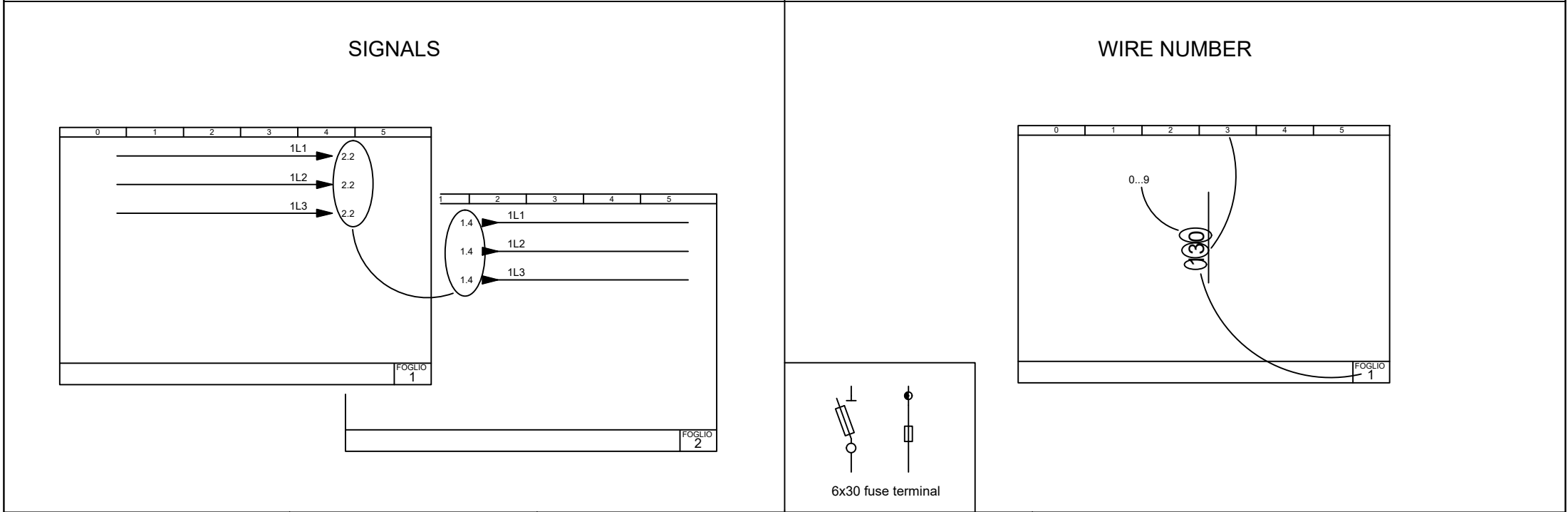
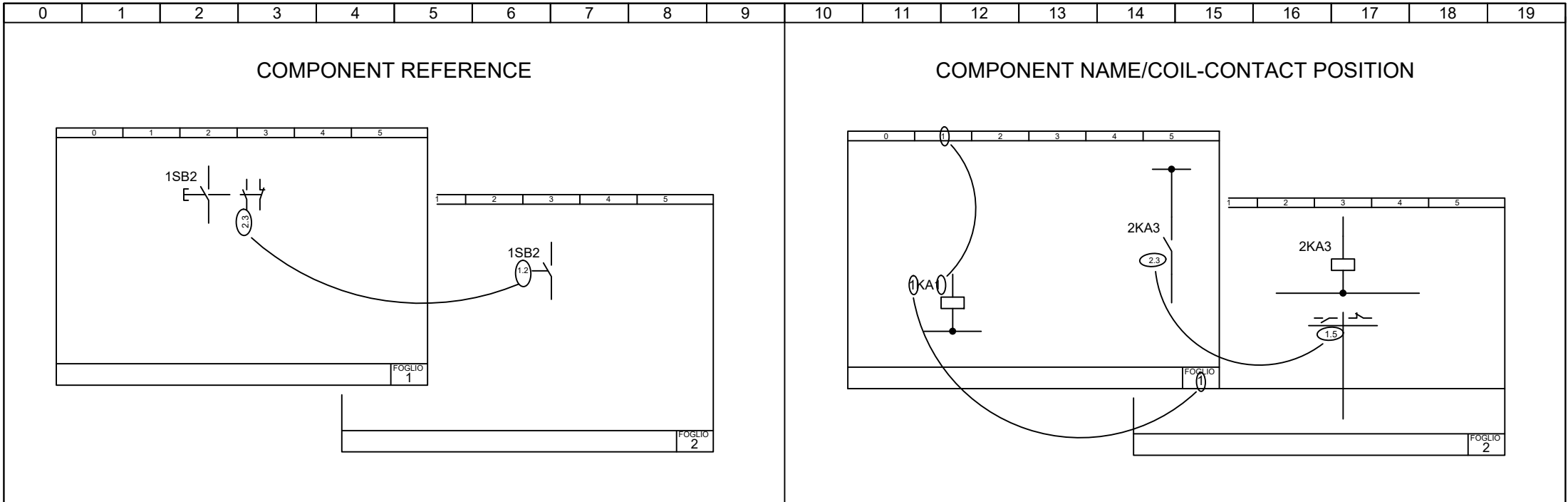
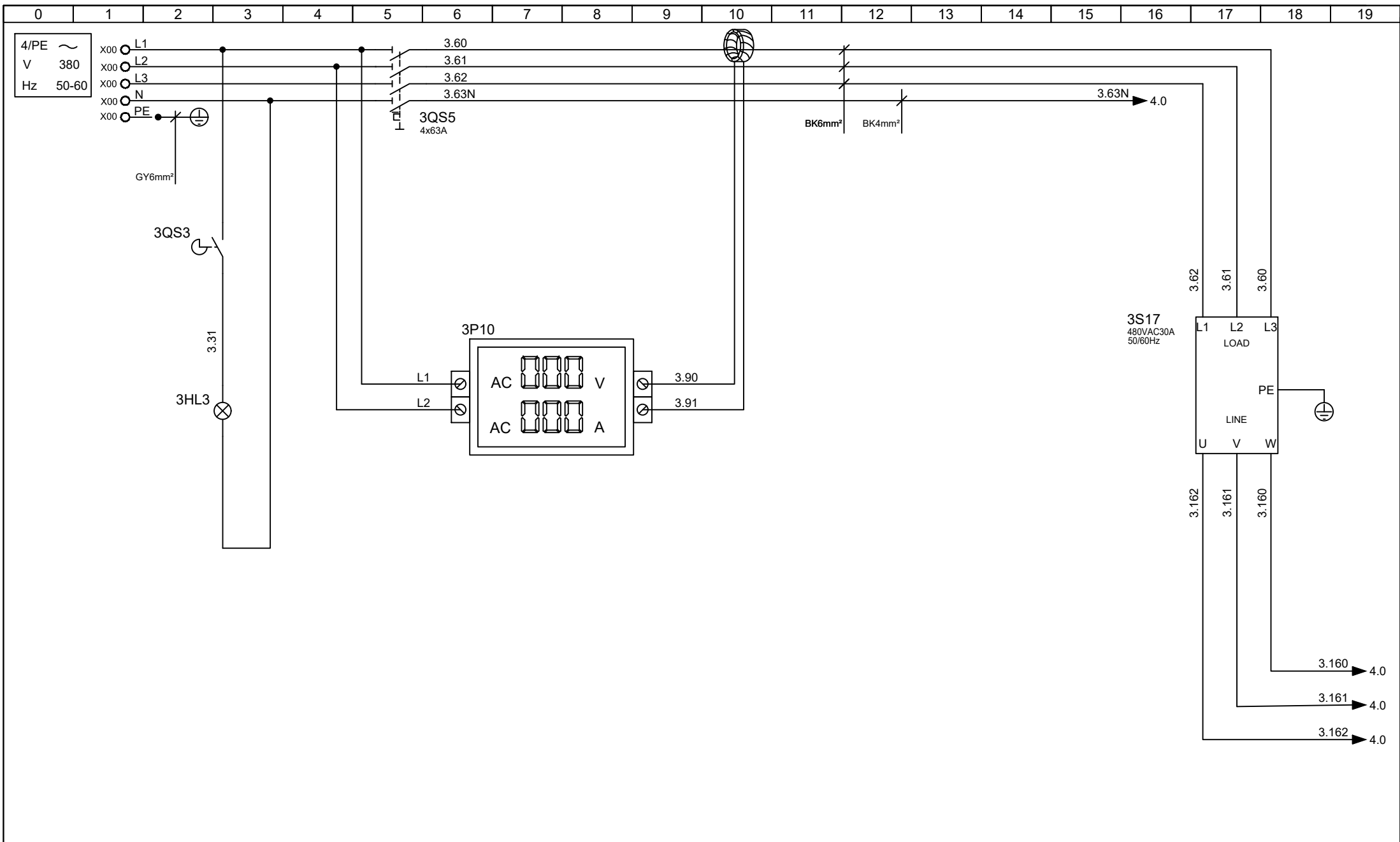


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AITALMAC Heng Sheng Road , Gao Chun Economic Development Zone , NANJING,211300 P.R.CHINA										LOCATION SYMBOLS ☐ Components on the door ☐ Components inside the cubicle (usually omitted) ☐ Machine components (usually omitted)				COMPONENTS DESIGNATION 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. 380 FREQ. 50-60																																						
WIRING DIAGRAM					CUBICLE DIMENSION																																						
EPR3500-240903					L (mm) 1835 H (mm) 560 P (mm) 320																																						
CONDUCTORS DESIGNATION <table><thead><tr><th>COLOR</th><th>FUNCTION</th><th>MINIMUM SECTION</th></tr></thead><tbody><tr><td>BLACK</td><td>power circuit A.C./D.C.</td><td>1,5mm²</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></tbody></table>										COLOR	FUNCTION	MINIMUM SECTION	BLACK	power circuit A.C./D.C.	1,5mm²	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 GY Gray YE Yellow BU Blue RD Red BK Black OG Orange GNYE GreenYellow GN Green				MAIN CIRCUIT BREAKER OPERATING TIME: _____ SYMMETRICAL SHORT-CIRCUIT CURRENT: _____					
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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			Approved By :			Pag. 1	Next. 2																								
Machine : EPR3500						Date: 09.10.2024			Revision: EPR3500-240903																																		

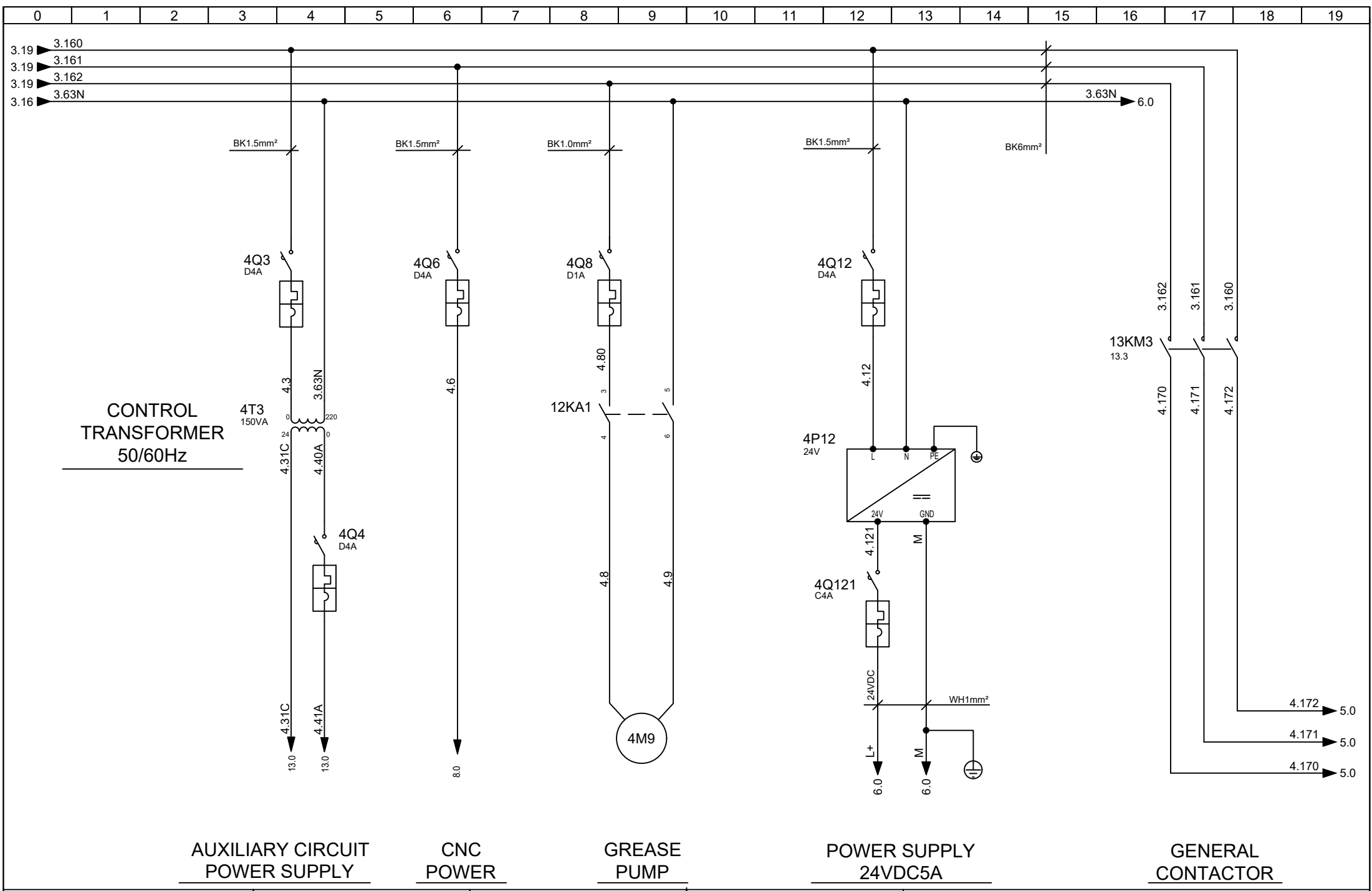


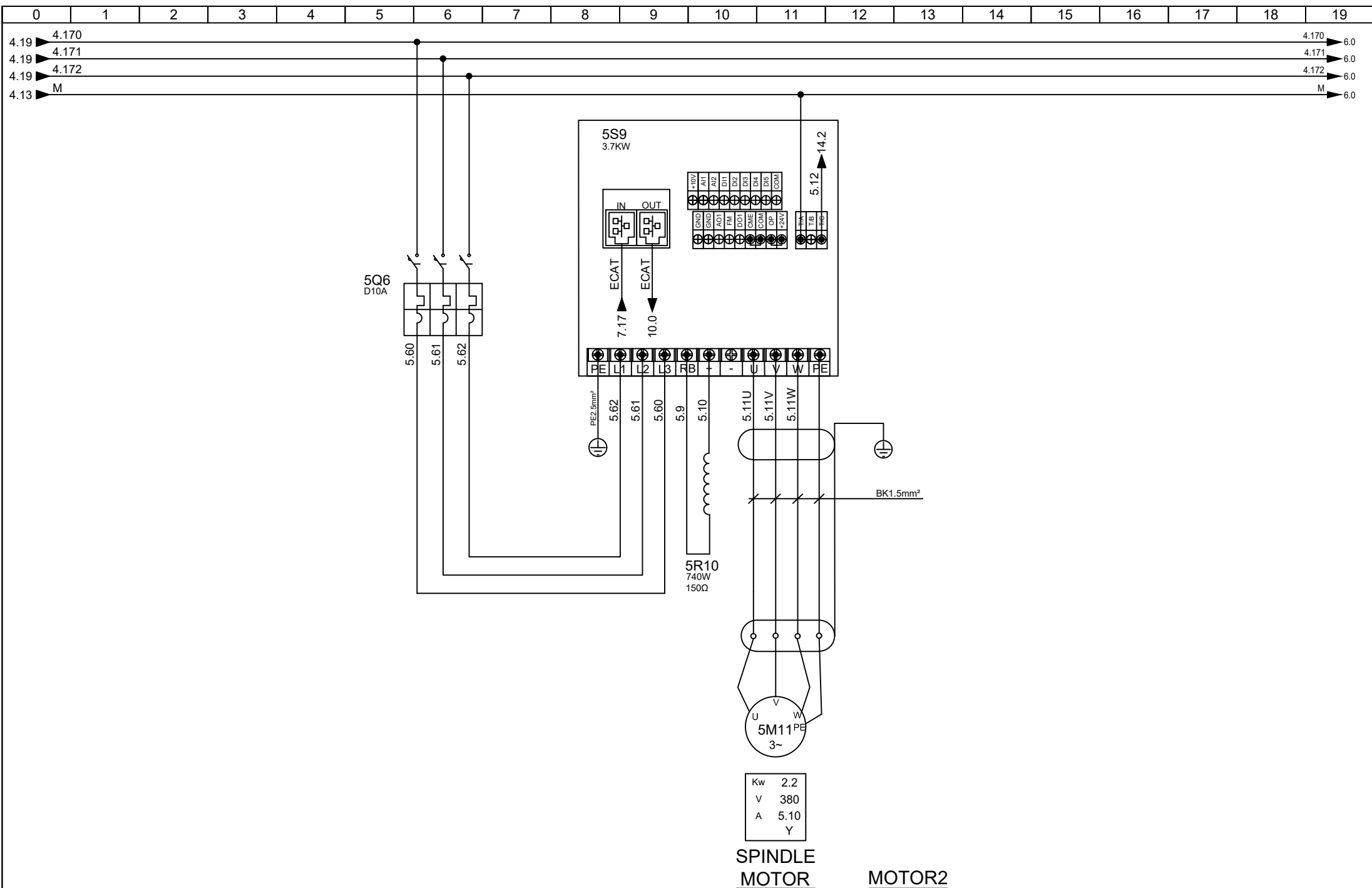


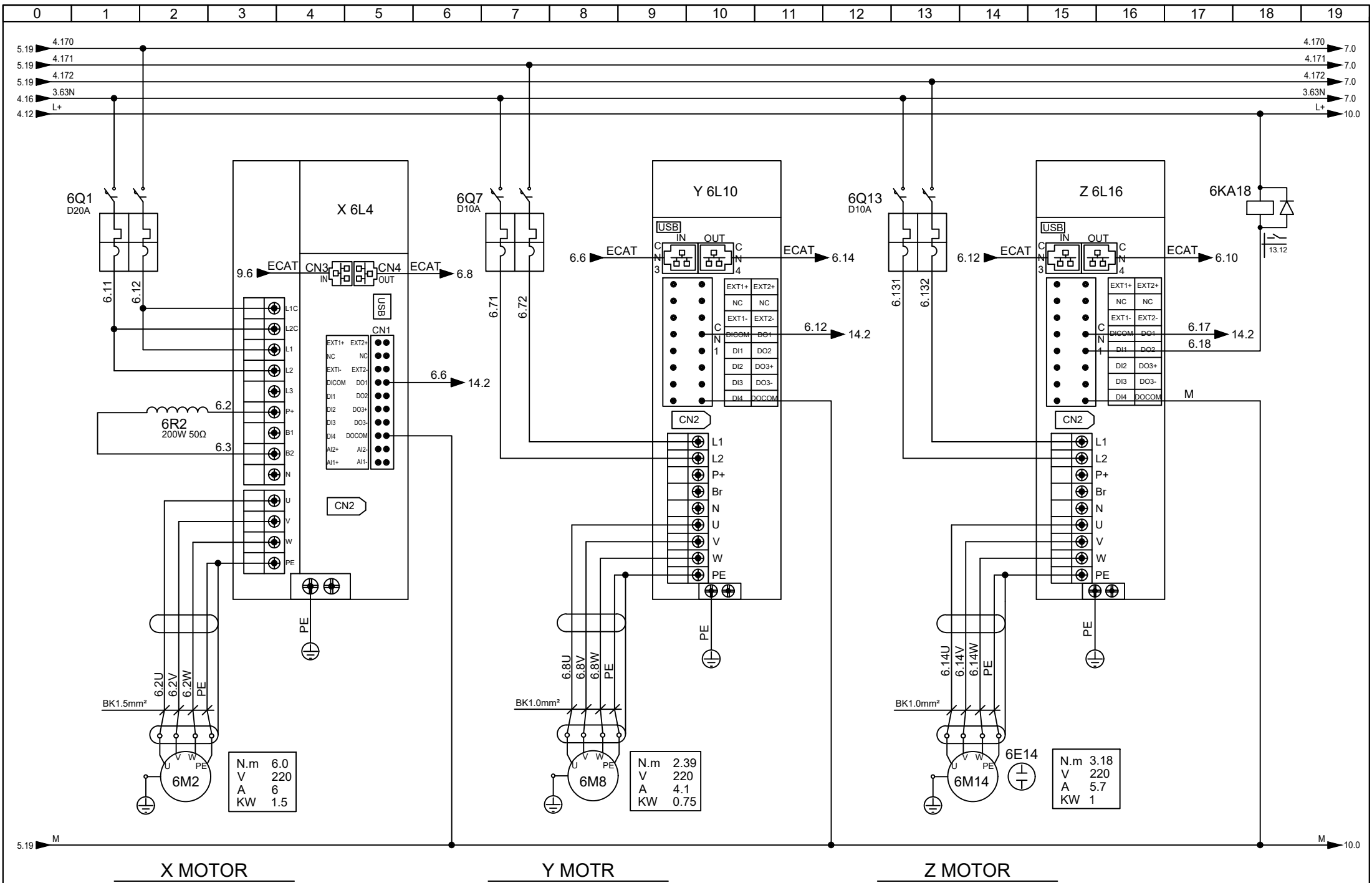
GENERAL
SWITCH

VOLT & AMPERE
DISPLAY

FILTER







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Designed By :

ZLJ

Checked By :

Trimness By :

Description :

ECAT NO.0~2 DRIVERS

Machine :

EPR3500

Date:

09.10.2024

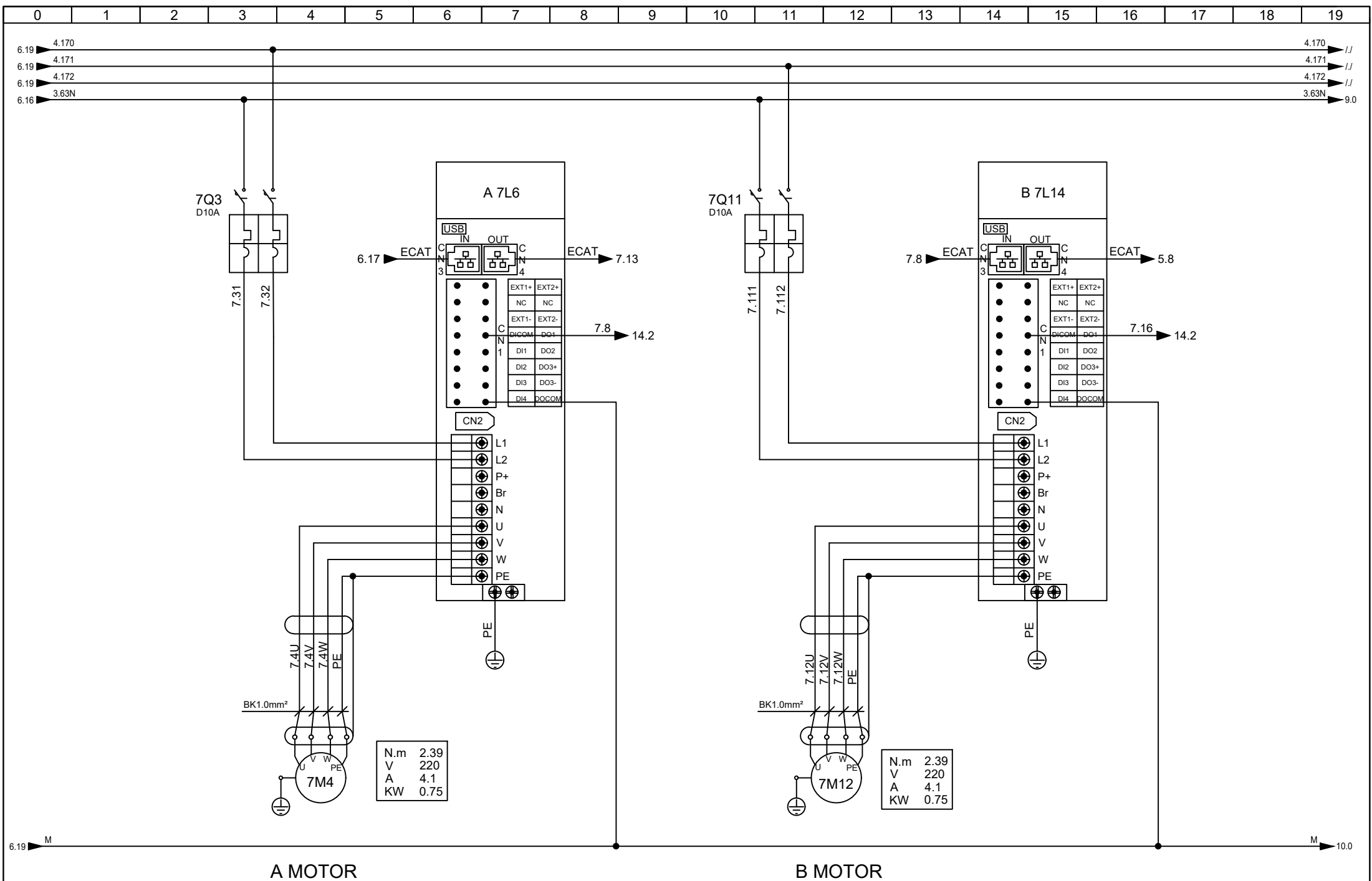
Revision:

EPR3500-240903

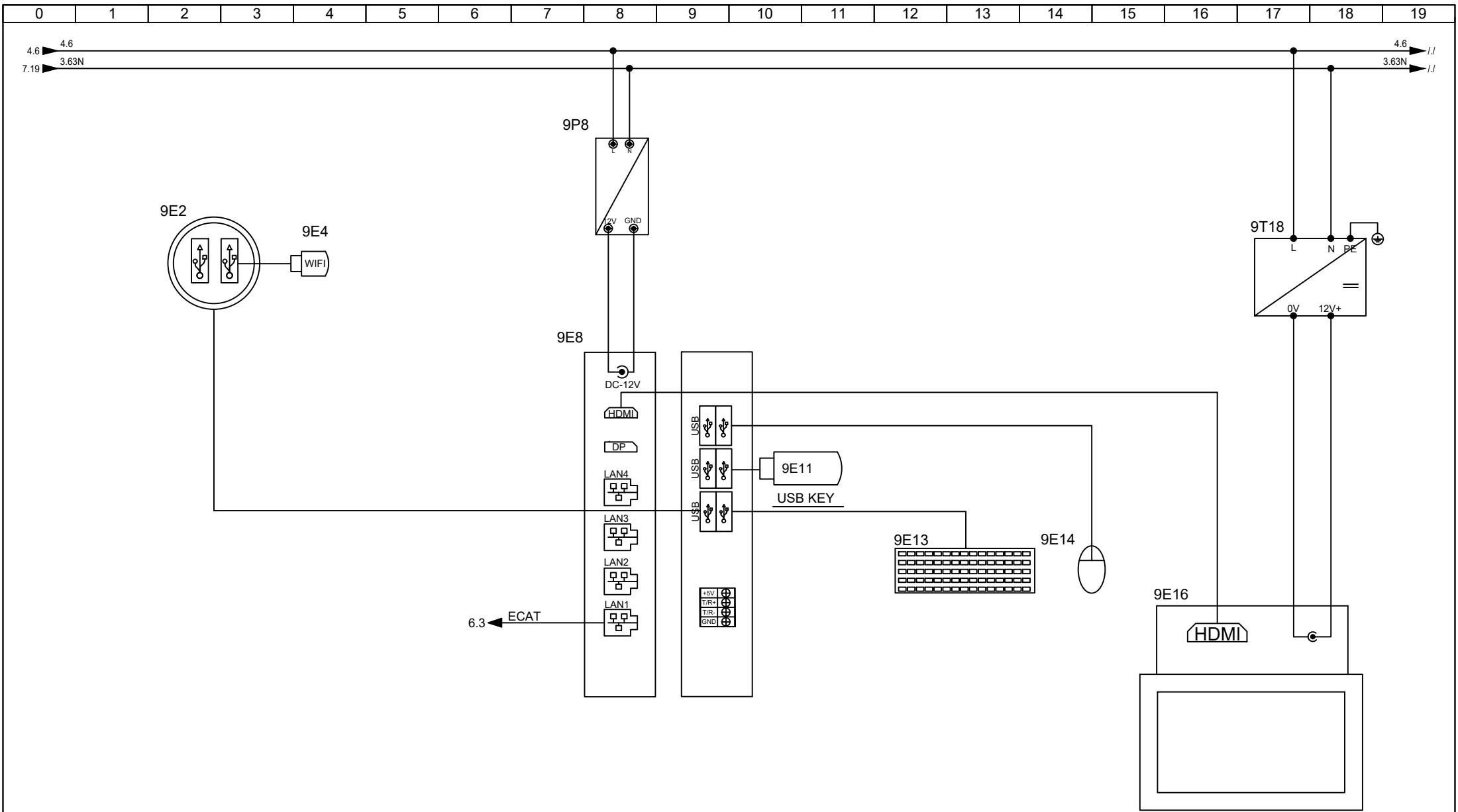
Approved By :

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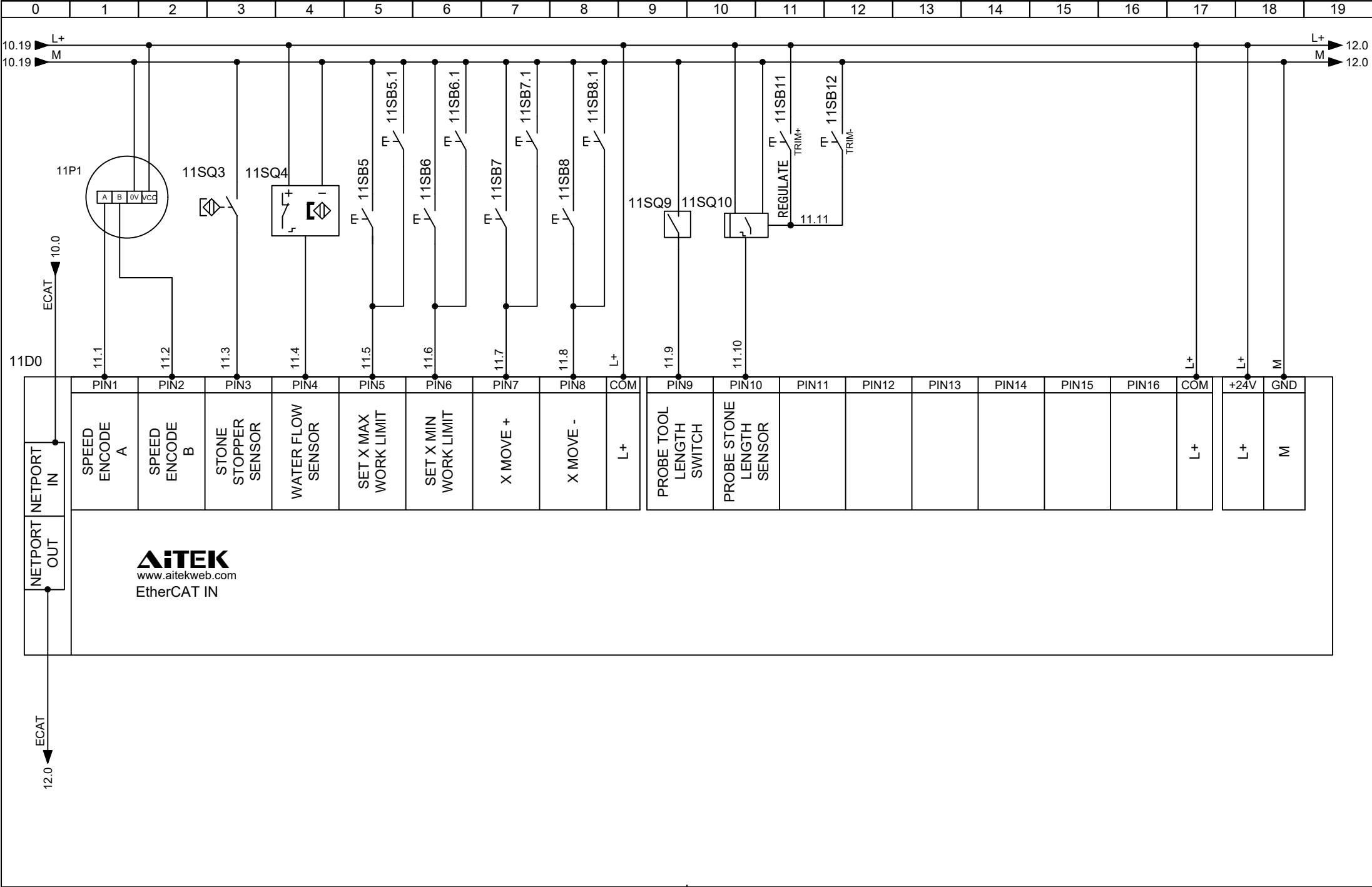
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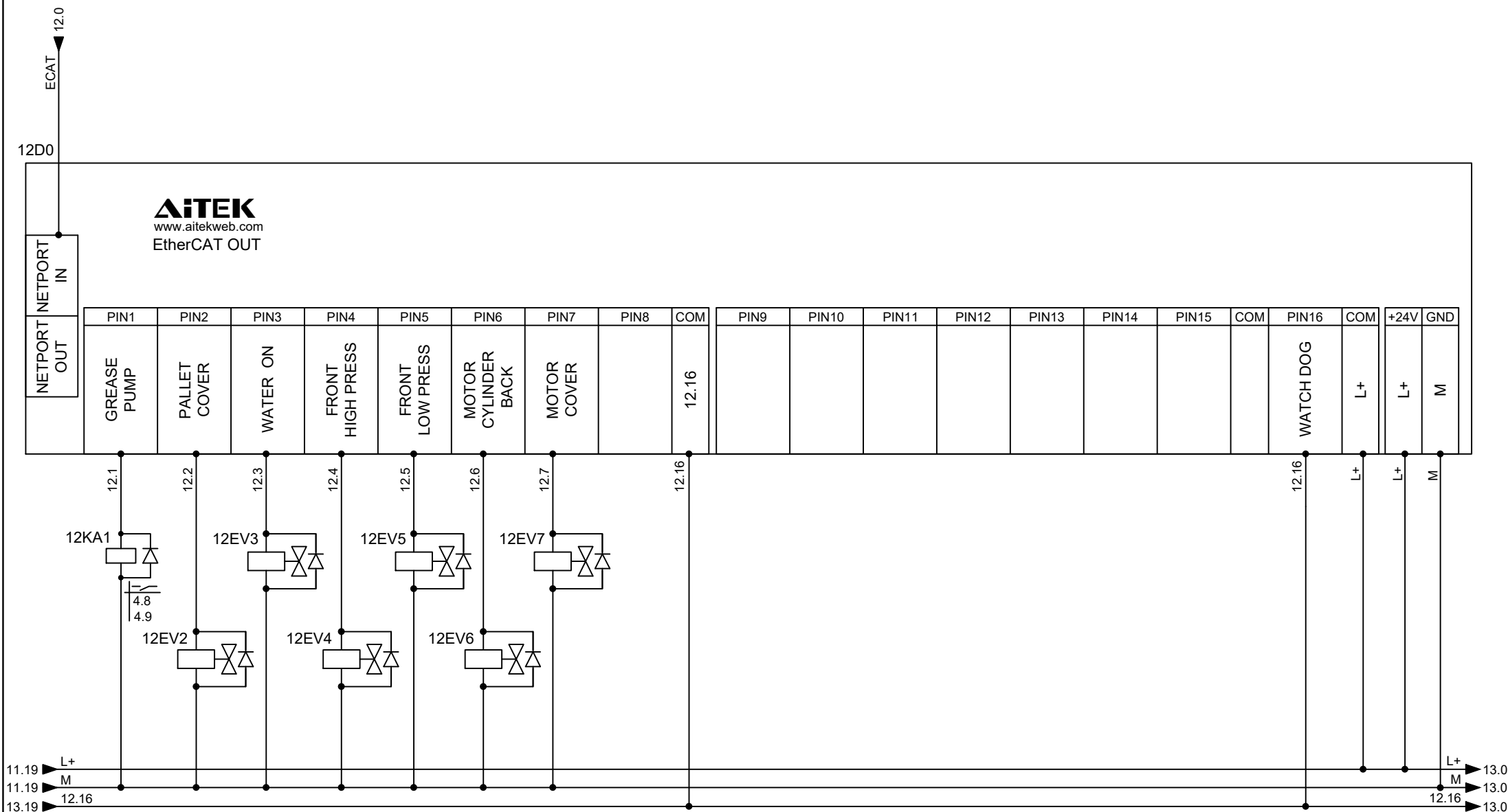


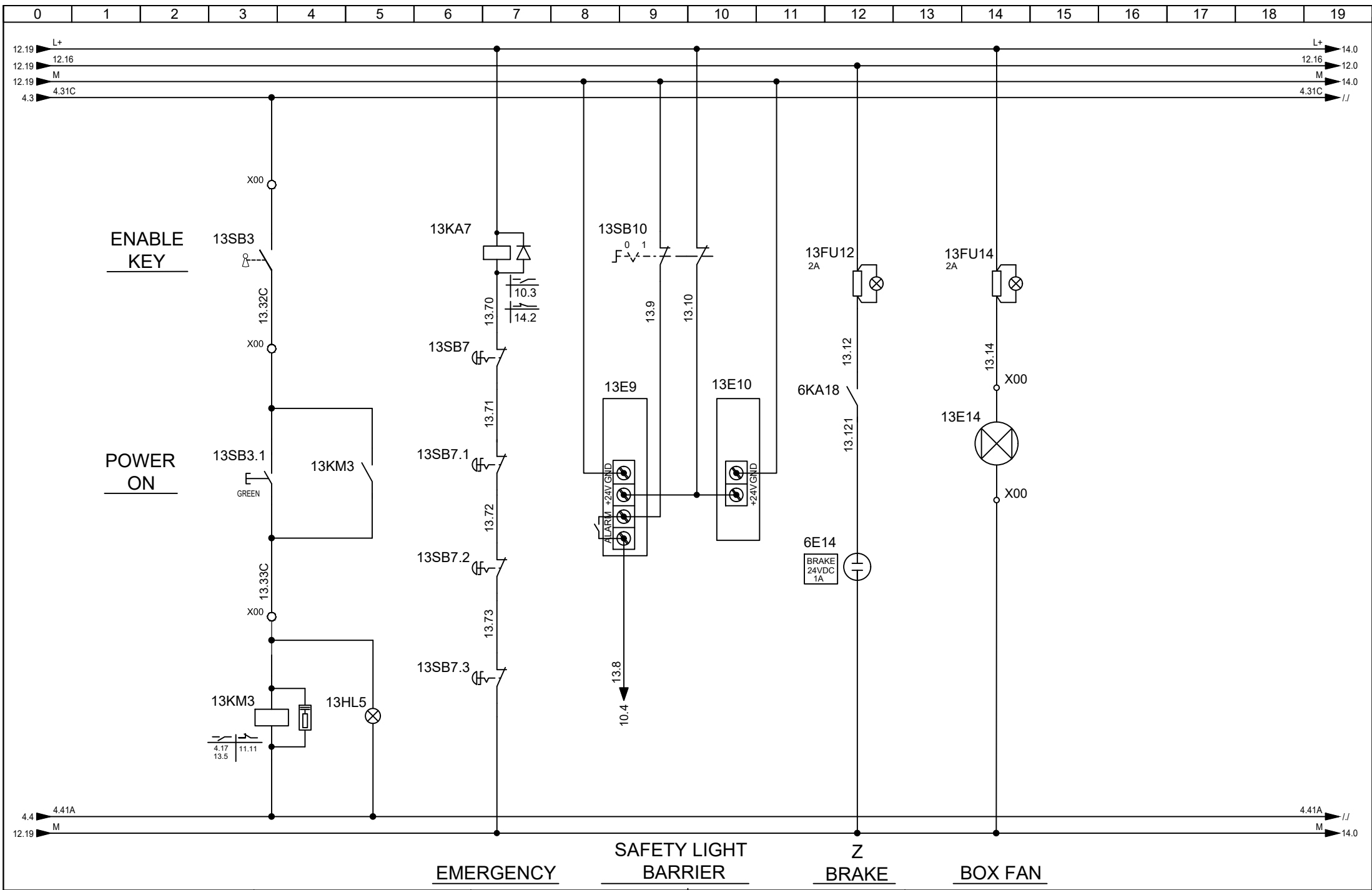
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AitalMac www.aitalmac.com				Designed By : ZLJ				Checked By :				Trimness By :				Description : ECAT NO.5~6 DRIVERS									
				Machine : EPR3500								Date: 09.10.2024				Revision: EPR3500-240903				Approved By :				Pag. 8	Next. 9

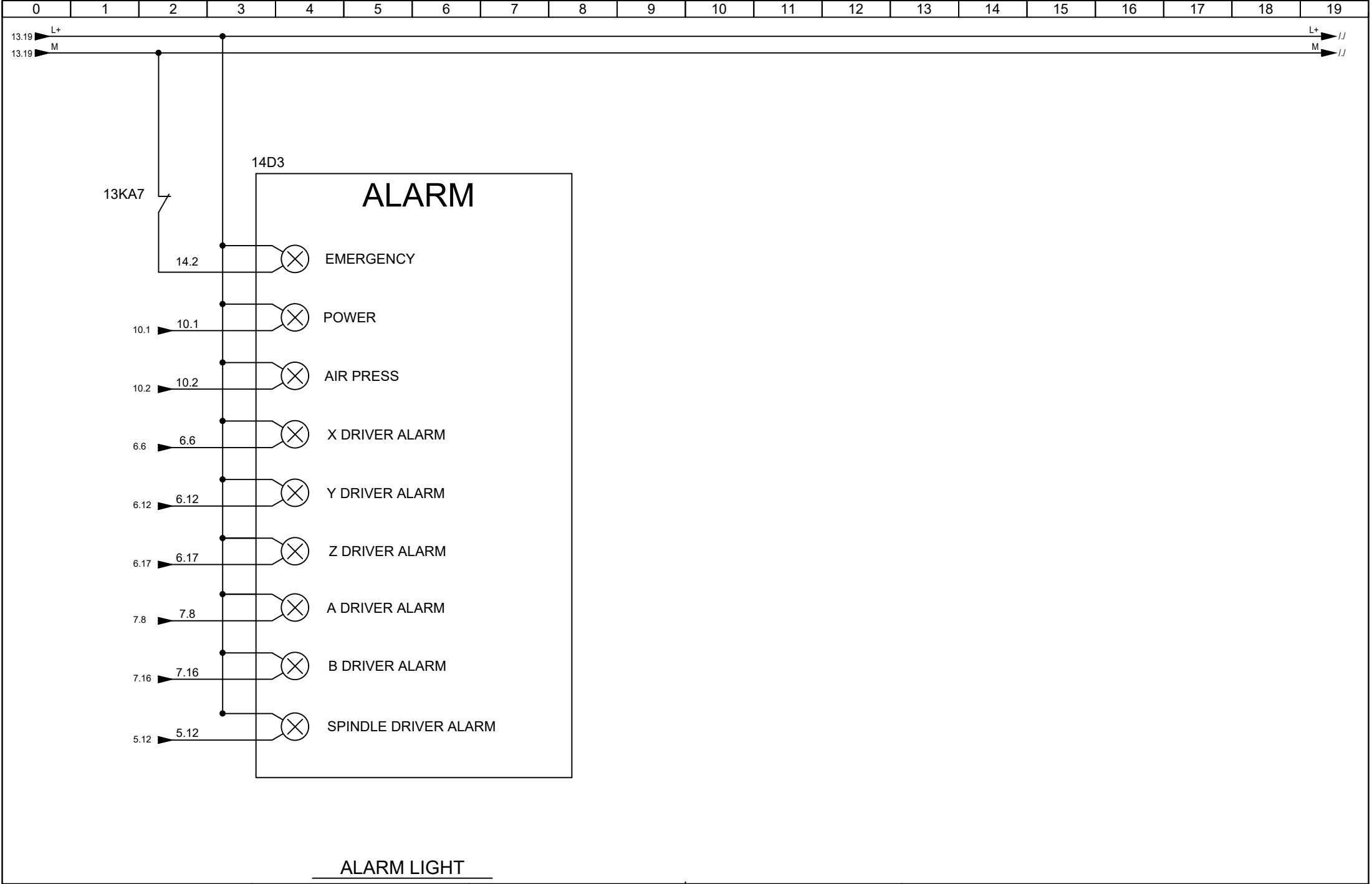


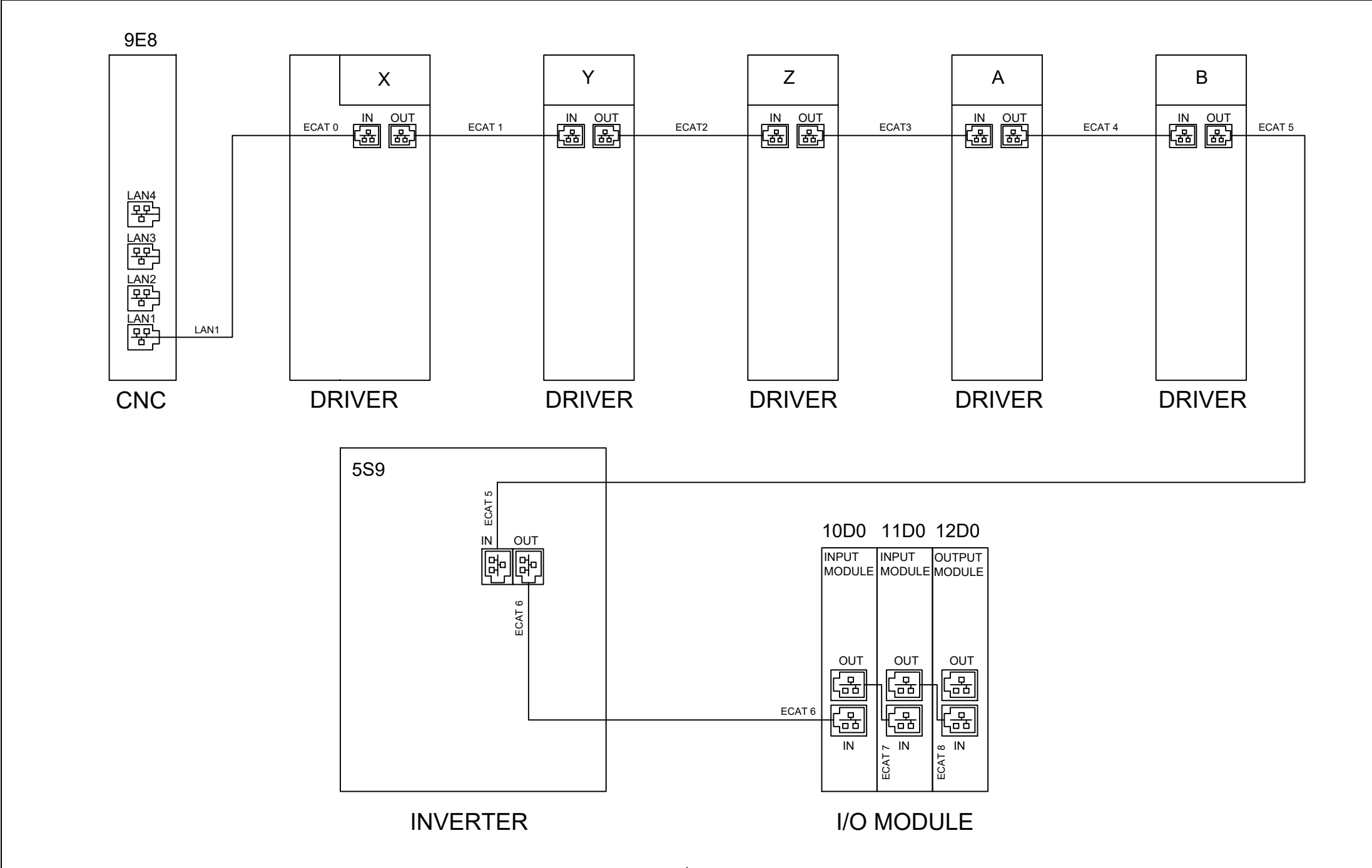
USB EXPANSION PORT	CNC CONTROLLER ONLINE MONITORING SYSTEM	MOUSE&KEYBOARD	MONITOR&MONITOR POWER SUPPLY
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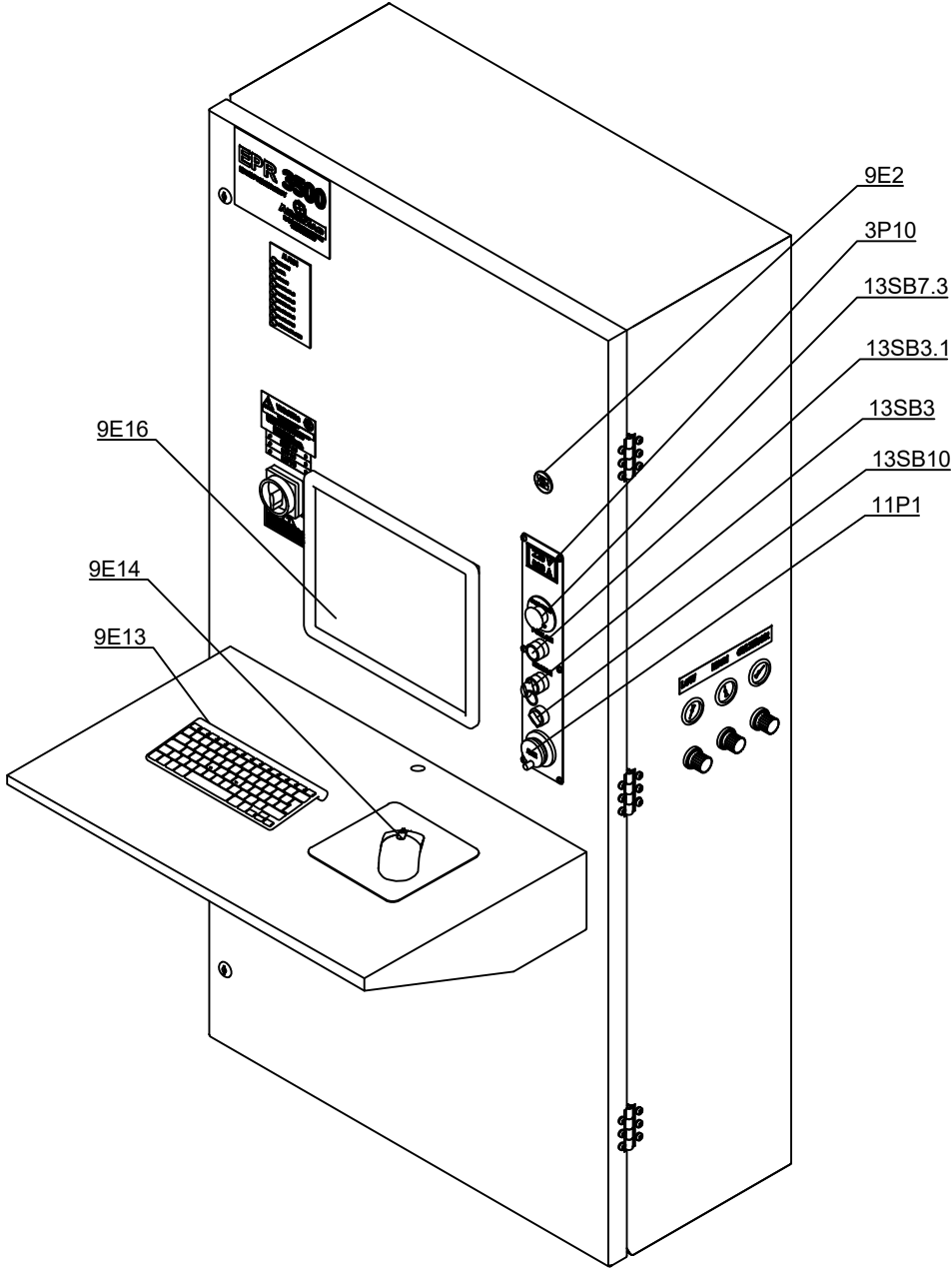




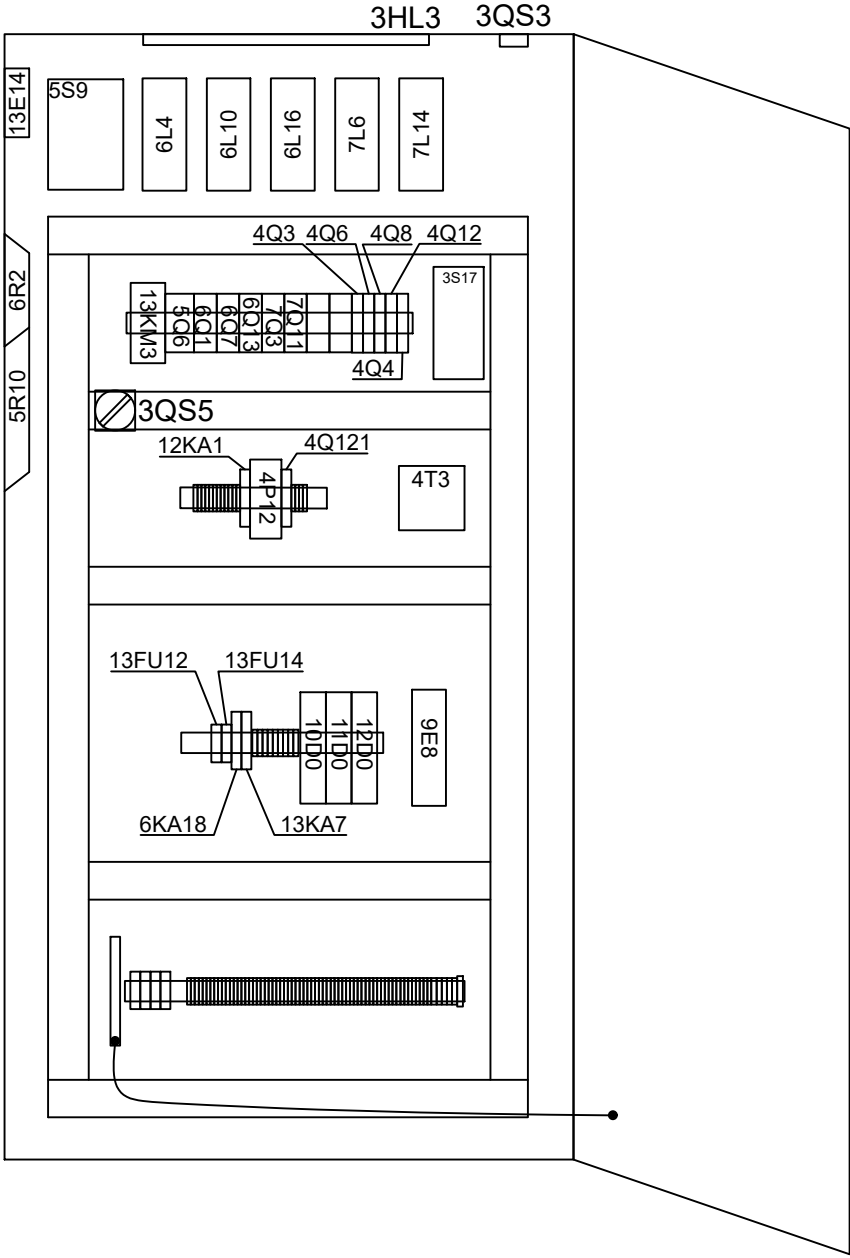


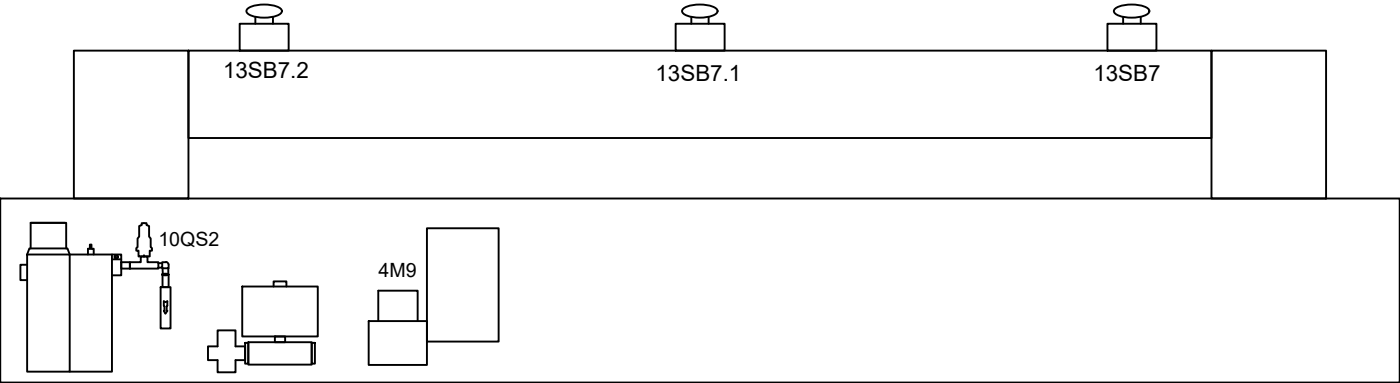
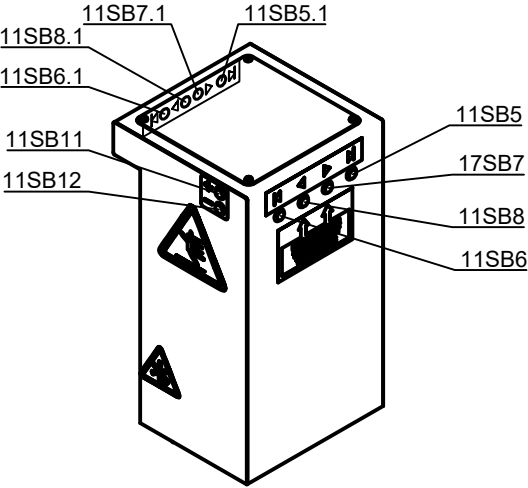






X00



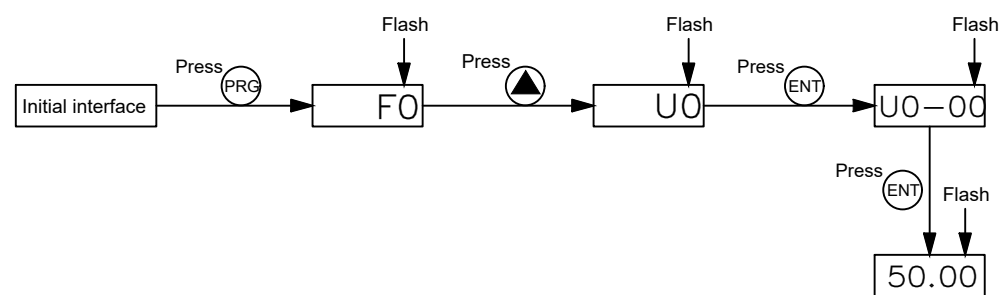
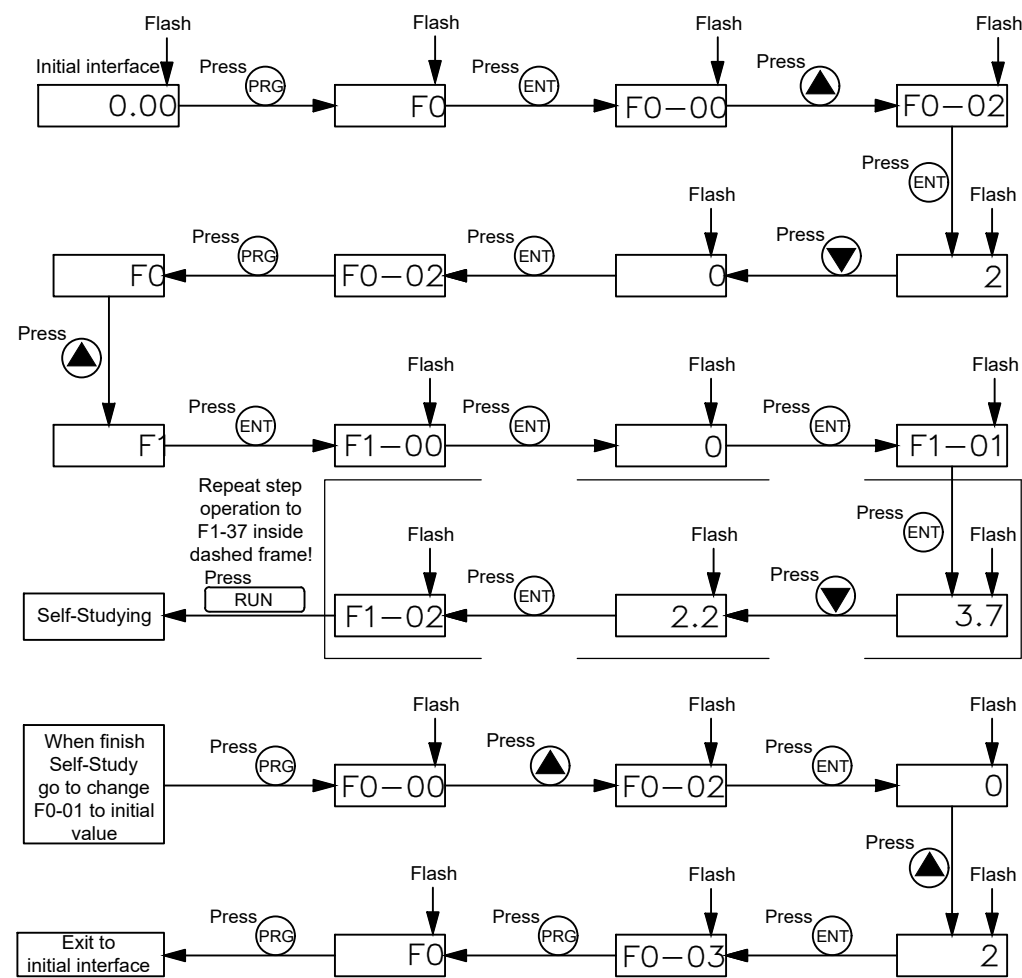


X01

Blade Motor Self-Study F1-37=2

Monitoring Function

- U0-00 Output Frequency
- U0-01 Input Frequency
- U0-06 Output Torque
- U0-14 Motor Speed



Inverter Parameter

Name	Range	Default	Units
F0-01	0,1,2	2	
F0-02	0,1,2	2	
F0-03	0-9	9	
F0-04	0-9	0	
F0-10	50.00Hz~500.00Hz	500	Hz
F0-12	0.00Hz~F0-10(MAX)	500	Hz
F0-17	0.0s~6500.0s	5	S
F0-18	0.0s~6500.0s	10	S
F0-28	0,1	1	
F1-00	0,1	0	
F1-01	0.1kW-1000.0kW	2.2	Kw
F1-02	1V-2000V	380	V
F1-03	0.01A-655.35A	5.1	A
F1-04	0.01Hz-MAX	50	Hz
F1-05	1RPM-65535RPM	1410	Rpm
F3-10	0~200	0	
F3-23	0,1	0	
F7-03	0000-FFFF	4051	
F7-04	0000-FFFF	0000	
F9-08	650V~800V	690	V

Servo Driver Parameter

Name	Range	X	Y	Z	A	B
PA000	0~5000	1	1	1	1	1
PA001	0~9	9	9	9	9	9
PA002	0x0~0xFFFF	1	1	1	1	1
PA003	0~31	13	13	13	13	13
PA004	0~20000	1100	500	550	650	500
PA015	0~32767	1	1	1	1	1
PA016	20~500	50				
PA017	20~5000	200				
PA410	01~AE	1	1	1	1	1

	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									
3	3SQ3	Travel Switch	JINSHAN	LX19-001 AC380VDC220V5A									
3	3HL3	OPEN DOOR LIGHT ON	--	--									
3	3P10	Volt-ammeter	OUXIN	D85-2042A AC80-300V/200-450V									
3	3S17	Filter	DOTHINK	DTT2121-30-S6-S47480V30A									
4	4T3	Transformers	CHNT	NDK(BK)-150									
4	4Q3	Circuit Breaker	Schneider	IC65N D4A 1P									
4	4Q4	Circuit Breaker	Schneider	IC65N D4A 1P									
4	4Q6	Circuit Breaker	Schneider	IC65N D4A1P									
4	4Q8	Circuit Breaker	Schneider	IC65N D1A1P									
4	4M9	Grease Pump Motor	ML	MYK-202-200-0 15W/220V 2L									
4	4Q12	Circuit Breaker	Schneider	IC65N D4A 1P									
4	4P12	Power Supply	WM	EDR120-24									
4	4Q121	Circuit Breaker	Schneider	C65H-DC C4A 1P									
4													
5	5Q6	Circuit Breaker	Schneider	IC65N D10A3P									
5	5S9	Frequency Converter	INOVANCE	MD500T3.7GB									
5	5R10	Braking Resistor	INOVANCE	740W150Ω									
5	5M11	Spindle Motor	AITEK	2.2KW									
6	6R2	Braking Resistor	RXLG	200W50Ω									
6	X 6Q1	Circuit Breaker	Schneider	IC65N D20A 2P									
6	6M2	X Motor	Leadshine	ACM13015M2F-71-E 1.5KW									
6	6L4	X Servo Drive	Leadshine	L7EC-1500S									
6	Y 6Q7	Circuit Breaker	Schneider	IC65N D10A 2P									
6	6M8	Y Motor	Leadshine	ACM2-08008H2F1-E23-65									
6	6L10	Y Servo Drive	Leadshine	L7EC-750S									
6	Z 6Q13	Circuit Breaker	Schneider	IC65N D10A 2P									
6	6M14	Z Motor	Leadshine	ACM8010M2H-51-B 1KW BREAK									
6	6L16	Z Servo Drive	Leadshine	L7EC-1000S									
6	6KA18	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E									
6	6E14	Z MOTOR BRAKE	Leadshine	ACM8010M2 G-63-E-SS									
7	A 7Q3	Circuit Breaker	Schneider	IC65N D10A 2P									
7	7M4	A Motor	Leadshine	ACM2-08008H2F1-E23-65									
7	7L6	A Servo Drive	Leadshine	L7EC-750S									
7	B 7Q11	Circuit Breaker	Schneider	IC65N D10A 2P									
7	7M12	B Motor	Leadshine	ACM2-08008H2F1-E23-65									
7	7L14	B Servo Drive	Leadshine	L7EC-750S									
8													
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8													
9	9E2	USB HUB	--	USB3.0AF2-AM2-2M									
9	9E4	USB WiFi	UGREEN	AC650M									
9	9SD8	CNC	AITEK	ETC-V2									
9	9E14	USB-Mouse	Lenovo	M3									
9	9E13	USB-Keyboard	Rapoo	V700									
9	9E16	Monitor	Anmite	AN-104A02CM									
9	9T18	Power Adapter	Anmite	12V 4A									

Pg.	Code	Name	Mfrs.	Model									
10	10D0	ETHERCAT	AITEK	INPUT MODULE									
10	10QS2	AIR PRESSURE	SQW	QPM11-NC									
10	10SQ9	X Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)									
10	10SQ10	Y Limit Sensor	IBEST	IPSI-12NO2B-L85mm(NPN NO 2mm 200mA)									
10	10SQ11	Z Limit Sensor	IBEST	IPSI-12NO2B-L85mm(NPN NO 2mm 200mA)									
10	10SQ12	A Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)									
10	10SQ13	B Limit Sensor	IBEST	IPSI-12NO2B-L85mm(NPN NO 2mm 200mA)									
11	11D0	ETHERCAT	AITEK	INPUT MODULE									
11	11P1	Speed Control Wheel	AITEK	24VPLC									
11	11SQ3	CYLINDER SENSOR	CHVIRD	CS1-U									
11	11SQ4	WATER FLOW SENSOR	MJ	HZ41C 0.15-1.5L/MIN 24V									
11	11SB5	SET STONE X MAX WORK LIMIT	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC									
11	11SB5.1	SET STONE X MAX WORK LIMIT	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC									
11	11SB6	SET STONE X MIN WORK LIMIT	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC									
11	11SB6.1	SET STONE X MIN WORK LIMIT	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC									
11	11SB7	X MOVE +	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC									
11	11SB7.1	X MOVE +	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC									
11	11SB7	X MOVE -	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC									
11	11SB7.1	X MOVE -	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC									
11	11SQ9	PROBE TOOL LENGTH SENSOR	CNTD	CMV104D 1NC 1NO									
11	11SQ10	PROBE STONE LENGTH SENSOR	JINCI	NU200F18TR-1MD NPN 50-1000mm 7°									
11	11SB11	LENGTH SENSOR TRIM+	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC									
11	11SB12	LENGTH SENSOR TRIM-	ONPOW	GQ16H-10/J/S 1NO 2A/36VDC									
12	12D0	ETHERCAT	AITEK	OUTPUT MODULE									
12	12KA1	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E									
12	12EV2	PALLET COVER	CNSY	4V210-08 G1/4 DC24V									
12	12EV3	WATER ON	CNSY	4V210-08 G1/4 DC24V									
12	12EV4	FRONT HIGH PRESS	CNSY	4V210-08 G1/4 DC24V									
12	12EV5	FRONT LOW PRESS	CNSY	4V210-08 G1/4 DC24V									
12	12EV6	CYLINDER BACK SOLENOID VALVE	AIRTAC	3V210-08 DC24V NO									
12	12EV7	MOTOR COVER	CNSY	4V210-08 G1/4 DC24V									
13	13SB3	Enable Key Switch	RENY	RBSNK-2									
13	13SB3.1	Power On Button	RENY	R2PIF-1D-2GL									
13	13KM3	Contactor	Schneider	LC1D50A 50A									
13	13SB7	Emergency Stop Button	Schneider	XALJ01C+ZB2-BE102C 1NC AC15/240V-3A									
13	13SB7.1	Emergency Stop Button	Schneider	XALJ01C+ZB2-BE102C 1NC AC15/240V-3A									
13	13SB7.2	Emergency Stop Button	Schneider	XALJ01C+ZB2-BE102C 1NC AC15/240V-3A									
13	13SB7.3	Emergency Stop Button	RENY	R2PNR4D-1B-R R9C01VN 1NC AC15DC13									
13	13E9	Safety Light Barrier/T	ANLIAN	ABI10-482 6L 10M									
13	13E10	Safety Light Barrier/R	ANLIAN	ABI10-482 6L 10M									
13	13FU12	Fuse	CHE	FS-101 DC24V 2A									
13	13FU14	Fuse	CHE	FS-101 DC24V 2A									
13	13E14	FAN	PAPST	TYP4114N/12MR 24V 6W 12CM									

Aitalmac www.aitalmac.com		Designed By	Checked By	Approved By	Trimness By	Description							
		ZLJ					COMPONENTS INFORMATION						
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