

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	B027	H_36045	45										
	B034	H_36050	50										
D030	B040	H_36060	60										
	B052	H_36070	70										
D046	B052	H_36080	80										
D059	B065	H_36090	90										
	B077	H_36100	100										
D074	B077	H_36110	110										
D088	B096	H_36125	125										
D114	B124	H_36150	150										
D143		J_36200①	200	4 - 4/0	225	J_36000S17	175	4 - 4/0	225				
	B156												
D169	B180	J_36225	225			3/0 - 350 kcmil	225			J_36000S25	250	3/0 - 350 kcmil	225
D211	B240	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
	B302					L_36000S60X	600						
	B361	L_36600U31X	600										
	B414												

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						
D059	B065						
D074	B077						
D088	B096						
D114	B124						
D143	B124						
	B156						
D169	B180						
	B240	1423572	14 - 10, 8, OR 6 - 2/0	35, 40, OR 120			
	B302	MPDB67003	6 - 350 kcmil	275			
	B361	1453129	(1-2) x (4 - 350 kcmil)	(1-2) x 275			
	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 OR 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

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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ORIGINAL DESIGN:
N. LAWS

DATE:
8/19/15
DATE:
8/20/15
DATE:
DATE:
8/21/15
DATE:
8/19/15

TITLE:
CUSTOMER CONNECTION
Z1000U CONFIGURED
TYPE 3R
50C COMPACT
SIZE:
C
REVISION:
02
PAGE:
1 of 1
DRAWING #:
UDE00506