


**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 H6B3XXXX			WITH OPTION PM, TO CIRCUIT BREAKER CB1				OR, STANDARD, TO 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	H__36000S15	150	14 - 10 OR 8 - 3/0	50 OR 120
D003	A003	B001								
D004	A004	B002								
		B003								
		B004								
D007	A006	B007	H__36020	20						
D010	A009	B011	H__36025	25						
		B014	H__36030	30						
D016	A015	B007	H__36035	35						
		B021	H__36040	40						
	A022		H__36045	45						
D024		B027	H__36050	50						
D030	A028		H__36060	60						
		B034	H__36070	70						
	A042	B040	H__36080	80						
D046			H__36090	90						
	A054	B052	H__36100	100						
D059			H__36110	110						
	A068	B065	H__36125	125						
D074	A080	B077	H__36150	150						
D088	A104	B096	H__36150M74	150						
D114		B124	JLL36250M75	250	3/0 - 350 kcmil	225	J__36000S17	175	4 - 4/0	225
	A130						J__36000S25LY	250	3/0 - 350 kcmil	225
D143	A154	B156					J__36000S25			
D169		B180								
D211	A192	B240	L__36400U31X	400	(1 - 2) x (2/0-500 kcmil)	(1 - 2) x 442	L__36000S40X	400	(1 - 2) x (2/0-500 kcmil)	(1 - 2) x 442
D273	A248	B240	L__36600U31X	600			L__36000S60X	600	(1 - 2) x (2/0-500 kcmil)	(1 - 2) x 442
		B302								

TABLE 2			A.C. MOTOR WIRING		
HV600 BYPASS MODEL NO. BASE NUMBER H6B3XXXX			MOTOR CONNECTION TERMINAL BLOCK TB3		
208V	240V	480V	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
D002	A002	B1P1	NDN111A-WH	14 - 4	32
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			
D088	A104	B096			
D114			1323572	14 - 10 OR 8 OR 6 - 2/0	35 OR 40 OR 120
	A130	B124	MPDB67523	(2) 6 OR (2) 4 OR (2) 3 - 4/0	(2) 80 OR (2) 100 OR (2) 150
D143	A154	B156			
D169	A192	B180			
D211	A248	B240	1333320	(2) 6 - 250	(2) 275
D273		B302			

TABLE 3			EARTH GROUND WIRING				NEUTRAL		CONTROL WIRING																	
HV600 BYPASS MODEL NO. BASE NUMBER H6B3XXXX			INPUT GROUND LUG		MOTOR CONNECTION GROUND LUG		TERMINAL BLOCK TBN1		DRIVE TERMINAL BLOCKS (TB1-TB7)		DIN RAIL MOUNTED TERMINAL BLOCK TB4		BYPASS CONTROL PCB A2 TERMINAL BLOCKS TB1-TB4, TB6													
208V	240V	480V	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	14 - 10 OR 8 OR 6 - 4 OR 2 - 1/0	35 OR 40 OR 45 OR 50	14 - 10 OR 8 OR 6 - 4 OR 2	35 OR 40 OR 45 OR 50	16 - 10 OR 8 OR 6 - 4	35 OR 40 OR 45	24 - 16	4.4 - 5.3	26 - 10	5.3 - 7.1	26 - 14	4												
D003	A003	B001																								
D004	A004	B002																								
D007	A006	B003																								
D010	A009	B004																								
D016	A015	B007																								
D024	A022	B011																								
D030	A028	B014																								
		B021																								
		B027																								
		B034																								
D046	A042	B040																								
D059	A054	B052																								
D074	A068	B065																								
D088	A080	B077																								
D114	A104	B096																								
		B124	14 - 2/0	120			14 - 10 OR 8 OR 6 - 2/0	35 OR 40 OR 120																		
D143	A130				6 - 250 kcmil	275	6 - 350 kcmil	275																		
D169	A154	B156																								
D211	A192	B180	6 - 250 kcmil	275																						
D273	A248	B240																								
		B302																								

				DRAWN BY: N. LAWS CHECKED: K. MALUSIC TECH: APPROVED: R. JENSEN ORIGINAL DESIGN: N. LAWS	DATE: 7/7/20 DATE: 7/8/20 DATE: DATE: 7/9/20	TITLE: CUSTOMER CONNECTION HV600 BYPASS TYPE 3R ND RATING SIZE: C REVISION: 01 DRAWING #: UDE00640	
REVISIONS REV. DESCRIPTION ECO # DRAWN BY DATE 01 ADDED B1P1 MODEL 12039 RJJ 05/20/22 00 INITIAL RELEASE - NSL 07/09/20				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.			