

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.
(UNLESS SPECIFIED OTHERWISE)

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 | | | |
|--|--|-----------------------|-------------------------|-----------------------------|---|-----------------------|-------------------------|-----------------------------|
| | 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.) |
| 480V | | | | | | | | |
| B720 | _NX3_100L | 1000 | (1-4) x (1/0-500 kcmil) | (1-4) x 375 | HNS3S120 | 1200 | (1-4) x (1/0-500 kcmil) | (1-4) x 375 |
| B810 | _NX3_120L | 1200 | | | | | | |
| B900 | _NY3_100L | 1000 | | | | | | |
| B930 | _NY3_120L | 1200 | | | | | | |
| BK09 | | | | | | | | |
| BK20 | _PX3_160 | 1600 | (1-6) x (1/0-750 kcmil) | (1-6) x 375 | HNS3S160 | 1600 | (1-6) x (1/0-750 kcmil) | (1-6) x 375 |

TABLE 2

A.C. LINE WIRING

| A1000 CONFIG. MODEL NO. BASE NUMBER A1C * XXXX | OR, WITHOUT OPTIONS PC, PE OR PD TO INPUT POWER TERMINAL BLOCK TB2 | | |
|--|--|------------------------|-----------------------------|
| | MFG. PART NUMBER | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| 480V | | | |
| B720 | PDB-55-500-1 | (1-5) x (3/0-500kcmil) | 450 |
| B810 | | | |
| B900 | | | |
| B930 | PDB-55-600-1 | (1-5) x (250-600kcmil) | 450 |
| BK09 | | | |
| BK20 | | | |

TABLE 3

A.C. MOTOR WIRING

BLOWER MOTOR STARTER WIRING

| A1000 CONFIG. MODEL NO. BASE NUMBER A1C * XXXX | WITH OPTION PH, TO LOAD REACTOR L4 | | | OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE | WITH OPTION TB, TO OVERLOAD RELAY S10 | | |
|--|------------------------------------|--|-----------------------------|--|---------------------------------------|-----------------------|-----------------------------|
| | MFG. PART NUMBER | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | | MFG. PART NUMBER | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| 480V | | | | | | | |
| B720 | RL-75002 | CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR | | CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY | LRD15 | 8 - 18 | 15 |
| B810 | RL-90002B14 | | | | | | |
| B900 | | | | | | | |
| B930 | RL-100002B14 | | | | | | |
| BK09 | RL-120002B14 | | | | | | |
| BK20 | | | | | | | |

TABLE 4

EARTH GROUND WIRING

| A1000 CONFIG. MODEL NO. BASE NUMBER A1C * XXXX | A.C. LINE GROUND LUG | | BLOWER MOTOR GROUND LUG | |
|--|-----------------------|-----------------------------|-------------------------|-----------------------------|
| | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| 480V | | | | |
| B720 | 6-250 kcmil | 275 | 14 - 10 | 35 |
| B810 | | | | |
| B900 | | | | |
| B930 | | | | |
| BK09 | | | | |
| BK20 | | | | |

TABLE 5

CONTROL WIRING

| P1000 CONFIG. MODEL NO. BASE NUMBER P1C * XXXX | TERMINAL BLOCK TB1 | |
|--|-----------------------|-----------------------------|
| | WIRE SIZE RANGE (AWG) | TIGHTENING TORQUE (LB.-IN.) |
| 480V | | |
| B720 | 24 - 18 | 4.4 - 5.3 |
| B810 | | |
| B900 | | |
| B930 | | |
| BK09 | | |
| BK20 | | |

| REVISIONS | | | | |
|-----------|---|-------|----------|----------|
| REV. | DESCRIPTION | ECO # | DRAWN BY | DATE |
| 01 | CHG. SIEMENS CIRCUIT BREAKER PART NO.'S | 3693 | KM | 10/22/12 |
| 00 | INITIAL RELEASE | - | SLP | 2/2/12 |

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|---------------------------------|----------------|
| DRAWN BY: S. PETERSON | DATE 2/2/12 |
| CHECKED: D.R. CMELAK | DATE 2/2/12 |
| TECH: | DATE |
| APPROVED: J. ZUEHLKE | DATE 2/2/12 |
| ORIGINAL DESIGN: S. PETERSON | DATE 2/2/12 |

| | | |
|---|----------------|----------------|
| TITLE: CUSTOMER CONNECTION A1000 CONFIGURED TYPE 1 & 12 ND RATING HIGH HORSEPOWER | | |
| SIZE C | REVISION 01 | PAGE 1 of 1 |
| DRAWING #: UDE00333 | | |