

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				NEUTRAL					
P1000 BYPASS MODEL NO. BASE NUMBER P1B_XXXX		WITH STANDARD, OR OPTION PM, CIRCUIT BREAKER CB1				TERMINAL BLOCK TBN1					
208V	480V	MFG. PART NUMBER	CURRENT RATING (AMPS)	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	14 - 10	35				
D003	B002					OR	OR				
D004	B003					8	40				
	B004					OR	OR				
D006	B007	H_ _36020	20			6 - 4	45				
D007						OR	OR				
D010	B011	H_ _36025	25					2	50		
	B014	H_ _36035	35								
D016		H_ _36040	40								
	B021	H_ _36050	50								
D024	B027	H_ _36060	60								
D030		H_ _36070	70								
	B034							14 - 10	35		
	B040	H_ _36080	80					OR	OR		
D046	B052	H_ _36110	110					8	40		
D059		H_ _36125	125					OR	OR		
	B065	H_ _36150	150					6 - 2/0	120		
	B077										
	B096										
D074											
D088											
D114											
	B124	J_ _36250	250	4 - 4/0	225			6 - 350 kcmil	275		
D143	B156			3/0 - 350 kcmil	225						
D169	B180										
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		CONTROL WIRING			
P1000 BYPASS MODEL NO. BASE NUMBER P1B_XXXX		STANDARD BYPASS MOTOR OVERLOAD RELAY			OR, WITH OPTION PA MOTOR OVERLOAD RELAYS			OR, WITH OPTION PY A.C. CONTACTORS			GROUND LUGS		DRIVE A1 AND PANEL MOUNTED TERMINAL BLOCK TB1		BYPASS CONTROL PCB 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			LRD06											
D003	B003	LRD15			LRD07						OR	OR				
D004	B004															
D006	B007				LRD1508											
D007																
D010	B011				LRD1510				8	40						
	B014				LRD1512			LC1D18			18 - 8					
D016					LRD1514											
D024	B021				LRD1516			LC1D25	14 - 6	20	OR	OR				
D030	B027				LRD1521			LC1D32								
	B034	LRD340L	16 - 2	70		16 - 2	70	LC1D40	16 - 2	70	6 - 4	45	OR	OR		
	B040				LRD1522											
D046		LRD350L						LC1D50								
D059	B052	LRD365L			LRD1532											
	B065	LR2 D35	10 - 1/0	100	LRD340L	16 - 2	70	LC1D65	10 - 2	100	OR	OR				
D074	B077							LC1D80								
D088	B096	LR9-F5567			LRD350L			LC1D115	(1) 8 - 1/0 & (1) 8 - 250 kcmil							
D114	B124	LR9-F5569			LRD365L						2	50				
D143			6 - 300 kcmil	275	LR9-F5567	6 - 3/0	200		(1-2) x (2 - 600 kcmil)	(1-2) x 500	14 - 2/0	120				
D169	B156	LR9-F5571														
	B180															
D211	B240	LR9-F7575			LR9-F5569			LC1F500			(1-2) x (2 - 600 kcmil)	(1-2) x 500				
D273			(1-2) x (2 - 600 kcmil)	(1-2) x 500		6 - 300 kcmil	275									
D343	B302	LR9G500			LR9-F5571											
D396	B361															
	B414	LR9G630			LR9-F7575	(1-2) x (2 - 600 kcmil)	(1-2) x 500				6-250 kcmil	275				
	B477		(1-3) x (2 - 600 kcmil)	(1-3) x 500												
	B515															
	B590															

REV. DESCRIPTION ECO # DRAWN BY DATE

04 CHG. OVERLOAD RELAY FOR STANDARD BYPASS D343,D396 AND B361,414,477,515,590 MODELS 15179 KM 03/25/26

03 UPDATE INPUT/OUTPUT TERMINAL BLOCK 12994 JZ 04/10/23

02 ADDED "(USE COPPER CONDUCTORS ONLY)" TO CUST. WIRING REQ. 7469 KM 11/10/16

YASKAWA

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.

DRAWN BY:
D.R. CMELAK

CHECKED:
D. PACKER

TECH:

APPROVED:
K. FLIERL

ORIGINAL DESIGN:
D.R. CMELAK

DATE:
11/12/13

DATE:
11/12/13

DATE:

DATE:
11/12/13

DATE:
11/12/13

TITLE:
CUSTOMER CONNECTION
P1000 BYPASS

SIZE:
C

REVISION:
04

PAGE:
1 of 1

DRAWING #:
UDE00447

Prepared by krstan_malusic 4/2/2026 10:09:06 AM