

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	50	H_36015	15	14 - 10	50	H_3600S15	150	14 - 10	50
A006	B003			OR	OR			OR	OR			OR	OR
	B004			8 - 3/0	120			8 - 3/0	120			8 - 3/0	120
	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_3600S17	175	4 - 4/0	225
	B156	J_36200LY	200			J_36200LY	200			J_3600S25	250	3/0 - 350	
A154		J_36200	200	3/0 - 350 kcmil		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 kcmil)	(1-4) x 450

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	6H12-TSCU-F	16 - 10	35
A006	B003		OR	OR
A009	B004		8	40
A015	B007		6 - 4	45
A022	B011			
A028	B014			
	B021			
	B027			
	B034			
A042	B040	1423572	14 - 10	35
A054	B052		OR	OR
A068	B065		8	40
A080	B077		OR	OR
	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

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				
A022				
A028				
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			

YASKAWA					DRAWN BY: K. PEOPLES CHECKED: N. LAWS TECH: APPROVED: K. FLIERL ORIGINAL DESIGN: K. PEOPLES	DATE: 07/26/18 DATE: 07/26/18 DATE: 07/26/18 DATE: 07/26/18	TITLE: CUSTOMER CONNECTION GA800 CONFIGURED TYPE 12 ND RATING	SIZE: C REVISION: 03 DRAWING #: UDE00598	PAGE: 1 of 2	
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REVISIONS										
REV.	DESCRIPTION				ECO #	DRAWN BY	DATE			
03	UPDATE D143 & B156 BREAKERS WITH LY OPTION				12973	JZ	03/27/23			
02	UPDATED M-FRMAE CB's TO M_36800E10				12586	KL	10/07/22			
01	ADDED OPTION TB				10925	KAP	10/28/20			

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						
	B414	RLW-06000_								
	B477									
	B515	RLW-07500_								
	B590									
	B720	RL-75002								

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						

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