

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 | | | | | | | | | |
|--|------|------------------------------------|-----------------------|---------------------------|-----------------------------|---|-----------------------|-----------------------|-----------------------------|------------|-----|
| Z1000U CONFIGURED MODEL NO. BASE NUMBER Z1E3XXXX | | WITH OPTION PM CIRCUIT BREAKER CB1 | | | | STANDARD NON-FUSED INPUT DISCONNECT SWITCH S1 | | | | | |
| 208V | 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.) | | |
| | B011 | H_36020 | 20 | 14 - 10 OR 8 - 3/0 | 50 OR 120 | OT30F3 | 30 | 14 - 4 | 55 | | |
| | B014 | H_36025 | 25 | | | | | | | | |
| | B021 | H_36035 | 35 | | | | | | | | |
| | B027 | H_36040 | 40 | | | | | | | | |
| D024 | | H_36045 | 45 | | | | | | | | |
| | B034 | H_36050 | 50 | | | | | | | | |
| D030 | B040 | H_36060 | 60 | | | OT60F3 | 60 | 14 - 4 | 55 | | |
| | B052 | H_36070 | 70 | | | | | | | | |
| D046 | | H_36080 | 80 | | | | | | | | |
| D059 | B065 | H_36090 | 90 | | | | | | | | |
| | B077 | H_36100 | 100 | | | | | | | | |
| D074 | | H_36110 | 110 | | | | | | | | |
| D088 | B096 | H_36125 | 125 | | | OT100F3 | 100 | 8 - 1/0 | 55 | | |
| D114 | B124 | H_36150 | 150 | | | | | | | | |
| | | | | | | | | | | | |
| D143 | | J_36200 ^① | 200 | J_36000S17 | 175 | | | | | 4 - 4/0 | 225 |
| | B156 | | | | | | | | | | |
| D169 | B180 | J_36225 | 225 | 3/0 - 350 kcmil | 225 | | | | | J_36000S25 | 250 |
| D211 | | L_36400U31X | 400 | (1-2) x (2/0 - 500 kcmil) | (1-2) x 442 | | | | | | |
| | B240 | | | L_36000S40X | 400 | (1-2) x (2/0 - 500 kcmil) | (1-2) x 442 | | | | |
| | B302 | | | | | | | | | | |
| | B361 | L_36600U31X | 600 | | | | | | | | |
| | B414 | | | | | | | | | | |
| | | | | L_36000S60X | 600 | | | | | | |

| TABLE 2 | | A.C. MOTOR WIRING | | | | | | REMOTE EQUIPMENT WIRING | | |
|--|------|--|--|--|-----------------------------|---|------------------------------|-----------------------------|--|-----------------------------|
| Z1000U CONFIGURED MODEL NO. BASE NUMBER Z1E3XXXX | | WITHOUT OPTION PK OR P8 TO STANDARD AC DRIVE | WITH OPTION PK AND WITHOUT OPTION P8 LOAD REACTOR L4 | | | WITH OPTION P8 MOTOR TERMINAL BLOCK TB3 | | | WITH OPTION SF PANEL MOUNTED FUSE BLOCK FOR REMOTE 115V RECEPTACLE | |
| 208V | 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.) |
| | B011 | CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75 C COPPER WIRE ONLY | RLW-00140_ | 22 - 10 | 4.5 | LFS13003Z | 14 - 2 | 40 - 50 | 22 - 10 | 25 |
| | B014 | | RLW-00210_ | 14 - 6 | 16 | | | | | |
| | B021 | | RLW-00280_ | | | | | | | |
| D024 | B027 | | RLW-00350_ | | | | | | | |
| D030 | B034 | | RLW-00460_ | | | | | | | |
| | B040 | | RLW-00550_ | 6 - 4 | 45 | | | | | |
| D046 | B052 | | RLW-00650_ | OR | OR | 1423572 | 14 - 10, 8, OR 6 - 2/0 | 35, 40, OR 120 | | |
| D059 | B065 | | RLW-00830_ | | | | | | | |
| D074 | B077 | | RLW-01040_ | 2 - 1/0 | 50 | MPDB7003 | 6 - 350 kcmil | 275 | | |
| D088 | B096 | | RLW-01300_ | 2, 1, 1/0, 2/0, OR 3/0, 4/0 | 150, 180, OR 250 | | | | | |
| D114 | B124 | | RLW-01600_ | | | 1453129 | (1-2) x (4 - 350 kcmil) | (1-2) x 275 | | |
| D143 | B156 | | RLW-02000_ | | | | | | | |
| | B180 | | RLW-02500_ | 3/0, 4/0, (250-350) kcmil, OR (400-500) kcmil | 250, 325, OR 375 | MPDB69093 | (1-2) x (4 - 500 kcmil) | (1-2) x 500 | | |
| D169 | B240 | | RLW-03220_ | | | | | | | |
| D211 | | | RLW-03220_ | (1-2) x (6 - 350 kcmil) | (1-2) x 375 | | | | | |
| | B302 | | RLW-04140_ | | | | | | | |
| | B361 | | RLW-05150_ | | | | | | | |
| | B414 | | RLW-06000_ | CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR | | | | | | |

| TABLE 3 | | EARTH GROUND WIRING | | NEUTRAL | | CONTROL WIRING | | | |
|--|------|--|--|-----------------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------------|-----------------------------|
| Z1000U CONFIGURED MODEL NO. BASE NUMBER Z1E3XXXX | | GROUND LUG | | PANEL MOUNTED TERMINAL BLOCK TBN1 | | A1 TERMINAL BLOCKS TB1-TB4 | | PANEL MOUNTED TERMINAL BLOCK TB1 | |
| 208V | 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.) | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| | B011 | 14 - 10 OR 8 OR 6 - 4 OR 2 - 1/0 | 35 OR 40 OR 45 OR 50 | 14 - 10, | 35, | 24 - 16 | 4.4 - 5.3 | 26 - 10 | 5.3 - 7.1 |
| | B014 | | | | | | | | |
| | B021 | | | | | | | | |
| D024 | B027 | | | | | | | | |
| | B034 | | | | | | | | |
| D030 | B040 | | | | | | | | |
| D046 | B052 | 14 - 2/0 | 120 | 8, | 40, | OR | OR | | |
| D059 | B065 | | | | | | | | |
| D074 | B077 | | | | | | | | |
| D088 | B096 | | | | | | | | |
| D114 | B124 | | | | | | | | |
| D143 | B156 | | | | | | | | |
| D169 | B180 | 6 - 250 kcmil | 275 | 6 - 350 kcmil | 275 | | | | |
| D211 | B240 | | | | | | | | |
| | B302 | | | | | | | | |
| | B361 | | | | | | | | |
| | B414 | | | | | | | | |

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

| REVISIONS | | | | |
|-----------|---|-------|----------|----------|
| REV. | DESCRIPTION | ECO # | DRAWN BY | DATE |
| 02 | ADDED BUBBLE NOTE 1 TO CLARIFY LUG CHANGE | 13735 | RJJ | 03/25/24 |
| 01 | ADDED "USE COPPER CONDUCTORS ONLY" TO CUST. WIRING REQ. | 7469 | KM | 11/10/16 |
| 00 | INITIAL RELEASE | - | NSL | 08/19/15 |



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| DRAWN BY: N. LAWS | DATE: 8/19/15 | TITLE: CUSTOMER CONNECTION Z1000U CONFIGURED TYPE 3R 40C FULL |
| CHECKED: D.R. CMELAK | DATE: 8/20/15 | |
| TECH: | DATE: | |
| APPROVED: K. FLIERL | DATE: 8/21/15 | SIZE: C |
| ORIGINAL DESIGN: N. LAWS | DATE: 8/19/15 | REVISION: 02 |
| | | PAGE: 1 of 1 |
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