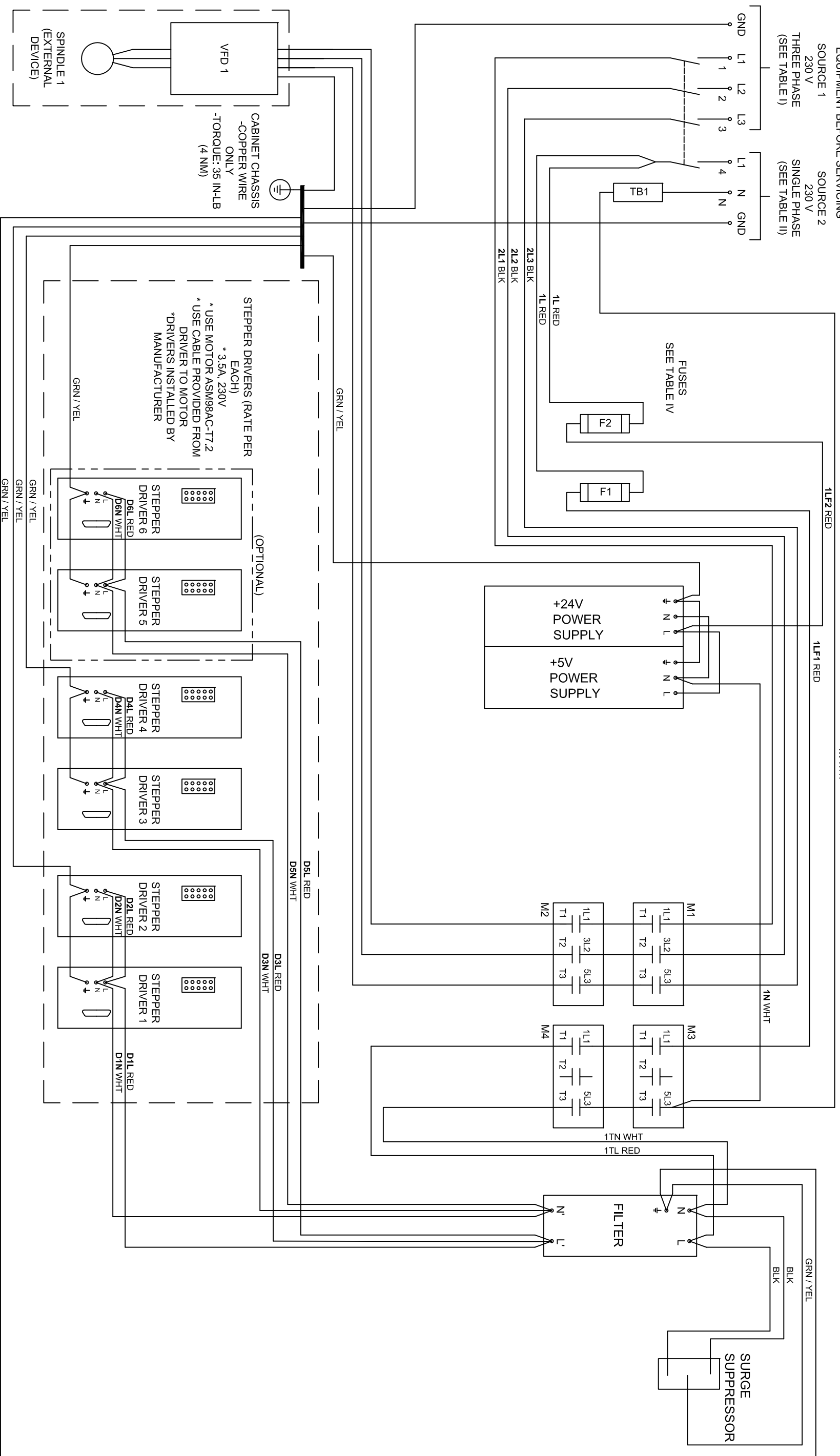


*CAUTION: RISK OF ELECTRIC SHOCK!
 *MORE THAN ONE DISCONNECT SWITCH MAY
 BE REQUIRED TO DE-ENERGIZE THE
 EQUIPMENT BEFORE SERVICING



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

TABLE I

INPUT SOURCE 1- 230V 3 PHASE 50/60HZ

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 (mm ²)*	SO CORD AWG (mm ²)*	WIRE TYPE *	SCREW TORQUE
0 2.2 HP HSD	11A	11A	35A	DISCONNECT	12 (3.5)	12 (3.5)	75-C	31 IN-LBS (3.5 NM)
0 3 HP COLUMBO	11A	11A	35A	DISCONNECT	12 (3.5)	12 (3.5)	USE COPPER CONDUCTORS ONLY	14 IN-LBS (1.6 NM)
0 4 HP HSD	18.9A	18.9A	60A		10 (6.5)	12 (3.5)		
0 5 HP COLUMBO	18.9A	18.9A	60A		10 (6.5)	12 (3.5)		
0 5 HP HSD w/ATC	18.9A	18.9A	60A		10 (6.5)	12 (3.5)		

TABLE III

OUTPUT LOAD- 230V 3 PHASE 50/60HZ

SPINDLE 1 (FILL IN CIRCLE NEXT TO THE SPINDLE SHIPPED)	VFD	LOAD	FIELD WIRING TERMINALS	WIRE SIZE AWG (mm ²)*	SO CORD AWG (mm ²)*	WIRE TYPE *	SCREW TORQUE
0 2.2 HP HSD	CMR-VI2A0012GAA	11A		12 (3.5)	12 (3.5)	75-C	31 IN-LBS (3.5 NM)
0 3 HP COLUMBO	CMR-VI2A0012GAA	11A	CONTACTOR	12 (3.5)	12 (3.5)	USE COPPER CONDUCTORS ONLY	14 IN-LBS (1.6 NM)
0 4 HP HSD	CMR-VI2A0020GAA	18.9A	M1- T1, T2, T3	10 (6.5)	12 (3.5)		
0 5 HP COLUMBO	CMR-VI2A0020GAA	18.9A		10 (6.5)	12 (3.5)		
0 5 HP HSD w/ATC	CMR-VI2A0020GAA	18.9A		10 (6.5)	12 (3.5)		

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TABLE IV

RATING

FUSE NO.	RATING
F1	10A CLASS CC-800V (LITTLE FUSE CCMR10A)
F2	3A CLASS CC-800V (LITTLE FUSE CCMR3A)

TABLE II

INPUT SOURCE 2- 230V 1 PHASE 50/60HZ

TOTAL FULL LOAD	LARGEST MOTOR LOAD	RECOMMENDED FEEDER PROTECTION (INVERSE TIME CIRCUIT BREAKER) (PROVIDED BY ELECTRICIAN)	FIELD WIRING TERMINAL	WIRE SIZE AWG (mm ²)*	SO CORD AWG (mm ²)*	WIRE TYPE *	SCREW TORQUE
8 A	3.5 A	10 A	DISCONNECT 4- TERMINAL BLOCK N- NEUTRAL	14 (2)	14 (2)	75 C COPPER WIRE ONLY	31 IN-LBS (3.5 NM) 18 IN-LBS (1.8 NM)

TABLE IV

RATING

FUSE NO.	RATING
F1	10A CLASS CC-800V (LITTLE FUSE CCMR10A)
F2	3A CLASS CC-800V (LITTLE FUSE CCMR3A)

0 - CHG NOTICE DATE BY **KWP INITIAL RELEASE** REVISION DESCRIPTION

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