

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																						
FP605 CONFIGURED MODEL NO. BASE NUMBER F6C1XXXX			WITH OPTION PC, PE OR PM CIRCUIT BREAKER CB1				OR, OPTION PD NON-FUSED DISCONNECT SWITCH S1				OR, WITHOUT OPTIONS PE, PC, PM OR PD TO INPUT POWER TERMINAL BLOCK TB2														
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.)	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	OT30F3	30	14 - 4	55	NDN111A-WH-P	90	14 - 2	32											
D003	A003	B001																							
D004	A004	B002																							
D007	A006	B003																							
	A009	B004																							
		B007																							
		B011																							
D010			H_36020	20																					
D016	A015	B014	H_36025	25																					
D024	A022	B021	H_36030	30			OT60F3	60																	
			H_36040	40																					
D030	A028	B034	H_36050	50			OT100F3	100	8 - 1/0																
D046			H_36060	60																					
			H_36080	80																					
D059	A054	B065	H_36110	110							MPDB63153	175	14 - 8 OR 6 - 2/0	50 OR 120											
D074	A068																								
D088	A080		H_36150	150																					
D114	A104	B096																							
	A130		J_36200LY	200	4 - 4/0	225	OT200U12	200	4 - 300 kcmil	275															
D143		B156	J_36250	250	3/0 - 350 kcmil						MPDB67003	310	6 - 350 kcmil	275											
D169	A154	B180																							
	A192						J_36000S25	250	3/0 - 350 kcmil	225															
D211			J_36250C																						
D273	A248	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	MPDB69123	620	(1-2) x (6 - 350 kcmil)	(1-2) x 275											
	A312	B302																							
D343	A360	B361	L_36600U31X	600			L_36000S60X	600	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442															
D396		B414																							
			P_36080-PDC	800	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450	P_34000S80-PDC	800	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450	MPDB69313	760	(1-2) x (4 - 500 kcmil)	(1-2) x 500											
		B477																							
		B515																							
		B590									MPDB69543	840	(1-2) x (2 - 600 kcmil)	(1-2) x 600											
		B720	P_36100U44A	1000	(1-4) x (3/0 - 500 kcmil)	(1-4) x 450	P_36000S10	1000	(1-4) x (3/0 - 500 kcmil)	(1-4) x 450	PDB-55-500-1	1600	(1-5) x (3/0 - 500 kcmil)	(1-5) x 450											

TABLE 2			A.C. MOTOR WIRING													
FP605 CONFIGURED MODEL NO. BASE NUMBER F6C1XXXX			WITH OPTION PH, LOAD REACTOR L4			WITH OPTION P8 TERMINAL BLOCK TB3			OR, WITHOUT OPTION PH, P8 TO A1 DRIVE TERMINALS (T1,T2,T3)		OR, WITHOUT OPTION PH, P8 TO A1 DRIVE TERMINAL (GROUND)					
208V	240V	480V	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.)				
		B1P1	RLW-01P60_	22 - 10	4.5	NDN111A-WH-P	14 - 2	32	CUSTOMER TO WIRE PER THE AC DRIVE TECHNICAL MANUAL. USE 75 °C COPPER WIRE ONLY							
		B001	RLW-02P10_													
D002		B002	RLW-03P40_													
D003	A002	B003	RLW-04P80_													
D004	A003	B004	RLW-07P60_													
	A004															
D007		B007	RLW-00110_													
D010	A006	B011	RLW-00140_	14 - 6	16											
D016	A009	B014	RLW-00210_													
	A015		RLW-00280_													
	A022			6 - 4 OR 2 - 1/0	45 OR 50											
D024	A028	B021	RLW-00350_													
		B027														
D030		B034	RLW-00460_													
	A042	B040	RLW-00550_													
D046		B052	RLW-00650_	2 OR 1/0 - 2/0 OR 4/0	150 OR 180 OR 250											
D059	A054	B065	RLW-00830_													
D074	A068	B077	RLW-01040_													
	A080			16303-3	6 - 350	275										
D088	A104	B096	RLW-01300_													
		B124	RL-13002	MPDB63153	14 - 8 OR 6 - 2/0	50 OR 120										
D114			RLW-01600_	CUSTOMER TO CONNECT TO OPTION P8, TERMINAL BLOCK (TB3). USE THE CORRESPONDING TB3 WIRE RANGE AND TORQUE VALUES TO MAKE THE CUSTOMER CONNECTION.			MPDB67003	6 - 350 kcmil	275							
	A130															
D143	A154	B156	RLW-02000_													
D169		B180	RLW-02500_													
	A192															
D211	A248	B240	RLW-03220_													
D273			RLW-04140_													
	A312	B302		(1-2) x (6 - 350 kcmil)	(1-2) x 375	16500-3	(1-2) x (6 - 350 kcmil)	(1-2) x 275								
D343	A360	B361	RLW-05150_	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR			16528-3	(1-2) x (2 - 600 kcmil)	(1-2) x 500							
		B414	RLW-06000_													
		B477														
		B515	RLW-07500_													
		B590														
		B720	RL-75002	PDB-55-500-1	(1-5) x (3/0 - 500 kcmil)	(1-5) x 450										

TABLE 3			EARTH GROUND WIRING		CONTROL WIRING					
FP605 CONFIGURED MODEL NO. BASE NUMBER F6C1XXXX			GROUND LUG		A1 TERMINAL BLOCKS TB1, TB3-TB7		A1 TERMINAL BLOCK TB2 (FE)		PANEL TERMINAL BLOCK TB1, TB4	
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.)
D002	A002	B1P1	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 - 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								
D074	A068	B034								
D088	A080	B040								
D114	A104	B052								
		B065								
		B077								
		B096								
		B124								
D143	A130	B156	14 - 2/0	120						
D169	A154	B180								
D211	A192	B240	6 - 250	275						
D273	A248	B302								
	A312									
D343	A360	B361								
D396		B414								
		B477								
		B515								
		B590								
		B720								

REVISIONS					YASKAWA	DRAWN BY: K. MALUSIC CHECKED: K. PEOPLES TECH:	DATE: 11/16/22 DATE: 11/16/22 DATE:	TITLE: CUSTOMER CONNECTION FP605 CONFIGURED TYPE 1	
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