

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 BYPASS MODEL NO. BASE NUMBER Z1D3XXXX		CIRCUIT BREAKER CB1			
208V	480V	MFG. PART NUMBER	CURRENT RATING (AMPS)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
	B011	H_ _36025	25	14 - 10 OR 8 - 3/0	50 OR 120
	B014	H_ _36030	30		
	B021	H_ _36045	45		
D024	B027	H_ _36060	60		
D030	B034	H_ _36070	70		
	B040	H_ _36080	80		
D046	B052	H_ _36110	110		
D059	B065	H_ _36125	125		
D074	B077	H_ _36150	150		
D088	B096				
D114					
D143	B124	J_ _36250 ①	250	4 - 4/0	225
D169	B156	J_ _36250		3/0 - 350 kcmil	225
	B180				
D211		L_ _36400U31X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442
	B240	L_ _36600U31X	600		
	B302				
	B361	P_ _34060	600	(1-3) x	(1-3) x 450
	B414			(3/0 - 500 kcmil)	

TABLE 2		A.C. MOTOR WIRING			EARTH GROUND WIRING		NEUTRAL		CONTROL WIRING					
Z1000U BYPASS MODEL NO. BASE NUMBER Z1D3XXXX		MOTOR OVERLOAD RELAY S10			GROUND LUGS		PANEL MOUNTED TERMINAL BLOCK TBN1		DRIVE A1 TERMINAL BLOCKS TB1 - TB4		BYPASS CONTROL PCB A2 TERMINAL BLOCKS TB1 - TB3		PANEL MOUNTED TERMINAL BLOCK TB1	
208V	480V	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.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
	B011	LRD15	18 - 8	15	14 - 10	35	14 - 10	35	24 - 16	4.4 - 5.3	26 - 12	4	26 - 10	5.3 - 7.1
	B014													
D024	B021													
D030	B027	LRD340L	16 - 2	70	6 - 4	45	8	40	6 - 2/0	120				
	B034													
	B040													
D046		LRD350L												
D059	B052	LRD365L												
	B065	LR2 D35	10 - 1/0	100										
D074	B077	LR9-F5567	6 - 3/0	200	14 - 2/0	120	6 - 2/0	120						
D088	B096													
D114	B124													
D143		LR9-F5571	6 - 300 kcmil	275	6 - 250 kcmil	275	6 - 350 kcmil	275						
D169	B156													
	B180													
D211	B240	LR9-F7575	(1-2) x (2 - 600 kcmil)	(1-2) x 500										
	B302	LR9-F7579												
	B361	LR9-F7581	(1-3) x (2 - 600 kcmil)	(1-3) x 500										
	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	03/22/24
01	ADDED "(USE COPPER CONDUCTORS ONLY)" TO CUST. WIRING REQ.	7469	KM	11/10/16
00	INITIAL RELEASE	-	DRC	07/01/15

 <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: 07/1/15	TITLE: CUSTOMER CONNECTION Z1000U BYPASS 40C COMPACT		
	CHECKED: N. LAWS	DATE: 07/1/15			
	TECH:	DATE:			
	APPROVED: K. FLIERL	DATE: 7/1/15	SIZE: C	REVISION: 02	PAGE: 1 of 1
ORIGINAL DESIGN: D.R. CMELAK		DATE: 7/1/15	DRAWING #: UDE00494		