

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				CONTROL WIRING											
IQPUMP605 CONFIGURED MODEL NO. BASE NUMBER Q6C1XXXX			WITH OPTION PC, PE CIRCUIT BREAKER CB1				A1 TERMINAL BLOCKS TB1,TB3-TB7		A1 TERMINAL BLOCK TB2 (FE)		PANEL TERMINAL BLOCK TB1,TB4							
208V	240V	480V	MFG. PART NUMBER	CURRENT RATING (AMPS)	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.)						
D004	A004	B002	H_ _36015	15	14 - 10 OR 8 - 3/0	50 OR 120	24 - 16	4.4 - 5.3	24 - 18	8.9 - 10.7	26 - 10	5.3 - 7.1						
D007	A006	B003																
D010	A009	B004																
		B007																
		B011																
D016	A015	B014	H_ _36020	20														
	A022	B021	H_ _36025	25														
D024		B027	H_ _36030	30														
	A028		H_ _36035	35														
D030		B034	H_ _36040	40														
	A042	B040	H_ _36050	50														
D046		B052	H_ _36060	60														
D059	A054		H_ _36070	70														
	A068	B065	H_ _36080	80														
D074	A080	B077	H_ _36090	90														
D088			H_ _36100	100														
		B096	H_ _36110	110														
	A104		H_ _36125	125														
D114	A130	B124	H_ _36150	150	4 - 4/0	225												
D143		B156	J_ _36175	175														
D169	A154		J_ _36200LY	200														
		B180	J_ _36225	225	3/0 - 350 kcmil													
	A192		J_ _36250	250														
D211	A248	B240	L_ _36400U31X	400									(1-2) x (2/0 - 500 kcmil)	(1-2) x 442				
D273	A312	B302																
D343	A360	B361	L_ _36600U31X	600														
D396		B414			(1-3) x (3/0 - 500 kcmil)	(1-3) x 450												
		B477	P_ _36060-PDC	600														
		B515	P_ _36080-PDC	800														
		B590			(1-4) x (3/0 - 500 kcmil)	(1-4) x 450												
		B720	P_ _36100U44A	1000														

TABLE 2			A.C. MOTOR WIRING																			
IQPUMP605 CONFIGURED MODEL NO. BASE NUMBER Q6C1XXXX			WITH OPTION PH, LOAD REACTOR L4			WITH OPTION P8 TERMINAL BLOCK TB3			OR, WITHOUT OPTION PH OR P8 TO A1 DRIVE TERMINALS (T1,T2,T3)		OR, WITHOUT OPTION PH OR P8 TO A1 DRIVE TERMINAL (GROUND)											
208V	240V	480V	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.)										
		B002	RLW-03P40_	22 - 10	4.5	NDN111A-WH-P	14 - 2	32		CUSTOMER TO WIRE PER THE AC DRIVE TECHNICAL MANUAL. USE 75 °C COPPER WIRE ONLY	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75 °C COPPER WIRE ONLY											
		B003	RLW-04P80_																			
	A004	B004	RLW-07P60_																			
D004		B007	RLW-00110_																			
D007																						
D010	A006	B011	RLW-00140_	14 - 6	16								MPDB63153	14 - 8 OR 6 - 2/0	50 OR 120		CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75 °C COPPER WIRE ONLY					
D016	A009	B014	RLW-00210_																			
	A015		RLW-00280_																			
	A022																					
D024	A028	B021	RLW-00350_																			
		B027		6 - 4 OR 2 - 1/0	45 OR 50													MPDB67003	6 - 350	275		
D030		B034	RLW-00460_																			
	A042	B040	RLW-00550_																			
D046		B052	RLW-00650_																			
D059	A054	B065	RLW-00830_																			
D074	A080	B077	RLW-01040_	2 OR 1/0 - 2/0 OR 4/0	150 OR 180 OR 250	MPDB63153	14 - 8 OR 6 - 2/0	50 OR 120														
D088	A068	B096	RLW-01300_																			
	A104																					
		B124	RL-13002																			
D114			RLW-01600_																			
D143	A130	B156	RLW-02000_	CUSTOMER TO CONNECT TO OPTION P8, TERMINAL BLOCK (TB3). USE THE CORRESPONDING TB3 WIRE RANGE AND TORQUE VALUES TO MAKE THE CUSTOMER CONNECTION.									MPDB67003	6 - 350 kcmil	275							
	A154																					
D169		B180	RLW-02500_																			
	A192																					
D211	A248	B240	RLW-03220																			
D273			RLW-04140_	(1-2) x (6 - 350 kcmil)	(1-2) x 375						16500-3	(1-2) x (6 - 350 kcmil)						(1-2) x 275				
	A312	B302																				
D343	A360	B361	RLW-05150_																			
D396																						
		B414	RLW-06000_																		CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR	
		B477																				
		B515	RLW-07500_																			
		B590																				
		B720	RL-75002																			
						PDB-55-500-1	(1-5) x (3/0 - 500 kcmil)	(1-5) x 450														

TABLE 3			EARTH GROUND WIRING			
IQPUMP605 CONFIGURED MODEL NO. BASE NUMBER Q6C1XXXX			INPUT GROUND LUG		MOTOR CONNECTION GROUND WITH OPTION PH OR P8	
208V	240V	480V	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
D004	A004	B002	14 - 10 OR 8 OR 6 - 4 OR 2	35 OR 40 OR 45 OR 50	14 - 10 OR 8 OR 6 - 4 OR 2	35 OR 40 OR 45 OR 50
D007	A006	B003				
D010	A009	B004				
D016	A015	B007				
D024	A022	B011				
D030	A028	B014				
D046	A042	B021				
D059	A054	B027				
D074	A068	B034				
D088	A080	B040				
D114	A104	B052				
	A130	B065	14 - 2/0	120	14 - 2/0	120
		B077				
		B096				
		B124				
D143	A154	B156				
D169	A192	B180				
D211	A248	B240				
D273	A312	B302				
D343	A360	B361				
D396		B414				
		B477	6 - 250	275	6 - 250	275
		B515				
		B590				
		B720				

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						CHECKED: E. ACKERMAN		DATE: 10/8/25				
						TECH:		DATE:				
						APPROVED: R. JENSEN		DATE: 10/8/25		SIZE: C	REVISION: 00	PAGE: 1 of 1
						ORIGINAL DESIGN: K. PEOPLES		DATE: 10/8/25		DRAWING #: UDE00809		
REVISIONS												
REV.	DESCRIPTION				ECO #	DRAWN BY		DATE				
00	INITIAL RELEASE				-	KAP		10/8/25				