


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							
Z1000 BYPASS MODEL NO. BASE NUMBER Z1B_XXXX		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.)
D002	B001	H_36015	15	14 - 10 OR 8 - 3/0	50 OR 120	V0	20	14 - 8	19
D003	B002								
D004	B003								
	B004								
D006	B007	H_36020	20			V3	45	12 - 6	40
D007									
D010	B011	H_36025	25			V4	63	6 - 2	50
	B014	H_36035	35						
D016		H_36040	40			V5	100	8 - 2/0	200
	B021	H_36050	50						
D024	B027	H_36060	60			H_36000S15	150	8 - 3/0	120
D030	B034	H_36070	70						
	B040	H_36080	80			V6	115	8 - 2/0	200
D046	B052	H_36110	110						
D059		H_36125	125			H_36000S15	150	8 - 3/0	120
	B065	H_36150	150			J_36000S17	175	4 - 4/0	225
	B077								
D074									
D088									
D114		J_36250	250	4 - 4/0	225	J_36000S25	250	3/0 - 350 kcmil	225
	B124								
D143	B156	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
D169	B180								
D211		L_36600U31X	600			L_36000S60X	600		
D273	B240								
	B302	P_34060	600	(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
D343	B361								
D396	B414	P_34080	800			P_34000S10	1000	(1-4) x (3/0 - 500 kcmil)	(1-4) x 450
	B477								
	B515								
	B590								

TABLE 2		A.C. MOTOR WIRING									EARTH GROUND WIRING		CONTROL WIRING			
Z1000 BYPASS MODEL NO. BASE NUMBER Z1B_XXXX		STANDARD BYPASS MOTOR OVERLOAD RELAY			OR, WITH OPTION PA MOTOR OVERLOAD RELAYS			OR, WITH OPTION PY A.C. CONTACTORS			GROUND LUG		A1 TERMINAL BLOCKS TB1-TB4 AND PANEL MOUNTED TERMINAL BLOCK TB1		A2 TERMINAL BLOCKS TB1-TB3	
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.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
	B001	LRD06	18 - 8	15	LRD05	18 - 8	15	LC1D09	18 - 10	15	14 - 10	35	24 - 16	4.4 - 5.3	26 - 12	4
D002	B002	LRD07														
D003	B003	LRD15														
D004	B004															
D006	B007				LRD1508											
D007																
D010	B011				LRD1510			LC1D18	18 - 8		8	40				
	B014				LRD1512											
D016					LRD1514			LC1D25	14 - 6	20	OR	OR				
D024	B021				LRD1516											
D030	B027				LRD1521			LC1D32								
	B034	LRD340L	16 - 2	70				LC1D40	16 - 2	70	OR	OR				
	B040															
D046		LRD350L						LC1D50								
D059	B052	LRD365L														
	B065	LR2 D35	10 - 1/0	100	LRD340L	16 - 2	70	LC1D65			6 - 4	45				
D074	B077															
D088	B096	LR9-F5567	6 - 3/0	200	LRD350L			LC1D80	10 - 2	100	OR	OR				
D114	B124	LR9-F5569														
D143					LR2D3563	10 - 1/0	100	LC1D115	(1) 8 - 1/0 & (1) 8 - 250 kcmil							
D169	B156	LR9-F5571	6 - 300 kcmil	275	LR9-F5567	6 - 3/0	200									
	B180							LC1F500	(1-2) x (2 - 600 kcmil)	(1-2) x 500	14 - 2/0	120				
D211	B240	LR9-F7575	(1-2) x (2 - 600 kcmil)	(1-2) x 500	LR9-F5569											
D273																
D343	B302	LR9-F7579			LR9-F5571	6 - 300 kcmil	275									
D396	B361															
	B414	LR9-F7581	(1-3) x (2 - 600 kcmil)	(1-3) x 500	LR9-F7575	(1-2) x (2 - 600 kcmil)	(1-2) x 500		6-250 kcmil	275						
	B477															
	B515															
	B590															

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
03	CHG. CB1 FROM 25A TO 20A FOR Z1B'D007'	4187	KM	9/16/13
02	ADD OPTION PA AND PY CONNECTION DATA, REMOVE TYPE 1 FROM DRAWING TITLE	3917	DP	01/23/13
01	CB1 WAS MCP FOR W1 - W4	3359	KM	3/20/12

 <p>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.</p>	DRAWN BY: D. PACKER	DATE: 01/23/13	TITLE: CUSTOMER CONNECTION Z1000 BYPASS			
	CHECKED: D. CMELAK	DATE: 01/23/13				
	TECH:	DATE:				
	APPROVED: K. FLIERL	DATE: 01/23/13	SIZE: C	REVISION: 03	PAGE: 1 of 1	
ORIGINAL DESIGN: K. FLIERL	DATE: 10/17/11	DRAWING #: UDE00349				