


CUSTOMER WIRING REQUIREMENTS

- FOR 0 TO 100 AMPS, USE A MINIMUM OF 60°-75°C COPPER WIRE.
- FOR ABOVE 100 AMPS, USE A MINIMUM OF 75°C COPPER WIRE.
(UNLESS SPECIFIED OTHERWISE)

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_L36015	15	14 - 10	50	BTCN30	30	14 - 10	35
	B002	C1P7								
A003	B003	C002			OR	OR			OR	OR
A004	B004	C003								
A006	B007	C006			8 - 3/0	120			8 - 4	40
A009	B011	C009	H_L36020	20						
A015	B014	C011	H_L36025	25					OR	OR
		C017	H_L36035	35					3, 2	45
A022	B021		H_L36040	40						
A028	B027	C022	H_L36050	50			BTDN60	60		
	B034	C027	H_L36060	60						
		C032	H_L36050	50						
A042	B040	C041	H_L36070	70						
	B052		H_L36080	80						
		C052								
A054	B065		H_L36090	90					10	35
		C062	H_L36100	100					OR	OR
A068	B077		H_L36110	110					8 - 4	40
A080		C077	H_L36125	125					OR	OR
	B096		H_L36125	125					3 - 1/0	45
A104			H_L36150	150						
	B124	C099	J_L36175	175	4 - 4/0	225				
A130		C125	J_L36200LY	200						
		C144								
A154	B156		J_M36225	225	3/0 - 350 kcmil	225				
	B180		J_M36250	250						
A192			L_L36400U31X	400	(1-2) x (2/0-500 kcmil)	(1-2) x 442	JGM36000S25	250	3/0 - 350 kcmil	225
		C192					LGL36000S40X	400	(1-2) x (2/0-500 kcmil)	(1-2) x 442
A248	B240		L_M36400U31X	400			LGM36000S40X	400	(1-2) x (2/0-500 kcmil)	(1-2) x 442
A312	B302									
A360	B361		M_L36500	500	(1-3) x (3/0-500 kcmil)	(1-3) x 450	LGL36000S40X	400	(1-2) x (2/0-500 kcmil)	(1-2) x 442

TABLE 2			A.C. LINE WIRING			
A1000 CONFIG. MODEL NO. BASE NUMBER A1C*XXXX			OR, WITHOUT OPTIONS PC, PD OR PE 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		MPDB69123	(1-2) x (6-350 kcmil)	(1-2) x 275	
A312	B302					
A360	B361					

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
01	ADDED NEW STYLE MERSEN #'s & RANGES	4734	NSL	11/18/13
00	INITIAL RELEASE	-	DRC	8/16/12

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	CHECKED BY: D. PACKER	DATE: 8/16/12		
	TECH.:	DATE:	SIZE: C	REVISION: 01
	APPROVED BY: K. FLIERL	DATE: 8/16/12	DRAWING #: UDE00345	PAGE: 1 of 2
ORIGINAL DESIGN: D.R. CMELAK	DATE: 8/16/12			

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(UNLESS SPECIFIED OTHERWISE)

TABLE 4			A.C. MOTOR WIRING			
A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX			WITH OPTION PH, TO LOAD REACTOR L4			OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE
			MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	
240V	480V	600V				
		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
	B001	C1P7	RLW-02P10_			
	B002	C002	RLW-03P40_			
A002	B003	C003	RLW-04P80_			
A003	B004	C006	RLW-07P60_			
A004						
	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 - 4	45	
	B052	C052	RLW-00650_	OR	OR	
A054	B065	C062	RLW-00830_	2 - 1/0	50	
A068						
A080	B077	C077	RLW-01040_			
A104	B096	C099	RLW-01300_	2 - 1	150	
A130	B124	C125	RLW-01600_	OR	OR	
A154	B156	C144	RLW-02000_	1/0 - 2/0	180	
				OR	OR	
				3/0 - 4/0	250	
A192	B180	C192	RLW-02500_	3/0 - 4/0	250	
A248	B240		RLW-03220_	OR	OR	
				250 - 350 kcmil	325	
				OR	OR	
				400 - 500 kcmil	375	
A312	B302		RLW-04140_	(1-2) x (6-350 kcmil)	(1-2) x 375	
A360	B361		RLW-05150_			

TABLE 5			EARTH GROUND WIRING		NEUTRAL		CONTROL WIRING	
A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX			GROUND LUGS		TERMINAL BLOCK TBN1		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	14-10	35	16-10	35	24 - 16	4.4 - 5.3
A003	B002	C1P7	OR	OR	OR	OR		
A004	B003	C002	8	40	8	40		
A006	B004	C003	OR	OR	OR	OR		
A009	B007	C006	6-4	45	6-4	45		
A015	B011	C009	OR	OR				
A022	B014	C011	2-1/0	50				
A028	B021	C017						
A042	B027							
A054	B034	C022	14-2/0	120	14-10	35		
A068	B040	C027			OR	OR		
A080	B052	C032			8	40		
A104	B065	C041			OR	OR		
A130	B077	C052			6-2/0	120		
A154	B096	C062						
	B124	C077						
	B156							
A192	B180	C099	6-250 kcmil	275	6-350 kcmil	275		
A248	B240	C125						
A312	B302	C144						
A360	B361	C192						

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