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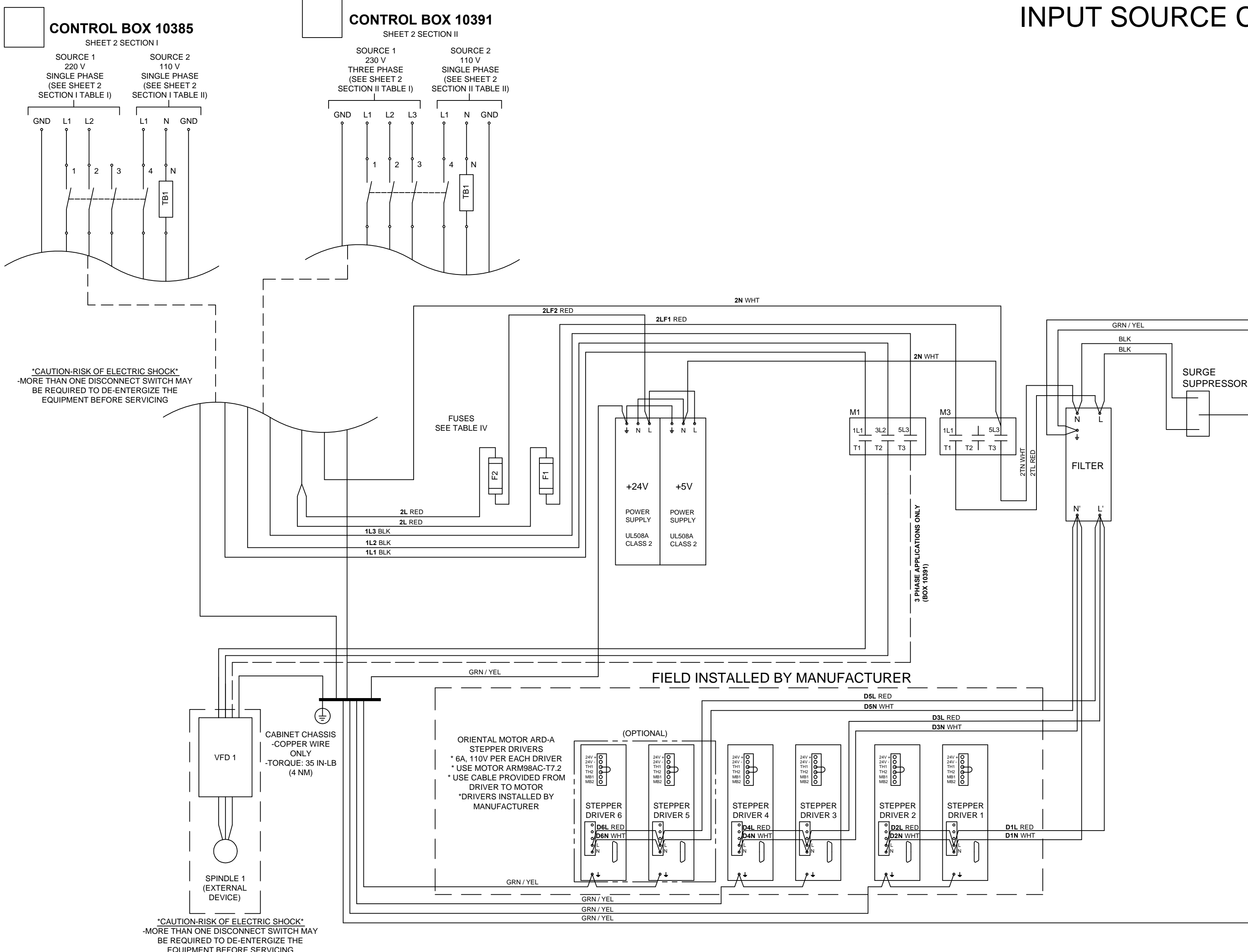
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INPUT SOURCE CONFIGURATION



UL508A



CAUTION-RISK OF ELECTRIC SHOCK
 -MORE THAN ONE DISCONNECT SWITCH MAY BE REQUIRED TO DE-ENERGIZE THE EQUIPMENT BEFORE SERVICING

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FIELD INSTALLED BY MANUFACTURER

ORIENTAL MOTOR ARD-A STEPPER DRIVERS
 * 6A, 110V PER EACH DRIVER
 * USE MOTOR ARM98AC-T7.2
 * USE CABLE PROVIDED FROM DRIVER TO MOTOR
 * DRIVERS INSTALLED BY MANUFACTURER

FOR LOAD TABLES AND BREAKER INFO SEE SHEET 2

ALL WIRING, CONDUCTOR SIZE AND CONDUCTOR TYPE DEVIATIONS MUST BE APPROVED BY SHOPBOT TOOLS
 *CONTACT SHOPBOT TOOLS FOR OPTIONAL WIRING INFORMATION



Durham, North Carolina

DIM UNITS: MM SCALE: NONE

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TITLE		POWER DIAGRAM BOX 010401-55			
DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
KWP	3/13/15	-	-	-	-
SIZE	DRAWING NUMBER		REV		
C	004465-00		1		
PART NUMBER		004465-01		SHEET 1 OF 2	

1	441	2/8/19	GAB	Add UL label and modify notes
REV	CHG NOTICE	DATE	BY	REVISION DESCRIPTION

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APVD

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SECTION I: CONTROL BOX 10385 4-5HP SINGLE SPINDLE & 5HP ATC, 220V SINGLE PHASE POWER FOR SPINDLE, 110V SINGLE PHASE POWER FOR CONTROLS

TABLE I INPUT SOURCE 1- 220V 1 PHASE 60HZ								
SPINDLE 1 (FILL IN CIRCLE NEXT TO THE SPINDLE SHIPPED)	TOTAL FULL LOAD	LARGEST MOTOR LOAD	RECOMMENDED BRANCH PROTECTION (INVERSE TIME CIRCUIT BREAKER)(PROVIDED BY ELECTRICIAN)	FIELD WIRING TERMINALS	WIRE SIZE (AWG) *	SO CORD *	WIRE TYPE *	SCREW TORQUE
○ 4 HP HSD	26A	26A	40A	DISCONNECT 1, 2	8	8	75°C USE COPPER CONDUCTORS ONLY	25 IN-LBS (2.8 NM)
○ 5 HP COLUMBO	35.4A	35.4A	40A		8	6		
○ 5 HP HSD w/ATC	35.4 A	35.4 A	40 A		8	6		

TABLE III OUTPUT LOAD- 220V 1 PHASE 60HZ							
SPINDLE 1 (FILL IN CIRCLE NEXT TO THE SPINDLE SHIPPED)	YASKAWA (VFD) VARIABLE FREQUENCY DRIVE	LOAD	FIELD WIRING TERMINALS	WIRE SIZE (AWG) *	SO CORD *	WIRE TYPE *	SCREW TORQUE
○ 4 HP HSD (AT/MT1073-140)	CIMR-VU2A0030GAA	26A	CONTACTOR M1-T1, T2	8	8	75°C USE COPPER CONDUCTORS ONLY	26.5 IN-LBS (3 NM)
○ 5 HP COLUMBO (RS 90/2 FP1 SB CPE)	CIMR-VU2A0040GAA	35.4A		8	6		
○ 5 HP HSD ATC (ES 915A 2P 04,60kW H1)	CIMR-VU2A0040GAA	35.4		8	6		

TABLE II INPUT SOURCE 2- 110V 1 PHASE 60HZ							
TOTAL FULL LOAD	LARGEST MOTOR LOAD	RECOMMENDED FEEDER PROTECTION (INVERSE TIME CIRCUIT BREAKER) (PROVIDED BY ELECTRICIAN)	FIELD WIRING TERMINAL	WIRE SIZE (AWG) *	SO CORD *	WIRE TYPE *	SCREW TORQUE
14 A	6 A	15 A	DISCONNECT 4 - LINE	12	12	75°C USE COPPER CONDUCTORS ONLY	25 IN-LBS (2.8 NM)
			TERMINAL BLOCK N- NEUTRAL	12	12		6 IN-LBS (0.7 NM)

TABLE IV	
FUSE NO.	RATING
F1	20A CLASS CC-600V (LITTLE FUSE CCMR20A)
F2	3A CLASS CC-600V (LITTLE FUSE CCMR3A)

SECTION II: CONTROL BOX 10391 9HP SINGLE SPINDLE, 230V 3 PHASE POWER FOR SPINDLE, 110V SINGLE PHASE POWER FOR CONTROLS

TABLE I INPUT SOURCE 1- 230V 3 PHASE 60HZ								
SPINDLE 1 (FILL IN CIRCLE NEXT TO THE SPINDLE SHIPPED)	TOTAL FULL LOAD	LARGEST MOTOR LOAD	RECOMMENDED BRANCH PROTECTION (INVERSE TIME CIRCUIT BREAKER)(PROVIDED BY ELECTRICIAN)	FIELD WIRING TERMINALS	WIRE SIZE (AWG) *	SO CORD *	WIRE TYPE *	SCREW TORQUE
○ 9 HP HSD	35.4 A	35.4 A	40 A	DISCONNECT 1,2,3	8	6	75°C USE COPPER CONDUCTORS ONLY	25 IN-LBS (2.8 NM)

TABLE III OUTPUT LOAD- 230V 3 PHASE 60HZ							
SPINDLE 1 (FILL IN CIRCLE NEXT TO THE SPINDLE SHIPPED)	YASKAWA (VFD) VARIABLE FREQUENCY DRIVE	LOAD	FIELD WIRING TERMINALS	WIRE SIZE (AWG) *	SO CORD *	WIRE TYPE *	SCREW TORQUE
○ 9 HP HSD (MT1090-140-ER32-220V)	CIMR-VU2A0040GAA	35.4 A	CONTACTOR M1-T1, T2, T3	8	6	75°C USE COPPER CONDUCTORS ONLY	26.5 IN-LBS (3 NM)

TABLE II INPUT SOURCE 2- 110V 1 PHASE 60 HZ							
TOTAL FULL LOAD	LARGEST MOTOR LOAD	RECOMMENDED FEEDER PROTECTION (INVERSE TIME CIRCUIT BREAKER) (PROVIDED BY ELECTRICIAN)	FIELD WIRING TERMINAL	WIRE SIZE (AWG) *	SO CORD *	WIRE TYPE *	SCREW TORQUE
14 A	6 A	15 A	DISCONNECT 4 - LINE	12	12	75°C USE COPPER CONDUCTORS ONLY	25 IN-LBS (2.8 NM)
			TERMINAL BLOCK N- NEUTRAL	12	12		6 IN-LBS (0.7 NM)

TABLE IV	
FUSE NO.	RATING
F1	20A CLASS CC-600V (LITTLE FUSE CCMR20A)
F2	3A CLASS CC-600V (LITTLE FUSE CCMR3A)



UL508A

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