


**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			
IQPUMP1000 CONFIG. MODEL NO. BASE NUMBER Q1C*XXXX	TO CIRCUIT BREAKER CB1			TO DRIVE A1	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY
	MFR. PART NUMBER	CURRENT RATING (AMPS)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	
480V					
B034	H_L36060	60	14 - 10	50	
B040	H_L36070	70			
B052	H_L36080	80	OR	OR	
B065	H_L36090	90			
B077	H_L36110	110	8 - 3/0	120	
B096	H_L36150	150			
B124	J_L36200LY	200	4 - 4/0	225	
B156	J_L36250	250	3/0 - 350 kcmil	225	
B180	L_L36400U31X	400	(1-2) x (2/0-500 kcmil)	(1-2) x 442	
B240	L_L36400U31X	400			
B302					
B361	M_L36500	500	(1-3) x (3/0-500 kcmil)	(1-3) x 450	
B414	M_L36600	600			

TABLE 2		A.C. LINE WIRING				
IQPUMP1000 CONFIG. MODEL NO. BASE NUMBER Q1C*XXXX	TO HARMONIC FILTER			CURRENT RATING (AMPS)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
	MFR.	FILTER MFR. PART NUMBER				
480V						
B034	ARTECHE	LPF 0048 KS	65KASCCR LG	48	14 - 2/0	120
B040						
B052	ARTECHE	LPF 0061 KS	65KASCCR LG	61	6 - 250 kcmil	275
B065	ARTECHE	LPF 0071 KS	65KASCCR LG	71		
B077	ARTECHE	LPF 0084 KS	65KASCCR LG	84		
B096	ARTECHE	LPF 0102 KS	65KASCCR LG	102		
B124	ARTECHE	LPF 0138 KS	65KASCCR LG	138	6 - 350 kcmil	375
B156	ARTECHE	LPF 0175 KS	65KASCCR LG	175		
B180	ARTECHE	LPF 0210 KS	65KASCCR LG	210	4 - 600 kcmil	500
B240	ARTECHE	LPF 0286 KS	65KASCCR LG	286		
B302	ARTECHE	LPF 0334 KS	65KASCCR LG	334	(1-2) x (6-350 kcmil)	(1-2) x 275
B361	ARTECHE	LPF 0406 KS	65KASCCR LG	406	(1-4) x (6-250 kcmil)	(1-4) x 275
B414	ARTECHE	LPF 0477 KS	65KASCCR LG	477	(1-4) x (6-350 kcmil)	(1-4) x 275

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
00	INITIAL RELEASE	-	NSL	10/07/13

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	CHECKED: D.R. CMELAK	DATE 10/07/13	SIZE C
	TECH:	DATE	REVISION 00
	APPROVED: K. FLIERL	DATE 10/07/13	PAGE 1 of 2
ORIGINAL DESIGN: N. LAWS	DATE 10/07/13	DRAWING #: UDE00434	


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**TABLE 3 A.C. MOTOR WIRING**

IQPUMP1000 CONFIG. MODEL NO. BASE NUMBER Q1C * XXXX 480V	WITH OPTIONS PH OR PK, TO LOAD REACTOR L4			OR, WITHOUT OPTIONS PH OR PK, TO STANDARD AC DRIVE
	MFR. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	
B034	RLW-00460_	14 - 6	16	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY
B040	RLW-00550_	6 - 4	45	
B052	RLW-00650_	OR	OR	
B065	RLW-00830_	2 - 1/0	50	
B077	RLW-01040_			
B096	RLW-01300_	2 - 1	150	
B124	RLW-01600_	OR	OR	
B156	RLW-02000_	1/0 - 2/0	180	
		OR	OR	
		3/0 - 4/0	250	
B180	RLW-02500_	3/0 - 4/0	250	
B240	RLW-03220_	OR	OR	
		250 - 350 kcmil	325	
		OR	OR	
		400 - 500 kcmil	375	
B302	RLW-04140_	(1-2) x (6-350 kcmil)	(1-2) x (375)	
B361	RLW-05150_			
B414	RLW-06000_	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR		

**TABLE 4 EARTH GROUND WIRING NEUTRAL CONTROL WIRING**

IQPUMP1000 CONFIG. MODEL NO. BASE NUMBER Q1C * XXXX 480V	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.)
B034	14-2/0	120	14-10	35	24 - 16	4.4 - 5.3
B040			OR	OR		
B052			8	40		
B065			OR	OR		
B077			6-2/0	120		
B096						
B124						
B156						
B180	6-250 kcmil	275	6-350 kcmil	275		
B240						
B302						
B361						
B414						

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