


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 | | | | | | | |
|--|------|------|--|-----------------------|---|-----------------------------|------------------|-----------------------|-------------------------|-------------------------------|
| A1000 CONFIG. MODEL NO. BASE NUMBER A1C*XXXX | | | WITH OPTION PC OR PE, TO CIRCUIT BREAKER CB1 | | OR, WITH OPTION PD, TO DISCONNECT SWITCH S1 | | | | | |
| 240V | 480V | 600V | 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.) |
| A002 | B001 | C1P3 | H__36015 | 15 | 14 - 10 | 50 | V0 | 20 | 14 - 8 | 19 |
| | B002 | C1P7 | | | | | | | | |
| A003 | B003 | C002 | | | OR | OR | | | | |
| A004 | B004 | C003 | | | | | | | | |
| A006 | B007 | C006 | | | 8 - 3/0 | 120 | | | | |
| A009 | B011 | C009 | H__36020 | 20 | | | | | | |
| | B014 | C011 | H__36025 | 25 | | | | | | |
| A015 | | | | | | | V3 | 45 | 10 - 2 | 10 = 35 8 = 40 6-2 = 50 |
| | | C017 | H__36035 | 35 | | | | | | |
| A022 | B021 | | H__36040 | 40 | | | | | | |
| A028 | B027 | C022 | H__36050 | 50 | | | | | | |
| | B034 | C027 | H__36060 | 60 | | | | | | |
| | | C032 | H__36050 | 50 | | | V4 | 63 | 10 - 2 | 10 = 35 8 = 40 6-2 = 50 |
| A042 | B040 | C041 | H__36070 | 70 | | | | | | |
| | B052 | | H__36080 | 80 | | | | | | |
| | | C052 | | | | | V5 | 100 | 8 - 2/0 | 200 |
| A054 | B065 | | H__36090 | 90 | | | | | | |
| | | C062 | H__36100 | 100 | | | | | | |
| A068 | B077 | | H__36110 | 110 | | | | | | |
| A080 | | C077 | H__36125 | 125 | | | | | | |
| | B096 | | | | | | V6 | 115 | 8 - 2/0 | 200 |
| A104 | | | H__36150 | 150 | | | H__36000S15 | 150 | 14 - 3/0 | 14-10 = 50 8-3/0 = 120 |
| | B124 | | J__36175 | 175 | 4 - 4/0 | 225 | | | | |
| A130 | | | J__36200LY | 200 | | | | | | |
| | | C099 | J__36175 | 175 | | | TFB1 | 200 | 6 - 300 kcmil | 375 |
| | | C125 | J__36200LY | 200 | | | | | | |
| | | C144 | | | | | | | | |
| A154 | B156 | | J__36225 | 225 | 3/0 - 350 kcmil | 225 | J__36000S17 | 175 | 4 - 4/0 | 225 |
| | B180 | | J__36250 | 250 | | | TFB1 | 200 | 6 - 300 kcmil | 375 |
| A192 | | C192 | L__36400U31X | 400 | (1-2) x (2/0-500 kcmil) | (1-2) x 442 | J__36000S25 | 250 | 3/0 - 350 kcmil | 225 |
| A248 | B240 | | | | | | L__36000S40X | 400 | (1-2) x (2/0-500 kcmil) | (1-2) x 442 |
| A312 | B302 | | | | | | | | | |
| A360 | B361 | | M__36500 | 500 | (1-3) x (3/0-500 kcmil) | (1-3) x 450 | | | | |
| | B414 | | M__36600 | 600 | | | L__36000S60X | 600 | (1-2) x (2/0-500 kcmil) | (1-2) x 442 |
| | B477 | | M__36700 | 700 | | | P__36000S60 | 600 | (1-3) x (3/0-500 kcmil) | (1-3) x 450 |
| | B515 | | | | | | | | | |
| | B590 | | M__36800 | 800 | | | P__36000S80 | 800 | (1-3) x (3/0-500 kcmil) | (1-3) x 450 |

| TABLE 2 | | | A.C. LINE WIRING | | |
|--|------|------|--|-----------------------|-----------------------------|
| A1000 CONFIG. MODEL NO. BASE NUMBER A1C*XXXX | | | OR, WITHOUT OPTIONS PC, PD OR PE TO INPUT POWER TERMINAL BLOCK TB2 | | |
| 240V | 480V | 600V | MFG. PART NUMBER | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| A002 | B001 | C1P3 | 6H12-TSCU-F | 16 - 10 | 35 |
| A003 | B002 | C1P7 | | OR | OR |
| A004 | B003 | C002 | | 8 | 40 |
| A006 | B004 | C003 | | OR | OR |
| A009 | B007 | C006 | | 6 - 4 | 45 |
| A015 | B011 | C009 | | | |
| A022 | B014 | C011 | | | |
| A028 | B021 | C017 | | | |
| | B027 | C022 | | | |
| | B034 | C027 | | | |
| | | C032 | | | |
| | | C041 | | | |
| A042 | B040 | C052 | 1423572 | 14 - 10 | 35 |
| A054 | B052 | C062 | | OR | OR |
| A068 | B065 | C077 | | 8 | 40 |
| A080 | B077 | | | OR | OR |
| | B096 | | | 6 - 2/0 | 120 |
| A104 | B124 | C099 | MPDB67003 | 6 - 350 kcmil | 275 |
| A130 | B156 | C125 | | | |
| A154 | B180 | C144 | | | |
| A192 | | C192 | | | |
| 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 |

| TABLE 3 | | | BLOWER MOTOR STARTER WIRING | | |
|--|------|------|---------------------------------------|-----------------------|-----------------------------|
| A1000 CONFIG. MODEL NO. BASE NUMBER A1C*XXXX | | | WITH OPTION TB, TO OVERLOAD RELAY S10 | | |
| 240V | 480V | 600V | MFG. PART NUMBER | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| A002 | B515 | | LRD15 | 18 - 8 | 15 |
| A003 | B590 | | | | |
| A004 | | | | | |
| A006 | | | | | |
| A009 | | | | | |
| A015 | | | | | |
| A022 | | | | | |
| A028 | | | | | |
| A042 | | | | | |
| A054 | | | | | |
| A068 | | | | | |
| A080 | | | | | |
| A104 | | | | | |
| A130 | | | | | |
| A154 | | | | | |
| A192 | | | | | |
| A248 | | | | | |
| A312 | | | | | |
| A360 | | | | | |
| | B001 | C1P3 | LRD06 | 18 - 8 | 15 |
| | B002 | C1P7 | | | |
| | B003 | C002 | | | |
| | B004 | C003 | | | |
| | B007 | C006 | | | |
| | B011 | C009 | | | |
| | B014 | C011 | | | |
| | B021 | C017 | | | |
| | B027 | C022 | | | |
| | B034 | C027 | | | |
| | B040 | C032 | | | |
| | B052 | C041 | | | |
| | B065 | C052 | | | |
| | B077 | C062 | | | |
| | B096 | C077 | | | |
| | B124 | C099 | | | |
| | B156 | C125 | | | |
| | B180 | C144 | | | |
| | B240 | C192 | | | |
| | B302 | | | | |
| | B361 | | | | |
| | B414 | | | | |
| | B477 | | | | |

| | | | | | | | | | |
|---|---|--|--|---------------------------|-------------------------------|---|-----------------|-----------------|--|
|  | | | | DRAWN BY: D. PACKER | DATE: 08/12/13 | TITLE: CUSTOMER CONNECTION A1000 CONFIGURED TYPE 1 HD RATING | | | |
| | | | | CHECKED: D.R. CMELAK | DATE: 08/12/13 | DRAWING #: UDE00432 | | | |
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| APPROVED: K. FLIERL | | | | DATE: 08/12/13 | ORIGINAL DESIGN: D. PACKER | | | | |
| REVISIONS | | | | ECO # DRAWN BY DATE | | | | | |
| REV. | DESCRIPTION | | | ECO # | DRAWN BY | DATE | | | |
| 03 | ADDED MOTOR WIRING TO TB3 WITH OPTION PH | | | 7521 | KM | 02/02/21 | | | |
| 02 | ADDED "(USE COPPER CONDUCTORS ONLY)" TO CUST. WIRING REQ. | | | 7469 | KM | 11/10/16 | | | |

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 | | | | |
|---|------|------|------------------------------------|--|-----------------------------|---|-----------------------|--|-----------------------------|-----------------------|-----------------------------|-----------------------|
| A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX | | | WITH OPTION PH, TO LOAD REACTOR L4 | | | OR, WITH OPTION PH, TO TERMINAL BLOCK TB3 | | OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE | A.C. LINE GROUND LUG | | BLOWER MOTOR GROUND LUG | |
| | | | 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) |
| 240V | 480V | 600V | | | | | | | | | | |
| | B001 | C1P3 | RLW-01P60 | 22 - 10 | 4.5 | | | | 14-10 | 35 | 14-10 | 35 |
| | B002 | C1P7 | RLW-02P10 | | | | | | OR | OR | OR | OR |
| | B003 | C002 | RLW-03P40 | | | | | | 8 | 40 | 8 | 40 |
| A002 | B004 | C003 | RLW-04P80 | | | | | | OR | OR | OR | OR |
| A003 | B004 | C006 | RLW-07P60 | | | | | | 6-4 | 45 | 6-4 | 45 |
| A004 | | | | | | | | | OR | OR | OR | OR |
| | B007 | C009 | RLW-00110 | | | | | | 2 | 50 | 2 | 50 |
| A006 | B011 | C011 | RLW-00140 | | | | | | | | | |
| A009 | B014 | C017 | RLW-00210 | 14 - 6 | 16 | | | | | | | |
| A015 | | C022 | RLW-00280 | | | | | | | | | |
| A022 | | | | | | | | | | | | |
| A028 | B021 | C027 | RLW-00350 | | | | | | | | | |
| | B027 | | | | | | | | | | | |
| | B034 | C032 | RLW-00460 | | | | | | | | | |
| A042 | B040 | C041 | RLW-00550 | 6 - 1/0 | 45 | | | | | | | |
| | | C052 | RLW-00650 | | | | | | | | | |
| A054 | | C062 | RLW-00830 | | | | | | | | | |
| A068 | | | | | | | | | | | | |
| A080 | B052 | | | | | MPDB67003 | 6 - 350 kcmil | 275 | | | | |
| A104 | B065 | C077 | | | | | | | | | | |
| A130 | B077 | | | | | | | | | | | |
| A154 | B096 | | | | | | | | | | | |
| | B124 | | | | | | | | | | | |
| | B156 | | | | | | | | | | | |
| | B180 | C125 | RLW-01600 | 2 - 1 | 150 | | | | 14-2/0 | 120 | | |
| | | C144 | RLW-02000 | OR | OR | | | | | | | |
| | | | RLW-02500 | 1/0 - 2/0 | 180 | | | | | | | |
| | | | | OR | OR | | | | | | | |
| A192 | | C192 | RLW-02500 | 3/0 - 4/0 | 250 | | | | | | | |
| | | | | OR | OR | | | | | | | |
| | B240 | | RLW-03220 | 250 - 350 | 325 | | | | | | | |
| | | | | OR | OR | | | | | | | |
| | | | | 400-500 kcmil | 375 | | | | | | | |
| | B302 | | RLW-04140 | (1-2) | (1-2) | | | | | | | |
| A248 | | | RLW-03220 | x | x | | | | | | | |
| A312 | | | RLW-04140 | (6-350) | (375) | | | | | | | |
| A360 | B361 | | RLW-05150 | kcmil | | | | | | | | |
| | B414 | | RLW-06000 | CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR | | | | | 6-250 kcmil | 275 | | |
| | B477 | | | | | | | | | | | |
| | B515 | | RLW-07500 | | | | | | | | | |
| | B590 | | | | | | | | | | | |

| TABLE 5 | | | OPTION PL | | | | CONTROL WIRING | |
|---|------|------|---|-----------------------------|------------------------|-----------------------------|-----------------------|-----------------------------|
| A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX | | | TO A1000 DRIVE | | OR, TO CDBR A2, A3, A4 | | TERMINAL BLOCK TB1 | |
| | | | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| 240V | 480V | 600V | | | | | 24 - 16 | 4.4 - 5.3 |
| A002 | B001 | C1P3 | | | | | | |
| A003 | B002 | C1P7 | | | | | | |
| A004 | B003 | C002 | CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL | | | | | |
| A006 | B004 | C003 | | | | | | |
| A009 | B007 | C006 | | | | | | |
| A015 | B011 | C009 | | | | | | |
| A022 | B014 | C011 | | | | | | |
| A028 | B021 | C017 | | | | | | |
| A042 | B027 | C022 | | | | | | |
| A054 | B034 | C027 | | | | | | |
| A068 | B040 | C032 | | | | | | |
| A080 | B052 | C041 | | | | | | |
| A104 | | | | | | | | |
| A130 | B065 | C052 | | | | | | |
| A154 | B077 | C062 | | | | | | |
| A192 | B096 | C077 | | | | | | |
| A248 | B124 | C099 | | | | | | |
| A312 | B156 | C125 | | | | | | |
| A360 | B180 | C144 | | | | | | |
| | B240 | C192 | | | | | | |
| | B302 | | | | | | | |
| | B361 | | | | | | | |
| | B414 | | | | | | | |
| | B477 | | | | | | | |
| | B515 | | | | | | | |
| | B590 | | | | | | | |

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