

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

A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX	WITH OPTION PC OR PE, TO CIRCUIT BREAKER CB1				OR, WITH OPTION PD, TO DISCONNECT SWITCH S1			
	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.)
480V								
B720	3VA6710_	1000	(1-4) x (1/0-500 kcmil)	(1-4) x 375	3VA5712_	1200	(1-4) x (1/0-500 kcmil)	(1-4) x 375
B810	3VA6712_	1200						
B900	3VA6710_	1000						
B930	3VA6712_	1200						
BK09					3VA5816_	1600	(1-6) x (1/0-750 kcmil)	(1-6) x 375
BK20	3VA6816_	1600	(1-6) x (1/0-750 kcmil)	(1-6) x 375				

TABLE 2

A.C. LINE WIRING

A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX	OR, WITHOUT OPTIONS PC, PE OR PD TO INPUT POWER TERMINAL BLOCK TB2		
	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
480V			
B720	PDB-55-500-1	(1-5) x (3/0-500kcmil)	450
B810			
B900			
B930	PDB-55-600-1	(1-5) x (250-600kcmil)	450
BK09			
BK20			

TABLE 3

A.C. MOTOR WIRING

A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX	WITH OPTION PH, TO LOAD REACTOR L4			OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE
	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	
480V				
B720	RL-7500_	CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR		CUSTOMER TO SUPPLY A UL LISTED CLOSED-LOOP CONNECTOR, PER THE AC DRIVE TECHNICAL MANUAL USE 75°C COPPER WIRE ONLY
B810	RL-9000_B14			
B900				
B930	RL-10000_B14			
BK09	RL-12000_B14			
BK20				

TABLE 4

A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX	EARTH GROUND WIRING		NEUTRAL WIRING	
	TO GROUND LUGS		TO TERMINAL BLOCK TBN1	
	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
480V				
B720	6-250 kcmil	275	6-350 kcmil	275
B810				
B900				
B930				
BK09				
BK20				

TABLE 5

A1000 CONFIG. MODEL NO. BASE NUMBER A1C *XXXX	CONTROL WIRING	
	TO TERMINAL BLOCK TB1	
	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
480V		
B720	24 - 18	4.4 - 5.3
B810		
B900		
B930		
BK09		
BK20		



DRAWN BY: D.R. CMELAK	DATE 12/21/12	TITLE: CUSTOMER CONNECTION A1000 CONFIGURED TYPE 3R ND RATING HIGH HORSEPOWER
CHECKED: D. PACKER	DATE 12/21/12	
TECH:	DATE	
APPROVED: K. FLIERL	DATE 12/21/12	SIZE C
ORIGINAL DESIGN: D.R. CMELAK	DATE 12/21/12	REVISION 02
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		DRAWING #: UDE00404

REVISIONS				
REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
02	CHANGED BREAKER MANUF. P/N FROM VL TO 3VA SERIES	13594	RJJ	01/26/24
01	ADDED "(USE COPPER CONDUCTORS ONLY)" TO CUST. WIRING REQ.	7469	KM	11/10/16

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