

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						
	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_36200①	200	4 - 4/0	225	J_36000S17	175	4 - 4/0	225
	B156					J_36000S25	250	3/0 - 350 kcmil	225
D169	B180	J_36225	225	3/0 - 350 kcmil	225				
D211		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
	B240								
	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					
D088	B096		RLW-01300_	2, 1, 1/0, 2/0, OR 3/0, 4/0	150, 180, OR 250	MPDB67003	6 - 350 kcmil	275		
D114	B124		RLW-01600_							
D143			RLW-02000_							
	B156		RLW-02500_							
D169	B180		RLW-03220_	3/0, 4/0, (250-350) kcmil, OR (400-500) kcmil	250, 325, OR 375	1453129	(1-2) x (4 - 350 kcmil)	(1-2) x 275		
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			MPDB69093	(1-2) x (4 - 500 kcmil)		

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												
D030	B034												
	B040												
D046	B052												
D059	B065												
D074	B077												
D088	B096												
D114													
	B124									6 - 250 kcmil	275	6 - 350 kcmil	275
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 50C FULL		
	CHECKED: D.R. CMELAK	DATE: 8/20/15			
	TECH:	DATE:			
	APPROVED: K. FLIERL	DATE: 8/21/15	SIZE: C	REVISION: 02	PAGE: 1 of 1
THIS DOCUMENT AND INFORMATION CONTAINED IN IT ARE CONFIDENTIAL, AND CANNOT BE COPIED OR DISCLOSED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF YASKAWA AMERICA INC.			ORIGINAL DESIGN: N. LAWS	DATE: 8/19/15	DRAWING #: UDE00508

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