


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	H_36020	20								
D007											
D010	B011	H_36025	25								
	B014	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										
D074											
D088											
D114	B096	J_36250	250	4 - 4/0	225						
	B124										
D143	B156			3/0 - 350 kcmil	225						
D169	B180	L_36400U31X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442						
D211											
D273	B240	L_36600U31X	600								
	B302										
D343	B361	P_34060	600	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450						
D396	B414	P_34080	800								
	B477										
	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 (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	16 - 10	35
D002	B002	LRD07												
D003	B003	LRD15			LRD06						OR	OR	OR	OR
D004	B004													
D006	B007													
D007														
D010	B011				LRD1508			LC1D18	18 - 8		OR	OR	OR	OR
D016	B014													
D024	B021													
D030	B027													
	B034	LRD340L	16 - 2	70	LRD1512			LC1D25	14 - 6	20	OR	OR	OR	OR
	B040													
D046		LRD1514			LRD1516			LC1D32			OR	OR	OR	OR
D059	B052													
	B065	LR2 D35	10 - 1/0	100	LRD1521			LC1D40	16 - 2	70	OR	OR	OR	OR
D074	B077													
D088		LRD1522			LRD1532			LC1D50			OR	OR	OR	OR
	B096													
D114	B124	LR9-F5567	6 - 3/0	200	LRD340L	16 - 2	70	LC1D65	10 - 2	100	OR	OR	OR	OR
D143														
	B156	LR9-F5567	6 - 300 kcmil	275	LRD350L			LC1D115	(1) 8 - 1/0 & (1) 8 - 250 kcmil		(1-2) x (6 - 250 kcmil)	(1-2) x 275	6 - 350 kcmil	275
D169	B180													
D211	B240	LRD350L	(1-2) x (2 - 600 kcmil)	(1-2) x 500	LRD365L			LC1D150	6 - 350 kcmil	275				
D273														
D343	B302	LR2D3563	(1-3) x (2 - 600 kcmil)	(1-3) x 500	LR9-F5569			LC1F265	(1-2) x (2 - 600 kcmil)	(1-2) x 500				
D396	B361													
	B414	LR9-F5571	(1-3) x (2 - 600 kcmil)	(1-3) x 500	LR9-F5571			LC1F330						
	B477													
	B515	LR9-F7575			LR9-F5571			LC1F400						
	B590													
		LR9-F7575			LR9-F7575	(1-2) x (2 - 600 kcmil)	(1-2) x 500	LC1F500						

					DRAWN BY: D.R. CMELAK	DATE: 04/30/13	TITLE: CUSTOMER CONNECTION Z1000 BYPASS		
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					ORIGINAL DESIGN: D.R. CMELAK	DATE: 04/30/13	DRAWING #: UDE00424		

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
01	CHG. CB1 FROM 25A TO 20A FOR Z1B*D007*	4187	KM	9/16/13
00	INITIAL RELEASE	-	DRC	4/30/13