

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			
IQPUMP605 BYPASS MODEL NO. BASE NUMBER Q6B1XXXX			WITH OPTION PC OR PE TO CIRCUIT BREAKER CB1			
208V	240V	480V	MFG. PART NUMBER	CURRENT RATING (AMPS)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
D004	A004	B002	H_36015	15	14 - 10 OR 8 - 3/0	50 OR 120
		B003				
		B004				
D007	A006	B007	H_36020	20		
D010	A009	B011	H_36025	25		
	A015	B014	H_36035	35		
D016			H_36040	40		
	A022	B021	H_36050	50		
D024		B027	H_36060	60		
D030	A028	B034	H_36070	70		
		B040	H_36080	80		
	A042		H_36100	100		
D046		B052	H_36110	110		
D059	A054		H_36125	125		
D074	A068	B065	H_36150	150		
	A080		H_36150M74			
D088	A104	B077	H_36150			
D114		B096				
D143			J_36250M75	250	4 - 4/0	225
D169	A130	B124	J_36250		3/0 - 350 kcmil	
	A154	B156				
D211	A192	B180	L_36400U31X	400	(1 - 2) x (2/0-500 kcmil)	(1 - 2) x 442
D273	A248	B240	L_36600U31X	600		
		B302				

TABLE 2			A.C. MOTOR WIRING		
IQPUMP605 BYPASS MODEL NO. BASE NUMBER Q6B1XXXX			MOTOR CONNECTION OVERLOAD RELAY S10		
208V	240V	480V	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
		B002	LRD07	18 - 10	15
		B003	LRD08L		
D004	A004	B004	LRD10L		
D007	A006	B007	LRD12L		
D010	A009	B011	LRD16L		
D016	A015	B014	LRD21L		
	A022	B021	LRD22L	18 - 8	22
D024	A028	B027	LRD32L		
D030					
		B034	LRD340L	16 - 2	70
D046	A042	B040	LRD350L		
D059	A054	B052	LRD365L		
D074	A068	B065	LR2D3563	10 - 1/0	100
		B077			
D088	A080	B096	LR9G115	6 - 3/0	200
D114	A104				
D143	A130	B124	LR9G225	6 - 300	275
D169	A154	B156			
D211	A192	B180			
D273	A248	B240	LR9G500	(2) 2 - 600	500
		B302			

TABLE 3			EARTH GROUND WIRING				CONTROL WIRING					
IQPUMP605 BYPASS MODEL NO. BASE NUMBER Q6B1XXXX			INPUT GROUND LUG		MOTOR CONNECTION GROUND LUG		A1 DRIVE TERMINAL BLOCKS TB1, TB3-TB6		A1 DRIVE TERMINAL BLOCK TB2 (FE)		DIN RAIL MOUNTED TERMINAL BLOCK TB1	
208V	240V	480V	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.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
D004	A004	B002	14 - 10	35	14 - 10	35	24 - 16	4.4 - 5.3	24 - 18	8.9 - 10.7	26 - 10	5.3 - 7.1
D007	A006	B003	OR	OR	OR	OR						
D010	A009	B004	8	40	8	40						
D016	A015	B007	OR	OR	OR	OR						
D024	A022	B011	6 - 4	45	6 - 4	45						
D030	A028	B014	OR	OR	OR	OR						
D046	A042	B021	2	50	2	50						
D059	A054	B027										
		B034										
		B040										
		B052										
		B065										
D074	A068	B077										
D088	A080	B096										
D114	A104											
D143	A130	B124										
D169	A154	B156										
D211	A192	B180	14 - 2/0	120	14 - 2/0	120						
D273	A248	B240										
		B302										

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
00	INITIAL RELEASE	--	KAP	06/09/26

YASKAWA	DRAWN BY: K. PEOPLES	DATE: 06/09/26	TITLE: CUSTOMER CONNECTION IQPUMP605 BYPASS TYPE 1 RATING		
	CHECKED: K. MALUSIC	DATE: 06/10/26			
	TECH:	DATE:			
	APPROVED: R. JENSEN	DATE: 06/11/26	SIZE: C	REVISION: 00	PAGE: 1 of 1
	ORIGINAL DESIGN: K. PEOPLES	DATE: 06/09/26	DRAWING #: UDE00813		