RLW-00460_ | | | | | | | | | | |
| A042 | B040 | RLW-00550_ | | | | | | | | | | |
| A054 | | RLW-00830_ | MPDB67003 | 6 - 350 kcmil | | | | | 275 | | | |
| A068 | | RLW-01040_ | | | | | | | | | | |
| | B052 | | | | | | | | | | | |
| | B065 | | | | | | | | | | | |
| A080 | B077 | | | | | | | | | | | |
| A104 | B096 | | | | | | | | | | | |
| A130 | B124 | | | | | | | | | | | |
| A154 | | | | | | | | | | | | |
| | B156 | RLW-02000_ | | | 2 - 1 OR 1/0 - 2/0 OR 3/0 - 4/0 | 150 OR 180 OR 250 | | | | | | |
| | | | | | | | | | | | | |
| A192 | B180 | RLW-02500_ | 2/0 OR 3/0 - 4/0 OR 250 - 350 OR 400 - 500 | 180 OR 250 OR 325 OR 375 | | | | | | | | |
| | B240 | RLW-03220_ | | | | | | | | | | |
| A248 | | RLW-03220_ | (1-2) x (6 - 350 kcmil) | (1-2) x 375 | | | | | | | | |
| A312 | B302 | RLW-04140_ | | | | | | | | | | |
| A360 | B361 | RLW-05150_ | | | | | | | | | | |
| | B414 | RLW-06000_ | | | | | | | | | | |
| | B477 | | | | | | | | | | | |
| | B515 | RLW-07500_ | | | | | | | | | | |
| | B590 | | | | | | | | | | | |
| | B720 | | | | | | | | | | | |
| | B810 | | | | | | | | | | | |
| | B930 | | | | | | | | | | | |
| | BK09 | | | | | | | | | | | |

| TABLE 5 | | OPTION PL | | | | CONTROL WIRING | |
|---|------|---|-----------------------------|------------------------|-----------------------------|-----------------------|-----------------------------|
| GA800 CONFIGURED MODEL NO. BASE NUMBER G8C4XXXX | | TO DRIVE A1 | | OR, TO CDBR A2, A3, A4 | | TERMINAL BLOCK TB1 | |
| 240V | 480V | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| A004 | B002 | CUSTOMER TO WIRE PER THE AC DRIVE TECHNICAL MANUAL USE 75° C COPPER WIRE ONLY | | | | 26 - 10 | 5.3 - 7.1 |
| A006 | B003 | | | | | | |
| A009 | B004 | | | | | | |
| A015 | B007 | | | | | | |
| A022 | B011 | | | | | | |
| A028 | B014 | | | | | | |
| A042 | B021 | | | | | | |
| A054 | B027 | | | | | | |
| A068 | B034 | | | | | | |
| A080 | B040 | | | | | | |
| A104 | B052 | | | | | | |
| | B065 | | | | | | |
| | B077 | | | | | | |
| | B096 | | | | | | |
| | B124 | | | | | | |
| A130 | B156 | | | | | | |
| A154 | B180 | | | | | | |
| A192 | B240 | | | | | | |
| A248 | B302 | | | | | | |
| A312 | B361 | | | | | | |
| A360 | B414 | | | | | | |
| | B477 | | | | | | |
| | B515 | | | | | | |
| | B590 | | | | | | |
| | B720 | | | | | | |
| | B810 | | | | | | |
| | B930 | | | | | | |
| | BK09 | | | | | | |

| | | | | | |
|--------------------------------|-------------------------|-----------------|---|-----------------|-----------------|
| YASKAWA | DRAWN BY: K. MALUSIC | DATE: 8/1/18 | TITLE: CUSTOMER CONNECTION GA800 CONFIGURED TYPE 1 HD RATING | | |
| | CHECKED: N. LAWS | DATE: 8/1/18 | | | |
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