

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 G8C4XXXX		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						
A022	B021	H__36040	40			H__36040	40						
A028	B027	H__36050	50			H__36050	50						
	B034	H__36060	60			H__36060	60						
	B040					H__36060	60						
	B052	H__36080	80			H__36080	80						
A042		H__36070	70			H__36070	70						
	B065	H__36090	90			H__36090	90						
A054	B077	H__36100	100			H__36100	100						
A068	B096	H__36125	125			H__36125	125						
A080		H__36100	100			H__36100	100						
A104		H__36150	150			H__36150	150						
	B124	J__36175	175	4 - 4/0	225	J__36175	175	4 - 4/0	225	J__36000S17	175	4 - 4/0	225
A130		J__36200LY	200			J__36200LY	200			J__36000S25LY	250		
A154	B156	J__36225	225	3/0 - 350 kcmil	225	J__36225	225	3/0 - 350 kcmil	225	J__36000S25	250	3/0 - 350	225
	B180	J__36250	250			J__36250	250						
A192		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
	B240												
A248	B302												
A312													
A360		M__36500	500	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450	M__36500	500	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450	L__36000S60X	600		
	B361					P__34060	600						
	B414	M__36600	600										
	B477	P__36080	800			P__34080	800			P__34000S80	800	(1-3) x (3/0 - 500 kcmil)	(1-3) x 450
	B515												
	B590												

TABLE 2				
A.C. LINE WIRING				
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C4XXXX				
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 OR 8 OR 6 - 4	35 OR 40 OR 45
A006	B003			
A009	B004			
A015	B007			
A022	B011			
A028	B014			
	B021			
	B027			
	B034			
A042	B040	1423572	14 - 10 OR 8	35 OR 40
A054	B052			
A068	B065		OR	OR
A080	B077		6 - 2/0	120
	B096			
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

TABLE 3				
BLOWER MOTOR STARTER WIRING				
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C4XXXX				
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				
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			

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
01	ADDED OPTION TB	10925	KAP	10/28/20
00	INITIAL RELEASE	-	KM	8/1/18

YASKAWA	DRAWN BY: K. MALUSIC	DATE: 8/1/18	TITLE: CUSTOMER CONNECTION GA800 CONFIGURED TYPE 1 HD RATING	
	CHECKED: N. LAWS	DATE: 8/1/18		
	TECH:	DATE:		
	APPROVED: K. FLIERL	DATE: 8/1/18	SIZE: C	REVISION: 01
	ORIGINAL DESIGN: K. MALUSIC	DATE: 8/1/18	DRAWING #: UDE00575	

CUSTOMER WIRING REQUIREMENTS

- FOR 0 TO 100 AMPS, USE A MINIMUM OF 60° - 75° C COPPER WIRE. (USE COPPER CONDUCTORS ONLY)
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TABLE 4		A.C. MOTOR WIRING						EARTH GROUND WIRING				
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C4XXXX		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	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	RLW-00350_										
	B034	RLW-00460_										
A042	B040	RLW-00550_	6 - 4 OR 2 - 1/0	45 OR 50								
A054		RLW-00830_										
A068		RLW-01040_										
	B052				MPDB67003	6 - 350 kcmil	275					
	B065											
A080	B077											
A104	B096											
A130	B124											
A154												
	B156	RLW-02000_	2 - 1 OR 1/0 - 2/0 OR 3/0 - 4/0	150 OR 180 OR 250				CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, USE 75° C COPPER WIRE ONLY	14 - 2/0	120		
A192	B180	RLW-02500_	2/0 OR 3/0 - 4/0 OR 250 - 350 OR 400 - 500	180 OR 250 OR 325 OR 375								
B240		RLW-03220_										
A248		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									
	B477											
	B515	RLW-07500_										
	B590											

TABLE 5		OPTION PL				CONTROL WIRING	
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C4XXXX		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						

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