

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 G8C6XXXX		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	50
	B003			OR	OR
A004	B004			8 - 3/0	120
A006	B007				
A009	B011	H_36020	20		
A015	B014	H_36025	25		
A022	B021	H_36040	40		
A028	B027	H_36050	50		
	B034	H_36060	60		
A042	B040	H_36070	70		
	B052	H_36080	80		
A054	B065	H_36090	90		
A068	B077	H_36110	110		
A080	B096	H_36125	125		
A104		H_36150	150		
	B124	J_36175	175	4 - 4/0	225
A130		J_36200LY	200		
A154	B156	J_36225	225	3/0 - 350 kcmil	225
	B180	J_36250	250		
A192		L_36400U31X	400	(1 - 2) x (2/0-500 kcmil)	(1 - 2) x 442
A248	B240				
A312	B302				
A360	B361	P_34060	600	(1 - 3) x (3/0-500 kcmil)	(1 - 3) x 450
	B414				
	B477	P_34080	800		
	B515				
	B590				
	B720	3VA6710- HM31-0AA0	1000	(1 - 4) x (1/0-500 kcmil)	(1 - 4) x 375
	B810	3VA6712- HM31-0AA0	1200		
	B930				
	BK09	3VA6816- HM31-0AA0	1600	(1 - 6) x (1/0-750 kcmil)	(1 - 6) x 375

TABLE 2		A.C. LINE WIRING						
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C6XXXX		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	50	LFS13003Z	14 - 8	40
A004	B003			OR	OR		OR	OR
A006	B004			8 - 3/0	120		6 - 2	50
A009	B007							
A015	B011							
A022	B014							
	B021					1323572	14 - 10	35
A028	B027						OR	OR
A042	B034						8	40
A054	B040						OR	OR
A068	B052						6 - 2/0	120
A080	B065							
	B077							
	B096							
A104		J_36000S17	175	4 - 4/0	225			
	B124	J_36000S25LY	250	4 - 4/0	225			
A130						MPDB67003	6 - 350 kcmil	275
A154								
	B156	J_36000S25	250	3/0 - 350 kcmil	225			
	B180							
A192	B240	L_36000S40X	400	(1 - 2) x (2/0-500 kcmil)	(1 - 2) x 442	MPDB69123	(1 - 2) x (6-350 kcmil)	(1 - 2) x 275
A248								
A312	B302	L_36000S60X	600	(1 - 2) x (2/0-500 kcmil)	(1 - 2) x 442			
A360	B361							
	B414	P_36000S80	800	(1 - 3) x (3/0-500 kcmil)	(1 - 3) x 450			
	B477					MPDB69313	(1 - 2) x (4-500 kcmil)	(1 - 2) x 500
	B515	P_36000S10	1000	(1 - 3) x (3/0-500 kcmil)	(1 - 3) x 450			
	B590					1453411	(1 - 2) x (2-600 kcmil)	(1 - 2) x 500
	B720	3VA5710- BB31-0AA0	1000	(1 - 4) x (1/0-500 kcmil)	(1 - 4) x 375	PDB-55-500-1	(1-5) x (3/0-500 kcmil)	(1 - 5) x 450
	B810	3VA5712- BB31-0AA0	1200					
	B930							
	BK09	3VA5816- BB31-0AA0	1600	(1 - 6) x (1/0-750 kcmil)	(1 - 6) x 375			

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


<p>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.</p>	DRAWN BY: N. LAWS	DATE: 6/11/18	TITLE: CUSTOMER CONNECTION GA800 CONFIGURED TYPE 3R HD RATING
	CHECKED: K. MALUSIC	DATE: 6/13/18	
	TECH:	DATE:	
	APPROVED: K. FLIERL	DATE: 6/14/18	SIZE: C
ORIGINAL DESIGN: N. LAWS	DATE: 6/11/18	DRAWING #: UDE00582	PAGE: 1 of 2

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 3		A.C. MOTOR WIRING			OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE	
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C6XXXX		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		CUSTOMER TO WIRE PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY
	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						
A104	B096	RLW-01300_	2 - 1 OR 1/0 - 2/0 OR 3/0 - 4/0	150 OR 180 OR 250		
A130	B124	RLW-01600_				
A154		RLW-02000_				
	B156					
A192	B180	RLW-02500_	2/0 OR 3/0 - 4/0 OR 250 - 350 kcmil OR 400 - 500 kcmil	180 OR 250 OR 325 OR 375		
A248	B240	RLW-03220_				
A312	B302	RLW-04140_			(1-2) x (6-350 kcmil)	(1 - 2) x 375
A360	B361	RLW-05150_				
	B414	RLW-06000_			CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY
	B477					
	B515	RLW-07500_				
	B590					
	B720	RL-7500_				
	B810	RL-8500_				
	B930	RL-10000_				
	BK09	RL-12000_				

TABLE 4		EARTH GROUND WIRING		NEUTRAL		CONTROL WIRING	
GA800 CONFIGURED MODEL NO. BASE NUMBER G8C6XXXX		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 OR 8 OR 6 - 4 OR 2 - 1/0	35 OR 40 OR 45 OR 50	14 - 10 OR 8 OR 6 - 2/0	35 OR 40 OR 120	26 - 10	5.3 - 7.1
A004	B003						
A006	B004						
A009	B007						
A015	B011						
A022	B014						
A028	B021						
A042	B027						
	B034						
A054	B040						
A068	B052						
A080	B065						
A104	B977						
A130	B096						
A154	B124						
	B156	6 - 250 kcmil	275	6 - 350 kcmil	275		
A192	B180						
A248	B240						
A312	B302						
A360	B361						
	B414						
	B477						
	B515						
	B590						
	B720						
	B810						
	B930						
	BK09						

 <p>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.</p>	DRAWN BY: N. LAWS	DATE: 6/11/18	TITLE: CUSTOMER CONNECTION GA800 CONFIGURED TYPE 3R HD RATING		
	CHECKED: K. MALUSIC	DATE: 6/13/18			
	TECH:	DATE:			
	APPROVED: K. FLIERL	DATE: 6/14/18	SIZE: C	REVISION: 04	PAGE: 2 of 2
ORIGINAL DESIGN: N. LAWS	DATE: 6/11/18	DRAWING #: UDE00582			