

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													
U1E3 CONFIGURED MODEL NO. BASE NUMBER U1E3XXXX		WITH OPTION PC CIRCUIT BREAKER CB1				STANDARD NON-FUSED INPUT DISCONNECT SWITCH S1									
240V	480V	MFG. PART NUMBER	CURRENT RATING (AMPS)	WIRE SIZE (AWG)	RANGE	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			OT60F3	60	14 - 4	55						
	B021	H_ _36035	35												
		H_ _36040	40												
	B027	H_ _36045	45												
A028	B034	H_ _36050	50			OT100F3	100	8 - 1/0	55						
	B040	H_ _36060	60												
A042		H_ _36070	70												
	B052	H_ _36080	80												
A054	B065														
	B077		H_ _36100			100	H_ _36000S15	150	14 - 10 OR 8 - 3/0	50 OR 120					
A068		H_ _36110	110												
A081		H_ _36125	125												
	B096	H_ _36150	150												
A104	B124														
A130															
	B156		J_ _36000S25			250	3/0 - 350 kcmil	225							
A154	B180	J_ _36225		225	4 - 4/0				225						
A192		M_ _36300		300	(1-3) x (3/0 - 500 kcmil)				(1-3) x 450						
A248		M_ _36350		350	(1-3) x (3/0 - 500 kcmil)				(1-3) x 450	L_ _36000S40X	400	(1-2) x (2/0 - 500 kcmil)	(1-2) x 442		
	B240														
	B302														
	B361														
	B414		M_ _36600			600	L_ _36000S60X	600							
	B477	M_ _36700	700	(1-3) x (3/0 - 500 kcmil)		(1-3) x 450									
	B515														
	B590	M_ _36800	800							P_ _36000S80	800			(1-3) x (3/0 - 500 kcmil)	(1-3) x 450

TABLE 2		A.C. MOTOR WIRING									
U1E3 CONFIGURED MODEL NO. BASE NUMBER U1E3XXXX		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					
240V	480V		MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)			
	B011	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75 C COPPER WIRE ONLY	RLW-00140_	22 - 10	4.5	LFS13003Z	14 - 2	40 - 50			
	B014		RLW-00210_	14 - 6	16						
	B021		RLW-00280_								
A028	B027		RLW-00350_								
	B034		RLW-00460_	6 - 4	45						
A042	B040		RLW-00550_								
	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										
A068			RLW-01040_	2, 1, 1/0, 2/0, OR 3/0, 4/0	150, 180, OR 250				MPDB67003	6 - 350 kcmil	275
A081	B077		RLW-01300_								
A104	B096		RLW-01600_								
	B124		RLW-02000_								
A130				RLW-02500_	250, 325, OR 375	1453129	(1-2) x (4 - 350 kcmil)	(1-2) x 275			
A154	B156		RLW-03220_								
A192	B180			3/0, 4/0, (250-350) kcmil, OR (400-500) kcmil	250, 325, OR 375				(1-2) x (4 - 350 kcmil)	(1-2) x 275	
	B240		RLW-03220_								
A248			RLW-03220_								(1-2) x (6 - 350 kcmil)
	B302		RLW-04140_								
	B361		RLW-05150_								
	B414		RLW-06000_	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR			MPDB69093	(1-2) x (4 - 500 kcmil)	(1-2) x 500		
	B477						MPDB69313				
	B515		RLW-07500_								
	B590		MPDB69543				(1-2) x (2 - 600 kcmil)	(1-2) x 600			

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DATE:
10/22/20

DATE:
10/23/20

DATE:

DATE:
10/26/20

DATE:
10/22/20

TITLE:
CUSTOMER CONNECTION
U1E3 CONFIGURED
TYPE 3R

SIZE:
C

REVISION:
01

PAGE:
1 of 2

DRAWING #:
UDE00679

REVISIONS

REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
01	UPDATE TB3 PN ON DRAWING	14183	JZ	11/07/24
00	INITIAL RELEASE	-	NSL	10/26/20

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 3		EARTH GROUND WIRING		NEUTRAL		CONTROL WIRING			
U1E3 CONFIGURED MODEL NO. BASE NUMBER U1E3XXXX		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	6 - 250 kcmil	275	6 - 350 kcmil	275				
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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