

REVISIONS	

SYMBOL TABLE		
SYMBOL	TAG	DESCRIPTION
	CR	RELAY COIL
	CON, M, K	CONTACTOR COIL
	SOL	SOLENOID
	BRK	MAGNETIC BRAKE
		CONTACT
	PRS	PROXIMITY SWITCH
	TAS	TEMPERATURE SWITCH
	PB	PUSH BUTTON
	MTR	MOTOR
	T	CONTROL TRANSFORMER
	T	POWER TRANSFORMER
	PWS	POWER SUPPLY
	DR	DRIVE
		MODULE
	OL	OVERLOAD PROT RELAY
	DISC	DISCONNECT SWITCH
	FU	FUSE
	CB	CIRCUIT BREAKER
	RES	RESISTOR
	VR	VARISTOR, THERMISTOR
	C	CAPACITOR
	REC	DIODE
	GND, PE	PROTECTIVE EARTH/ EQUIPMENT GROUND
	FG	FRAME GROUND
	TER, TB	TERMINAL
		CONNECTION POINT
		SHIELDED
		TWISTED PAIR
		ARC SUPPRESSOR

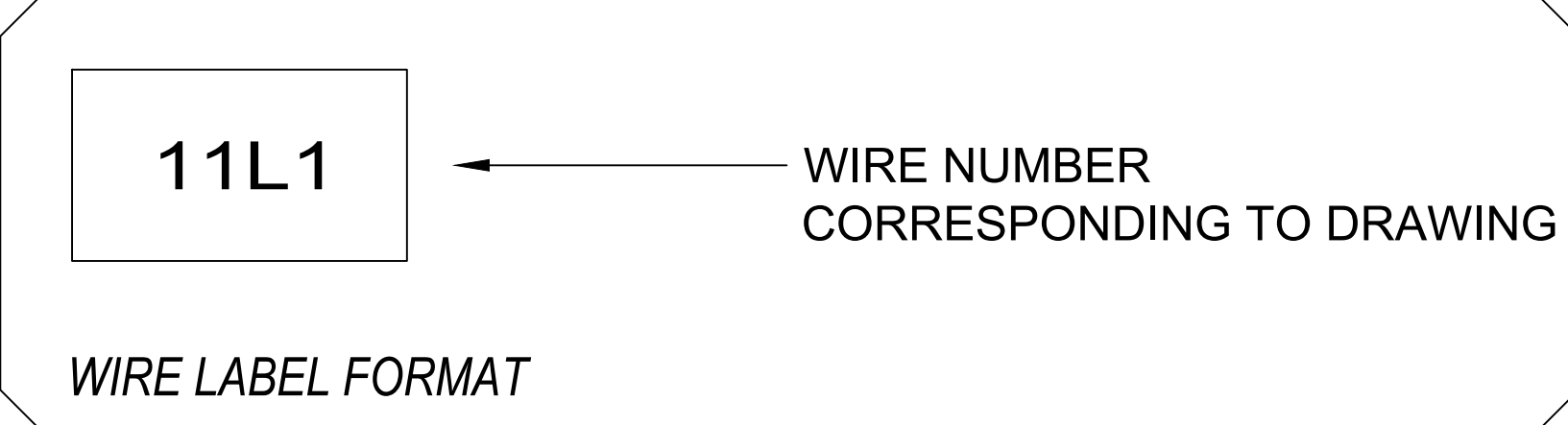
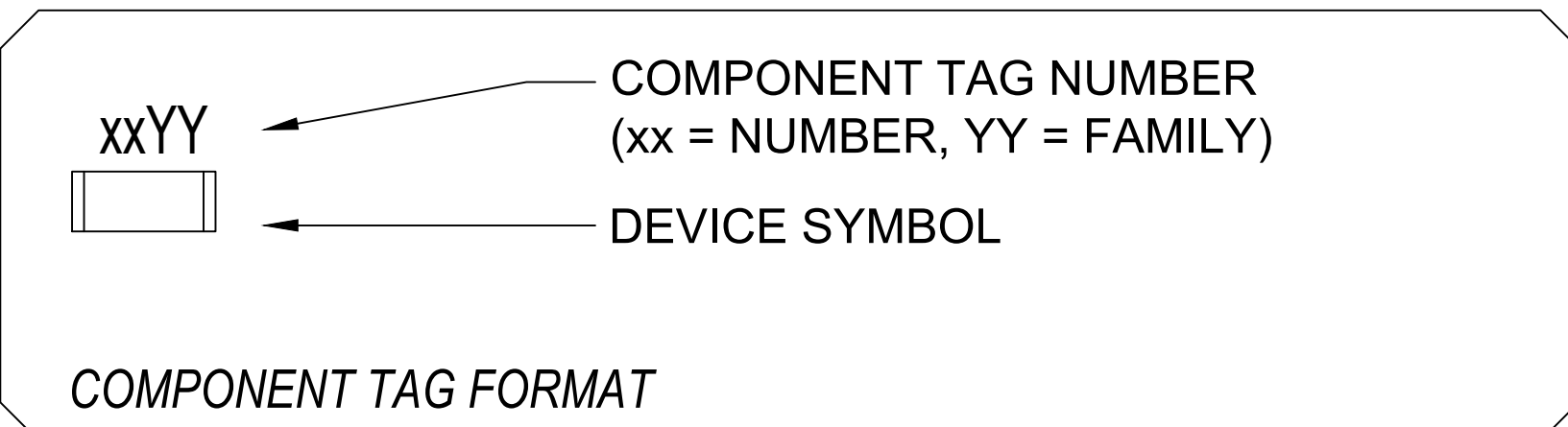


ROLLA, MISSOURI, USA  
 573-368-7399  
 MACHMOTION.COM

# CNC CONTROL SYSTEM

## ELECTRICAL CIRCUIT DIAGRAM

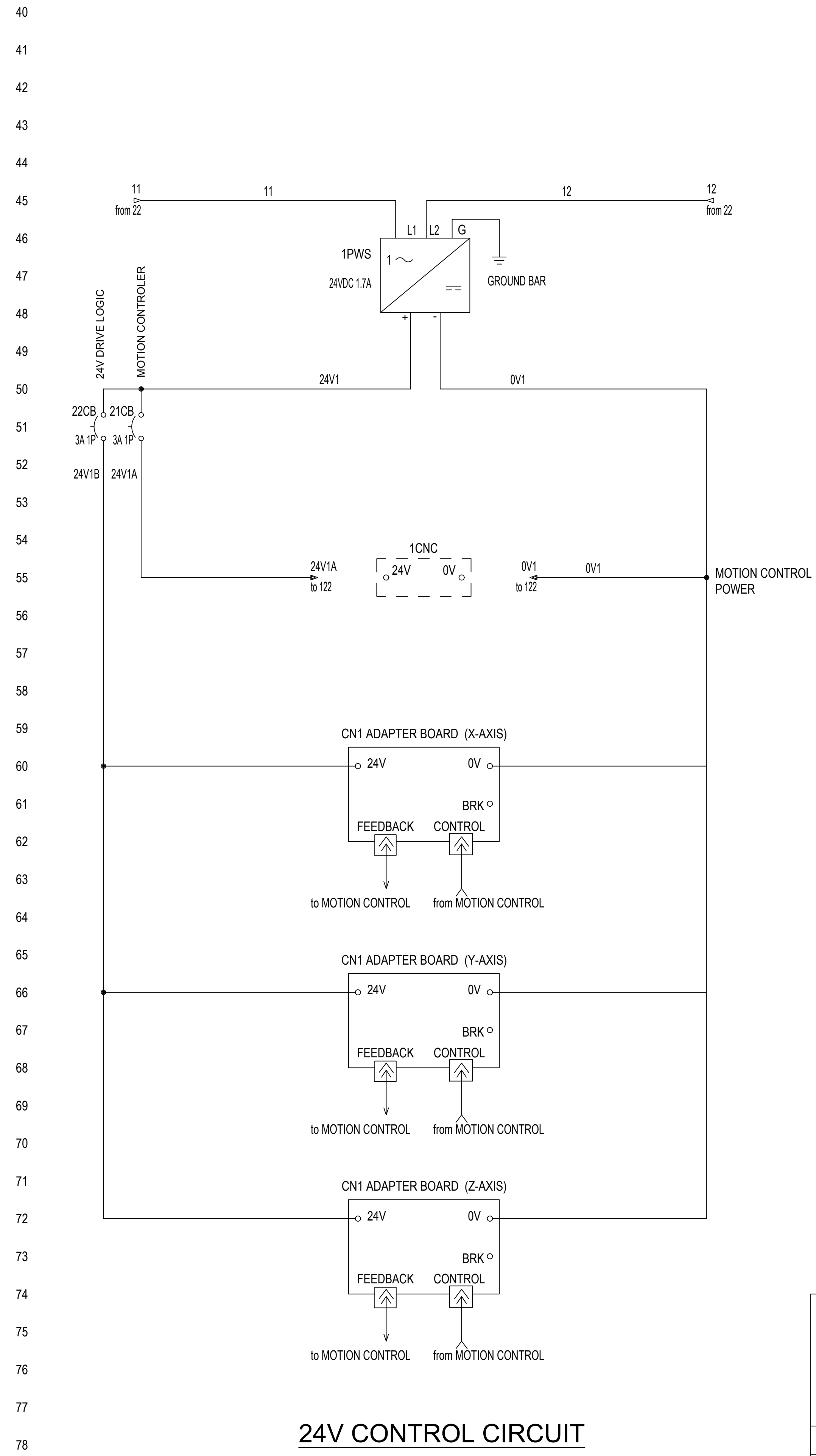
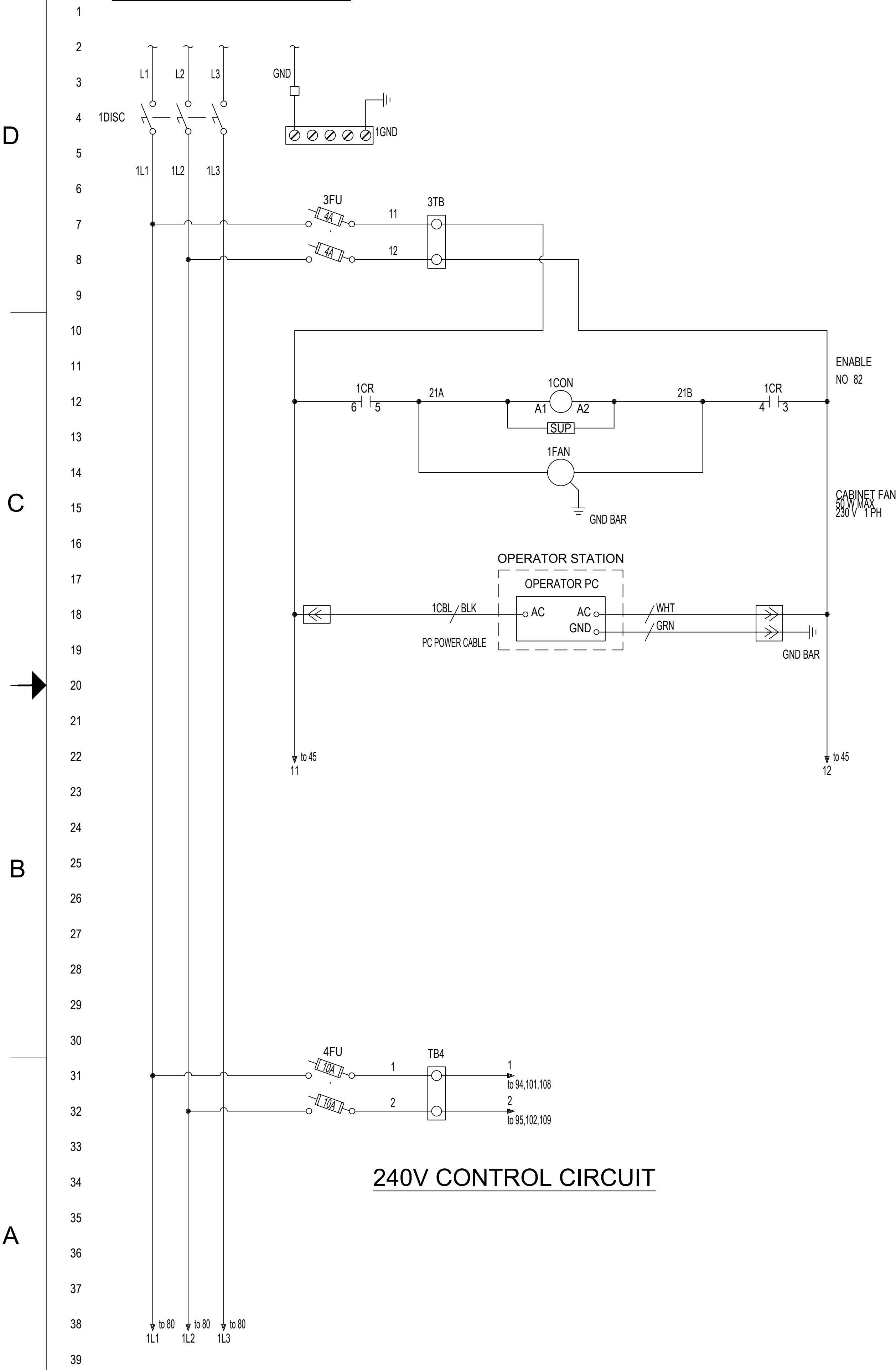
NOTE: ALL FUNCTIONS MAY NOT BE PRESENT OR AVAILABLE AS SHOWN. REFER TO USER MANUAL.



 MACHMOTION 14518 CR 7240 ROLLA, MISSOURI, USA 573-368-7399 MACHMOTION.COM	STANDARD MILL ELECTRICAL DRAWING (YASKAWA)			
	TITLE SHEET			
SIZE D	FSCM NO	DRAWING NUMBER <b>ES0121</b>	REV	
SCALE NTS	SHEET 1		1	

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NOTE: INCOMING POWER 230V AC ±10% 3PH



<p>MACHMOTION 14518 CR 7240 ROLLA, MISSOURI, USA 573-368-7399 MACHMOTION.COM</p>	STANDARD MILL ELECTRICAL DRAWING (YASKAWA)		
	MAIN POWER DISTRIBUTION		
SIZE D	FSCM NO	DRAWING NUMBER <b>ES0121</b>	REV
SCALE NTS	SHEET 2		

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D

D

C

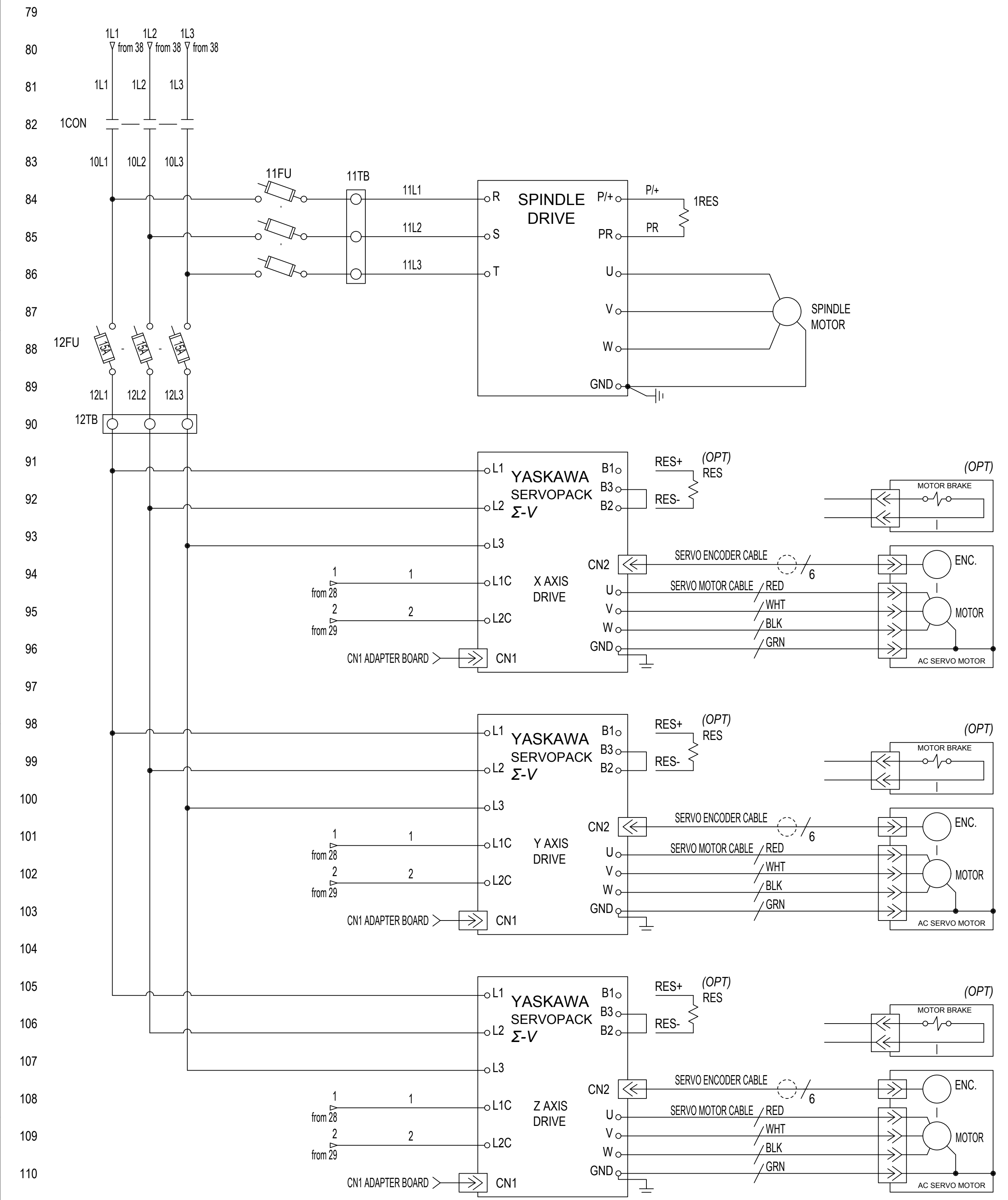
C

B

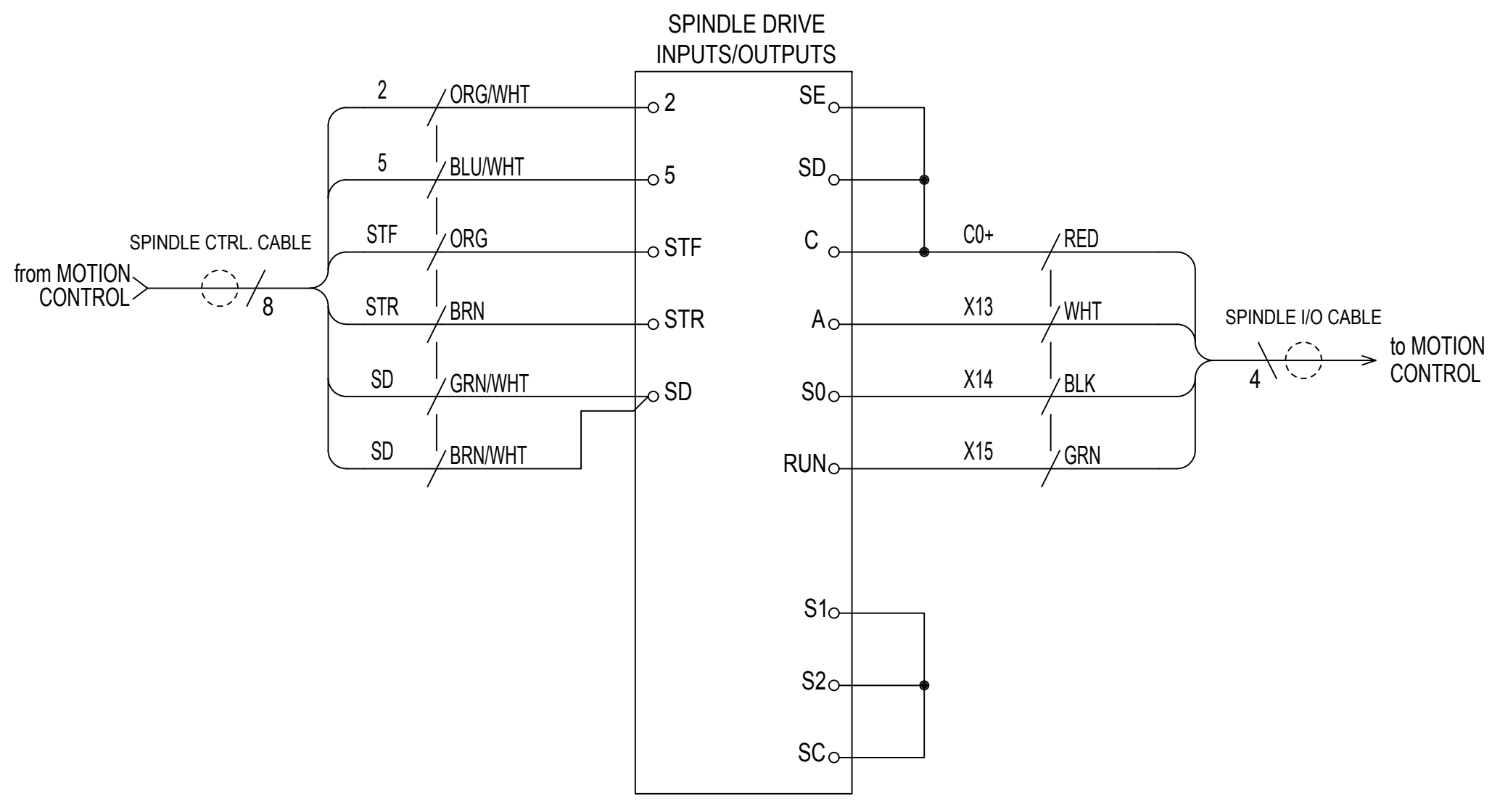
B

A

A



**AXIS DRIVES AND MOTORS**

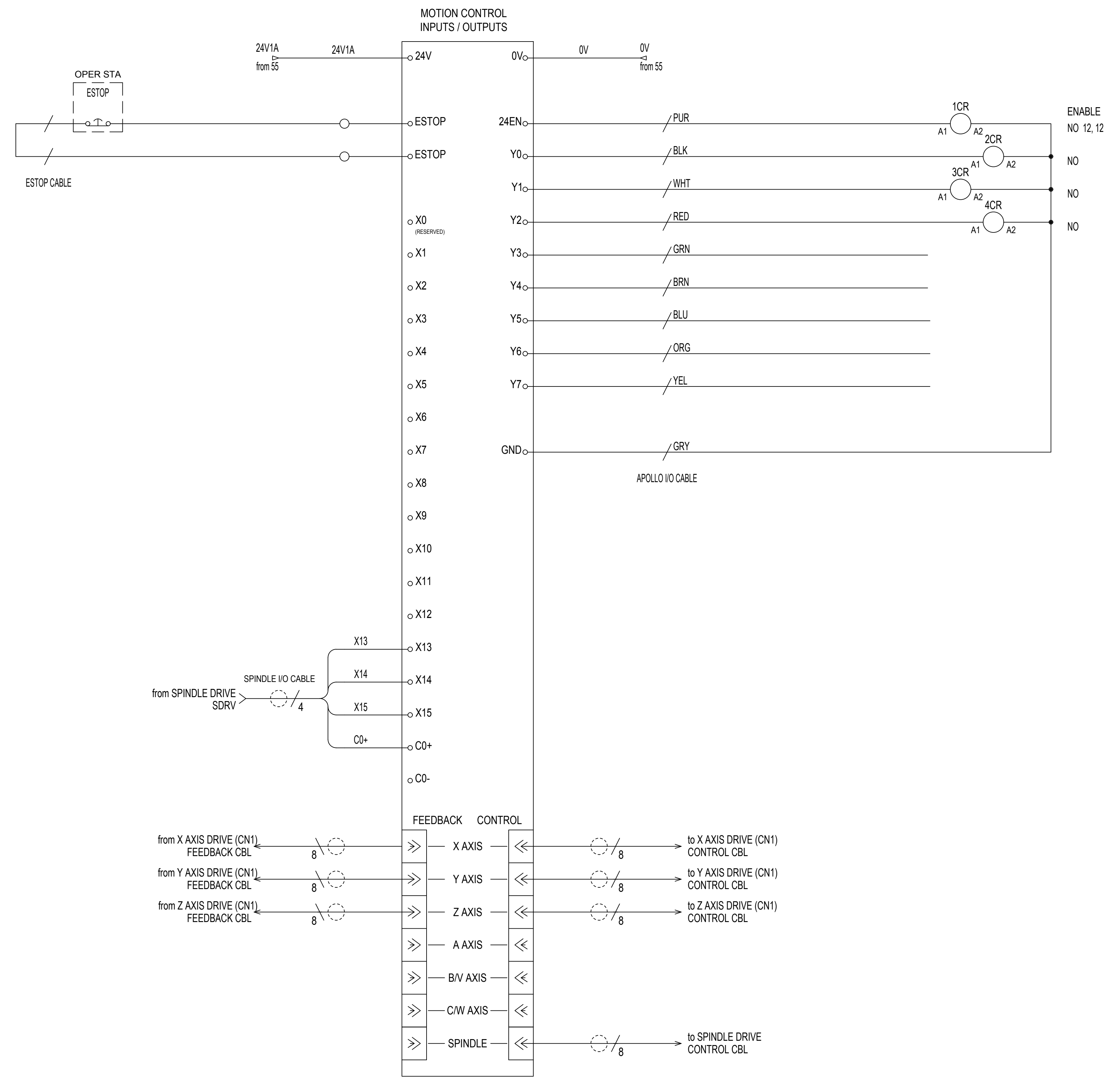


**SPINDLE DRIVE I/O**

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	AXIS DRIVES AND MOTORS		
SIZE D	FSCM NO	DRAWING NUMBER <b>ES0121</b>	REV
SCALE NTS	SHEET 3		

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X0	X5	X10	X15
X	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX

SINKING LOGIC (NPN)  
SOURCING LOGIC (PNP) (DEFAULT)

**APOLLO III INPUT JUMPER SETTINGS - REFER TO USER MANUAL**

**TYPICAL APOLLO III INPUTS**  
CONFIGURABLE IN SOFTWARE - REFER TO USER MANUAL

INPUT	FUNCTION
X0	RESERVED
X1	X (0) HOME
X2	Y (1) HOME
X3	Z (2) HOME
X4	W (3) HOME
X5	
X6	
X7	
X8	
X9	
X10	
X11	
X12	
X13	SPINDLE DRIVE FAULT
X14	SPINDLE AT SPEED
X15	SPINDLE ZERO SPEED

**TYPICAL APOLLO III OUTPUTS**  
CONFIGURABLE IN SOFTWARE - REFER TO USER MANUAL

RELAY #	OUTPUT	SIGNAL / FUNCTION
1CR	24EN	ENABLE
2CR	Y0	
3CR	Y1	
4CR	Y2	
5CR	Y3	
6CR	Y4	
	Y5	
	Y5	
	Y5	
	Y5	

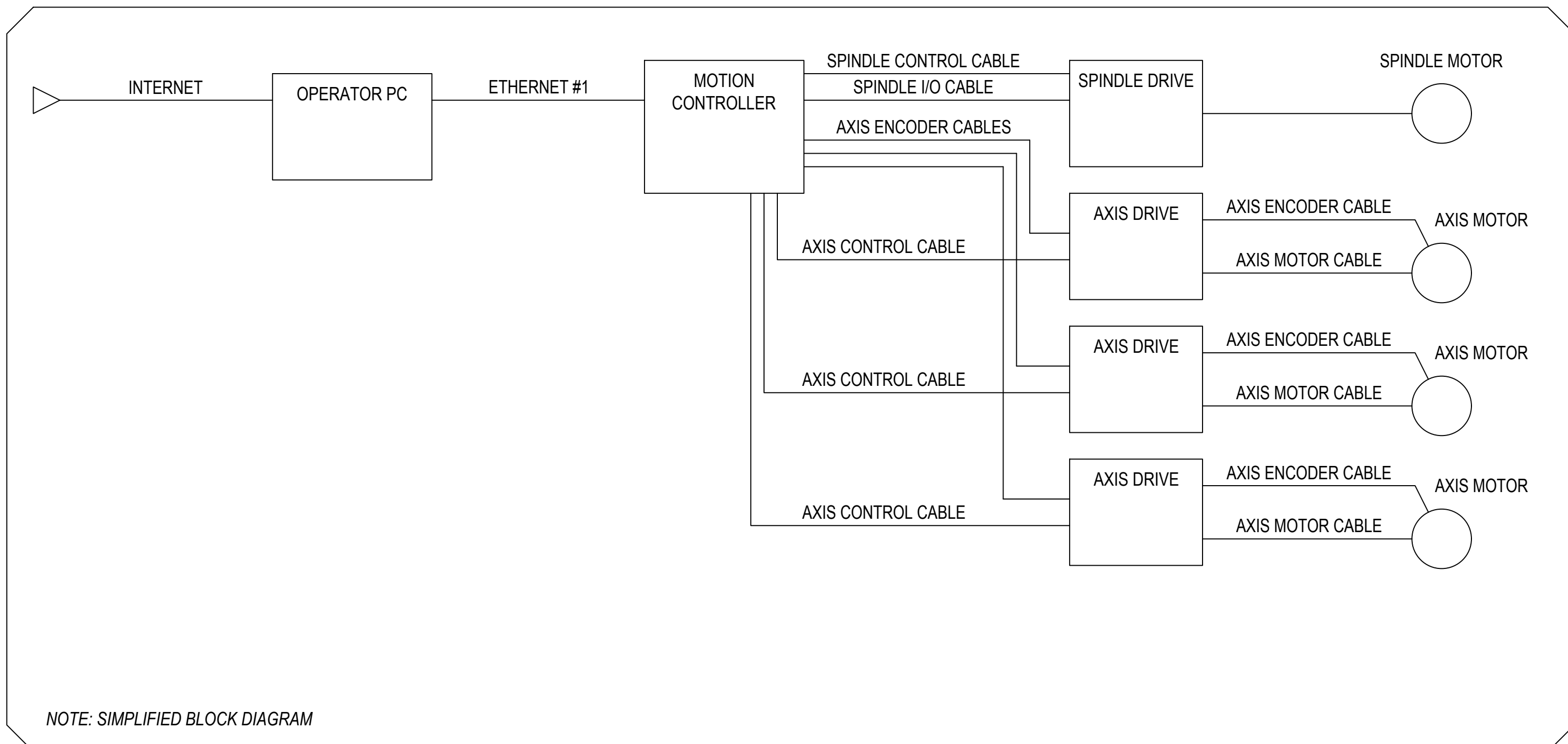
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**MOTION CONTROL**

<p style="font-size: x-small;">MACHMOTION 14518 CR 7240 ROLLA, MISSOURI, USA 573-368-7399 MACHMOTION.COM</p>	STANDARD MILL ELECTRICAL DRAWING (YASKAWA)		
	MOTION CONTROL		
SIZE	FSCM NO	DRAWING NUMBER	REV
D		ES0121	
SCALE	NTS	SHEET	4

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### BLOCK DIAGRAM



NOTE: SIMPLIFIED BLOCK DIAGRAM

NOTE: ALL FUNCTIONS MAY NOT BE PRESENT OR AVAILABLE AS SHOWN. REFER TO USER MANUAL.

 MACHMOTION 14518 CR 7240 ROLLA, MISSOURI, USA 573-368-7399 MACHMOTION.COM	STANDARD MILL ELECTRICAL DRAWING (YASKAWA)			
	BLOCK DIAGRAM			
SIZE D	FSCM NO	DRAWING NUMBER <b>ES0121</b>	REV	
SCALE NTS	SHEET 5			