


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											
HV600 BYPASS MODEL NO. BASE NUMBER H6B1XXXX			WITH OPTION PM CIRCUIT BREAKER CB1				OR, STANDARD NON-FUSED DISCONNECT SWITCH S1							
208V	240V	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	A002	B1P1	H_36015	15	14 - 10 OR 8 - 3/0	50 OR 120	V0	20	14 - 8	19				
D003	A003	B001												
D004	A004	B002												
		B003												
		B004												
D007	A006	B007	H_36020	20										
D010	A009	B011	H_36025	25										
	A015	B014	H_36035	35										
D016			H_36040	40										
	A022	B021	H_36050	50			V3	45	10 OR 8	35 OR 40				
D024		B027	H_36060	60					6 - 2	OR 50				
	A028		H_36070	70										
D030		B034					V4	63						
		B040	H_36080	80										
	A042		H_36100	100										
D046		B052	H_36110	110										
D059	A054		H_36125	125										
	A068	B065	H_36150	150										
D074	A080									V6	115			
D088		B077												
		B096												
D114	A104		J_36250	250	4 - 4/0	225	J_36000S15	175	4 - 4/0	225				
	A130										J_36000S25	250	3/0 - 350 kcmil	
D143	A154	B156			3/0 - 350 kcmil									
D169		B180												
	A192		L_36400U31X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442								
D211							L_36000S40X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442				
D273	A248	B240	L_36600U31X	600										
		B302					L_36000S60X	600						

TABLE 2			A.C. MOTOR WIRING			EARTH GROUND WIRING		CONTROL WIRING							
HV600 BYPASS MODEL NO. BASE NUMBER H6B1XXXX			WITH STANDARD MOTOR TERMINAL BLOCK TB3			GROUND LUG		A1 TERMINAL BLOCKS TB1, TB3-TB6		A1 TERMINAL BLOCK TB2 (FE)		A2 TERMINAL BLOCKS TB1-TB4 AND TB6		PANEL TERMINAL BLOCK TB4	
208V	240V	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.)
D002	A002	B1P1	NDN111A-WH	14 - 2	32	14 - 10 OR 8 OR 6 - 4 OR 2	35 OR 40 OR 45 OR 50	24 - 16	4.4 - 5.3	24 - 18	8.9 - 10.7	26 - 14	4	26 - 10	5.3 - 7.1
D003	A003	B001													
D004	A004	B002													
D007	A006	B003													
D010	A009	B004													
D016	A015	B007													
D024	A022	B011													
D030	A028	B014													
D046	A042	B021													
D059	A054	B027													
	A068	B034													
		B040													
		B052													
		B065													
D074	A080	B077	MPDB63153	14 - 8 OR 6 - 2/0	50 OR 120										
D088	A104	B096													
D114			1323572	14 - 10 OR 8 OR 6 - 2/0	35 OR 40 OR 120										
	A130	B124	MPDB67523	(1-2) x (6) OR (4) OR (3 - 4/0)	(1-2) x 80 OR 100 OR 150										
D143	A154	B156													
D169															
	A192	B180				14 - 2/0	120								
D211	A248	B240	MPDB69093	(1-2) x (4 - 500 kcmil)	(1-2) x 500										
D273		B302													

REVISIONS						 <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:	DATE:	TITLE:	
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE	TECH:		DATE:			
04	UPDATE OBSOLETE MARATHON TB3	16766	JZ	04/10/24	APPROVED:		DATE:	SIZE:	REVISION:	PAGE:
03	UPDATE OBSOLETE MARATHON TB3	13612	JZ	02/01/24	R. JENSEN		6/10/20	C	04	1 of 1
02	CORRECTED TB2(FE) TORQUE INFO	12799	DLT	1/5/23	ORIGINAL DESIGN:	DATE:	DRAWING #:			
					K. MALUSIC	6/10/20	UDE00661			