

**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			OT100F3	100	8 - 1/0	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						
D114	B124	H_36150	150						
D143		J_36200 ①	200						
	B156			J_36000S17	175	4 - 4/0	225		
D169	B180	J_36225	225						
D211		L_36400U31X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442	L_36000S25	250	3/0 - 350 kcmil	225
	B240								
	B302								
	B361	L_36600U31X	600						
	B414			L_36000S40X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442		
				L_36000S60X	600				

TABLE 2		A.C. MOTOR WIRING			REMOTE EQUIPMENT WIRING		
Z1000U CONFIGURED MODEL NO. BASE NUMBER Z1E3XXXX		WITHOUT OPTION P8 TO STANDARD AC DRIVE	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.)	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	LFS13003Z	14 - 2	40 - 50	22 - 10	25
	B014						
	B021						
D024	B027						
D030	B034						
	B040						
D046	B052		1423572	14 - 10, 8, OR 6 - 2/0	35, 40, OR 120		
D059	B065						
D074	B077						
D088	B096						
D114	B124						
D143							
	B156						
D169	B180						
	B240	MPDB67003	6 - 350 kcmil	275			
D211							
	B302						
	B361						
	B414	MPDB69093	(1-2) x (4 - 500 kcmil)	(1-2) x 500			

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  14 - 2/0  6 - 250 kcmil	35  OR  40  OR  45  OR  50  120  275	14 - 10,  8,  OR  6 - 2/0  6 - 350 kcmil	35,  40,  OR  120  275	24 - 16	4.4 - 5.3	26 - 10	5.3 - 7.1
	B014								
	B021								
D024	B027								
D030	B034								
	B040								
D046	B052								
D059	B065								
D074	B077								
D088	B096								
D114	B124								
D143	B156								
D169	B180								
D211	B240								
	B302								
	B361								
	B414								

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



DRAWN BY: N. LAWS	DATE: 8/19/15	TITLE: CUSTOMER CONNECTION Z1000U CONFIGURED TYPE 3R 40C COMPACT
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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REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
02	ADDED BUBBLE NOTE 1 TO CLARIFY LUG CHANGE	13735	RJJ	03/22/24
01	ADDED "(USE COPPER CONDUCTORS ONLY)" TO CUST. WIRING REQ.	7469	KM	11/10/16
00	INITIAL RELEASE	-	NSL	08/19/15