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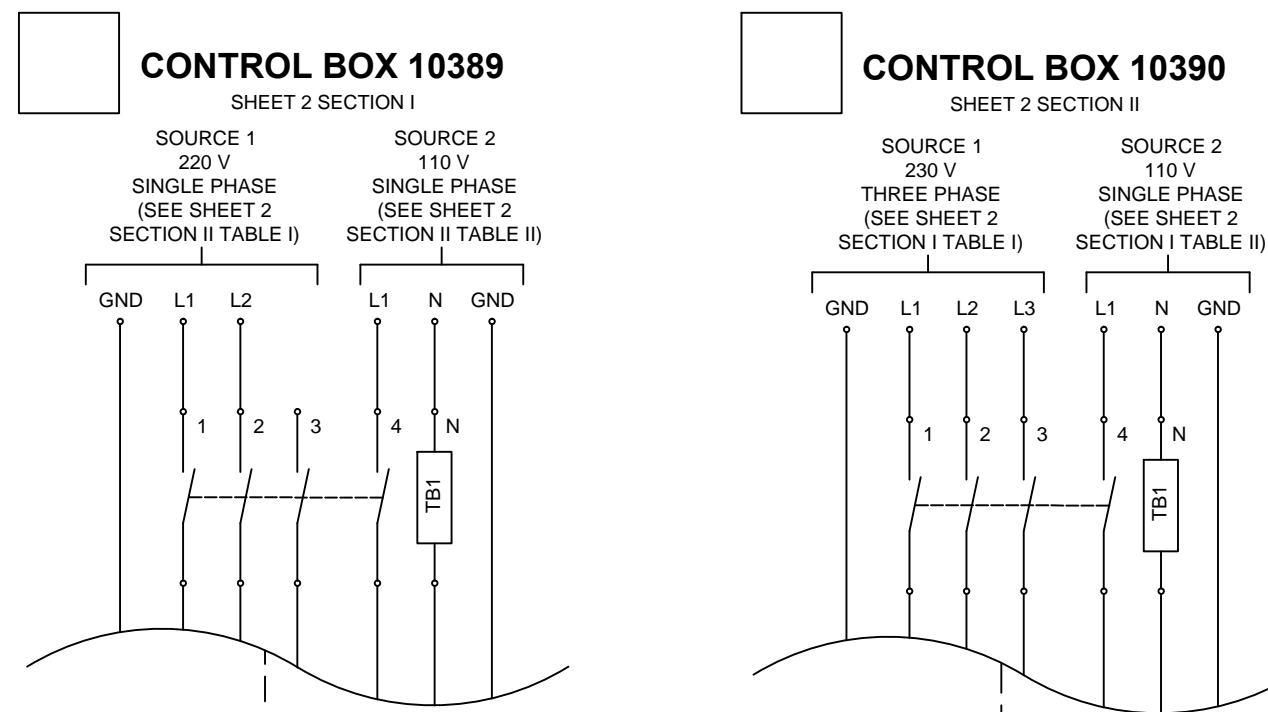
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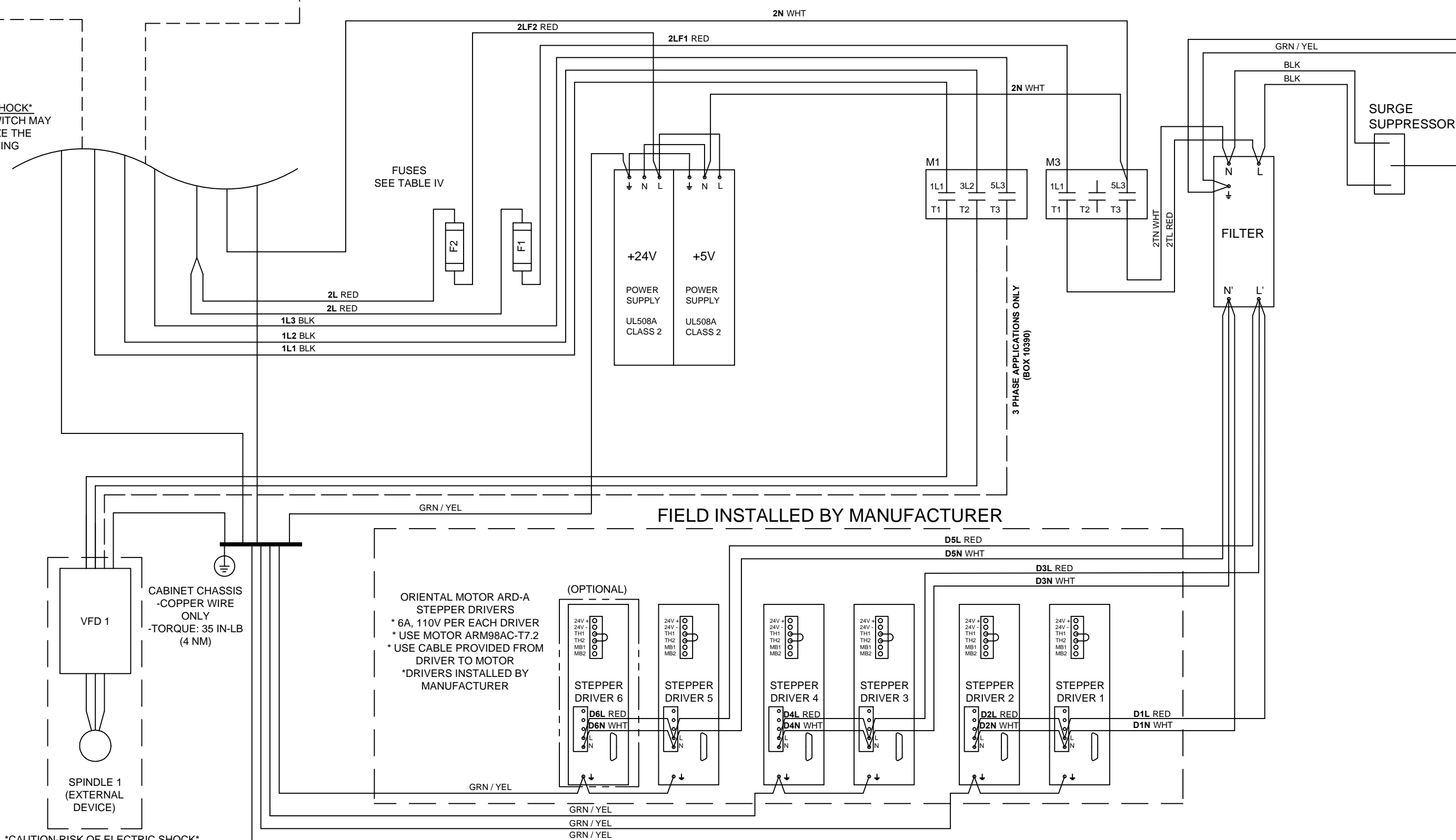
INPUT SOURCE CONFIGURATION



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

DIM UNITS: MM SCALE: NONE

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Durham, North Carolina

TITLE		POWER DIAGRAM BOX 010401-59			
DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
KWP	3/13/15	-	-	-	-
SIZE	DRAWING NUMBER		REV		
C	004469-00		1		
PART NUMBER			SHEET 1 OF 2		
004469-01					

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

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SECTION I: CONTROL BOX 10389

2 HP 5-AXIS SPINDLE, 220V SINGLE PHASE POWER FOR SPINDLE, 110V SINGLE PHASE POWER FOR CONTROLS

TABLE I								
INPUT SOURCE 1- 230V 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
o 2 HP HSD	18.9A	18.9A	25 A	DISCONNECT 1,2	10	10	75°C USE COPPER CONDUCTORS ONLY	25 IN-LBS (2.8 NM)

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 III							
OUTPUT LOAD- 230V 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
o 2 HP HSD (AT/MT 1073-060)	CIMR-VU2A0020GAA	18.9A	CONTACTOR M1- T1, T2	10	12	75°C USE COPPER CONDUCTORS ONLY	17.5 IN-LBS (2 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 10390

2HP 5-AXIS SPINDLE, 230V THREE 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
o 2 HP HSD	11 A	11 A	15 A	DISCONNECT 1,2,3	12	12	75°C USE COPPER CONDUCTORS ONLY	25 IN-LBS (2.8 NM)

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 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
o 2 HP HSD (AT/MT 1073-060)	CIMR-VU2A0012GAA	11A	CONTACTOR M1- T1, T2, T3	12	12	75°C USE COPPER CONDUCTORS ONLY	17.5IN-LBS (2 NM)

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



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