

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 G8C1XXXX		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__36040	40			H__36040	40																		
A022	B027	H__36050	50			H__36050	50																		
A028	B034	H__36060	60			H__36060	60																		
	B040	H__36070	70			H__36070	70																		
A042	B052	H__36080	80			H__36080	80																		
	B065	H__36090	90			H__36090	90																		
A054	B077	H__36100	100			H__36100	100																		
A068		H__36125	125			H__36125	125																		
A080	B096	H__36150	150			H__36150	150																		
A104		J__36200 ①	200	4 - 4/0	225	J__36200 ①	200	4 - 4/0	225	J__36000S25 ①	250	4 - 4/0	225												
	B124																								
A130																									
A154		J__36225	225			J__36225	225			J__36000S25	250														
	B156	J__36250	250			J__36250	250																		
A192	B180	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												
A248	B240																								
	B302																								
A312																									
A360		M__36800E10	500	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450	M__36800E10	500	(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												
			600				600																		
	B361		500				P__34060																		
	B414		600				P__34080																		
	B477	P__36080	800							P__34000S80	800	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450												
	B515																								
	B590																								
	B720																								
	B810	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__36000S10	1000	(1-4) x (3/0 - 500 kcmil)	(1-4) x 450												
	B930															OT1200U03	1200	(1-4) x (2 - 600 kcmil)	(1-4) x 500						
	BK09																					OT1600U03	1600	(1-8) x (2 - 600 kcmil)	(1-8) x 500
	BK20																								

TABLE 2		A.C. LINE WIRING		
G800 CONFIGURED MODEL NO. BASE NUMBER G8C1XXXX		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	1323572	14 - 10	35
	B034			
A042	B040			
A054	B052			
A068	B065	MPDB67003	6 - 350 kcmil	275
A080	B077			
	B096			
A104	B124			
A130	B156	MPDB69123	(1-2) x (6 - 350 kcmil)	(1-2) x 275
A154	B180			
A192				
A248	B240			
A312	B302	MPDB69313	(1-2) x (4 - 500 kcmil)	(1-2) x 500
A360	B361			
	B414			
	B477			
	B515	1453411	(1-2) x (4 - 600 kcmil)	(1-2) x 500
	B590			
	B720	PDB-55-500-1	(1-5) x (3/0 - 500 kcmil)	(1-5) x 450
	B810			
	B930			
	BK09	PDB-55-600-1	(1-5) x (250 - 600 kcmil)	(1-5) x 450
	BK20			

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

TABLE 3		BLOWER MOTOR STARTER WIRING		
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C1XXXX		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			

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DRAWN BY:
K. MALUSIC

CHECKED:
N. LAWS

TECH:

APPROVED:
K. FLIERL

ORIGINAL DESIGN:
K. MALUSIC

DATE:
8/1/18

DATE:
8/1/18

DATE:

DATE:
8/1/18

DATE:
8/1/18

CUSTOMER CONNECTION
GA800 CONFIGURED
TYPE 1 ND RATING

SIZE:
C

REVISION:
05

PAGE:
1 of 2

DRAWING #:
UDE00577

REVISIONS

REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
05	ADDED B810 THRU BK20 AND ADDED BUBBLE NOTE 1 TO CLARIFY LUG CHANGE	13756	KAP	4/4/24
04	UPDATE OBSOLETE MARATHON TB2	13611	JZ	1/31/24
03	UPDATE INPUT/OUTPUT TERMINAL BLOCK	12994	JZ	4/10/23

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 G8C1XXXX		WITH OPTION PH, TO LOAD REACTOR L4			OR, WITH OPTION PH TO TERMINAL BLOCK TB3			OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE	GROUND LUG		BLOWER MOTOR GROUND LUG																			
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.)																		
	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 8 OR 6 - 4 OR 2																		
	B003	RLW-04P80_																												
A004	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_																												
A054		RLW-00830_																												
	B052	RLW-00650_																												
A068		RLW-01040_																												
A080																														
	B065				MPDB67003	6 - 350 kcmil	275																							
	B077																													
A104	B096																													
A130	B124																													
A154	B156																													
A192		RLW-02500_											2/0 OR 3/0 - 4/0 OR 250 - 350 OR 400 - 500	180 OR 250 OR 325 OR 375				CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, USE 75° C COPPER WIRE ONLY	14 - 2/0	120										
	B180																													
A248	B240	RLW-03220_																												
	B302	RLW-04140_	(1-2) x (6 - 350 kcmil)	(1-2) x 375																										
A312																														
	B361	RLW-05150_																												
A360																														
	B414	RLW-06000_						CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR																						
	B477																													
	B515	RLW-07500_																												
	B590																													
	B720	RL-75002																												
	B810																													
	B930																													
	BK09																													
	BK20																													

TABLE 5		OPTION PL				CONTROL WIRING	
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C1XXXX		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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