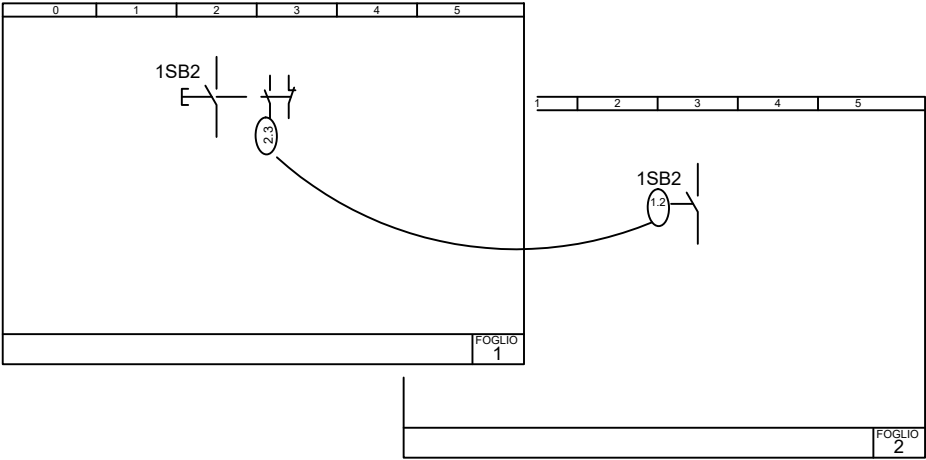
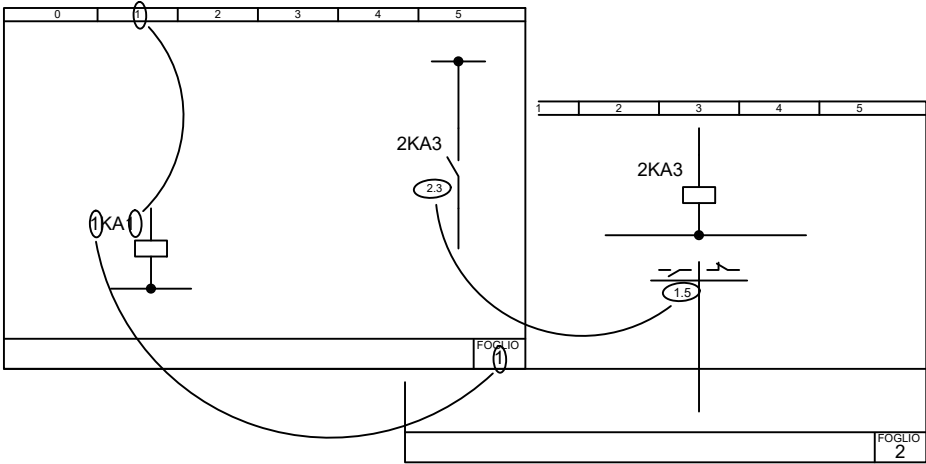


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19																								
AITALMAC Heng Sheng Road , Gao Chun Economic Development Zone , NANJING,211300 P.R.CHINA										LOCATION SYMBOLS ☐ Components on the door ☐ Components inside the cubicle (usually omitted) ☒ Machine components (usually omitted)				COMPONENTS DESIGNATION C Condensers D CNC control model E Component not in this list F Protection Devices FU Fuses G Generators, feeders H Signalling devices KA Relays KM Contactors L Drives M Motors N Analog integrated circuits P Switching power supply Q Circuit breaker QS Highly versatile change over switch R Resistors SQ Sensor, Limit S Filter SB Buttons T Transformers U Modulators converters V Rectifiers, semiconductors EV Solenoid valves X Terminal wire clamps, connectors Y Electricity actuating devices																													
CLIENTE																																											
AITALMAC CO.,LTD																																											
MACHINE					MAIN POWER SUPPLY																																						
CNC EPR3500					VOLT. 220 FREQ. 50-60																																						
WIRING DIAGRAM					CUBICLE DIMENSION																																						
EPR3500-190804 WITH TWO HEAD					L (mm) 1835 H (mm) 560 P (mm) 320																																						
CONDUCTORS DESIGNATION <table><tr><th>COLOR</th><th>FUNCTION</th><th>MINIMUM SECTION</th></tr><tr><td>BLACK</td><td>power circuit A.C./D.C.</td><td>1,0mm²</td></tr><tr><td>RED</td><td>A.C. auxiliary circuit</td><td>1,0mm²</td></tr><tr><td>BLUE</td><td>D.C. auxiliary circuit</td><td>1,0mm²</td></tr><tr><td>YELLOW GREEN</td><td>protection earth</td><td>2,5mm²</td></tr><tr><td>SCREEN CABLE</td><td>reference - signal</td><td>0.75 mm²</td></tr><tr><td>RED +/BLUE -</td><td>thermocouples</td><td>COMPENSATED CABLE</td></tr><tr><td></td><td>PLC circuit</td><td>0,2mm² (0,5mm² I<2A)</td></tr></table>										COLOR	FUNCTION	MINIMUM SECTION	BLACK	power circuit A.C./D.C.	1,0mm²	RED	A.C. auxiliary circuit	1,0mm²	BLUE	D.C. auxiliary circuit	1,0mm²	YELLOW GREEN	protection earth	2,5mm²	SCREEN CABLE	reference - signal	0.75 mm²	RED +/BLUE -	thermocouples	COMPENSATED CABLE		PLC circuit	0,2mm² (0,5mm² I<2A)	COLORS WH White YE Yellow RD Red OG Orange GN Gray BU Blue BK Black GY GreenYellow				MAIN CIRCUIT BREAKER OPERATING TIME: _____ SYMMETRICAL SHORT-CIRCUIT CURRENT: _____					
COLOR	FUNCTION	MINIMUM SECTION																																									
BLACK	power circuit A.C./D.C.	1,0mm²																																									
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										WARNING: THE PROTECTION OF THE MAIN POWER SUPPLY AND THE CONNECTION TO THE EARTH'S SYSTEM ARE DEPENDANT ON THE CUSTOMER. IN RESPECT TO THE EUROPEAN STANDARD EN60439-1 SPECIFICATIONS - CEI 17-13.1 DOSSIER 1433 - AND DPR 547 DD 27/04/1955, THE MAIN POWER SUPPLY MUST BE PROTECTED WITH A PROPER MAGNETIC-THERMAL SWITCH HAVING BREAKING CAPACITY NOT LOWER THAN 10 KILOAMPERE.																																	
THE WIRING DIAGRAM IS INDICATED WITHOUT TENSION, AIR, OIL AND WATER FLOW.																																											
AitalMac www.aitalmac.com		Designed By : ZLJ			Checked By :			Trimness By :			Description : MACHINE INFORMATION																																
Machine : EPR3500					Date: 11.04.2019			Revision: EPR3500-190804					Approved By :			Pag. 1	Next. 2																										

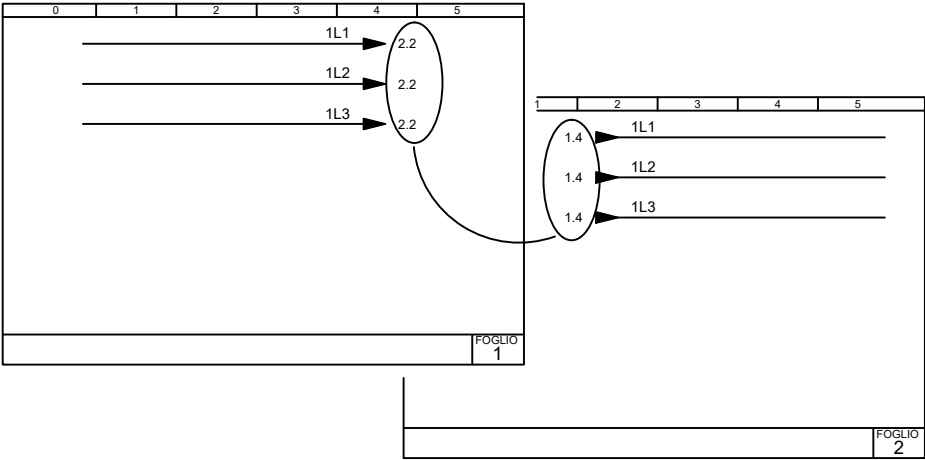
COMPONENT REFERENCE



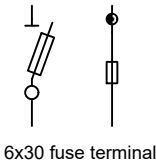
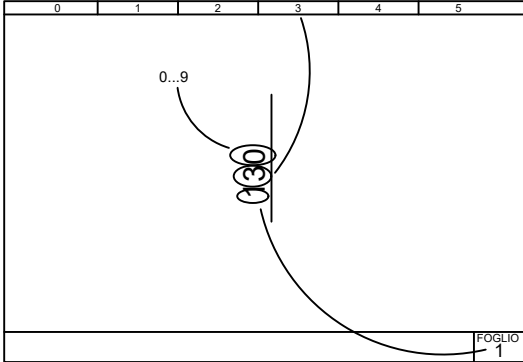
COMPONENT NAME/COIL-CONTACT POSITION



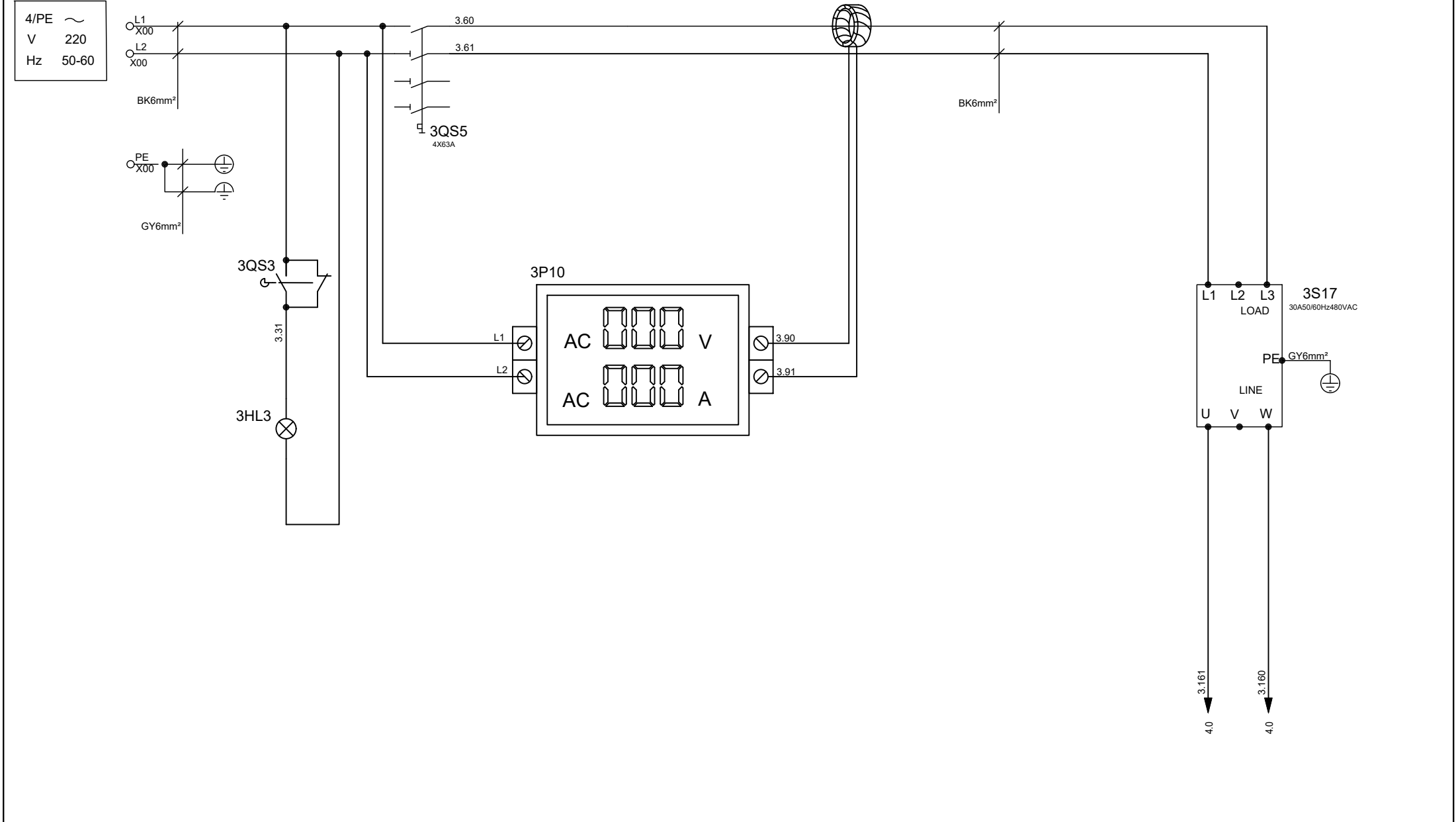
SIGNALS

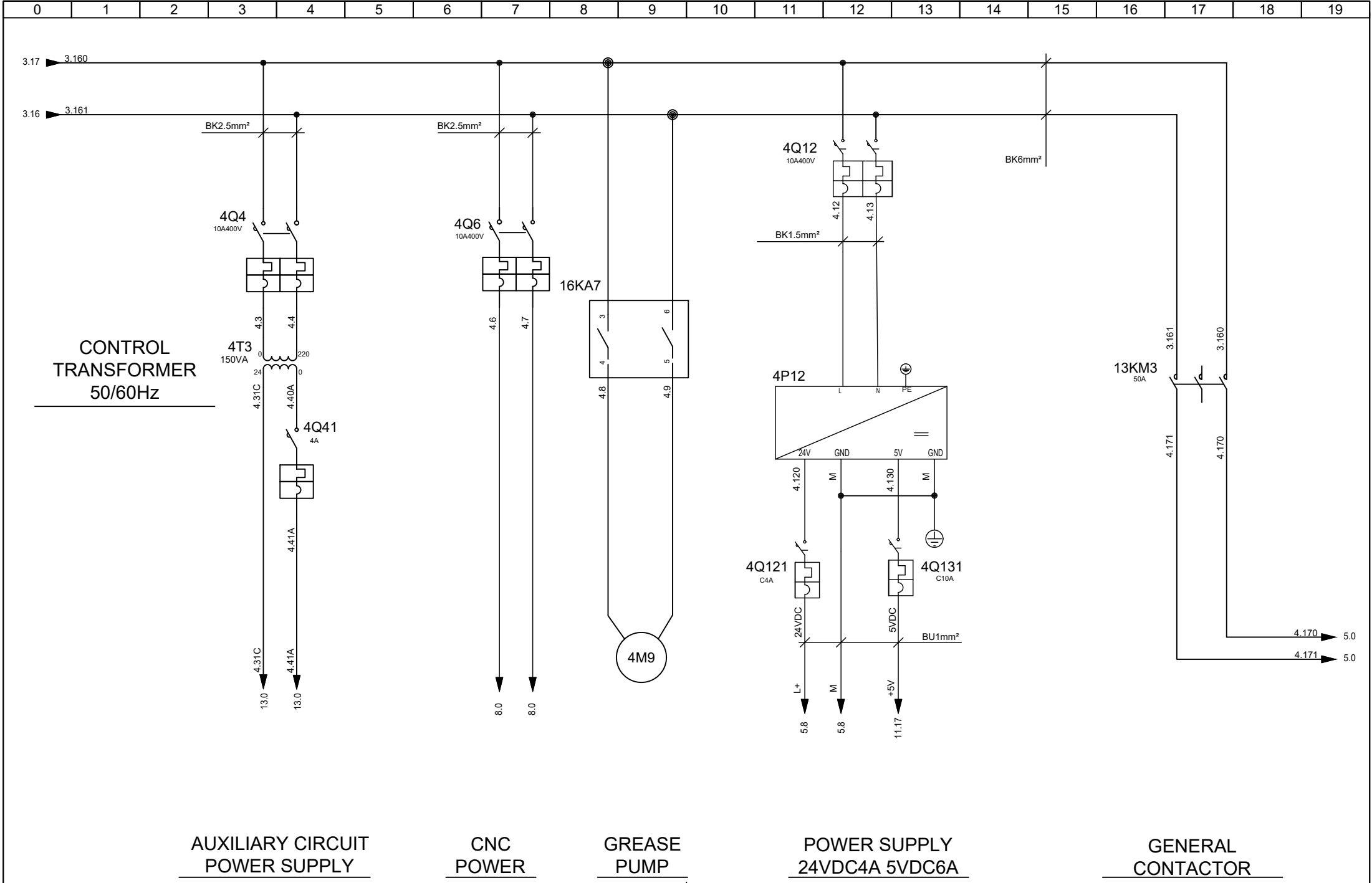


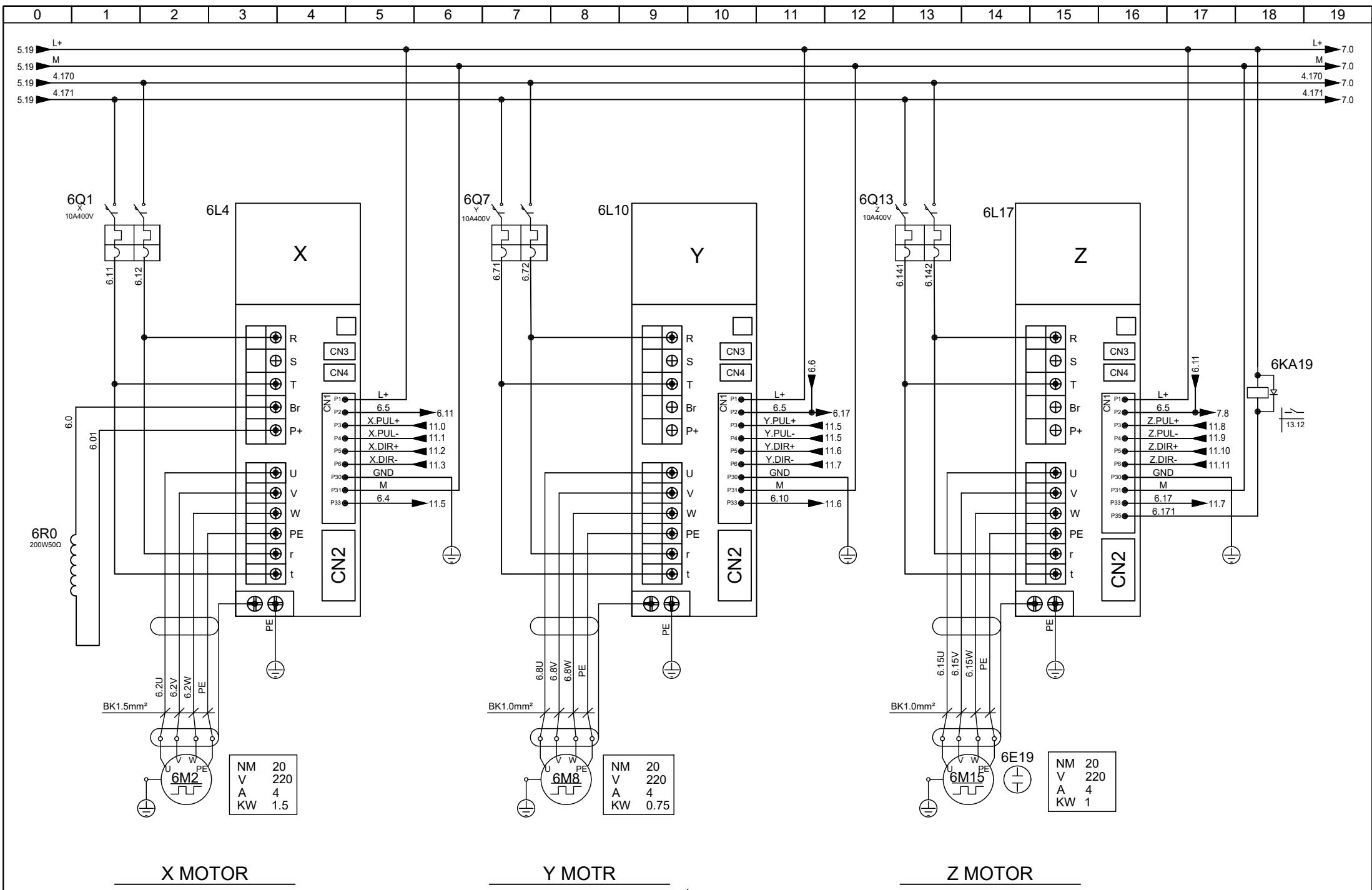
WIRE NUMBER

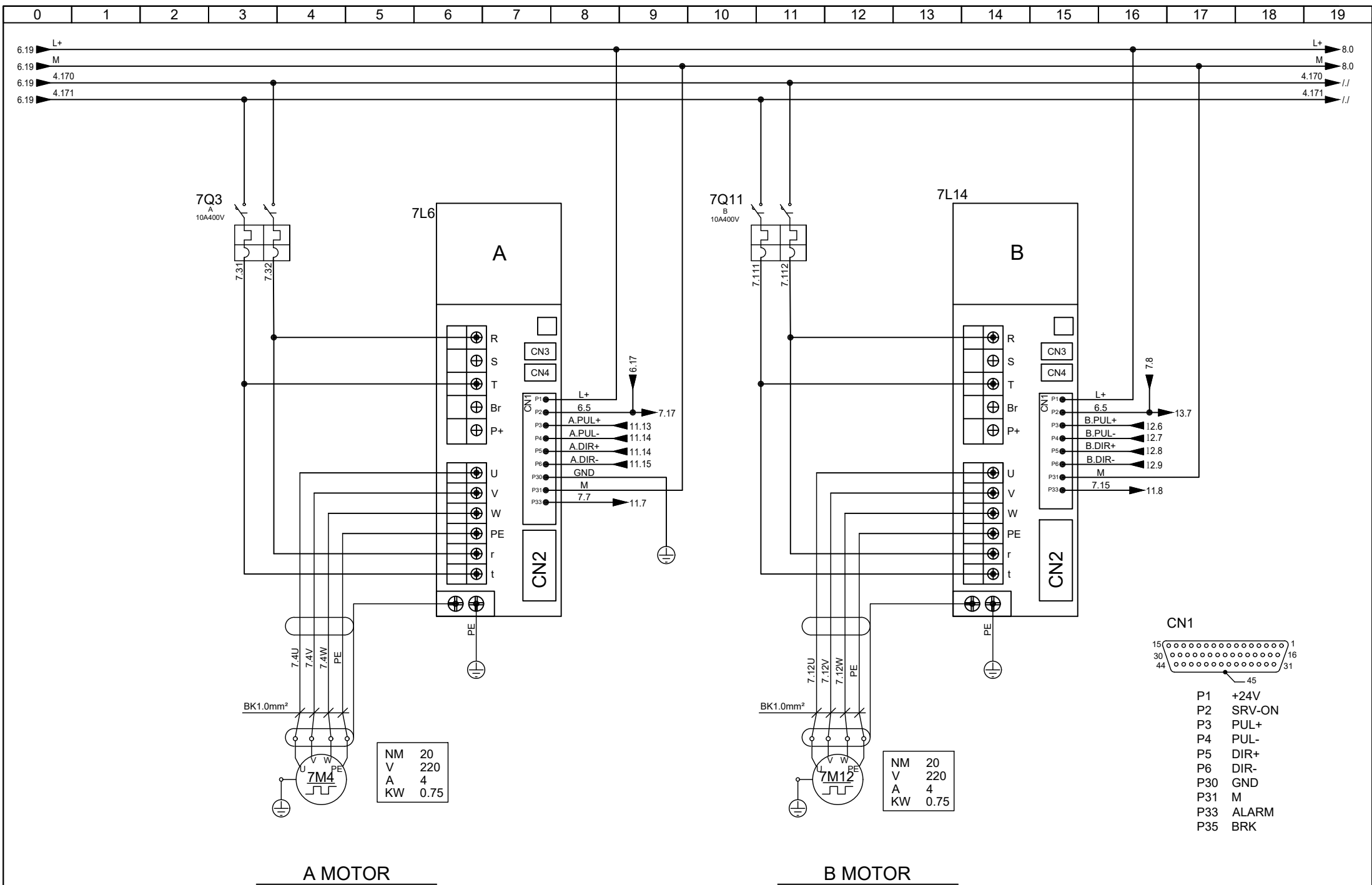


6x30 fuse terminal



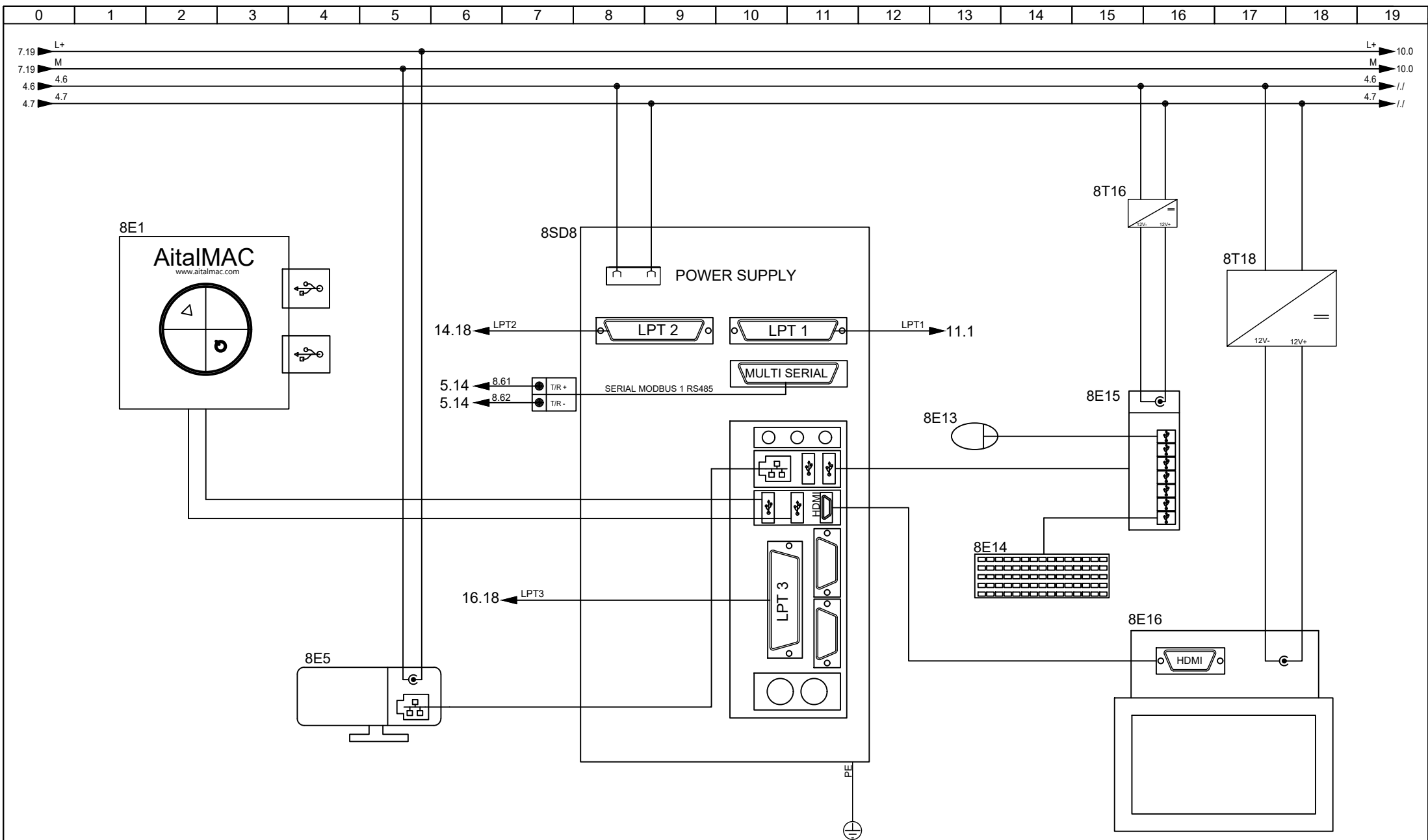






A MOTOR

B MOTOR



COMPUTER POWER
ON/OFF BUTTON

WIFI ROOT

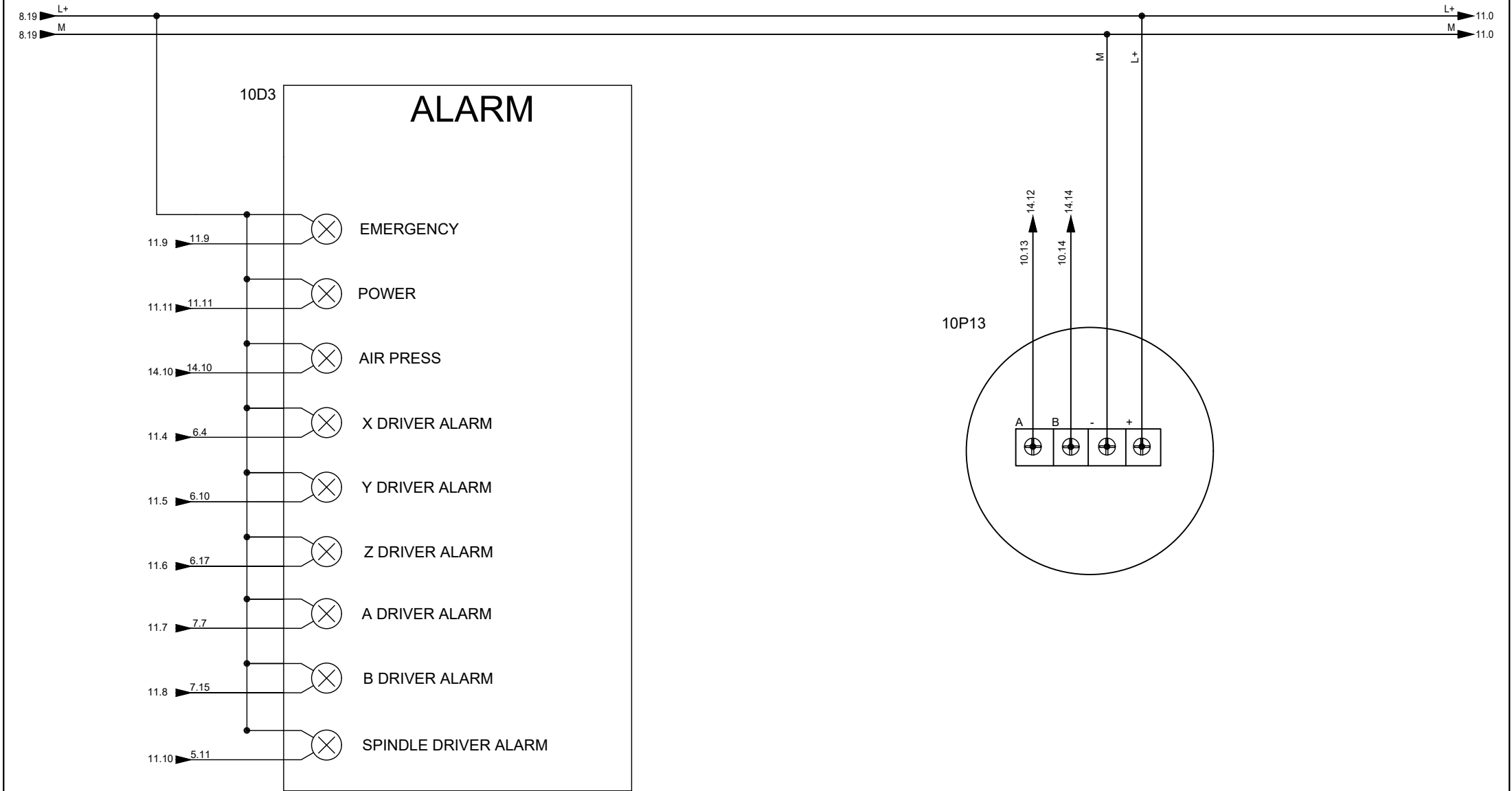
AITEK INDUSTRIAL COMPUTER
9 AXIS CNC CONTROLLER
ONLINE MONITORING SYSTEM

MOUSE&KEYBOARD
&USB-HUB

MONITOR&MONITOR
POWER SUPPLY

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

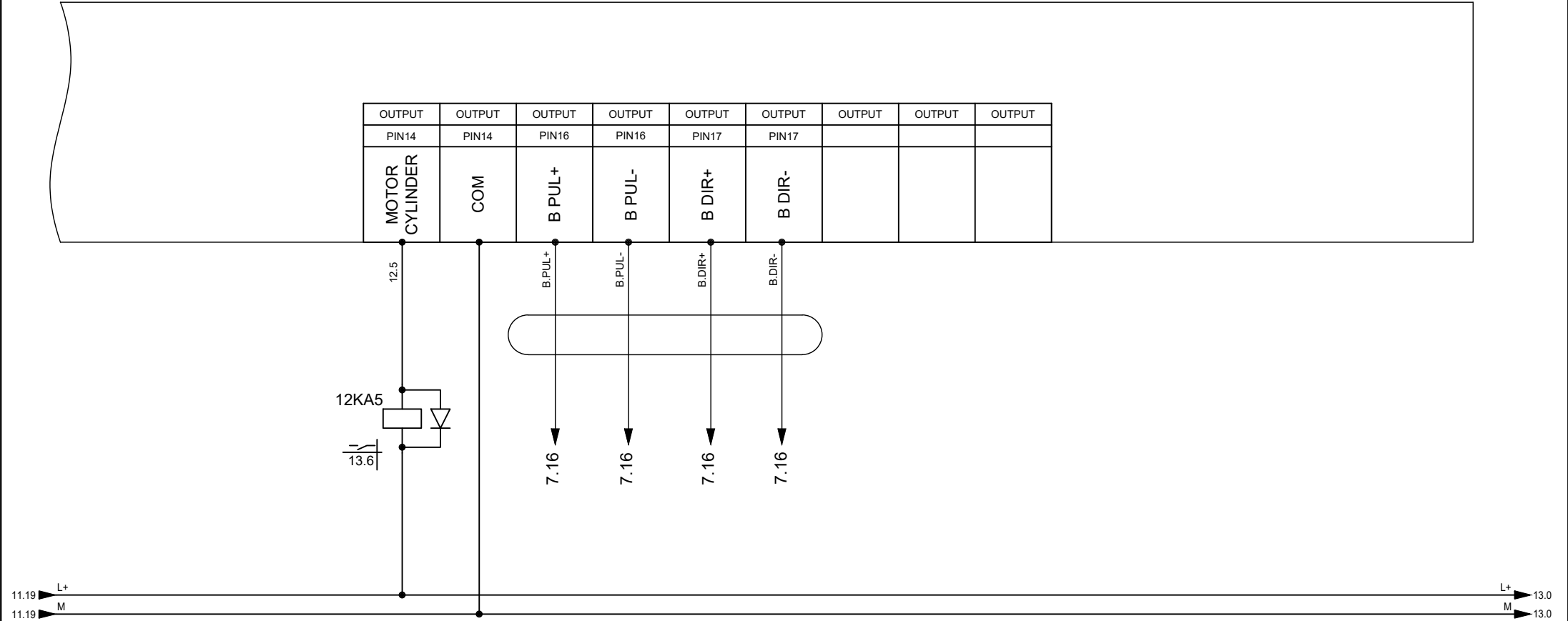
AitalMac www.aitalmac.com	Designed By : ZLJ	Checked By :	Trimness By :	Description :			
	Machine : EPR3500	Date: 11.04.2019	Revision: EPR3500-190804	Approved By :	Pag. 9	Next. 10	

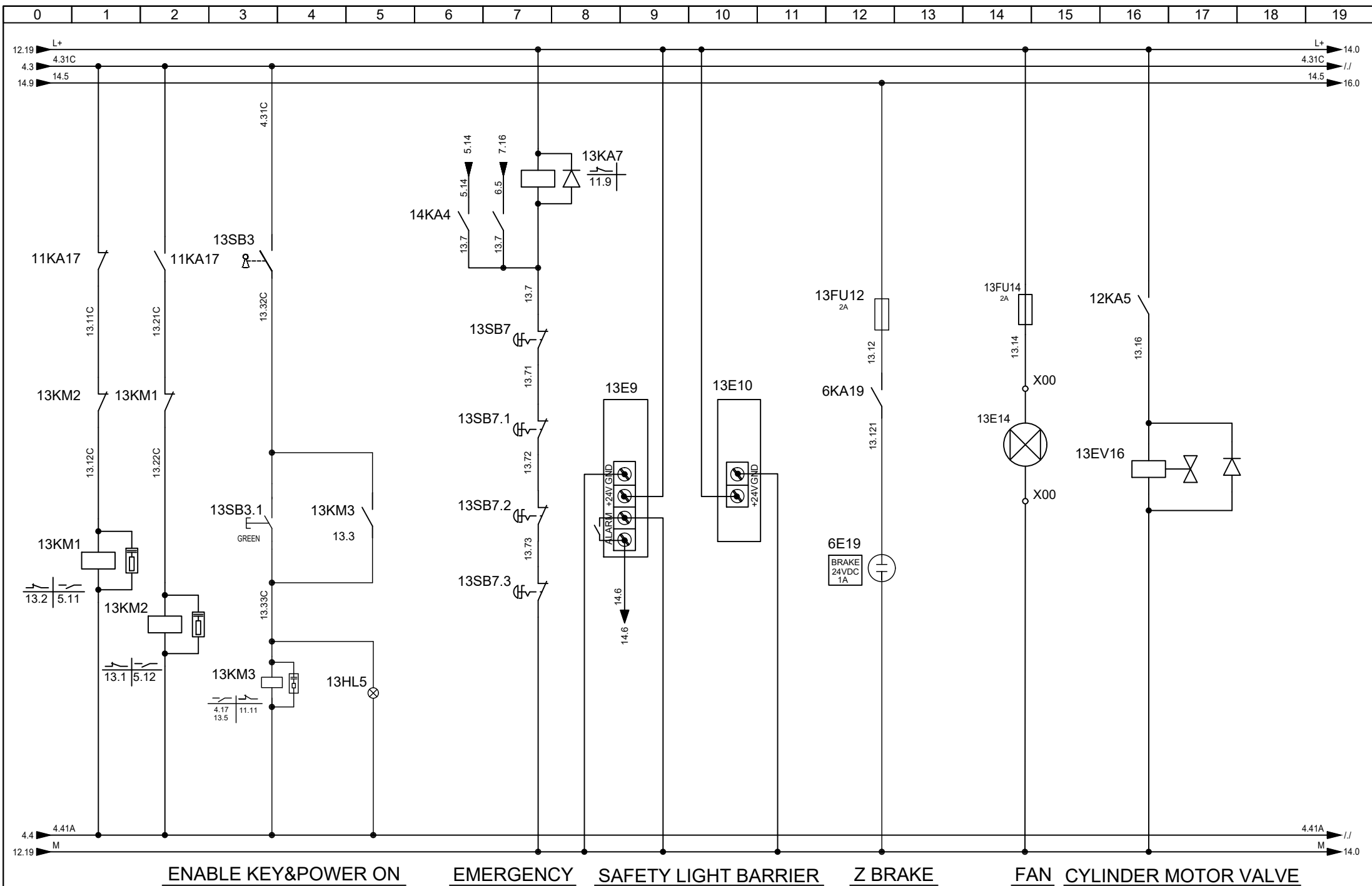


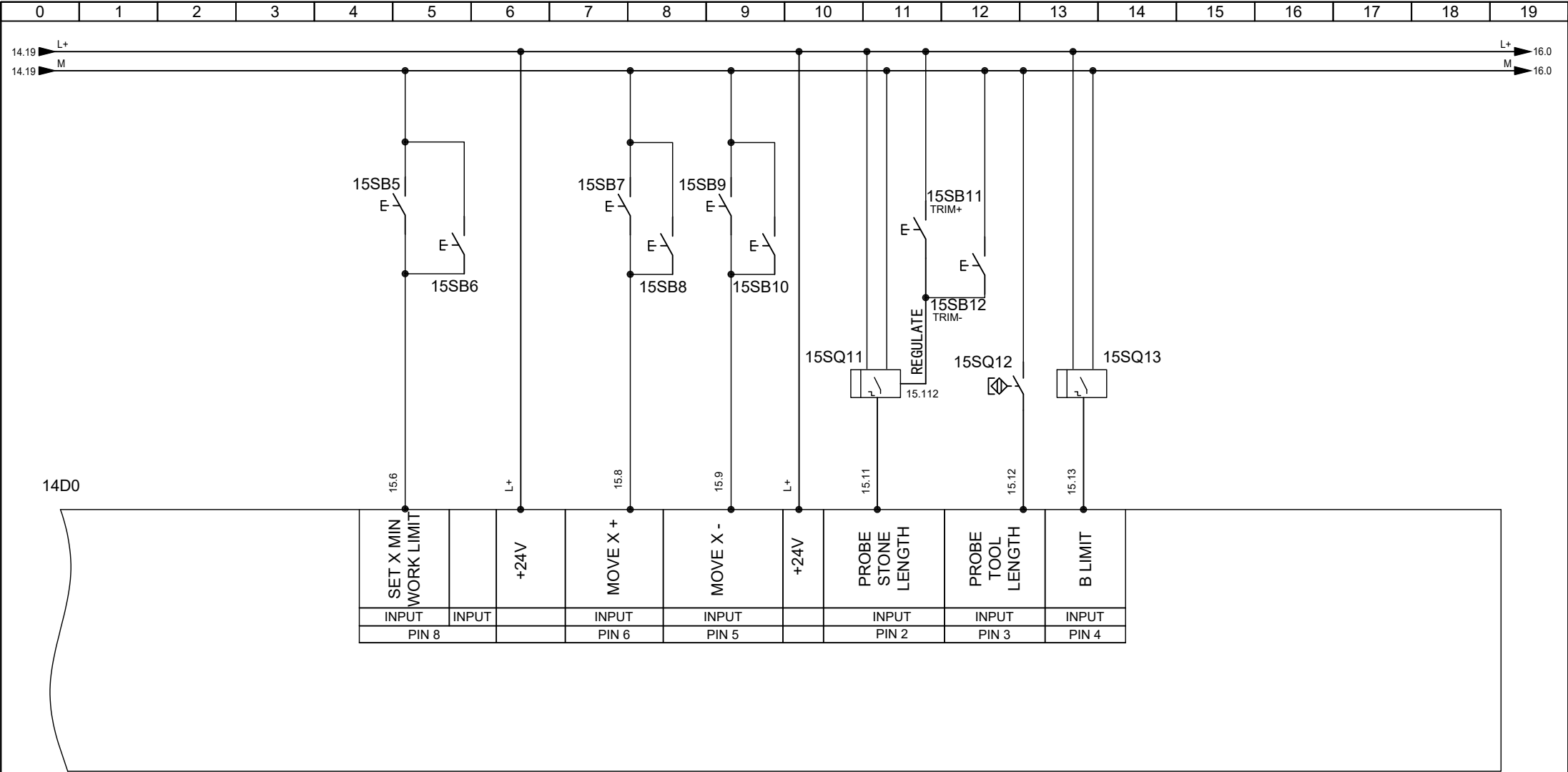
ALARM LIGHT

SPEED CONTORL
WHEEL

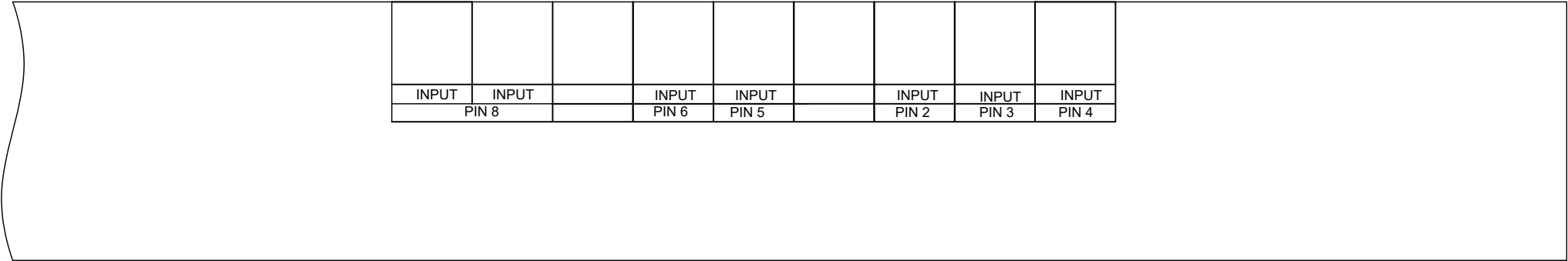
11D0

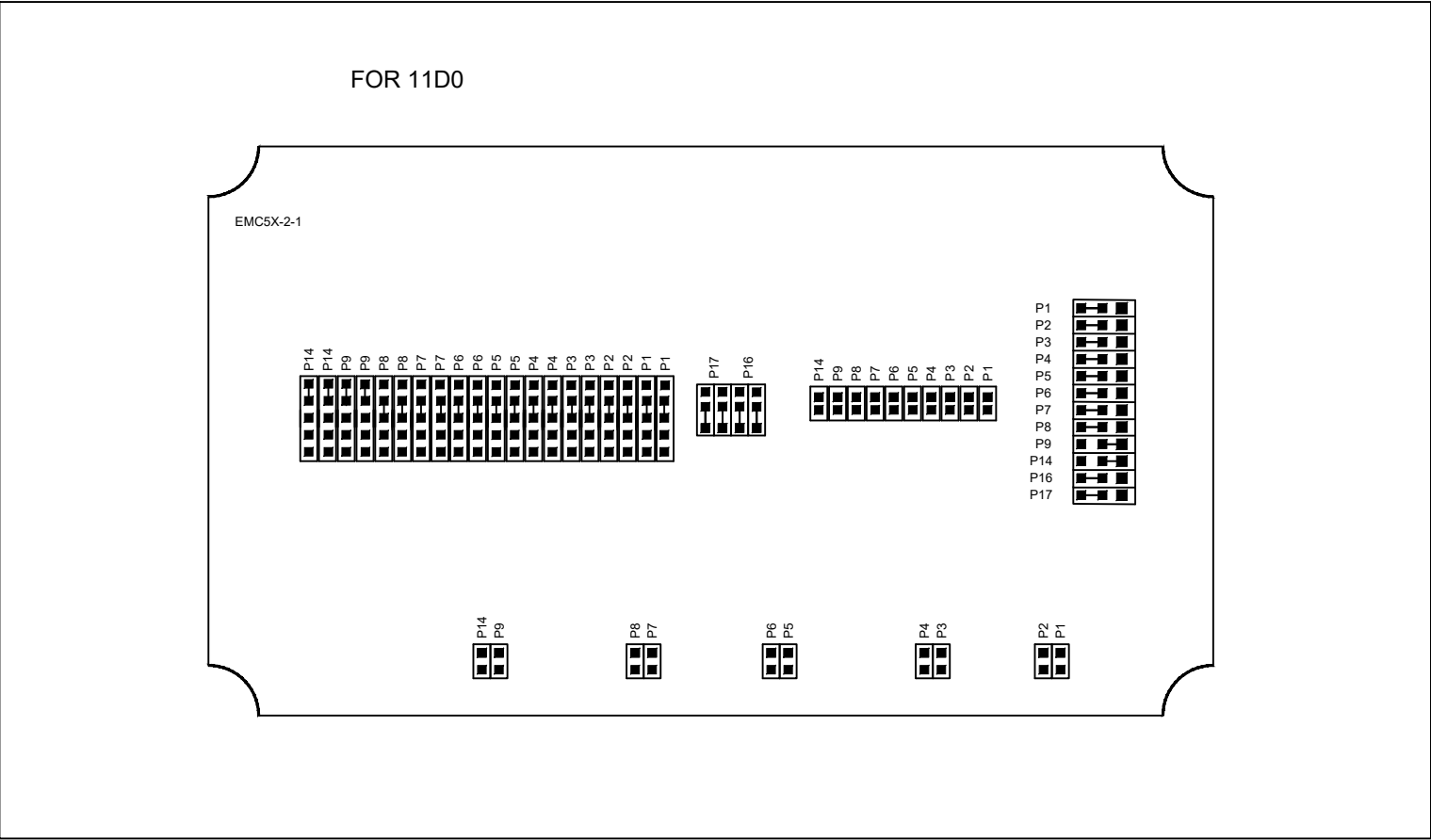






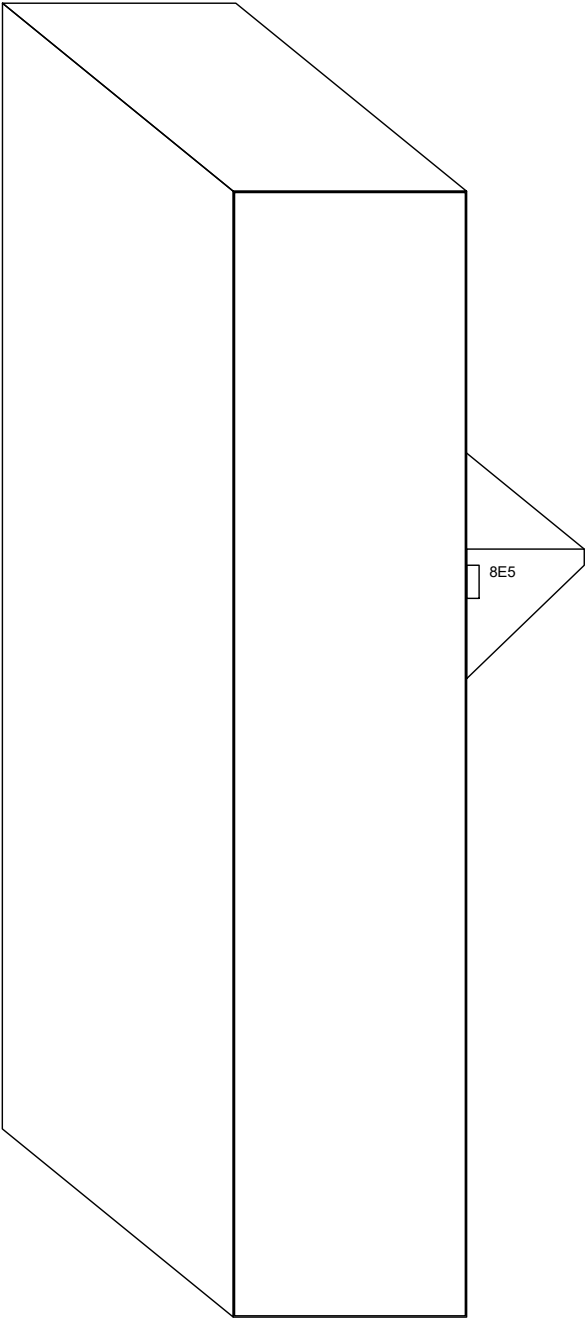
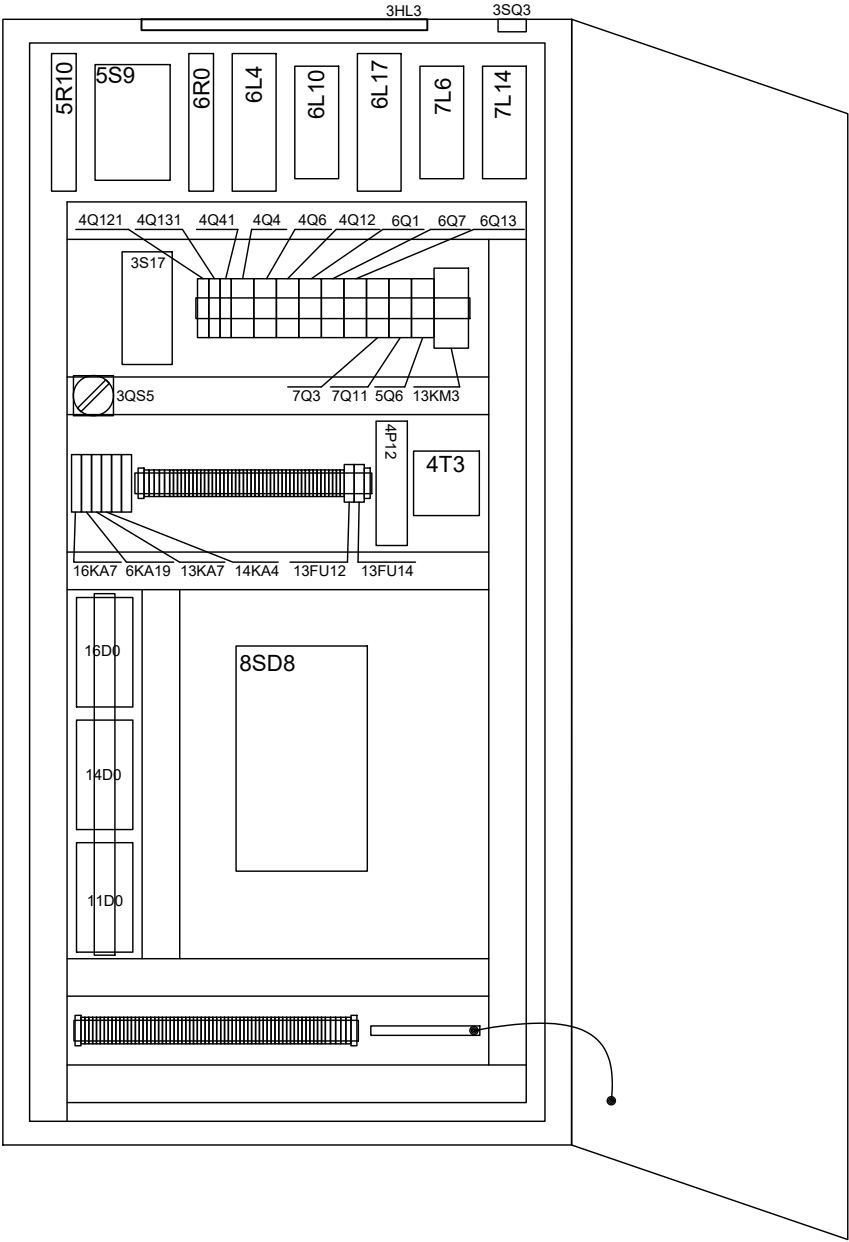
16D0





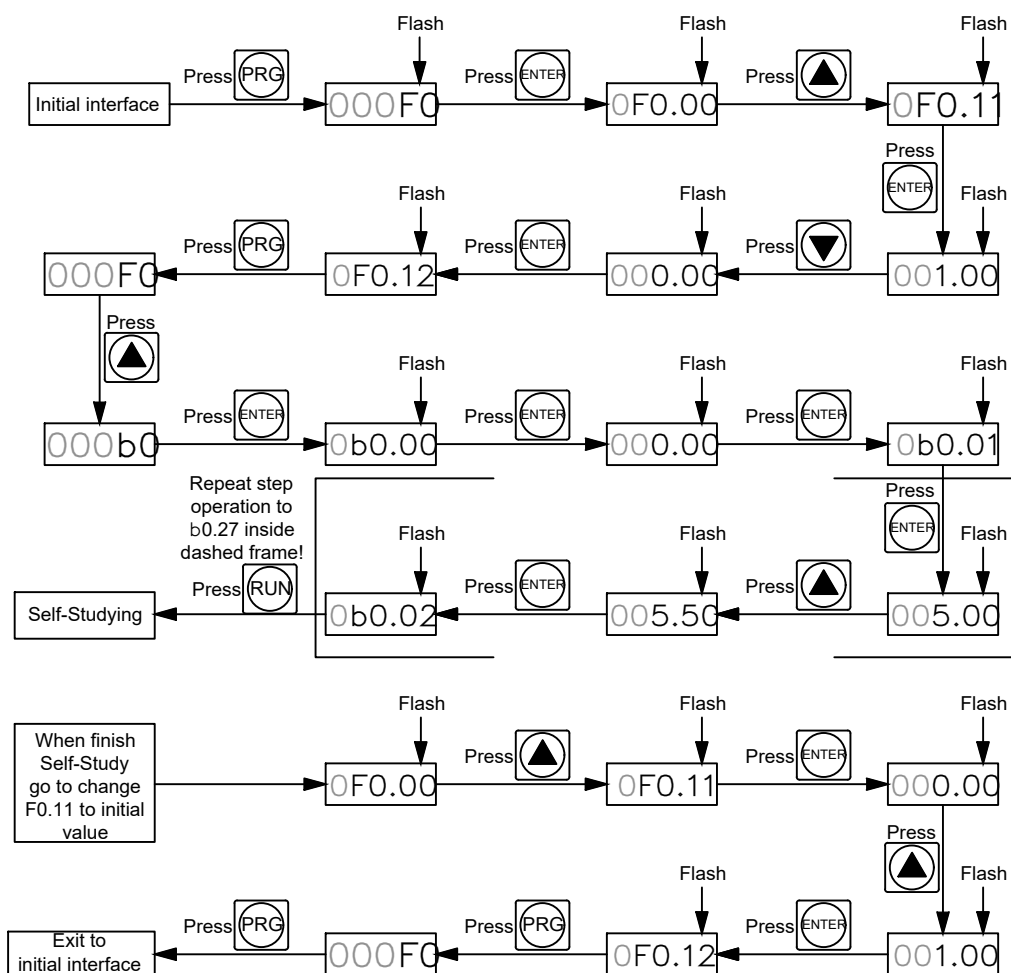
OUTPUT CONTROL CARD JUMPERS SETTING

0	1	2	3	4	5	6	7	8	9	10	11	12	13
Pg.	Code	Name	Mfrs.	Model									
3	3QS5	General Switch	GLELE	GLD11-63/08 +4P	11	11D0	LPT1 Output Card	AITEK	6AXIS-Mod-V5-OUTPUT mode				
3	3SQ3	Travel Switch	JINSHAN	LX19-001 AC380VDC220V5A	11	11SQ13	A Limit Sensor	IBEST	I PSI-12NO2B-L60mm(NPN NO 2mm 200mA)				
3	3HL3	OPEN DOOR LIGHT ON	--	--	11	11SQ14	Z Limit Sensor	IBEST	I PSI-12NO2B-L85mm(NPN NO 2mm 200mA)				
3	3P10	Volt-ammeter	OUXIN	D85-2042A AC80-300V/200-450V	11	11SQ15	Y Limit Sensor	IBEST	I PSI-12NO2B-L85mm(NPN NO 2mm 200mA)				
3	3S17	Filter	DOTHINK	DTT2121-30-S6-S47480V30A	11	11SQ16	X Limit Sensor	IBEST	I PSI-12NO2B-L60mm(NPN NO 2mm 200mA)				
4	4T3	Transformers	CHNT	NDK(BK)-150	11	11KA17	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E				
4	4Q4	Circuit Breaker	Schneider	IC65N D10A 2P	12	12KA5	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E				
4	4Q41	Circuit Breaker	Schneider	IC65N D4A 1P	13	13KM1	Contactor	Schneider	LC1D50A 50A				
4	4Q6	Circuit Breaker	Schneider	IC65N D10A 2P	13	13KM2	Contactor	Schneider	LC1D50A 50A				
4	4M9	Grease Pump Motor	ML	MYK-202-200-0 15W/220V 2L	13	13SB3	Enable Key Switch	RENY	RBSNK-2				
4	4Q12	Circuit Breaker	Schneider	IC65N D10A 2P	13	13SB3.1	Power On Button	RENY	R2PIF-1D-2GL				
4	4P12	Power Supply	WEHO	D-120B	13	13KM3	Contactor	Schneider	LC1D50A 50A				
4	4Q121	Circuit Breaker	Schneider	C65H-DC C4A 1P	13	13KA7	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E				
4	4Q131	Circuit Breaker	Schneider	C65H-DC C4A 1P	13	13SB7	Emergency Stop Button	Schneider	XALJ01C+ZB2-BE102C 1NC AC15/240V-3A				
4					13	13SB7.1	Emergency Stop Button	Schneider	XALJ01C+ZB2-BE102C 1NC AC15/240V-3A				
5	5Q6	Circuit Breaker	Schneider	IC65N D10A 2P	13	13SB7.2	Emergency Stop Button	RENY	R2PNR4D-1B-R R9C01VN 1NC AC15/DC13				
5	5S9	Frequency Converter	POWTRAN	PI9130A 2R2G1 2.2KW	13	13SB7.3	Emergency Stop Button	Schneider	XALJ01C+ZB2-BE102C 1NC AC15/240V-3A				
5	5R10	Braking Resistor	RXLG	300W100Ω	13	13E9	Safety Light Barrier/T	ANLIAN	AB110-482 6L 10M				
5	5M11	Spindle Motor	POWTRAN	--	13	13E10	Safety Light Barrier/R	ANLIAN	AB110-482 6L 10M				
5	5M12	Motor 2	- -	--	13	13FU12	Fuse	CHE	FS-101 DC24V 2A				
6	6R0	Braking Resistor	RXLG	200W50Ω	13	13FU14	Fuse	CHE	FS-101 DC24V 2A				
6	X 6Q1	Circuit Breaker	Schneider	IC65N D10A 2P	13	13E14	FAN	PAPST	TYP4114N/12MR 24V 6W 12CM				
6	6M2	X Motor	Leadshine	ACM13015M2F-71-E 1.5KW	13	13EV16	Cylinder Valve	CNSY	4V210-08 G1/4 DC24V				
6	6L4	X Servo Drive	Leadshine	L5-1500Z	14	14D0	LPT2 Input Card	AITEK	6AXIS-Mod-V5-INPUT mode				
6	Y 6Q7	Circuit Breaker	Schneider	IC65N D10A 2P	14	14SQ2	WATER FLOW SENSOR	MJ	HZ41C 0.15-1.5L/MIN 24V				
6	6M8	Y Motor	Leadshine	--	14	14KA4	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E				
6	6L10	Y Servo Drive	Leadshine	L5-750Z	14	14EV7	FRONT HIGH PRESS	SUNRISE	AR-200				
6	Z 6Q13	Circuit Breaker	Schneider	IC65N D10A 2P	14	14SQ8	CYLINDER SENSOR	CHVIRD	CS1-U				
6	6M15	Z Motor	Leadshine	ACM8010M2H-51-B 1KW BREAK	14	14EV9	FRONT LOW PRESS	SUNRISE	AR-200				
6	6L17	Z Servo Drive	Leadshine	L5-1000Z	14	14QS10	AIR PRESSURE	SQW	QPM11-NC				
6	6KA19	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E	14	14EV11	WATER ON	CNSY	4V210-08 G1/4 DC24V				
6	6E19	Z MOTOR BRAKE	Leadshine	--	14	14SB16	SET STONE X MAX WORK LIMIT	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC				
7	A 7Q3	Circuit Breaker	Schneider	IC65N D10A 2P	14	14SB17	SET STONE X MAX WORK LIMIT	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC				
7	7M4	A Motor	Leadshine	--	15	15SB5	SET STONE X MIN WORK LIMIT	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC				
7	7L6	A Servo Drive	Leadshine	L5-750Z	15	15SB6	SET STONE X MIN WORK LIMIT	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC				
7	B 7Q11	Circuit Breaker	Schneider	IC65N D10A 2P	15	15SB7	MOVE X +	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC				
7	7M12	B Motor	Leadshine	--	15	15SB8	MOVE X +	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC				
7	7L14	B Servo Drive	Leadshine	L5-750Z	15	15SB9	MOVE X -	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC				
7					15	15SB10	MOVE X -	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC				
8	8E1	Computer Power On/Off	Aitalmac	--	15	15SQ11	PROBE STONE LENGTH SENSOR	JINCI	NU200F18TR-1MD NPN 50-1000mm 7°				
8	8E5	WiFi Root	LEGUANG	LG-A305 150MCPE	15	15SB11	LENGTH SENSOR TRIM+	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC				
8	8SD8	CNC CONTROL BOX	AITEK	EPR3500-190804	15	15SB12	LENGTH SENSOR TRIM-	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC				
8	8E13	USB-Mouse	Lenovo	M300	15	15SQ12	PROBE TOOL LENGTH SENSOR	CNTD	CMV104D 1NC 1NO				
8	8E14	USB-Keyboard	Logitech	K310	15	15SQ13	B LIMIT SENSOR	IBEST	I PSI-12NO2B-L60mm(NPN NO 2mm 200mA)				
8	8E15	USB-HUB	ORICO	A3H7-bk	15								
8	8E16	Touch Monitor	Anmite	AN-104A02CM	16	16D0	LPT3 COM Card	AITEK	RS232-Mod-V1 4IN/3OUT				
8	8T16	Power Adapter	UGREEN	--	16	16EV5	CYLINDER BACK SOLENOID VALVE	AIRTAC	3V210-08 DC24V NO				
8	8T18	Power Adapter	Anmite	--	16	16KA7	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E				
10	10D3	ALARM	--	EPR	16	16EV9	MOTOR COVER SOLENOID VALVE	CNSY	3V210-08 G1/4 DC24V				
10	10P13	Speed Control Wheel	AITEK	EPR 4P	16	16EV11	PALLET COVER SOLENOID VALVE	CNSY	4V210-08 G1/4 DC24V				



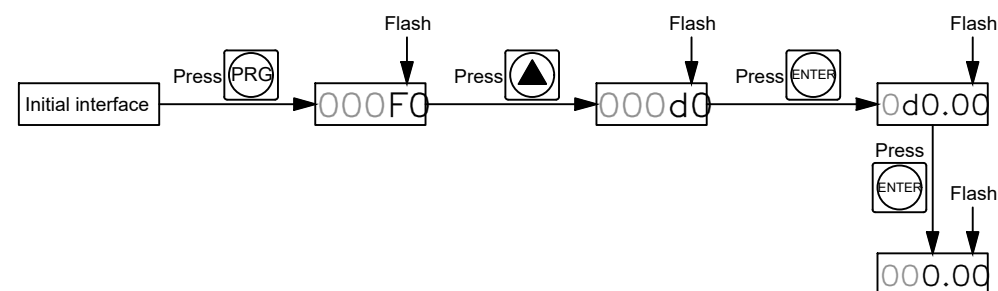
Motor Self-Study

F0.11=0 b0.03=9.8
 b0.00=0 b0.04=60
 b0.01=2.2 b0.05=1710
 b0.02=220 b0.27=2



Monitoring Function

d0.00 Output Frequency
 d0.01 Input Frequency
 d0.14 Motor Speed
 d0.18 High speed pulse input frequency



Inverter Parameter

Name	Range	Default	Units
F0.00	0,1,2	2	
F0.01	0.00Hz~F0.19(MAX)	1000	Hz
F0.02	1:0.1Hz,2:0.01Hz	1	
F0.03	0~9	9	
F0.04	0~9	0	
F0.11	0,1,2,3,4	1	
F0.13	0.0s~6500s	15	
F0.14	0.0s~6500s	15	
F0.18	0.5k~16k	10K	Hz
F0.19	50.00Hz~3200.00Hz	1000.00	Hz
F1.04	-	30	
F9.00		6005	9600BPS
F9.01	0~3	3	(8-N-1)
F9.02	1~250	6	
F9.05	0~3	1	MODBUS
F9.07		0	MODBUS

Servo Driver Parameter

Name	Range	X	Y	Z	A	B
PA-003		13	13	13	13	13
PA-004		750	750	800	800	450
PA-006	0/1	0	0	0	0	0
PA-016		50				
PA-017		200				
PA-222		1000	1000	1000	1000	1000
PA-410	101-181	181	181	181	181	181
PA-529		53	53	53	53	53
PA-531	1-256	1	2	3	4	5