


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 G8C3XXXX		WITH OPTION PC, PE, OR PM; TO CIRCUIT BREAKER CB1			
240V	480V	MFG. PART NUMBER	CURRENT RATING (AMPS)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
	B002	H_36015	15	14 - 10 OR 8 - 3/0	50 OR 120
	B003				
A004	B004				
A006	B007				
A009	B011				
A015	B014				
	B021	H_36020	20		
A022	B014	H_36025	25		
A028	B021	H_36040	40		
	B027	H_36050	50		
	B034	H_36060	60		
	B040	H_36070	70		
A042	B052	H_36080	80		
	B065	H_36090	90		
A054		H_36100	100		
	B077	H_36110	110		
A068		H_36125	125		
A080	B096	H_36150	150		
A104					
A130	B124	J_36200LY	200	4 - 4/0	225
A154		J_36225	225	3/0 - 350 kcmil	225
	B156	J_36250	250		
A192	B180	L_36400U31X	400	(1 - 2) x (2/0-500 kcmil)	(1 - 2) x 442
A248	B240				
	B302				
A312	B361	P_34060	600	(1 - 3) x (3/0-500 kcmil)	(1 - 3) x 450
A360	B414				
	B477	P_34080	800		
	B515				
	B590				
	B720	P_36100U44A	1000	(1 - 4) x (3/0-500 kcmil)	(1 - 4) x 450
	B810	3VA6712_HM31-0AA0	1200	(1 - 4) x (1/0-500 kcmil)	(1 - 4) x 375
	B930				
	BK09	3VA6816_HM31-0AA0	1600	(1 - 6) x (1/0-750 kcmil)	(1 - 6) x 375
	BK20				

TABLE 2		A.C. LINE WIRING									
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C3XXXX		OR, WITH OPTION PD, TO DISCONNECT SWITCH S1				OR, WITHOUT OPTIONS PC, PE, PM, OR PD TO INPUT POWER TERMINAL BLOCK TB2					
240V	480V	MFG. PART NUMBER	CURRENT RATING (AMPS)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)			
	B002	H_36000S15	150	14 - 10 OR 8 - 3/0	50 OR 120	LFS13003Z	14 - 8 OR 6 - 2	40 OR 50			
A004	B003										
A006	B004										
A009	B007										
A015	B011										
	B014										
A022	B021					1323572				14 - 10 OR 8 OR 6 - 2/0	35 OR 40 OR 120
A028	B027										
A042	B034										
A054	B040										
A068	B052										
	B065										
	B077										
	B096										
A080		J_36000S17	175	4 - 4/0	225						
A104											
	B124	J_36000S25LY	250	4 - 4/0	225	MPDB67003	6 - 350 kcmil	275			
A130											
A154	B156	J_36000S25	250	3/0 - 350 kcmil	225	MPDB69123	(1 - 2) x (6-350 kcmil)	(1 - 2) x 275			
	B180	L_36000S40X	400	(1 - 2) x (2/0-500 kcmil)	(1 - 2) x 442						
A192	B240	L_36000S60X	600	(1 - 2) x (2/0-500 kcmil)	(1 - 2) x 442						
A248	B302										
A312	B361	P_36000S80	800	(1 - 3) x (3/0-500 kcmil)	(1 - 3) x 450	MPDB69313	(1 - 2) x (4-500 kcmil)	(1 - 2) x 500			
A360	B414	P_36000S10	1000	(1 - 3) x (3/0-500 kcmil)	(1 - 3) x 450						
	B477					1453411	(1 - 2) x (2-600 kcmil)	(1 - 2) x 500			
	B515	P_36000S12	1200	(1 - 3) x (3/0-500 kcmil)	(1 - 3) x 450						
	B590					PDB-55-500-1	(1-5) x (3/0-500 kcmil)	(1 - 5) x 450			
	B720	3VA5712_BB31-0AA0	1200	(1 - 4) x (1/0-500 kcmil)	(1 - 4) x 375						
	B810	3VA5816_BB31-0AA0	1600	(1 - 6) x (1/0-750 kcmil)	(1 - 6) x 375						
	B930										
	BK09					PDB-55-600-1	(1-5) x (250-600 kcmil)				
	BK20										

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
04	CORRECT FRAME 12 INPUT AMPS	13975	JZ	7/24/24
03	UPDATE OBSOLETE MARATHON TB2	13611	JZ	01/31/24
02	ADD FRAME 12 DETAILS	13465	JZ	12/05/23

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	CHECKED: K. MALUSIC	DATE: 6/13/18	
	TECH:	DATE:	
	APPROVED: K. FLIERL	DATE: 6/14/18	SIZE: C
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CUSTOMER WIRING REQUIREMENTS

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TABLE 3		A.C. MOTOR WIRING			OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C3XXXX		WITH OPTION PH, TO LOAD REACTOR L4			
240V	480V	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB. - IN.)	CUSTOMER TO WIRE PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY
	B002	RLW-03P40_	22 - 10	4.5	
	B003	RLW-04P80_			
	B004	RLW-07P60_			
	B007	RLW-00110_			
A006	B011	RLW-00140_	14 - 6	16	
A009	B014	RLW-00210_			
A015		RLW-00280_			
A022					
A028	B021	RLW-00350_			
	B027				
	B034	RLW-00460_	6 - 4 OR 2 - 1/0	45 OR 50	
A042	B040	RLW-00550_			
	B052	RLW-00650_			
A054	B065	RLW-00830_			
A068	B077	RLW-01040_			
A080			2 - 1 OR 1/0 - 2/0 OR 3/0 - 4/0	150 OR 180 OR 250	
A104	B096	RLW-01300_			
A130	B124	RLW-01600_			
A154	B156	RLW-02000_			
A192		RLW-02500_	2/0 OR 3/0 - 4/0 OR 250 - 350 kcmil OR 400 - 500 kcmil	180 OR 250 OR 325 OR 375	
	B180				
A248	B240	RLW-03220_			
A312	B302	RLW-04140_	(1-2) x (6-350 kcmil)	(1 - 2) x 375	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY
A360	B361	RLW-05150_	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR		
	B414	RLW-06000_			
	B477				
	B515	RLW-07500_			
	B590				
	B720	RL-7500_			
	B810	RL-8500_			
	B930	RL-10000_			
	BK09	RL-12000_			
	BK20				

TABLE 4		EARTH GROUND WIRING		NEUTRAL		CONTROL WIRING	
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C3XXXX		GROUND LUGS		TERMINAL BLOCK TBN1		TERMINAL BLOCK TB1	
240 V	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.)
	B002	14 - 10	35	14 - 10	35	26 - 10	5.3 - 7.1
A004	B003	OR	OR	OR	OR		
A006	B004	8	40	8	40		
A009	B007	OR	OR	OR	OR		
A015	B011	6 - 4	45	6 - 4	45		
A022	B014	OR	OR	OR	OR		
A028	B021	2 - 1/0	50	2	50		
	B027						
	B034						
	B040						
A042		14 - 2/0	120	14 - 10	35		
A054	B052			OR	OR		
A068	B065			8	40		
A080	B077			OR	OR		
A104	B096			6 - 2/0	120		
A130	B124						
A154	B156					6 - 350 kcmil	275
A192	B180	6 - 250 kcmil	275	6 - 350 kcmil	275		
A248	B240						
A312	B302						
A360	B361						
	B414						
	B477						
	B515						
	B590						
	B720						
	B810						
	B930						
	BK09						
	BK20						

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