


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									
Q1E3 CONFIGURED MODEL NO. BASE NUMBER Q1E3XXXX		WITH OPTION PC CIRCUIT BREAKER CB1				STANDARD NON-FUSED INPUT DISCONNECT SWITCH S1					
240V	480V	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.)		
	B011	H__36020	20	14 - 10 OR 8 - 3/0	50 OR 120	OT30F3	30	14 - 4	55		
	B014	H__36025	25								
	B021	H__36035	35								
		H__36040	40			OT60F3	60	14 - 4	55		
	B027	H__36045	45								
A028	B034	H__36050	50								
	B040	H__36060	60								
A042		H__36070	70			OT100F3	100			8 - 1/0	55
	B052	H__36080	80								
A054	B065	H__36090	90								
	B077	H__36100	100			H__36000S15	150	14 - 10 OR 8 - 3/0	50 OR 120		
A068		H__36110	110								
A081		H__36125	125			J__36000S25	250	3/0 - 350 kcmil	225		
	B096	H__36150	150								
A104	B124	H__36150	150								
A130		J__36200①	200			L__36000S40X	400			(1-2) x (2/0 - 500 kcmil)	(1-2) x 442
	B156	J__36225	225								
A154	B180	J__36225	225								
A192		M__36300	300	L__36000S60X	600						
A248		M__36350	350			600					
	B240	M__36350	350								
	B302	M__36400	400								
	B361	M__36500	500								
	B414	M__36600	600								
	B477	M__36700	700	L__36000S80	800			(1-3) x (3/0 - 500 kcmil)	(1-3) x 450		
	B515	M__36800	800								
	B590	M__36800	800								

TABLE 2		A.C. MOTOR WIRING						REMOTE EQUIPMENT WIRING		
Q1E3 CONFIGURED MODEL NO. BASE NUMBER Q1E3XXXX		WITHOUT OPTION PK OR P8 TO STANDARD AC DRIVE	WITH OPTION PK AND WITHOUT OPTION P8 LOAD REACTOR L4			WITH OPTION P8 MOTOR TERMINAL BLOCK TB3			WITH OPTION SF PANEL MOUNTED FUSE BLOCK FOR REMOTE 115V RECEPTACLE	
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.)	
	B011	RLW-00140_	22 - 10	4.5	LFS13003Z	14 - 2	40 - 50	22 - 10	25	
	B014	RLW-00210_	14 - 6	16						
	B021	RLW-00280_								
A028	B027	RLW-00350_								
	B034	RLW-00460_								
A042	B040	RLW-00550_	6 - 4	45						
	B052	RLW-00650_	OR	OR						
A054		RLW-00830_	2 - 1/0	50	1323572	14 - 10, 8, OR 6 - 2/0	35, 40, OR 120			
	B065	RLW-01040_								
A068		RLW-01300_								
A081	B077	RLW-01600_	2, 1, 1/0, 2/0, OR 3/0, 4/0	150, 180, OR 250	MPDB67003	6 - 350 kcmil	275			
A104	B096	RLW-02000_								
A130	B124	RLW-02500_	3/0, 4/0, (250-350) kcmil, OR (400-500) kcmil	250, 325, OR 375	1453129	(1-2) x (4 - 350 kcmil)	(1-2) x 275			
A154	B156	RLW-03220_	(1-2) x (6 - 350 kcmil)	(1-2) x 375						
A192	B180	RLW-04140_								
	B240	RLW-04140_								
A248		RLW-05150_								
	B302	RLW-06000_			MPDB69093	(1-2) x (4 - 500 kcmil)	(1-2) x 500			
	B361	RLW-07500_			MPDB69313					
	B414		CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR		MPDB69543	(1-2) x (2 - 600 kcmil)	(1-2) x 600			
	B477									
	B515									
	B590									

① = STANDARD CIRCUIT BREAKER LUGS REPLACED WITH AL175JD (175A) LINE SIDE LUGS


				DRAWN BY: A. MEILAHN CHECKED: N. LAWS TECH: DATE: APPROVED: K. FLIERL ORIGINAL DESIGN: A. MEILAHN	DATE: 2/23/17 DATE: 2/27/17 DATE: 3/6/17 DATE: 2/23/17	TITLE: CUSTOMER CONNECTION Q1E3 CONFIGURED TYPE 3R REVISION: 04 DRAWING #: UDE00539
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REVISIONS						
REV.	DESCRIPTION	ECO#	DRAWNBY	DATE		
04	UPDATE TB3 PN ON DRAWING	14183	JZ	11/08/24		
03	ADDED BUBBLE NOTE 1 TO CLARIFY LUG CHANGE	13735	RJJ	03/25/24		
02	CHANGED B240 - B414 TO M FRAME CB	8633	R.ROH	04/04/18		

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TABLE 3		EARTH GROUND WIRING		NEUTRAL		CONTROL WIRING			
Q1E3 CONFIGURED MODEL NO. BASE NUMBER Q1E3XXXX		GROUND LUG		PANEL MOUNTED TERMINAL BLOCK TBN1		A1 TERMINAL BLOCKS TB1-TB4		PANEL MOUNTED TERMINAL BLOCK TB1	
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.)
	B011	14 - 2/0	120	14 - 10,	35,	24 - 16	4.4 - 5.3	26 - 10	5.3 - 7.1
	B014								
	B021								
A028	B027								
A042	B034								
	B040								
A054	B052								
A068	B065								
A081	B077								
A104	B096								
A130	B124*								
A154	B156								
A192	B180								
A248	B240								
	B302								
	B361								
	B414								
	B477								
	B515								
	B590								

- * WITH OPTIONS P4 AND PK, GROUND LUG WIRE SIZE RANGE (AWG) IS 6 - 250 kcmil WITH TIGHTENING TORQUE 275 (LB.-IN).
- * WITH OPTIONS P4 AND PK, PANEL MOUNTED TEMRINAL BLOCK TBN1 WIRE SIZE RANGE (AWG) IS 6 - 350 kcmil WITH TIGHTENING TORQUE 275 (LB.-IN).

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	CHECKED: N. LAWS	DATE: 2/27/17			
	TECH:	DATE:			
	APPROVED: K. FLIERL	DATE: 3/6/17	SIZE: C	REVISION: 04	PAGE: 2 of 2
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