


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.

TABLE 1		A.C. LINE WIRING								CONTROL WIRING					
Z1000 CONFIG. MODEL NO. BASE NUMBER Z1C_XXXX		WITH OPTIONS PC OR PM CIRCUIT BREAKER CB1				OR, STANDARD NON-FUSED INPUT DISCONNECT SWITCH S1				A1 TERMINAL BLOCKS TB1-TB4		A1 TERMINAL BLOCK TB5 (FE)		PANEL TERMINAL BLOCK TB1	
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.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
	B001	H_36015	15	14 - 10 OR 8 - 3/0	50 OR 120	H_36000S15	150	14 - 10 OR 8 - 3/0	50 OR 120	24 - 16	4.4 - 5.3	22 - 14	4.4 - 5.3	24 - 16	4.4 - 5.3
D002	B002	H_36020	20												
D003	B003														
D004	B004														
D006	B007														
D007															
D010	B011														
	B014														
D016		H_36025	25												
	B021	H_36030	30												
		H_36035	35												
D024		H_36040	40												
		H_36045	45												
	B027	H_36050	50												
D030	B034	H_36060	60												
	B040	H_36070	70												
D046	B052	H_36080	80												
D059		H_36100	100												
	B065	H_36110	110												
D074	B077	H_36125	125												
D088		H_36150	150												
	B096	J_36175	175	4 - 4/0	225										
D114		J_36200	200												
	B124					J_36000S17	175	4 - 4/0	225						
D143	B156	J_36250	250	3/0 - 350 kcmil	225	J_36000S25	250	3/0 - 350 kcmil	225						
D169															
	B180	L_36400U31X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442										
D211	B240					L_36000S40X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442						
D273	B302														
D343		L_36600U31X	600			L_36000S60X	600								
D396	B361														
	B414														
	B477	P_3_080	800	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450	P_34000S80	800	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450						
	B515														
	B590														

TABLE 2		A.C. MOTOR WIRING									EARTH GROUND WIRING		NEUTRAL		
Z1000 CONFIG. MODEL NO. BASE NUMBER Z1C_XXXX		WITHOUT OPTIONS PK, PA OR PY TO STANDARD AC DRIVE	OR, WITH OPTION PK LOAD REACTOR L4			OR, WITH OPTION PA MOTOR OVERLOAD RELAYS			OR, WITH OPTION PY A.C. CONTACTORS			GROUND LUGS		TERMINAL BLOCK TBN1	
208V	480V	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	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)	TIGHTENING TORQUE (LB.-IN.)	
	B001	RLW-02P10_	22 - 10	4.5	LRD05	18 - 8	15	LC1D09	18 - 10	15	14 - 10	35	16 - 10	35	
D002	B002	RLW-03P40_			LRD06						OR	OR	OR	OR	
D003	B003	RLW-04P80_			LRD07						8	40	8	40	
D004	B004	RLW-07P60_									OR	OR	OR	OR	
D006	B007	RLW-00110_			LRD1508						6 - 4	45	6 - 4	45	
D007											OR	OR			
D010	B011	RLW-00140_			LRD1510						2 - 1/0	50			
	B014	RLW-00210_	14 - 6	16	LRD1512			LC1D18	18 - 8						
D016					LRD1514										
	B021	RLW-00280_			LRD1516			LC1D25	14 - 6	20					
D024		RLW-00350_						LC1D32							
	B027				LRD1521										
D030		RLW-00460_						LC1D40	16 - 2	70	14 - 2/0	120	14 - 10	35	
	B034	RLW-00550_	6 - 4	45	LRD1522								OR	OR	
D046	B040	RLW-00650_	OR	OR				LC1D50					8	40	
	B052	RLW-00830_	2 - 1/0	50	LRD1532								OR	OR	
D059													6 - 2/0	120	
	B065				LRD340L	16 - 2	70	LC1D65							
D074	B077	RLW-01040_						LC1D80	10 - 2	100					
D088	B096	RLW-01300_	2, 1,	150,	LRD350L			LC1D115	(1) 8 - 1/0 & (1) 8 - 250 kcmil						
D114	B124	RLW-01600_	1/0, 2/0,	180,	LRD365L										
D143		RLW-02000_	OR	OR	LR2D3563	10 - 1/0	100				(1-2) x (6 - 250 kcmil)	(1-2) x 275	6 - 350 kcmil	275	
	B156		3/0, 4/0	250	LR9-F5567	6 - 3/0	200								
D169	B180	RLW-02500_	3/0, 4/0,	250,				LC1F500	(1-2) x (2 - 600 kcmil)	(1-2) x 500					
	B240	RLW-03220_	(250 - 350) kcmil	325	LR9-F5569										
			OR	OR											
			(400 - 500) kcmil	375											
D211		RLW-03220_	(1-2) x (6 - 350 kcmil)	(1-2) x 375											
D273		RLW-04140_													
D343	B302	RLW-05150_			LR9-F5571	6 - 300 kcmil	275								
D396	B414	RLW-06000_	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR			LR9-F7575	(1-2) x (2 - 600 kcmil)	(1-2) x 500							
	B477	RLW-07500_													
	B515														
	B590														

					DRAWN BY: D.R. CMELAK	DATE: 07/30/13	TITLE: CUSTOMER CONNECTION Z1000 CONFIGURED 40C
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.					CHECKED: K. MALUSIC	DATE: 07/30/13	
					TECH:	DATE:	
					APPROVED: K. FLJERL	DATE: 07/30/13	SIZE: C REVISION: 00 PAGE: 1 of 1
					ORIGINAL DESIGN: D.R. CMELAK	DATE: 07/30/13	DRAWING #: UDE00429

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
00	INITIAL RELEASE	-	DRC	7/30/13