

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											
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C5XXXX		WITH OPTION PE OR PC TO CIRCUIT BREAKER CB1				OR, WITH OPTION PM TO CIRCUIT BREAKER CB1				OR, WITH OPTION PD, TO DISCONNECT SWITCH S1			
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.)
A004	B002	H_36015	15	14 - 10 OR 8 - 3/0	50 OR 120	H_36015	15	14 - 10 OR 8 - 3/0	50 OR 120	H_36000S15	150	14 - 10 OR 8 - 3/0	50 OR 120
A006	B003												
	B004												
	B007												
A009	B011	H_36020	20			H_36020	20						
	B014	H_36025	25			H_36025	25						
A015		H_36030	30			H_36030	30						
	B021	H_36035	35			H_36035	35						
A022		H_36040	40			H_36040	40						
	B027	H_36045	45			H_36045	45						
A028		H_36050	50			H_36050	50						
	B034	H_36060	60			H_36060	60						
	B040	H_36050	50			H_36050	50						
A042	B052	H_36070	70			H_36070	70						
	B065	H_36080	80			H_36080	80						
A054	B077	H_36100	100			H_36100	100						
A068	B096	H_36125	100			H_36125	100						
A080		H_36100	100			H_36100	100						
A104	B124	H_36150	150			H_36150	150						
A130		J_36175	175	4 - 4/0	225	J_36175	175	4 - 4/0	225	J_36000S17	175	4 - 4/0	225
A154	B156	J_36200	200	3/0 - 350 kcmil	225	J_36200	200	3/0 - 350 kcmil	225	J_36000S25	250	3/0 - 350	225
	B180	J_36225	225			J_36225	225			J_36000S25	250		
A192		J_36250	250			J_36250	250						
A248	B240	L_36400U31X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442	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
A312	B302												
A360	B361	M_36800E10	450	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450	P_34060	600	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450	L_36000S60X	600	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450
	B414		600										
	B477	P_36080	800			P_36080	800			P_34000S80	800		
	B515												
	B590												
	B720									OT800U03	800	(1-4) x (2 - 600 kcmil)	(1-4) x 500
	B810									OT1200U03	1200	(1-4) x (2 - 600 kcmil)	(1-4) x 500
	B930												
	BK09									OT1600U03	1600	(1-8) x (2 - 600 kcmil)	(1-8) x 500

TABLE 2		A.C. LINE WIRING		
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C5XXXX		OR, WITHOUT OPTIONS PE, PC, PM OR PD TO INPUT POWER TERMINAL BLOCK TB2		
240V	480V	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
		LFS13003Z	14 - 8 OR 6 - 2	40 OR 50
	B002			
A004	B003			
A006	B004			
A009	B007			
A015	B011			
A022	B014			
A028	B021			
	B027			
	B034			
A042	B040	1323572	14 - 10 OR 8	35 OR 40
A054	B052			
A068	B065			
A080	B077			
	B096		6 - 2/0	120
A104	B124	MPDB67003	6 - 350 kcmil	275
A130	B156			
A154	B180			
A192				
A248	B240	MPDB69123	(1-2) x (6 - 350 kcmil)	(1-2) x 275
A312	B302			
A360	B361			
	B414			
	B477	MPDB69313	(1-2) x (4 - 500 kcmil)	(1-2) x 500
	B515			
	B590	1453411	(1-2) x (4 - 600 kcmil)	(1-2) x 500
	B720	PDB-55-500-1	(1-5) x (3/0 - 500 kcmil)	(1-5) x 450
	B810			
	B930			
	BK09			

TABLE 3		BLOWER MOTOR STARTER WIRING		
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C5XXXX		WITH OPTION TB, TO OVERLOAD RELAY S10		
240V	480V	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
A004	B515	LRD15	18 - 8	15
A006	B590			
A009	B720			
A015	B810			
A022	B930			
A028	BK09			
A042				
A054				
A068				
A080				
A104				
A130				
A154				
A192				
A248				
A312				
A360				
	B002	LRD06	18 - 8	15
	B003			
	B004			
	B007			
	B011			
	B014			
	B021			
	B027			
	B034			
	B040			
	B052			
	B065			
	B077			
	B096			
	B124			
	B156			
	B180			
	B240			
	B302			
	B361			
	B414			
	B477			

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
05	ADDED B720 THRU BK09	13756	KAP	04/04/24
04	UPDATE OBSOLETE MARATHON TB2	13611	JZ	01/31/24
03	UPDATE INPUT/OUTPUT TERMINAL BLOCK	12994	JZ	04/10/23

YASKAWA	DRAWN BY: K. PEOPLES	DATE: 07/19/18	TITLE: CUSTOMER CONNECTION GA800 CONFIGURED TYPE 12 HD RATING	
	CHECKED: N. LAWS	DATE: 07/19/18		
	TECH:	DATE:		
	APPROVED: K. FLIERL	DATE: 07/19/18	SIZE: C	REVISION: 05
ORIGINAL DESIGN: K. PEOPLES	DATE: 07/19/18	DRAWING #: UDE00599		

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 4		A.C. MOTOR WIRING				EARTH GROUND WIRING					
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C5XXXX		WITH OPTION PH, TO LOAD REACTOR L4				OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE		A.C. LINE GROUND LUG		BLOWER MOTOR GROUND LUG	
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.)	
	B002	RLW-03P40_	22 - 10	4.5	CUSTOMER TO WIRE PER THE AC DRIVE TECHNICAL MANUAL USE 75° C COPPER WIRE ONLY	14 - 10	35	14 - 10	35		
	B003	RLW-04P80_				OR	OR	OR	OR		
A004	B004	RLW-07P60_				8	40	8	40		
	B007	RLW-00110_				OR	OR	OR	OR		
A006	B011	RLW-00140_				6 - 4	45	6 - 4	45		
A009	B014	RLW-00210_	14 - 6	16		OR	OR	OR	OR		
A015		RLW-00280_				2	50	2	50		
A022											
A028	B021	RLW-00350_									
	B027										
	B034	RLW-00460_									
A042	B040	RLW-00550_	6 - 4 OR 2 - 1/0	45 OR 50							
	B052										
A054	B065	RLW-00830_									
A068	B077	RLW-01040_									
A080											
A104	B096	RLW-01300_	2 - 1	150	14 - 2/0	120					
A130	B124	RLW-01600_	OR 1/0 - 2/0	OR 180							
A154	B156	RLW-02000_	OR 3/0 - 4/0	OR 250							
A192	B180	RLW-02500_	2/0 OR 3/0 - 4/0	180 OR 250	6 - 250	275					
			OR 250 - 350	OR 325							
			OR 400 - 500	OR 375							
A248	B240	RLW-03220_	(1-2) x (6 - 350 kcmil)	(1-2) x 375							
A312	B302	RLW-04140_									
A360	B361	RLW-05150_									
	B414	RLW-06000_	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR USE 75° C COPPER WIRE ONLY							
	B477										
	B515	RLW-07500_									
	B590										
	B720										
	B810										
	B930										
	BK09										

TABLE 5		OPTION PL				CONTROL WIRING	
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C5XXXX		TO DRIVE A1		OR, TO CDBR A2, A3, A4		TERMINAL BLOCK TB1	
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.)
A004	B002	CUSTOMER TO WIRE PER THE AC DRIVE TECHNICAL MANUAL USE 75° C COPPER WIRE ONLY				26 - 10	5.3 - 7.1
A006	B003						
A009	B004						
A015	B007						
A022	B011						
A028	B014						
A042	B021						
A054	B027						
A068	B034						
A080	B040						
A104	B052						
	B065						
	B077						
	B096						
	B124						
A130	B156	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE CDBR INSTALLATION MANUAL USE 75° C COPPER WIRE ONLY					
A154	B180						
A192	B240						
A248	B302						
A312	B361						
A360	B414						
	B477						
	B515						
	B590						
	B720						
	B810						
	B930						
	BK09						

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