

4

3

2

1

CONTROL BOX 10258
SHEET 2 SECTION I

CONTROL BOX 10259
SHEET 2 SECTION II

FOR LOAD TABLES AND
BREAKER INFO SEE
SHEET 2

INPUT SOURCE CONFIGURATION



UL508A

D

D

C

C

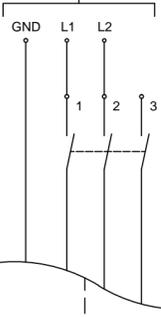
B

B

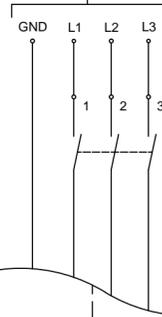
A

A

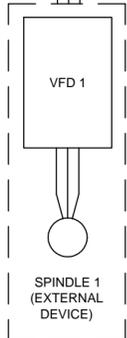
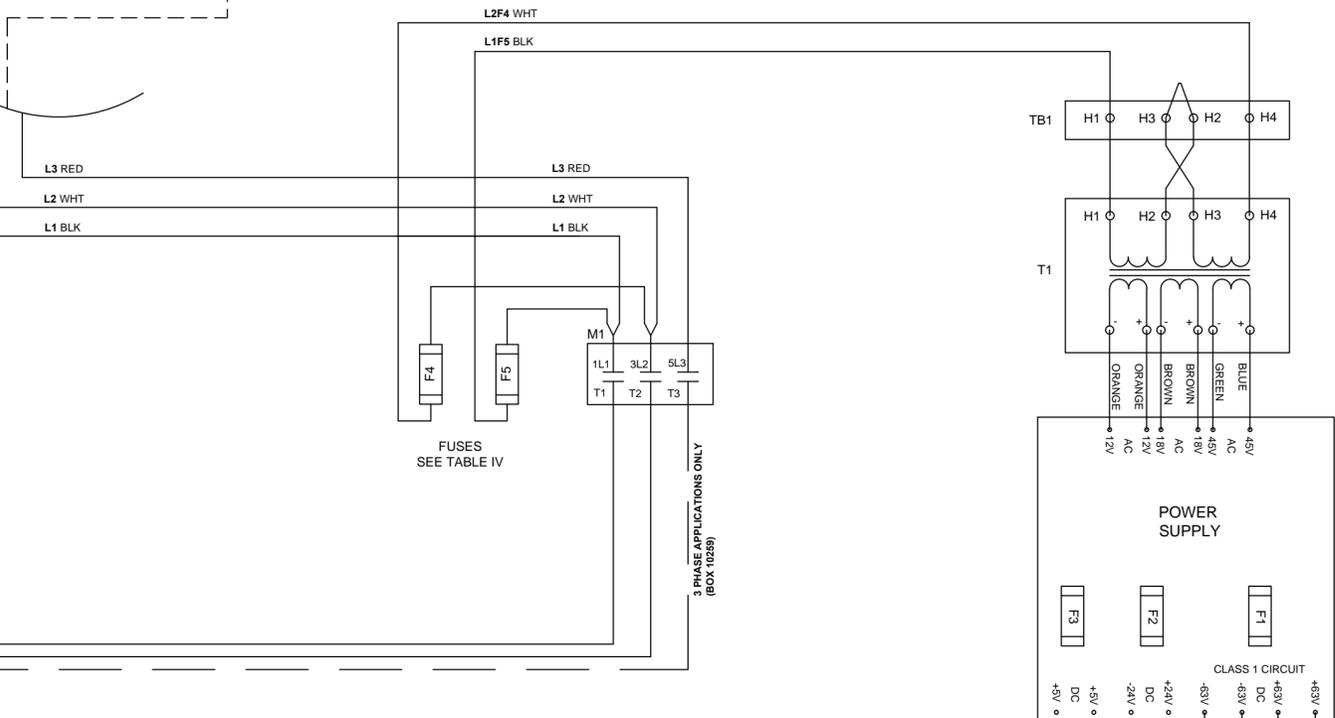
SOURCE 1
220 V
SINGLE PHASE
(SEE SHEET 2 SECTION I
TABLE I)



SOURCE 1
230 V
3 PHASE
(SEE SHEET 2 SECTION II
TABLE I)

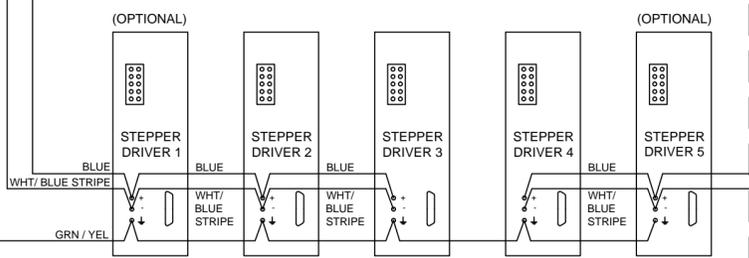


CAUTION-RISK OF ELECTRIC SHOCK
-DE-ENERGIZE THE MAIN DISCONNECT
EQUIPMENT BEFORE SERVICING



CABINET CHASSIS
-COPPER WIRE
ONLY
-TORQUE: 35 IN-LB
(4 NM)

ORIENTAL MOTOR C006Q-044
STEPPER DRIVERS
(RATE PER EACH)
* 2A, 63VDC
* USE MOTOR A7328-9412KTG
* USE CABLE PROVIDED FROM
DRIVER TO MOTOR
*DRIVERS INSTALLED BY
MANUFACTURER



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

THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION OF SHOPBOT TOOLS. IT IS NOT TO BE REPRODUCED BY ANY MEANS OR USED TO FURNISH INFORMATION TO OTHERS WITHOUT THE EXPRESS CONSENT OF THE OWNER. THE INFORMATION SHALL BE USED BY RECIPIENTS ONLY AS EXPRESSLY APPROVED BY OWNER AND THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST.
©2008, SHOPBOT TOOLS, INC., ALL RIGHTS RESERVED



Durham, North Carolina

TITLE **POWER DIAGRAM 10258 STD & 10259 STD**

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
GAB	3/21/18	-	-	-	-
SIZE	DRAWING NUMBER		REV		
C	005340-00		1		
PART NUMBER			SHEET 1 OF 2		
005340-01					

1		4/2/19	GAB	Update fuse table to FLSR type fuses for transformer
REV	CHG NOTICE	DATE	BY	REVISION DESCRIPTION

4

3

2

1

4

3

2

1

SECTION I: CONTROL BOX 10258

2.2-4HP SINGLE SPINDLE, 220V SINGLE PHASE POWER FOR SPINDLE AND 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	
o 2.2 HP HSD	21.2 A	18.9 A	25 A	DISCONNECT 1,2	10	12	USE 75°C COPPER CONDUCTORS ONLY	25 IN-LBS (2.8 NM)	
o 4 HP HSD	28.3 A	26 A	30 A						

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
o 2.2 HP HSD (AT/MT1073-070)	CIMR-VU2A0020GAA	18.9 A	CONTACTOR M1- T1, T2	10	12	75°C USE COPPER CONDUCTORS ONLY	25 IN-LBS (2.8 NM)
o 4 HP HSD (AT/MT1073-140)	CIMR-VU2A0030GAA	26 A		8	8		

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

TABLE IV	
FUSE NO.	RATING
F1	10A GLASS FUSE 250VAC 5X20MM (LITTELFUSE INC 0218010.HXP)
F2	2A GLASS FUSE 250VAC 5X20MM (LITTELFUSE INC 0217002.HXP)
F3	1A GLASS FUSE 250VAC 5X20MM (LITTELFUSE INC 0217001.HXP)
F4	4A CLASS RK5 (LITTELFUSE INC FLSR004.T)
F5	4A CLASS RK5 (LITTELFUSE INC FLSR004.T)

SECTION II: CONTROL BOX 10259

2.2-5HP SINGLE SPINDLE, 230V 3 PHASE POWER FOR SPINDLE AND 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 2.2 HP HSD	13.25 A	11 A	15 A	DISCONNECT 1,2,3	12	10	75°C USE COPPER CONDUCTORS ONLY	25 IN-LBS (2.8 NM)	
o 4 HP HSD	21.2 A	18.9 A	25 A						
o 5 HP COLUMBO	21.2 A	18.9 A	25 A						

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 2.2 HP HSD (AT/MT1073-070)	CIMR-VU2A0012GAA	11 A	CONTACTOR M1- T1, T2, T3	12	12	75°C USE COPPER CONDUCTORS ONLY	25 IN-LBS (2.8 NM)
o 4 HP HSD (AT/MT1073-140)	CIMR-VU2A0020GAA	18.9 A		10	12		
o 5 HP COLUMBO (RS 90/2 FP1 SB CPE)	CIMR-VU2A0020GAA	18.9 A		10	12		

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

TABLE IV	
FUSE NO.	RATING
F1	10A GLASS FUSE 250VAC 5X20MM (LITTELFUSE INC 018010.HXP)
F2	2A GLASS FUSE 250VAC 5X20MM (LITTELFUSE INC 017002.HXP)
F3	1A GLASS FUSE 250VAC 5X20MM (LITTELFUSE INC 017001.HXP)
F4	4A CLASS RK5 (LITTELFUSE INC FLSR004.T)
F5	4A CLASS RK5 (LITTELFUSE INC FLSR004.T)



Durham, North Carolina

DIM UNITS: MM SCALE: NONE

THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION OF SHOPBOT TOOLS. IT IS NOT TO BE REPRODUCED BY ANY MEANS OR USED TO FURNISH INFORMATION TO OTHERS WITHOUT THE EXPRESS CONSENT TO THE OWNER. THE INFORMATION SHALL BE USED BY RECIPIENTS ONLY AS EXPRESSLY APPROVED BY OWNER AND THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. ©2008, SHOPBOT TOOLS, INC., ALL RIGHTS RESERVED

TITLE POWER DIAGRAM 10258 & 10259 STD

DRAWN GAB DATE 3/21/18 CHECKED DATE APPROVED DATE

SIZE C DRAWING NUMBER 005340-00 REV 1

PART NUMBER 005340-01 SHEET 2 OF 2

REV	CHG NOTICE	DATE	BY	REVISION DESCRIPTION
1		4/2/19	GAB	Update fuse table to FLSR type fuses for transformer

4

3

2

1