

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 G8C2XXXX		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	B027	H__36045	45			H__36045	45								
A028	B034	H__36060	60			H__36060	60								
A042	B040	H__36070	70			H__36070	70								
	B052														
	B065	H__36080	80			H__36080	80								
A054	B077	H__36100	100			H__36100	100								
A068	B096	H__36125	100			H__36125	100								
A080	B124	H__36150	150			H__36150	150								
A104															
A130		J__36175	175	4 - 4/0	225	J__36175	175	4 - 4/0	225	J__36000S17	175	4 - 4/0	225		
	B156	J__36200 ①	200			J__36200 ①	200			J__36000S25	250				
A154		J__36200	200			J__36200	200			3/0 - 350 kcmil					
	B180	J__36225	225			J__36225	225								
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	
	B302														
A312		M__36800E10	450	(1-3) x (3/0 - 500 kcmil)		(1-3) x 450	P__364060	600	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450	L__36000S60X	600			
	B361		500												
A360	B414		600												
	B477	P__36080	800		P__36080		800	P__34000S80	800	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450				
	B515														
	B590														
	B720	P__36100U44A	1000	(1-4) x (3/0 - 500 kcmil)	(1-4) x 450	P__36100U44A	1000	(1-4) x (3/0 - 500 kcmil)	(1-4) x 450	P__34000S10	1000	(1-4) x (3/0 - 500	(1-4) x 450		
	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		
	BK20														

TABLE 2		A.C. LINE WIRING		
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C2XXXX		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.)
A004	B002	LFS13003Z	14 - 8	40
A006	B003			
A009	B004			
A015	B007			
A022	B011			
A028	B014			
	B021			
	B027			
	B034			
A042	B040			
A054	B052	1323572	14 - 10	35
A068	B065			
A080	B077			
	B096			
A104	B124			
A130	B156			
A154	B180			
A192				
A248	B240			
A312	B302			
A360	B361	MPDB67003	6 - 350 kcmil	275
	B414			
	B477			
	B515			
	B590			
	B720			
	B810			
	B930			
	BK09			
	BK20			
		MPDB69123	(1-2) x (6 - 350 kcmil)	(1-2) x 275
		MPDB69313	(1-2) x (4 - 500 kcmil)	(1-2) x 500
		PDB-55-500-1	(1-5) x (3/0 - 500 kcmil)	(1-5) x 450
		PDB-55-600-1	(1-5) x (250 - 600 kcmil)	(1-5) x 450

① = STANDARD CIRCUIT BREAKER LUGS REPLACED WITH AL175JD (175A) LINE SIDE LUGS

TABLE 3		BLOWER MOTOR STARTER WIRING		
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C2XXXX		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	BK20			
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			

						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: K. PEOPLES		DATE: 07/26/18		TITLE: CUSTOMER CONNECTION GA800 CONFIGURED TYPE 12 ND RATING									
								CHECKED: N. LAWS		DATE: 07/26/18											
REVISIONS						TECH:		DATE:													
REV.		DESCRIPTION				ECO #		DRAWN BY		DATE		APPROVED: K. FLIERL		DATE: 07/26/18		SIZE: C		REVISION: 06		PAGE: 1 of 2	
06		ADDED B810 THRU BK20 AND ADDED BUBBLE NOTE 1 TO CLARIFY LUG CHANGE				13756		KAP		04/04/24											
05		UPDATE OBSOLETE MARATHON TB2				13611		JZ		01/31/24											
04		UPDATE INPUT/OUTPUT TERMINAL BLOCK				12994		JZ		04/10/23											

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 G8C2XXXX		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.)
	B002	RLW-03P40_	22 - 10	4.5	CUSTOMER TO WIRE PER THE AC DRIVE TECHNICAL MANUAL USE 75° C COPPER WIRE ONLY	14 - 10 OR 8 OR 6 - 4 OR 2	35 OR 40 OR 45 OR 50	14 - 10 OR 8 OR 6 - 4 OR 2	35 OR 40 OR 45 OR 50
	B003	RLW-04P80_							
A004	B004	RLW-07P60_							
	B007	RLW-00110_							
A006	B011	RLW-00140_							
A009	B014	RLW-00210_	14 - 6	16					
A015		RLW-00280_							
A022									
A028	B021	RLW-00350_							
	B027								
	B034	RLW-00460_							
A042	B040	RLW-00550_	6 - 4 OR 2 - 1/0	45 OR 50					
	B052	RLW-00650_							
A054	B065	RLW-00830_							
A068	B077	RLW-01040_	6 - 4 OR 2 - 1/0	45 OR 50					
A080									
A104	B096	RLW-01300_	2 - 1 OR 1/0 - 2/0 OR 3/0 - 4/0	150 OR 180 OR 250	14 - 2/0	120			
A130	B124	RLW-01600_							
A154	B156	RLW-02000_							
A192		RLW-02500_	2/0 OR 3/0 - 4/0 OR 250 - 350 OR 400 - 500	180 OR 250 OR 325 OR 375					
	B180								
A248	B240	RLW-03220_	(1-2) x (6 - 350 kcmil)	(1-2) x 375	6 - 250	275			
	B302	RLW-04140_							
A312									
A360	B361	RLW-05150_	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR USE 75° C COPPER WIRE ONLY					
	B414	RLW-06000_							
	B477								
	B515	RLW-07500_							
	B590								
	B720	RL-75002							
	B810								
	B930								
	BK09								
	BK20								

TABLE 5		OPTION PL				CONTROL WIRING	
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C2XXXX		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						
A130	B065						
	B077						
	B096						
	B124						
	B156						
A154	B180			CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE CDBR INSTALLATION MANUAL USE 75° C COPPER WIRE ONLY			
A192	B240						
A248	B302						
A312	B361						
A360	B414						
	B477						
	B515						
	B590						
	B720						
	B810						
	B930						
	BK09						
	BK20						

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