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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					
iQPUMP1000 CONFIG. MODEL NO. BASE NUMBER Q1C* XXXX			WITH OPTION PC OR PE, TO CIRCUIT BREAKER CB1				OR, WITH OPTION PD, TO DISCONNECT SWITCH S1				TERMINAL BLOCK TB1	
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.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
A002	B001	C1P3	H_36015	15	14 - 10	50	V0	20	14 - 8	20	24 - 16	4.4 - 5.3
A003	B002	C1P7			OR	OR						
A004	B003	C002			8 - 3/0	120						
A006	B004	C003										
A009	B007	C006										
A015	B011	C009	H_36020	20			V3	45	10 - 8 - 2	10 = 35 8 = 40 2 = 50		
A022	B014	C011	H_36025	25								
A028	B021	C017	H_36035	35								
	B027	C022	H_36040	40								
	B034	C027	H_36050	50								
	B040	C032	H_36060	60								
	B042	C041	H_36070	70								
A042	B052	C052	H_36080	80								
A054	B065	C062	H_36090	90								
	B077	C077	H_36100	100								
A068	B080	C099	H_36110	110								
A104	B096	C125	H_36125	125								
	B124	C125	H_36150	150								
A130	B156	C144	J_36175	175	4 - 4/0	225	H_36000S15	150	14 - 3/0	14-10 = 50 8-3/0 = 120		
A154	B180	C192	J_36200LY	200								
	B240	C242	J_36225	225	3/0 - 350 kcmil	225	J_36000S17	175	4 - 4/0	225		
A192	B302	C242	J_36250	250			J_36000S25	250	3/0 - 350 kcmil	225		
A248	B361	C242	L_36400U31X	400	(1-2) x (2/0-500 kcmil)	(1-2) x 442	L_36000S40X	400	(1-2) x (2/0-500 kcmil)	(1-2) x 442		
A312	B361	C242	M_36500	500	(1-3) x (3/0-500 kcmil)	(1-3) x 450	L_36000S60X	600	(1-2) x (2/0-500 kcmil)	(1-2) x 442		
A360	B414	C242	M_36600	600			P_36000S60	600	(1-3) x (3/0-500 kcmil)	(1-3) x 450		
	B477	C242	M_36700	700			P_36000S80	800	(1-3) x (3/0-500 kcmil)	(1-3) x 450		
	B515	C242	M_36800	800								
	B590	C242	P_L36080CU31A	800								
	B660	C242										

◆ = 10 AWG SOLID CONDUCTOR

TABLE 2			A.C. LINE WIRING		
iQPUMP1000 CONFIG. MODEL NO. BASE NUMBER Q1C* XXXX			OR, WITHOUT OPTIONS PC, PE OR PD 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			
	B040	C032			
	B042	C041			
A042	B052	C052	1423572	14 - 10	35
A054	B065	C062		OR	OR
A068	B080	C077		8	40
A080	B096	C099		OR	OR
A104	B124	C125	MPDB67003	6 - 2/0	120
A130	B156	C144		6 - 350 kcmil	275
A154	B180	C192			
A192	B302	C242			
A248	B361	C242	MPDB69123	(1-2) x (6-350 kcmil)	(1-2) x 275
A312	B361	C242			
A360	B414	C242			
	B477	C242	MPDB69313	(1-2) x (4-500 kcmil)	(1-2) x 500
	B515	C242			
	B590	C242	1453411	(1-2) x (4-600 kcmil)	(1-2) x 500
	B660	C242			

TABLE 3			A.C. MOTOR WIRING				EARTH GROUND WIRING			
iQPUMP1000 CONFIG. MODEL NO. BASE NUMBER Q1C* XXXX			WITH OPTION PH, TO LOAD REACTOR L4		OR, WITH OPTION PH, TO TERMINAL BLOCK TB3		OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE		A.C. LINE 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.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
	B001	C1P3	RLW-01P60						14-10	35
	B002	C1P7	RLW-02P10						OR	OR
	B003	C002	RLW-03P40						8	40
A002	B004	C003	RLW-04P80	22 - 10	4.5				OR	OR
A003	B004	C006	RLW-07P60						6-4	45
A004	B007	C009	RLW-00110						OR	OR
A006	B011	C011	RLW-00140						2	50
A009	B014	C017	RLW-00210							
A015	B021	C017	RLW-00280							
A022	B027	C022	RLW-00350	14 - 6	16					
A028	B034	C027	RLW-00460							
	B040	C032	RLW-00550							
A042	B040	C041	RLW-00650	6 - 4	45					
A054	B065	C062	RLW-00830	OR	OR					
A068	B080	C077	RLW-01040	2 - 1/0	50					
A104	B096	C099								
A130	B124	C125				MPDB67003	6 - 350 kcmil	275		
A154	B156	C144								
	B180	C192	RLW-01600	2 - 1, OR	150				14-2/0	120
	B240	C242	RLW-02000	1/0 - 2/0, OR	OR 180					
A192	B302	C242	RLW-02500	3/0 - 4/0	OR 250					
A248	B361	C242	RLW-03220	250 - 350 kcmil	325					
A312	B361	C242	RLW-04140	(1-2)x(6-350 kcmil)	(1-2)x(375)					
A360	B414	C242	RLW-05150							
	B477	C242	RLW-060003							
	B515	C242	RLW-075003						6-250 kcmil	275
	B590	C242	RL-75002							
	B660	C242								

CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY

YASKAWA

DRAWN BY: D. PACKER
CHECKED: D.R. CMELAK
TECH: K. FLIERL
APPROVED: D. PACKER

DATE: 10/4/13
DATE: 10/4/13
DATE: 10/4/13
DATE: 10/4/13

TITLE: CUSTOMER CONNECTION
iQPUMP1000 CONFIGURED
TYPE 1

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REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
04	ADDED MOTOR WIRING TO TB3 WITH OPTION PH	7521	KM	02/02/21
03	ADDED "(USE COPPER CONDUCTORS ONLY)" TO CUST. WIRING REQ.	7469	KM	11/10/16

SIZE: C

REVISION: 04

DRAWING #: UDE00437

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