

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			TO CIRCUIT BREAKER CB1			
240V	480V	600V	MFG. PART NUMBER	CURRENT RATING (AMPS)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
A002	B001	C1P3	H_L36015SA	15	14 - 10 OR 8 - 3/0	50 OR 120
	B002	C1P7				
A003	B003	C002				
A004	B004	C003				
A006	B007	C006				
A009	B011	C009				
A015	B014	C011	H_L36020SA	20		
			H_L36025SA	25		
			H_L36035SA	35		
A022	B021	C017	H_L36040SA	40		
A028	B027	C022	H_L36050SA	50		
	B034	C027	H_L36060SA	60		
		C032	H_L36050SA	50		
A042	B040	C041	H_L36070SA	70		
	B052		H_L36080SA	80		
		C052				
A054	B065		H_L36090SA	90		
		C062	H_L36100SA	100		
A068	B077		H_L36110SA	110		
A080	B096	C077	H_L36125SA	125		
A104			H_L36150SA	150		
	B124	C099	H_L36175SA	175	4 - 4/0	225
A130		C125	J_L36200SALY	200		
		C144				
A154	B156		J_M36225SA	225	3/0 - 350 kcmil	225
	B180		J_M36250SA	250		
A192			L_L36400U31XSA	400	(1-2) x (2/0-500 kcmil)	(1-2) x 442
		C192				
A248	B240		L_M36400U31XSA	400		
A312	B302				(1-3) x (3/0-500 kcmil)	(1-3) x 450
A360	B361		M_L36500SA	500		
	B414		M_L36600SA	600		
	B477		M_L36700SA	700		
	B515					
	B590		M_L36800SA	800		

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					
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				
	B361				
	B414				
	B477				

YASKAWA					DRAWN BY: K. MALUSIC	DATE 6/5/12	TITLE: CUSTOMER CONNECTION A1000 CONFIGURED TYPE 1 HD RATING WITH OPTION PJ		
					CHECKED: D.R. CMELAK	DATE 6/5/12			
					TECH:	DATE			
REVISIONS					APPROVED: D. DAVIES	DATE 6/5/12	SIZE C	REVISION 03	PAGE 1 of 2
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE	ORIGINAL DESIGN: S. ROBERSON	DATE 2/2/12	DRAWING #: UDE00341		
03	ADDED MOTOR WIRING TO TB3 WITH OPTION PH	7521	KM	02/02/21	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.				
02	ADDED "(USE COPPER CONDUCTORS ONLY)" TO CUST. WIRING REQ.	7469	KM	11/10/16					

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 2			A.C. MOTOR WIRING					EARTH GROUND WIRING			
A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX			WITH OPTION PH, TO LOAD REACTOR L4			OR, WITH OPTION PH, TO TERMINAL BLOCK TB3			GROUND LUG		
240V	480V	600V	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
		C1P3	RLW-01P60	22 - 10	4.5				CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY	14-10	35
	B001	C1P7	RLW-02P10			OR					8
	B002	C002	RLW-03P40					OR		OR	
A002	B003	C003	RLW-04P80					6-4		45	
A003	B004	C006	RLW-07P60					OR		OR	
A004								2		50	
	B007	C009	RLW-00110								
A006	B011	C011	RLW-00140								
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	B052	C077				MPDB67003	6 - 350 kcmil	275			
A104	B065										
A130	B077										
A154	B096										
	B124										
	B156										
		C099	RLW-01300	2 - 1 OR 1/0-2/0 OR 3/0-4/0	150 OR 180 OR 250					14-2/0	120
		C125	RLW-01600								
		C144	RLW-02000								
	B180		RLW-02500								
A192		C192	RLW-02500	250 - 350 OR 400 - 500 kcmil	325 OR 375						
	B240		RLW-03220								
	B302		RLW-04140	(1-2) x (6-350 kcmil)	(1-2) x (375)						
A248			RLW-03220								
A312			RLW-04140								
	B361		RLW-05150								
A360											
	B414		RLW-06000	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR							
	B477		RLW-07500								
	B515										
	B590										

TABLE 3			OPTION PJ				CONTROL WIRING	
A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX			TO A1000 DRIVE		OR, TO CDBR A2, A3, A4		TERMINAL BLOCK TB1	
240V	480V	600V	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
A002	B001	C1P3	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY				24 - 14	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	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY					
A080	B052	C041						
A104								
A130	B065	C052						
A154	B077	C062						
A192	B096	C077						
A248	B124	C099						
A312	B156	C125						
A360	B180	C144						
	B240	C192						
	B302							
	B361							
	B414							
	B477							
	B515							
	B590							

YASKAWA	DRAWN BY:	K. MALUSIC	DATE:	6/5/12	TITLE: CUSTOMER CONNECTION A1000 CONFIGURED TYPE 1 HD RATING WITH OPTION PJ
	CHECKED:	D.R. CMELAK	DATE:	6/5/12	
	TECH:		DATE:		
	APPROVED:	G. DAVIES	DATE:	6/5/12	
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.	ORIGINAL DESIGN:	S. ROBERSON	DATE:	2/2/12	DRAWING #:
					UDE00341
					SIZE: C REVISION: 03 PAGE: 2 of 2