


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 BYPASS MODEL NO. BASE NUMBER Z1B_XXXX		CIRCUIT BREAKER CB1				A1 TERMINAL BLOCKS TB1-TB4		A2 TERMINAL BLOCKS TB1-TB3		PANEL TERMINAL BLOCK TB1	
208V	480V	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.)
D002	B001	H_36015	15	14 - 10 OR 8 - 3/0	50 OR 120	24 - 16	4.4 - 5.3	26 - 12	4.0	24 - 16	4.4 - 5.3
D003	B002										
D004	B003										
	B004										
D006	B007										
D007											
D010	B011										
	B014										
D016											
	B021										
D024	B027	H_36020	20								
D024	B027	H_36025	25								
D024	B027	H_36035	35								
D016		H_36040	40								
	B021	H_36050	50								
D024	B027	H_36060	60								
D030	B034	H_36070	70								
	B040	H_36080	80								
D046	B052	H_36110	110								
D059		H_36125	125								
	B065	H_36150	150								
	B077										
	B096										
D074											
D088											
D114											
	B124										
D143	B156										
D169	B180										
D211											
D273	B240	J_36250	250	4 - 4/0	225						
	B302			3/0 - 350 kcmil	225						
D211		L_36400U31X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442						
D273	B240	L_36600U31X	600								
	B302										
D343	B361	P_34060	600	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450						
D396	B414										
	B477	P_34080	800								
	B515										
	B590										

TABLE 2		A.C. MOTOR WIRING									EARTH GROUND WIRING		NEUTRAL	
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 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	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
	B001	LRD06	18 - 8	15	LRD05	18 - 8	15	LC1D09	18 - 10	15	14 - 10	35	16 - 10	35
D002	B002	LRD07												
D003	B003	LRD15												
D004	B004													
D006	B007	LRD1508												
D007														
D010	B011	LRD1510												
	B014	LRD1512												
D016		LRD1514												
D024	B021	LRD1516												
D030	B027	LRD1521												
	B034	LRD340L	16 - 2	70				LC1D40	16 - 2	70	14 - 2/0	120	14 - 10	35
	B040	LRD1522												
D046		LRD350L												
D059	B052	LRD365L	10 - 1/0	100	LRD1532	16 - 2	70	LC1D65	10 - 2	100			14 - 10	35
	B065	LR2 D35												
D074	B077	LR9-F5567												
D088	B096	LR9-F5569												
D114	B124	LR9-F5569	6 - 3/0	200	LRD350L	10 - 1/0	100	LC1D115	(1) 8 - 1/0 & (1) 8 - 250 kcmil				16 - 10	35
D143	B124	LR2D3563												
D169	B156	LR9-F5571	6 - 300 kcmil	275	LR9-F5567	6 - 3/0	200						8	40
	B180													
D211	B240	LR9-F7575	(1-2) x (2 - 600 kcmil)	(1-2) x 500	LR9-F5569			LC1F500	(1-2) x (2 - 600 kcmil)	(1-2) x 500			OR	40
D273														
D343	B302	LR9-F7579	(1-3) x (2 - 600 kcmil)	(1-3) x 500	LR9-F5571	6 - 300 kcmil	275						OR	120
D396	B361													
	B414	LR9-F7581												
	B477	LR9-F7575												
	B515		(1-2) x (2 - 600 kcmil)	(1-2) x 500									OR	120
	B590													

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
00	INITIAL RELEASE	-	DRC	4/30/13

 <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.R. CMELAK	DATE: 04/30/13	TITLE: CUSTOMER CONNECTION Z1000 BYPASS
	CHECKED: K. MALUSIC	DATE: 04/30/13	
	TECH:	DATE:	
	APPROVED: K. FLIERL	DATE: 04/30/13	SIZE: C
	ORIGINAL DESIGN: D.R. CMELAK	DATE: 04/30/13	DRAWING #: UDE00423
			PAGE: 1 of 1