

**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							
A1000 CONFIG. MODEL NO. BASE NUMBER A1C*XXXX			WITH OPTION PC OR PE, TO CIRCUIT BREAKER CB1				OR, WITH OPTION PD, TO DISCONNECT SWITCH S1			
240V	480V	600V	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.)
A002	B001	C1P3	H__36015	15	14 - 10	50	V0	20	14 - 8	19
	B002	C1P7								
A003	B003	C002			OR	OR				
A004	B004	C003								
A006	B007	C006			8 - 3/0	120				
A009	B011	C009	H__36020	20						
		C011	H__36025	25						
A015	B014						V3	45	10 - 2	10 = 35 8 = 40 6-2 = 50
		C017	H__36035	35						
	B021		H__36040	40						
A022										
A028	B027	C022	H__36050	50			V4	63	10 - 2	10 = 35 8 = 40 6-2 = 50
	B034	C027	H__36060	60						
		C032	H__36070	70						
	B040	C041								
A042	B052		H__36080	80			V5	100	8 - 2/0	200
		C052								
	B065		H__36090	90						
A054		C062	H__36100	100						
	B077		H__36110	110						
A068		C077	H__36125	125						
A080	B096		H__36150	150			V6	115	8 - 2/0	200
A104							H__36000S15	150	14 - 3/0	14-10 = 50 8-3/0 = 120
		C099	J__36175	175	4 - 4/0	225	TFB1	200	6 - 300 kcmil	375
		C125	J__36200LY	200			H__36000S15	150	14 - 3/0	14-10 = 50 8-3/0 = 120
	B124						J__36000S17	175	4 - 4/0	225
A130							J__36000S25	250	14 - 10	19
A154					3/0 - 350 kcmil	225	TFB1	200	6 - 300 kcmil	375
	B156	C144					L__36000S15	150	14 - 3/0	14-10 = 50 8-3/0 = 120
A192	B180		L__36400U31X	400	(1-2) x (2/0-500 kcmil)	(1-2) x 442	J__36000S25	250	3/0 - 350 kcmil	225
		C192					L__36000S40X	400	(1-2) x (2/0-500 kcmil)	(1-2) x 442
A248	B240	C242								
	B302									
A312	B361		M__36500	500	(1-3) x (3/0-500 kcmil)	(1-3) x 450	L__36000S60X	600	(1-2) x (2/0-500 kcmil)	(1-2) x 442
A360	B414		M__36600	600			P__36000S60	600	(1-3) x (3/0-500 kcmil)	(1-3) x 450
	B477		M__36700	700						
	B515									
	B590		M__36800	800			P__36000S80	800	(1-3) x (3/0-500 kcmil)	(1-3) x 450
	B660		P__36080CU31A	800						

TABLE 2			A.C. LINE WIRING		
A1000 CONFIG. MODEL NO. BASE NUMBER A1C*XXXX			OR, WITHOUT OPTIONS PC, PE OR PD TO INPUT POWER TERMINAL BLOCK TB2		
240V	480V	600V	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
A002	B001	C1P3	6H12-TSCU-F	16 - 10	35
A003	B002	C1P7		OR	OR
A004	B003	C002		8	40
A006	B004	C003		OR	OR
A009	B007	C006		6 - 4	45
A015	B011	C009			
A022	B014	C011			
A028	B021	C017			
	B027	C022			
	B034	C027			
		C032			
		C041			
A042	B040	C052	1423572	14 - 10	35
A054	B052	C062		OR	OR
A068	B065	C077		8	40
A080	B077			OR	OR
	B096			6 - 2/0	120
A104	B124	C099	MPDB67003	6 - 350 kcmil	275
A130	B156	C125			
A154	B180	C144			
A192					
		C192			
A248	B240	C242	MPDB69123	(1-2) x (6-350 kcmil)	(1-2) x 275
A312	B302				
A360	B361		MPDB69313	(1-2) x (4-500 kcmil)	(1-2) x 500
	B414				
	B477		1453411	(1-2) x (4-600 kcmil)	(1-2) x 500
	B515				
	B590				
	B660				

TABLE 3			BLOWER MOTOR STARTER WIRING		
A1000 CONFIG. MODEL NO. BASE NUMBER A1C*XXXX			WITH OPTION TB, TO OVERLOAD RELAY S10		
240V	480V	600V	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
A002	B515		LRD15	18 - 8	15
A003	B590				
A004	B660				
A006					
A009					
A015					
A022					
A028					
A042					
A054					
A068					
A080					
A104					
A130					
A154					
A192					
A248					
A312					
A360					
	B001	C1P3	LRD06	18 - 8	15
	B002	C1P7			
	B003	C002			
	B004	C003			
	B007	C006			
	B011	C009			
	B014	C011			
	B021	C017			
	B027	C022			
	B034	C027			
	B040	C032			
	B052	C041			
	B065	C052			
	B077	C062			
	B096	C077			
	B124	C099			
	B156	C125			
	B180	C144			
	B240	C192			
	B302	C242			
	B361				
	B414				
	B477				

<b>YASKAWA</b>	DRAWN BY: D. PACKER	DATE: 08/12/13	TITLE: CUSTOMER CONNECTION	
	CHECKED: D.R. CMELAK	DATE: 08/12/13	A1000 CONFIGURED	
	TECH:	DATE:	TYPE 1 ND RATING	
	APPROVED: K. FLIERL	DATE: 08/12/13	SIZE: C	REVISION: 03
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ORIGINAL DESIGN: D. PACKER			DATE: 08/12/13	

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
03	ADDED MOTOR WIRING TO TB3 WITH OPTION PH	7521	KM	02/02/21
02	ADDED "(USE COPPER CONDUCTORS ONLY)" TO CUST. WIRING REQ.	7469	KM	11/10/16

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- 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

A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX	A.C. MOTOR WIRING						EARTH GROUND WIRING					
	WITH OPTION PH, TO LOAD REACTOR L4			OR, WITH OPTION PH, TO TERMINAL BLOCK TB3			OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE		A.C. LINE GROUND LUG		BLOWER MOTOR GROUND LUG	
	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.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
240V	480V	600V										
	B001	C1P3	RLW-01P60	22 - 10	4.5				14-10	35	14-10	35
	B002	C002	RLW-03P40						OR	OR	OR	OR
A002	B003	C003	RLW-04P80						8	40	8	40
A003	B004	C006	RLW-07P60						OR	OR	OR	OR
A004									6-4	45	6-4	45
	B007	C009	RLW-00110						OR	OR	OR	OR
A006	B011	C011	RLW-00140						2	50	2	50
A009	B014	C017	RLW-00210	14 - 6	16							
A015		C022	RLW-00280									
A022												
A028	B021	C027	RLW-00350									
	B027											
	B034	C032	RLW-00460									
A042	B040	C041	RLW-00550	6 - 1/0	45							
		C052	RLW-00650									
A054		C062	RLW-00830									
A068												
A080			RLW-01040									
A104	B052	C077				MPDB67003	6 - 350 kcmil	275				
A130	B065	C099										
A154	B077											
	B096											
	B124											
	B156											
	B180		RLW-02500	2 - 1	150							
				OR	OR							
		C125	RLW-01600	1/0 - 2/0	180				14-2/0	120		
				OR	OR							
		C144	RLW-02000	3/0 - 4/0	250							
A192		C192	RLW-02500	250 - 350 kcmil	325							
A248	B240	C242	RLW-03220									
	B302		RLW-04140	(1-2)	(1-2)							
A312			RLW-04140	x	x							
	B361		RLW-05150	(6-350 kcmil)	(375)							
A360									6-250 kcmil	275		
	B414		RLW-060003									
	B477											
	B515		RLW-075003									
	B590											
	B660		RL-75002									

CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY

TABLE 5

A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX	OPTION PL				CONTROL WIRING	
	TO A1000 DRIVE		OR, TO CDBR A2, A3, A4		TERMINAL BLOCK TB1	
	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
240V	480V	600V				
A002	B001	C1P3			24 - 16	4.4 - 5.3
A003	B002	C1P7				
A004	B003	C002				
A006	B004	C003				
A009	B007	C006				
A015	B011	C009				
A022	B014	C011				
A028	B021	C017				
A042	B027	C022				
A054	B034	C027				
A068	B040	C032				
A080	B052	C041				
A104	B065	C052				
A130						
A154	B077	C062				
A192	B096	C077				
A248	B124	C099				
A312	B156	C125				
A360	B180	C144				
	B240	C192				
	B302	C242				
	B361					
	B414					
	B477					
	B515					
	B590					
	B660					

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	CHECKED: D.R. CMELAK	DATE: 08/12/13	
	TECH:	DATE:	
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	ORIGINAL DESIGN: D. PACKER	DATE: 08/12/13	REVISION: 03
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