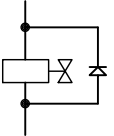
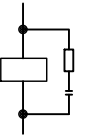
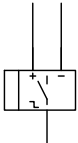
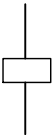
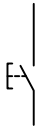
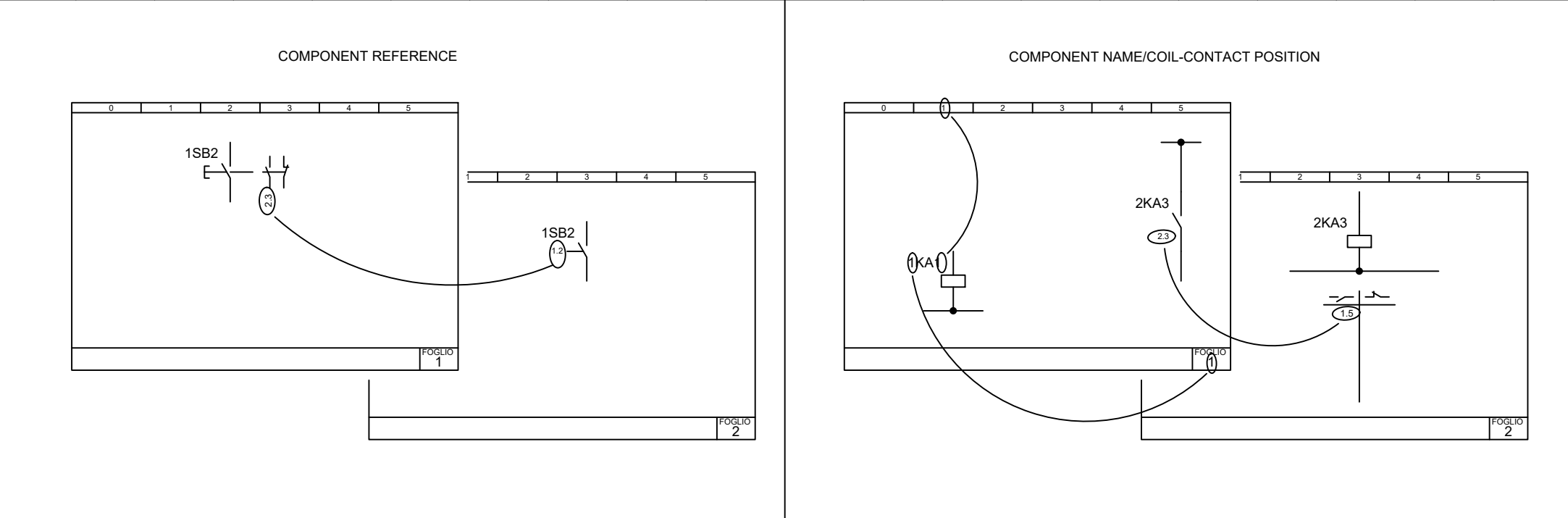
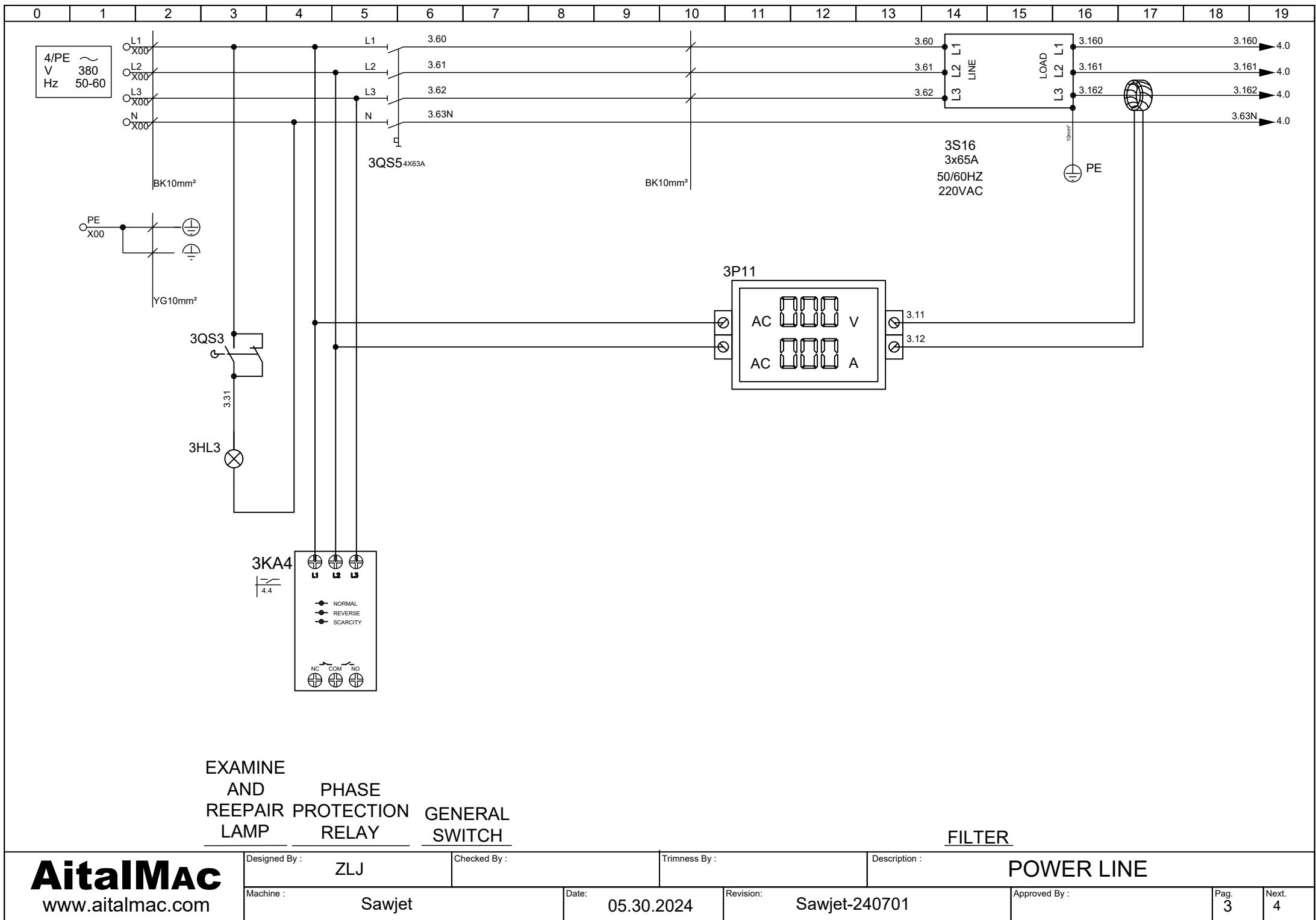
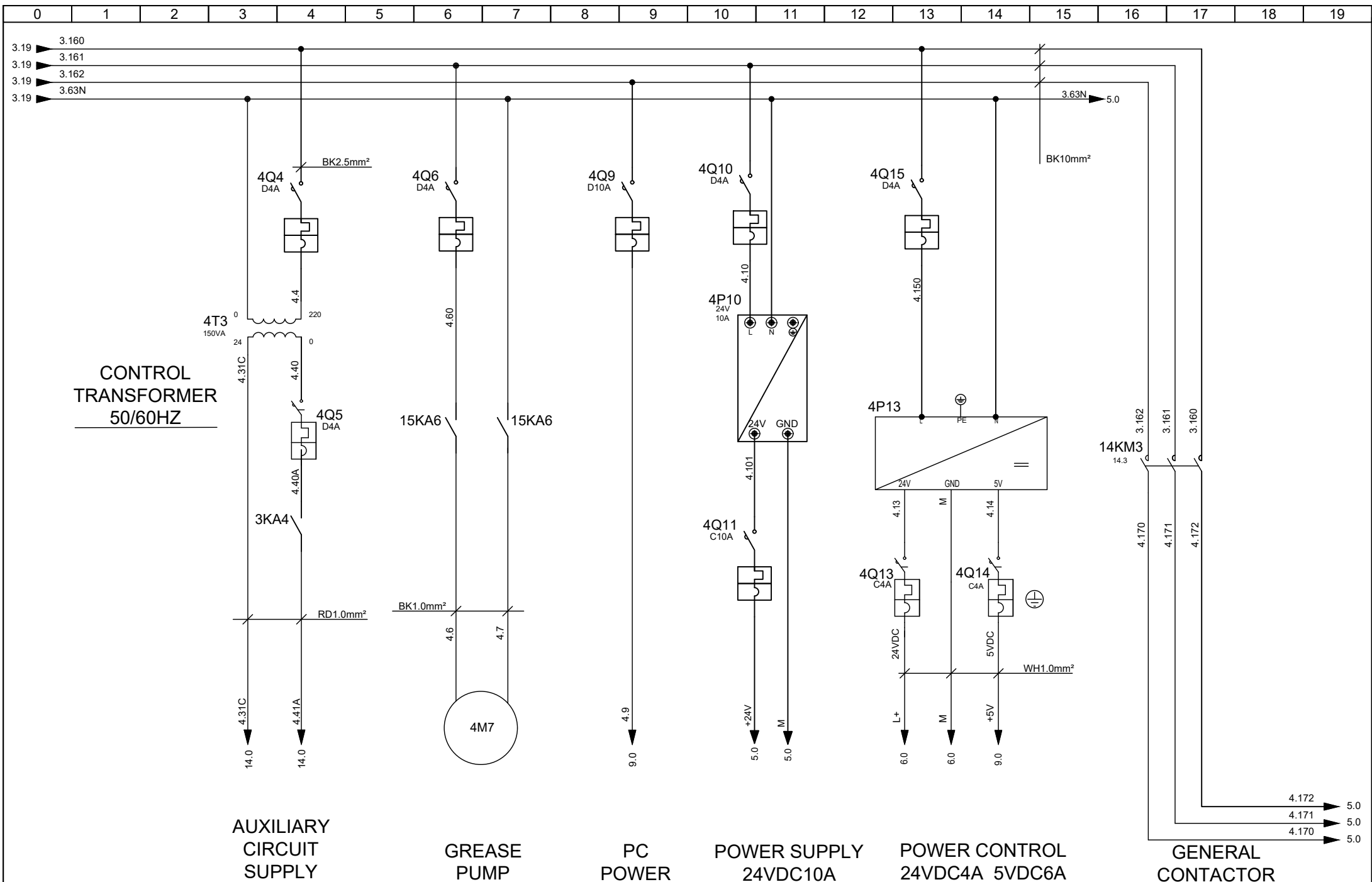


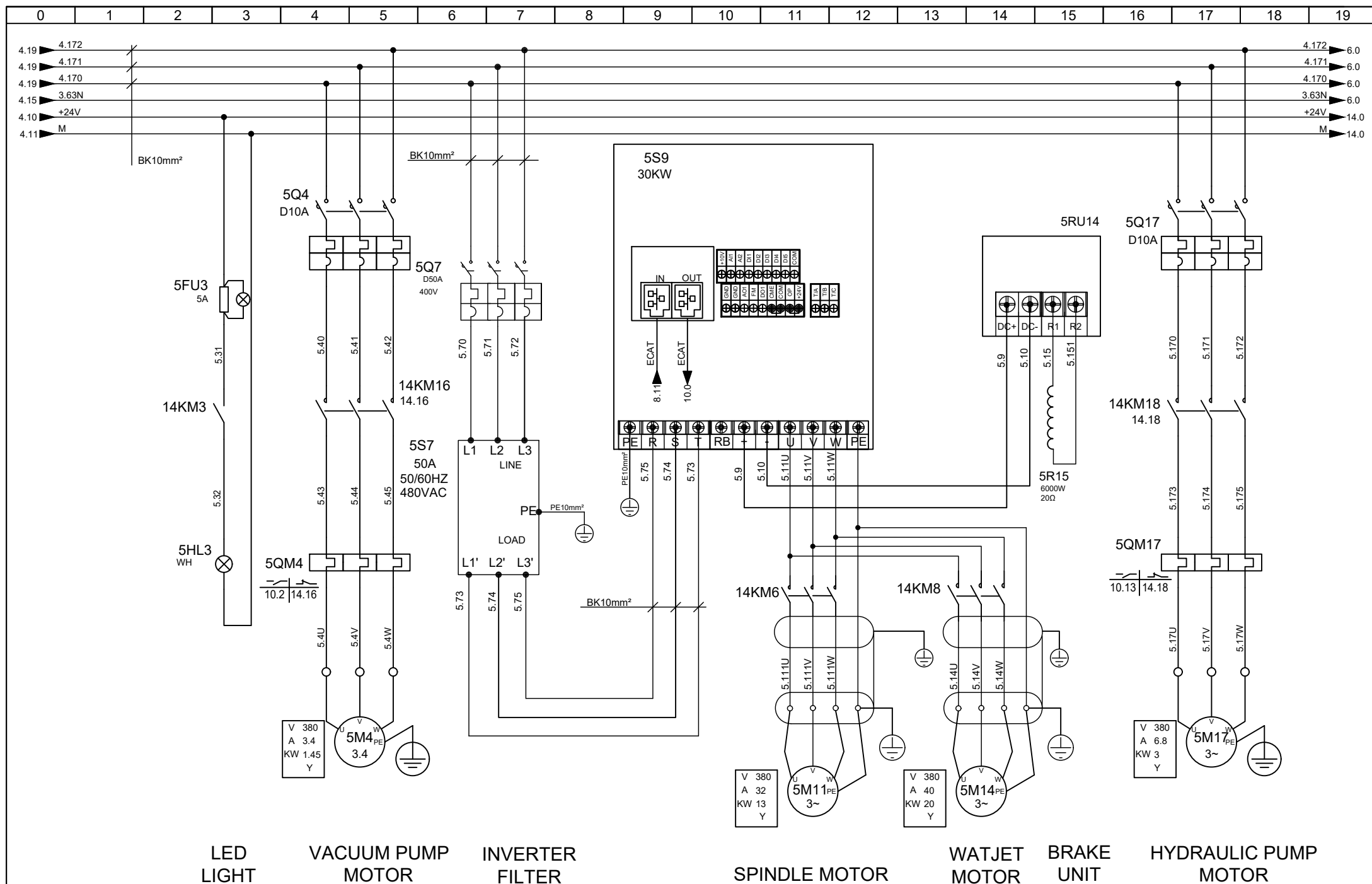
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AITALMAC Heng Sheng Road , Gao Chun Economic Development Zone , NANJING,211300 P.R.CHINA										LOCATION SYMBOLS ☐ Components on the door ☐ Components inside the cubicle (usually omitted) ☒ Machine components (usually omitted)									

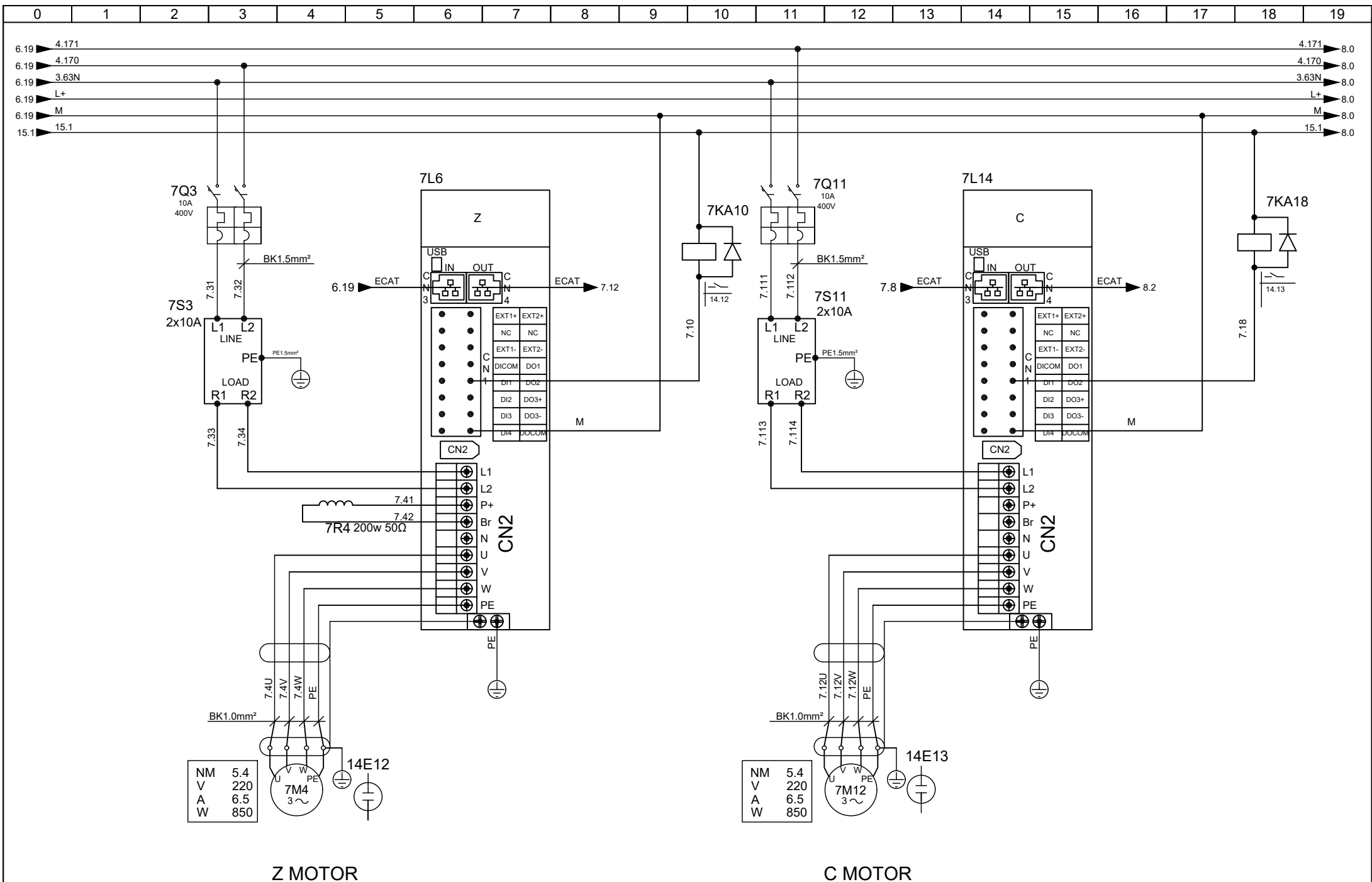
SYMBOL	MEANING	SYMBOL	MEANING
	NORMALLY OPEN CONTACT		SOLENOID VALVE
	NORMALLY CLOSED CONTACT		AC CONTACTOR
	SENSOR		RELAY
	BUTTON		
	LAMP		

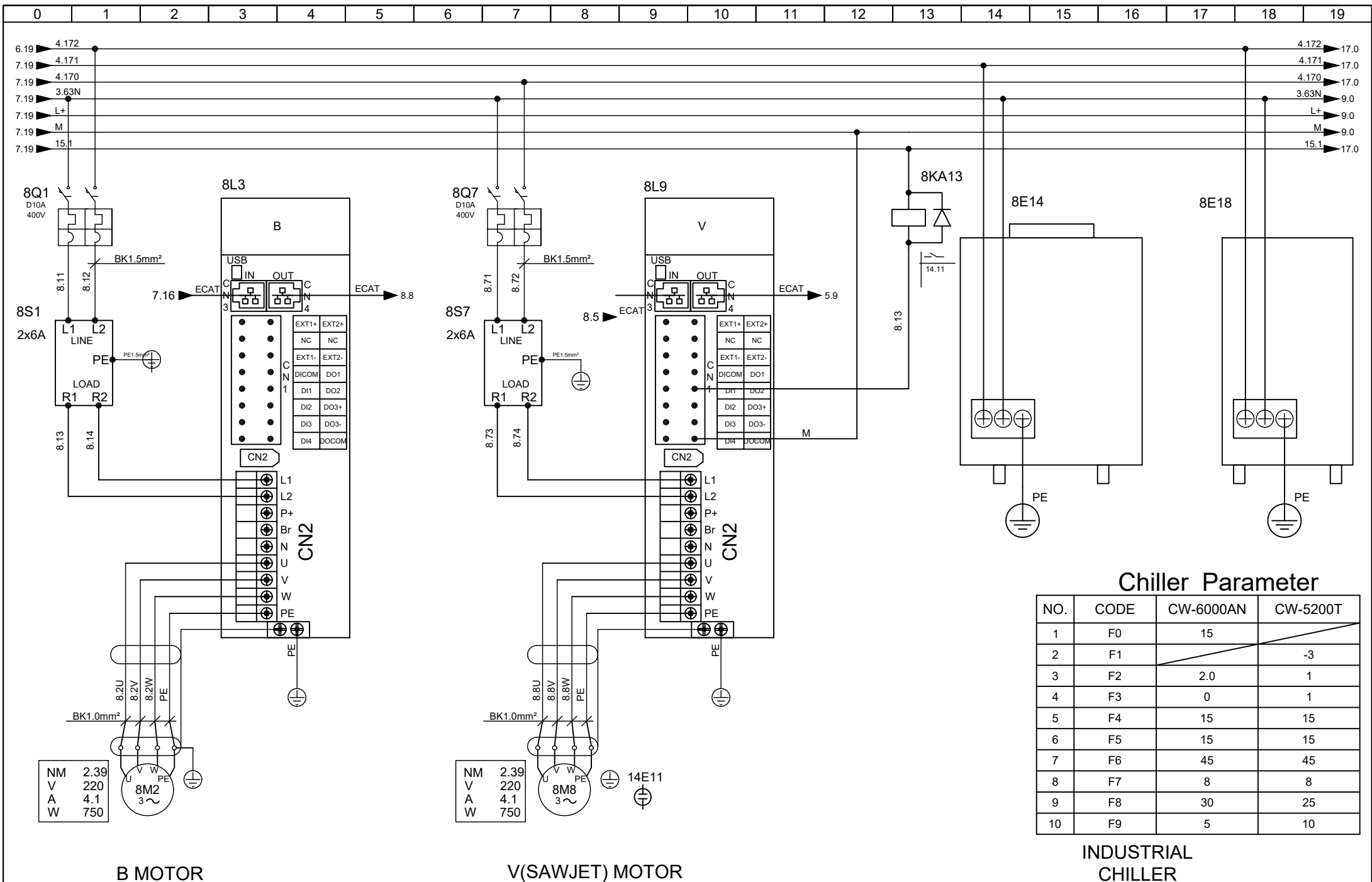


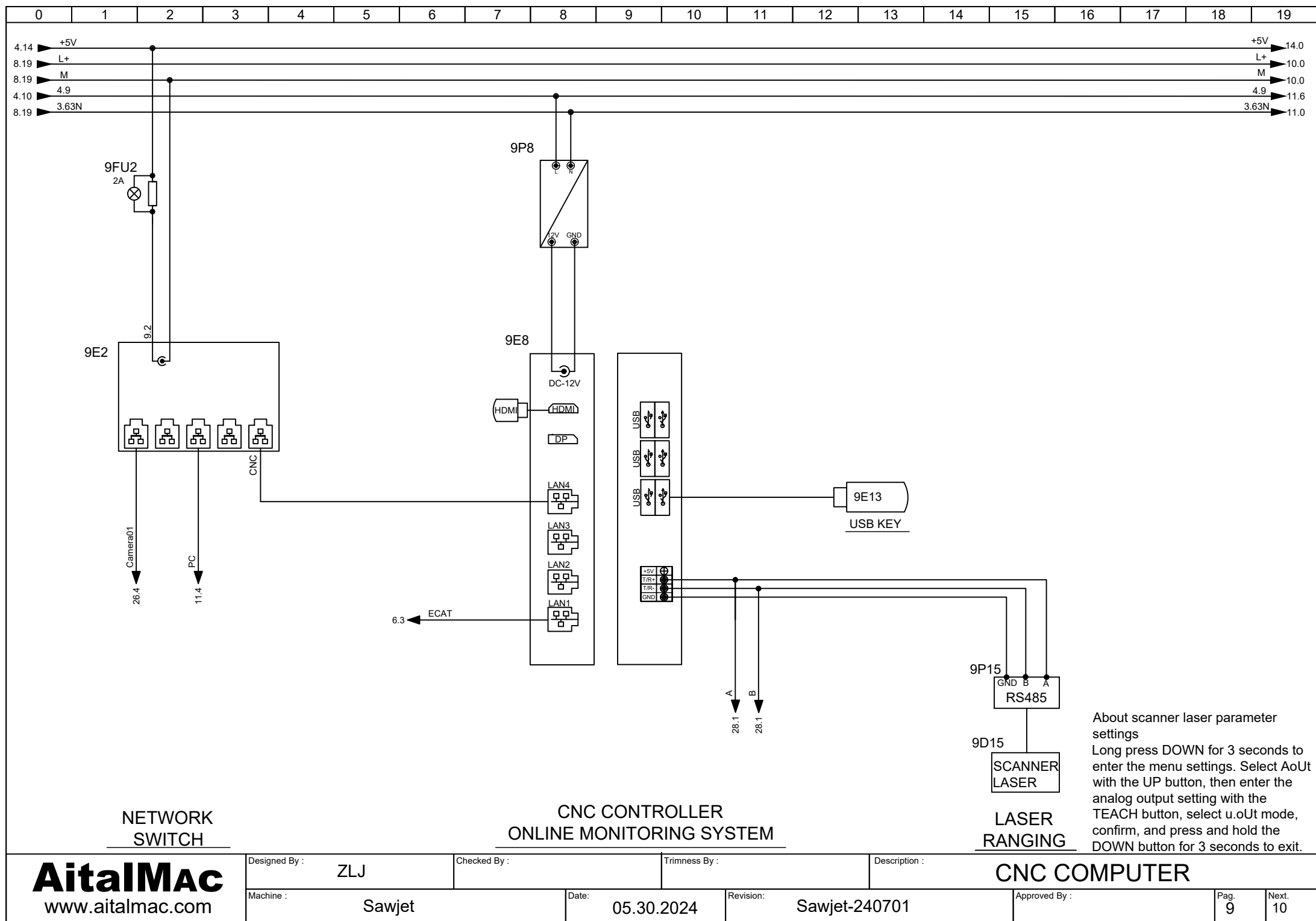


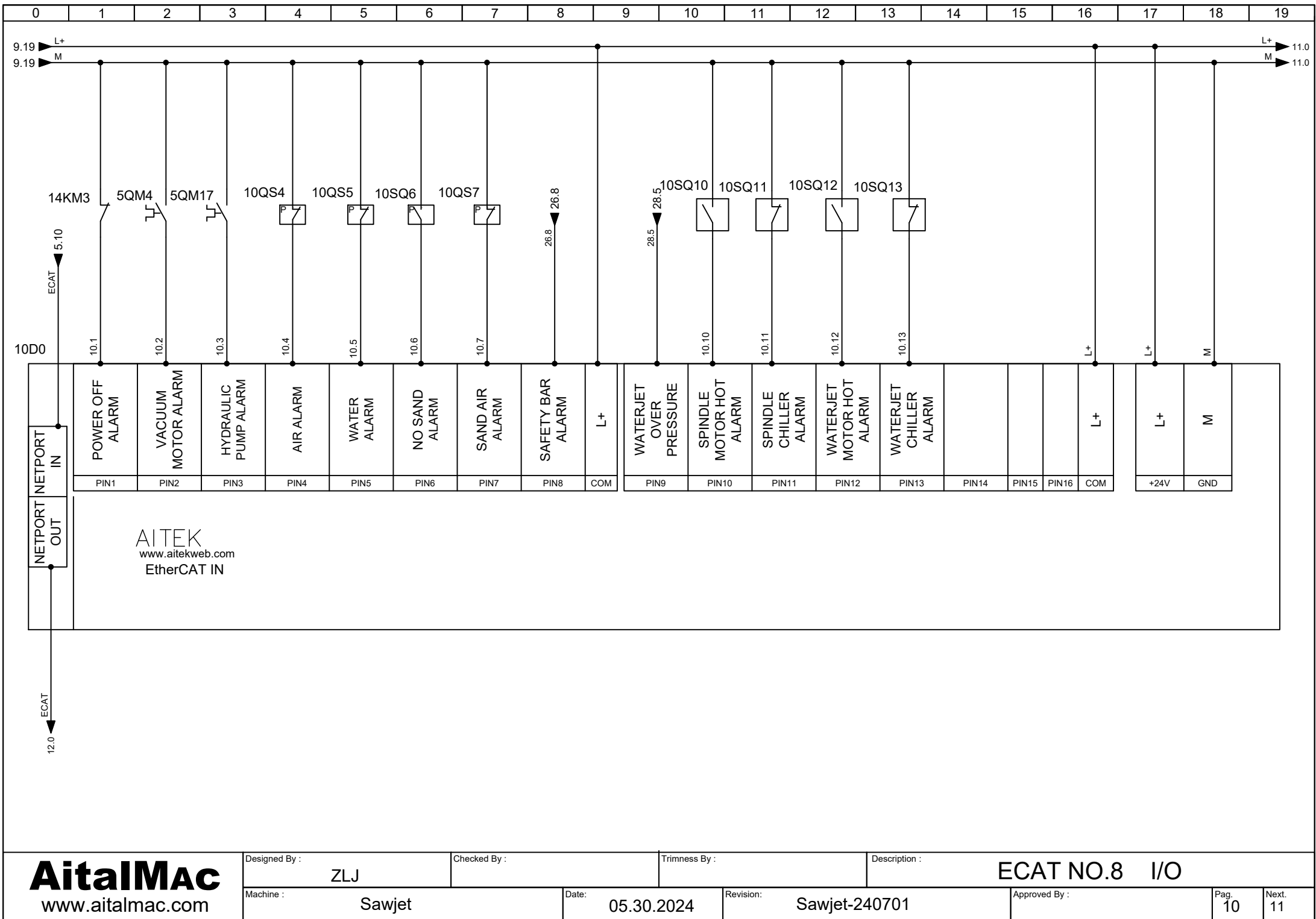


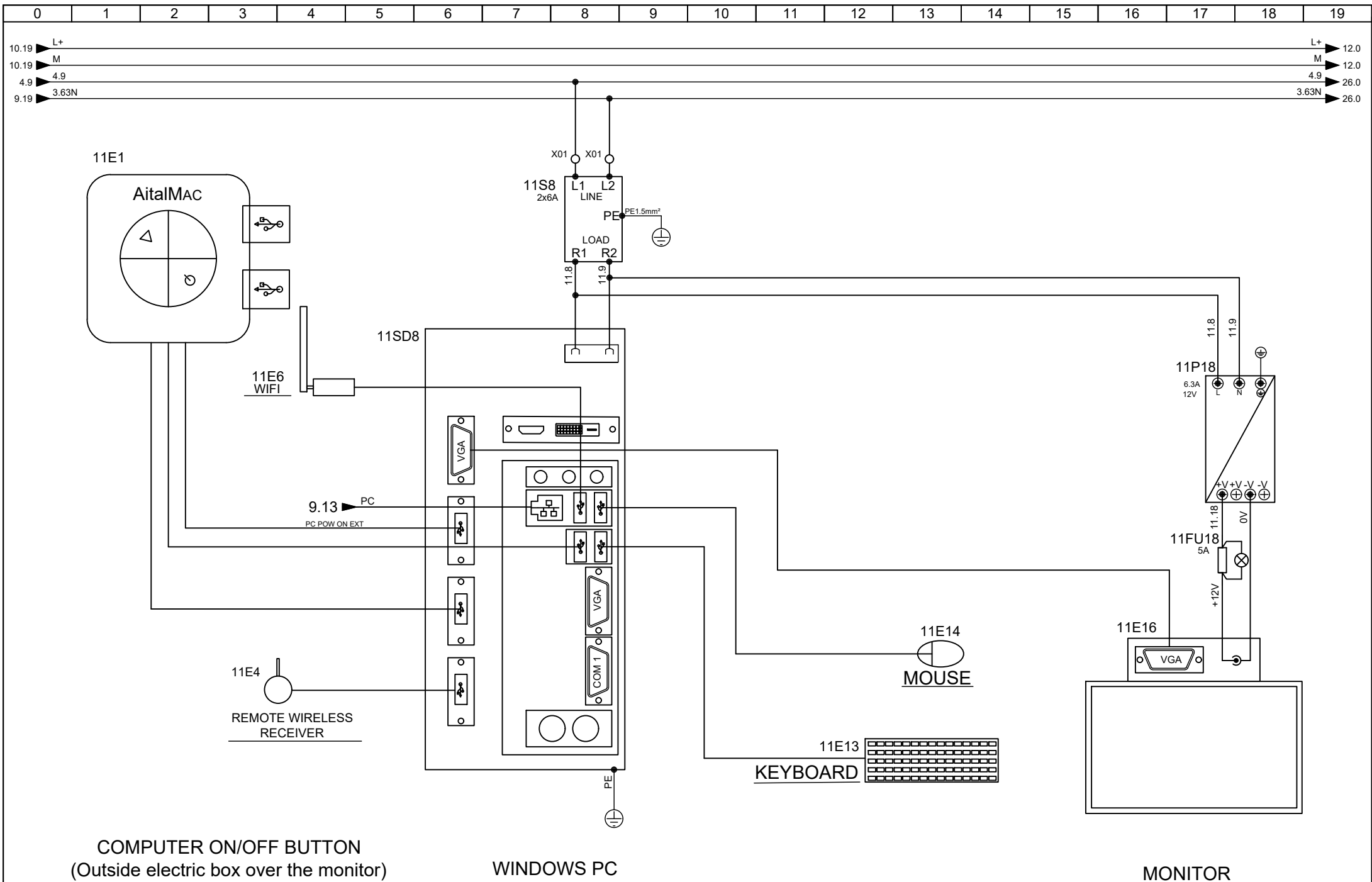


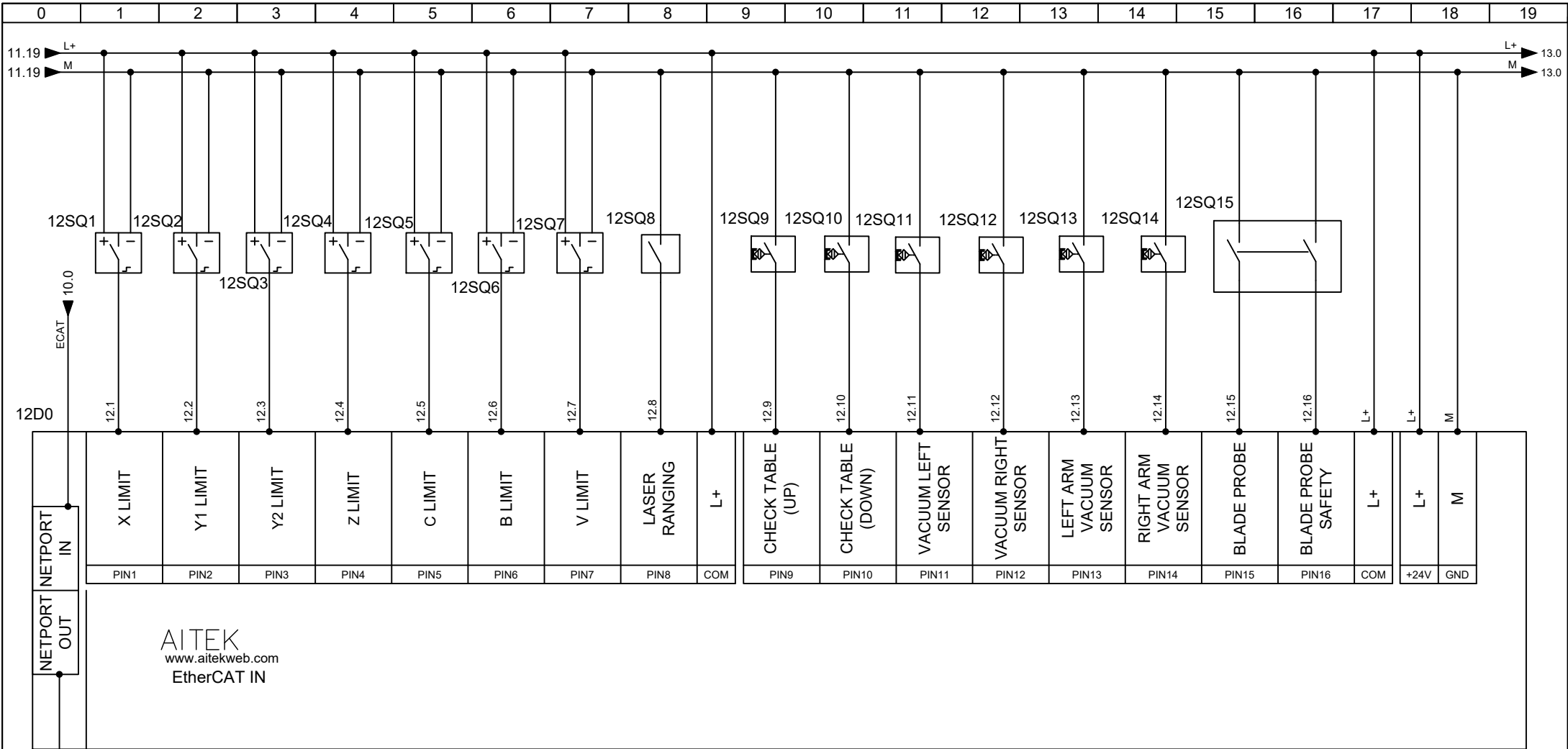


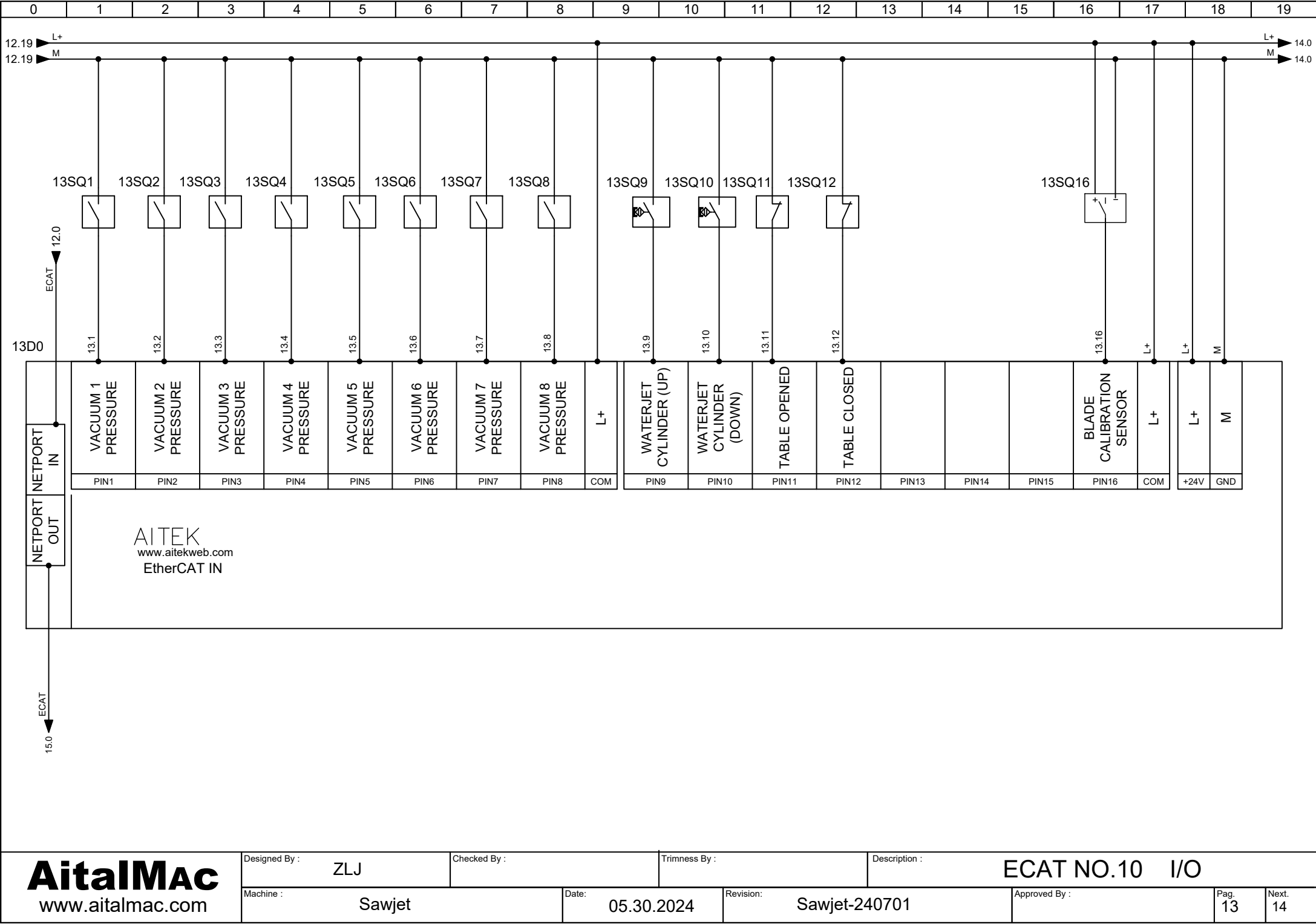


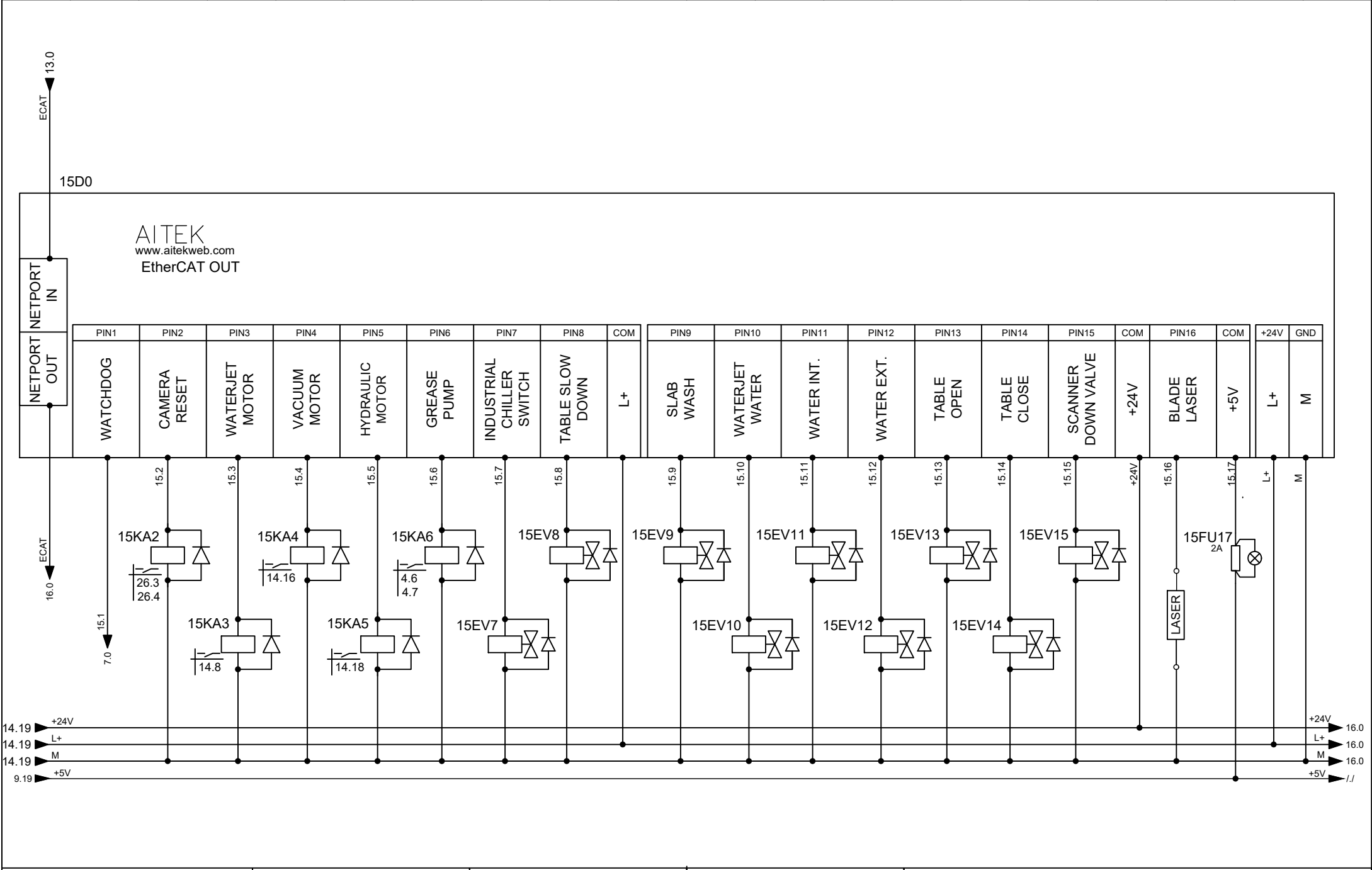








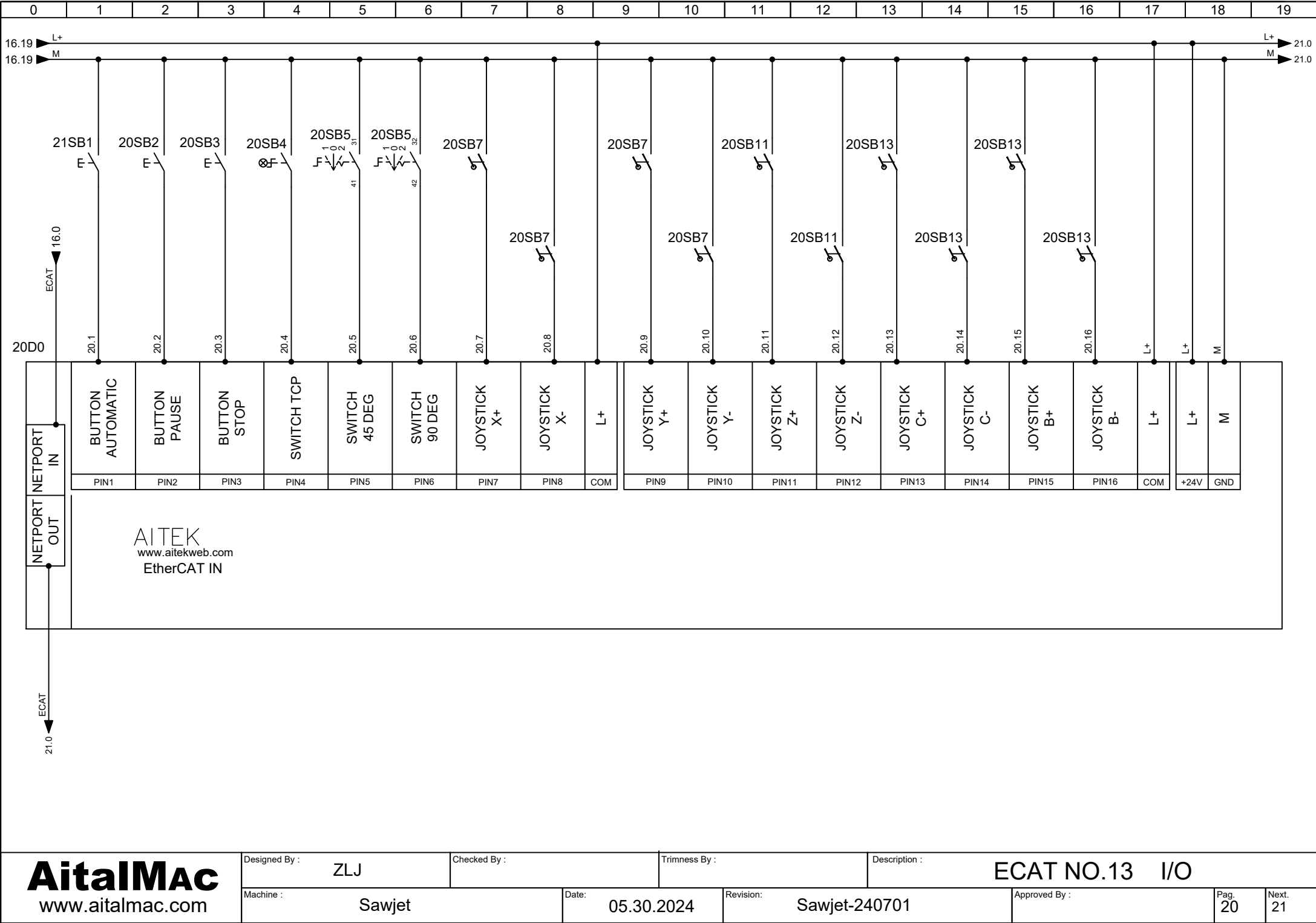




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AitalMac www.aitalmac.com		Designed By : ZLJ				Checked By :				Trimness By :				Description :					
		Machine : Sawjet						Date: 05.30.2024		Revision: Sawjet-240701				Approved By :			Pag. 17	Next. 18	

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 : Sawjet								Date: 05.30.2024		Revision: Sawjet-240701					Approved By :			Pag. 18	Next. 19

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 : Sawjet				Date: 05.30.2024				Revision: Sawjet-240701				Approved By :				Pag. 19		Next. 20	



AitalMac

www.aitalmac.com

Designed By :

ZLJ

Machine :

Sawjet

Checked By :

Date:

05.30.2024

Trimness By :

Revision:

Sawjet-240701

Description :

ECAT NO.13 I/O

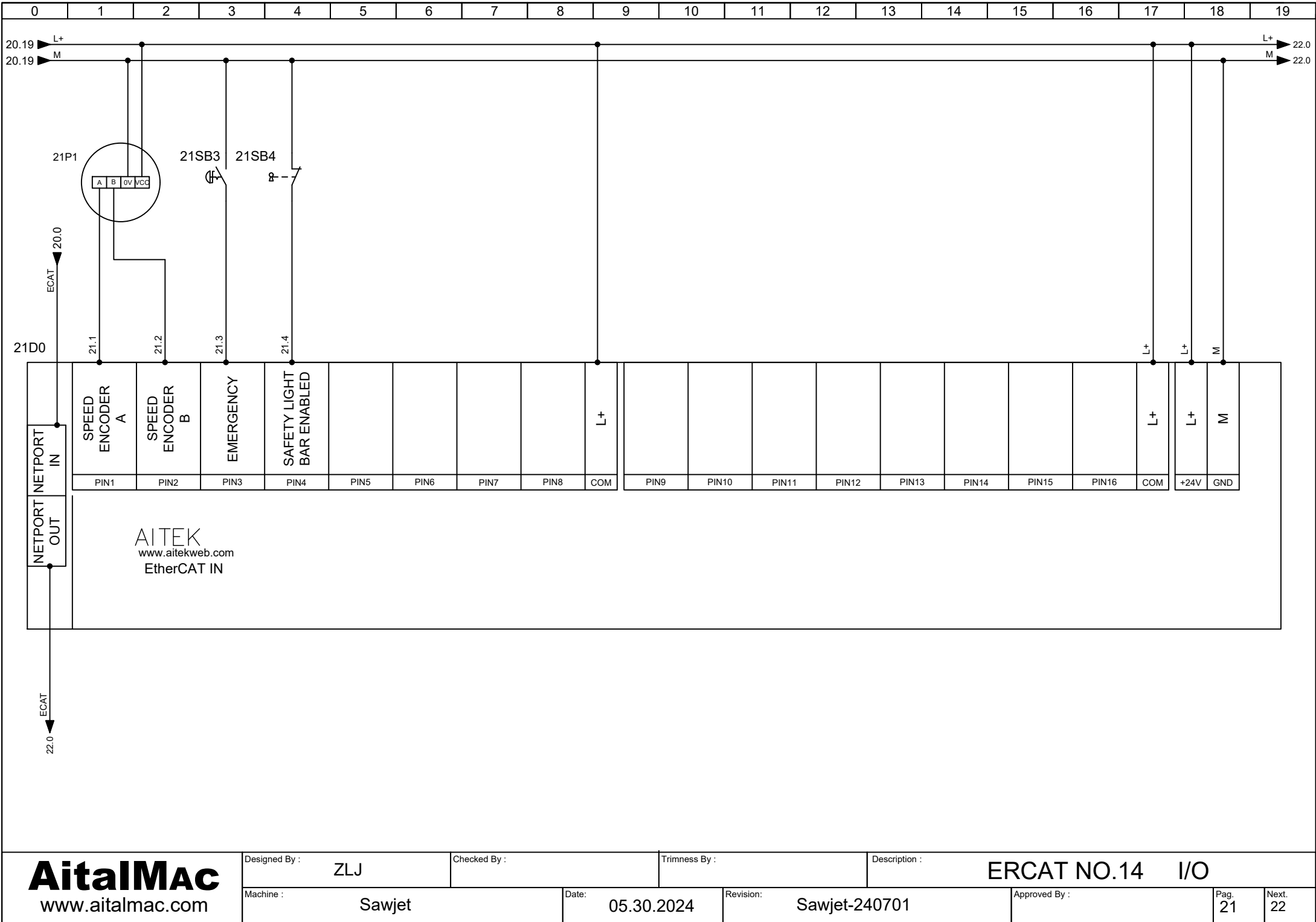
Approved By :

Pag.

20

Next.

21



AitalMac

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Designed By :

ZLJ

Machine :

Sawjet

Checked By :

Date:

05.30.2024

Trimness By :

Revision:

Sawjet-240701

Description :

ERCAT NO.14 I/O

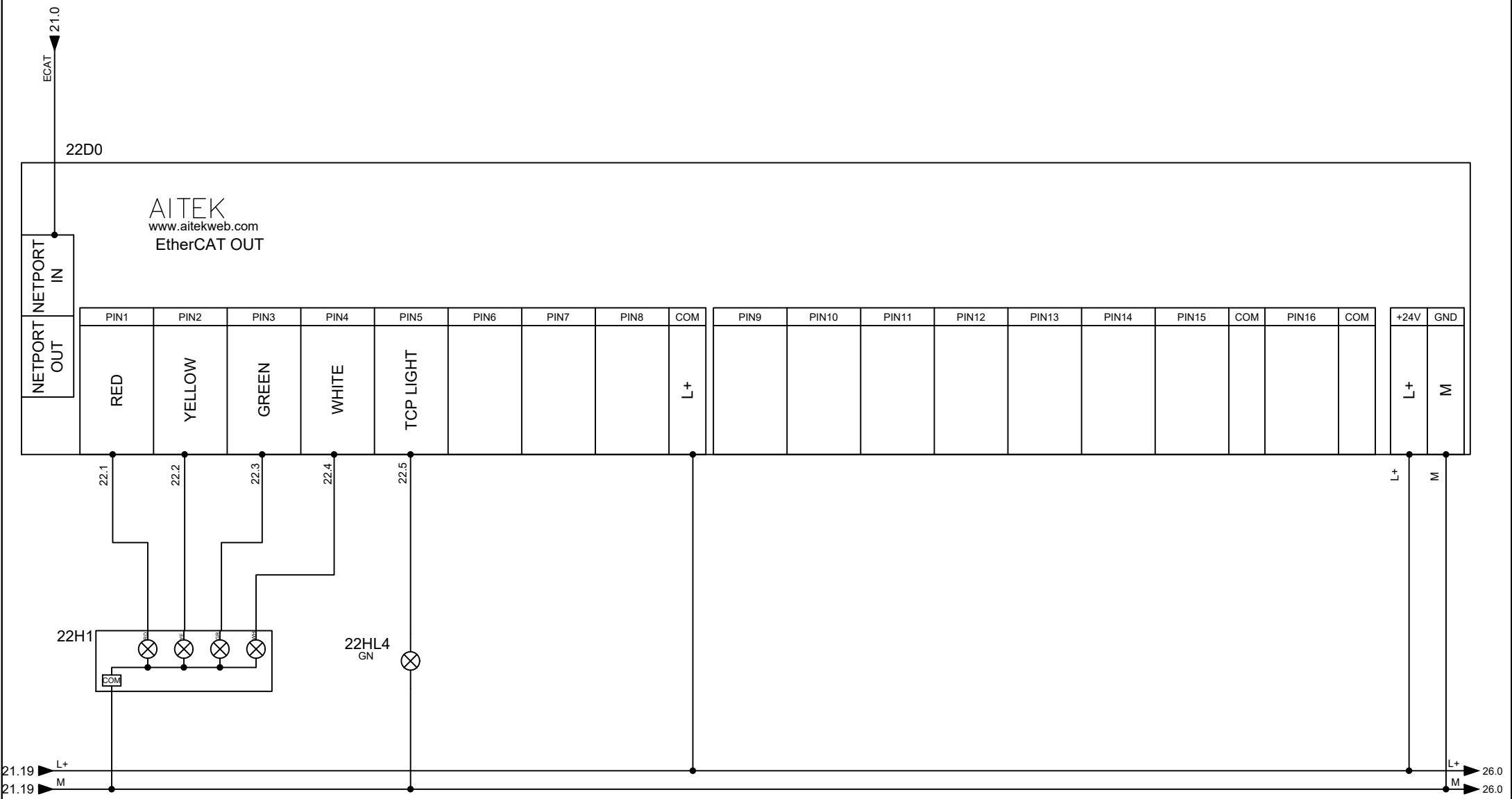
Approved By :

Pag.

21

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22

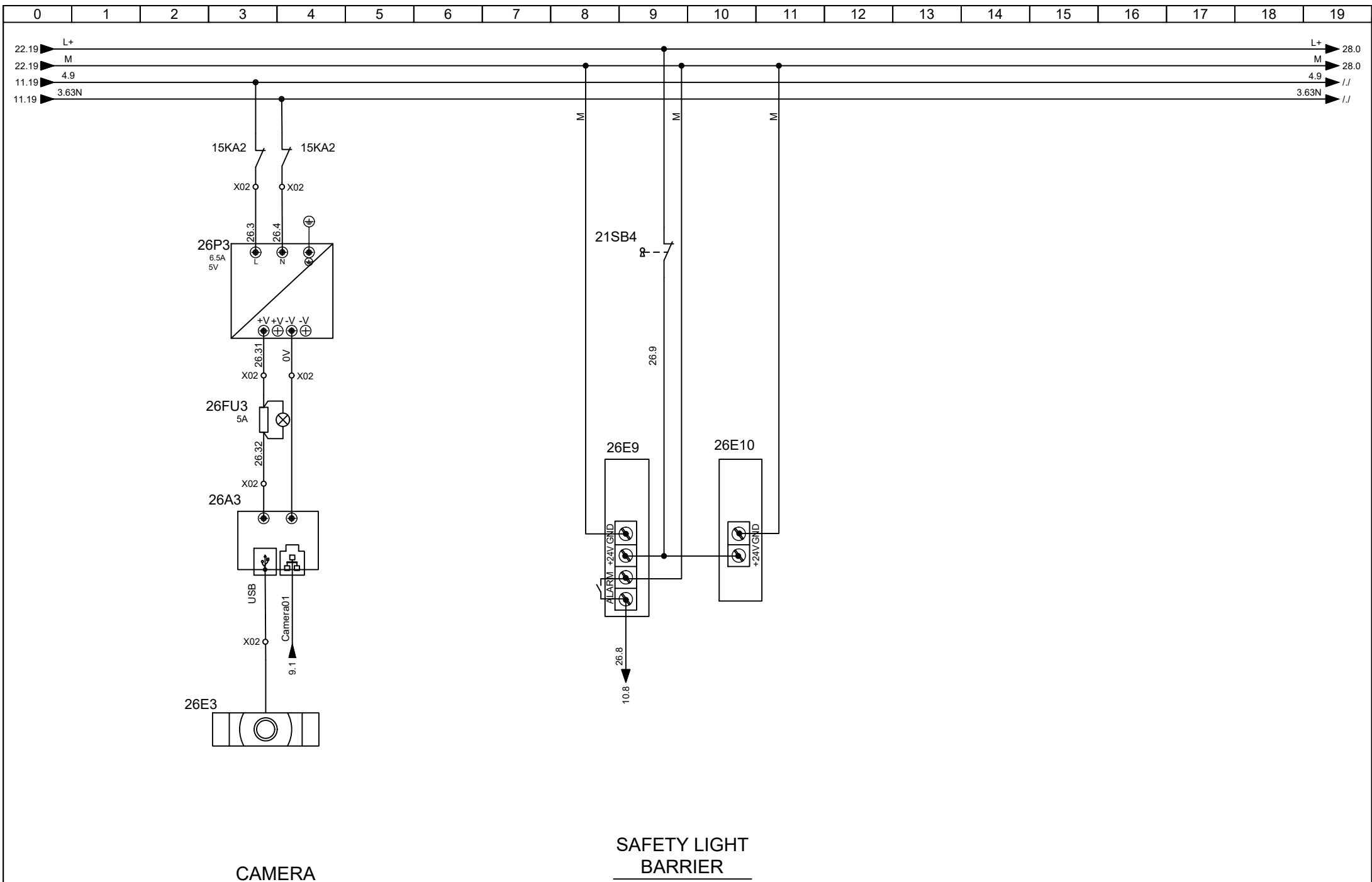


ALARM LAMP

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AitalMac www.aitalmac.com			Designed By : ZLJ			Checked By :			Trimness By :			Description :							
			Machine : Sawjet				Date: 05.30.2024		Revision: Sawjet-240701				Approved By :			Pag. 23	Next. 24		

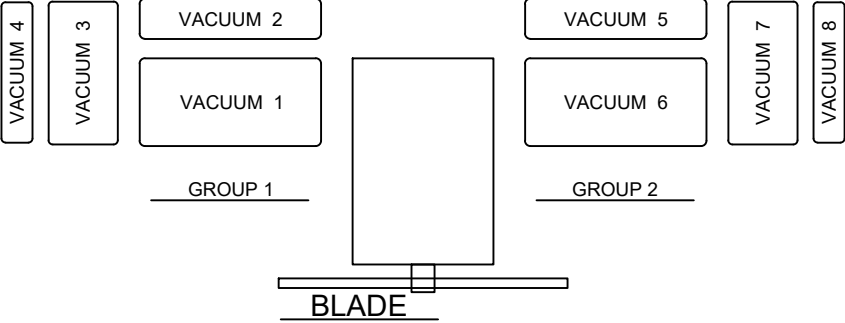
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			Machine : Sawjet				Date: 05.30.2024		Revision: Sawjet-240701				Approved By :			Pag. 24	Next. 25		

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AitalMac www.aitalmac.com				Designed By : ZLJ			Checked By :			Trimness By :			Description :						
Machine : Sawjet								Date: 05.30.2024		Revision: Sawjet-240701					Approved By :			Pag. 25	Next. 26

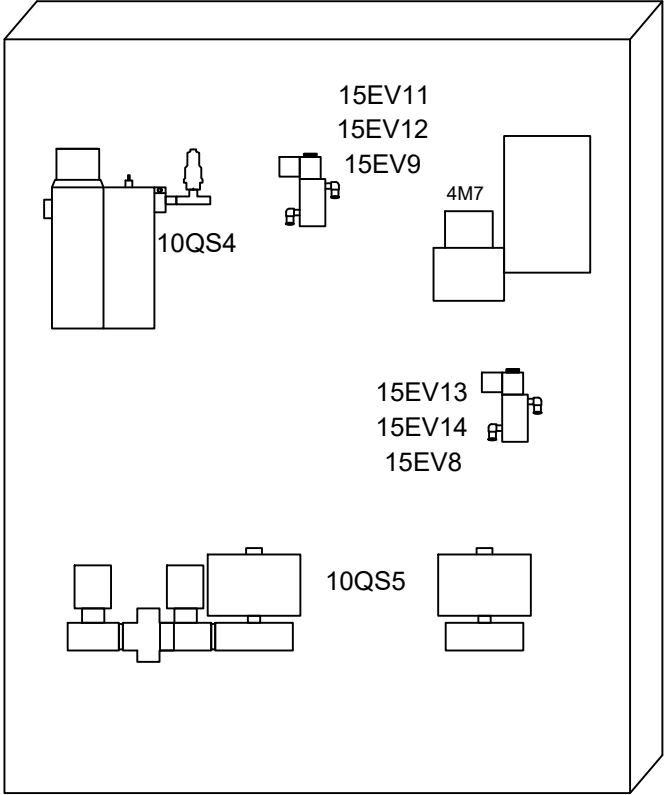
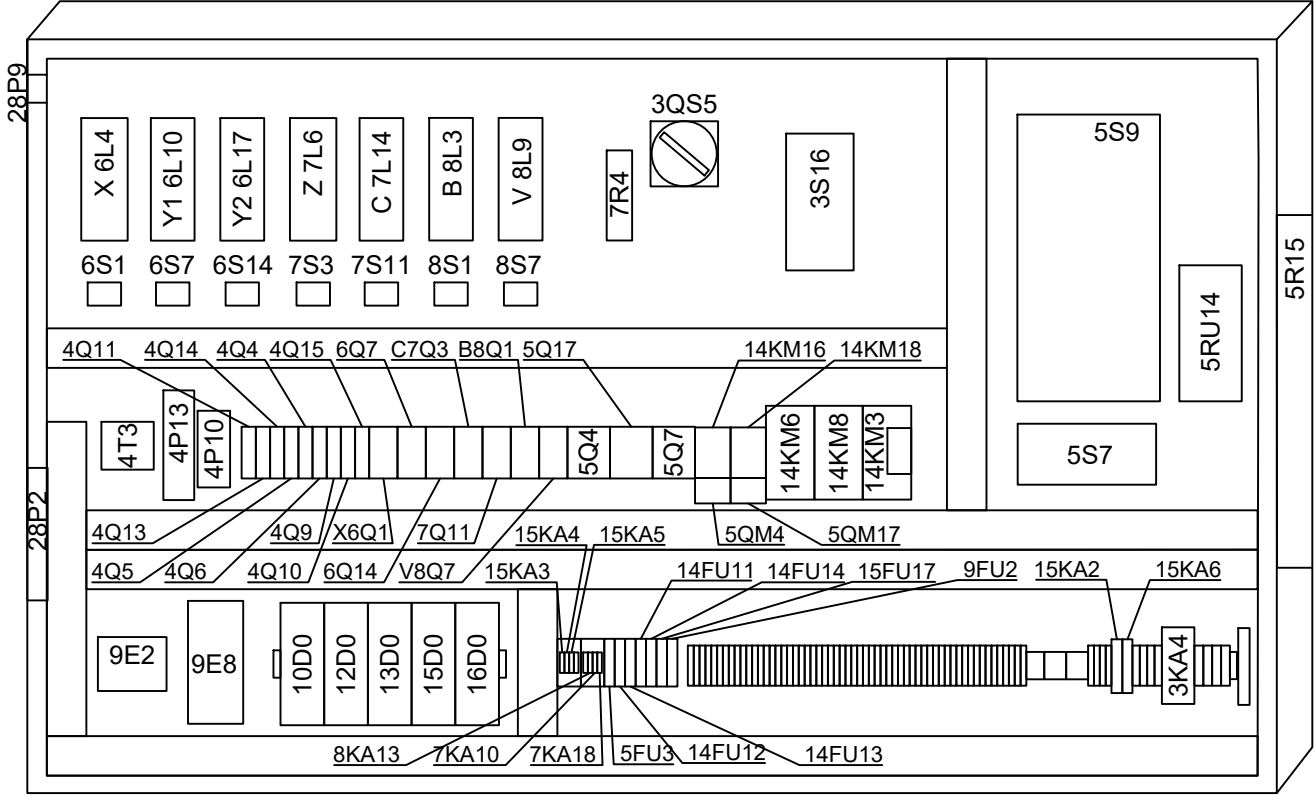


CAMERA

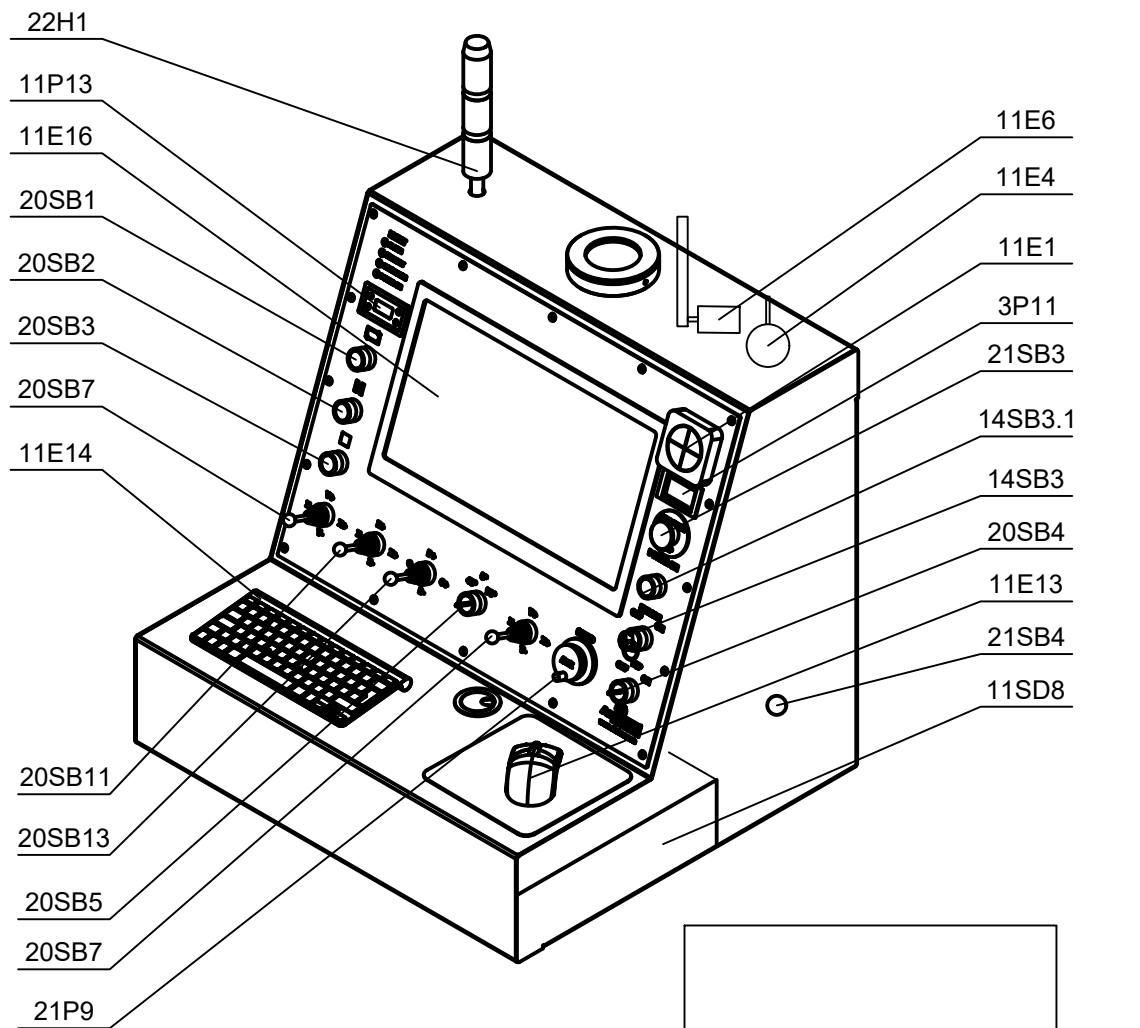
SAFETY LIGHT
BARRIER



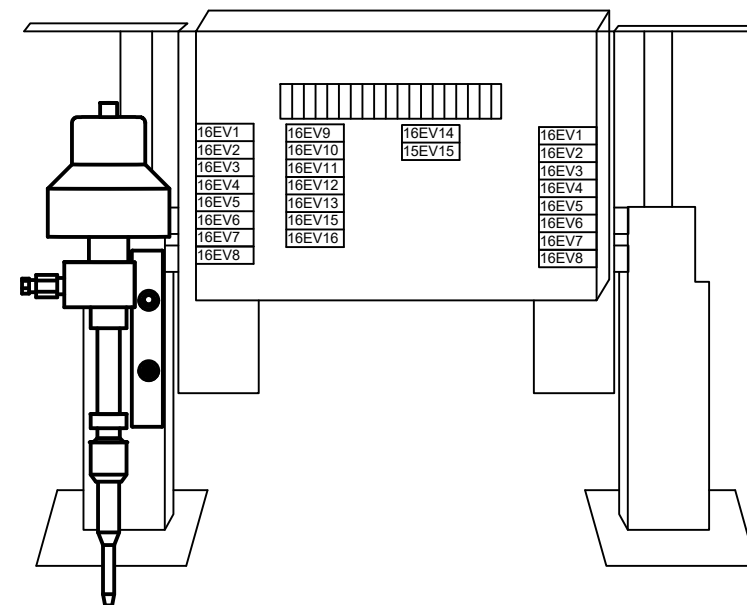
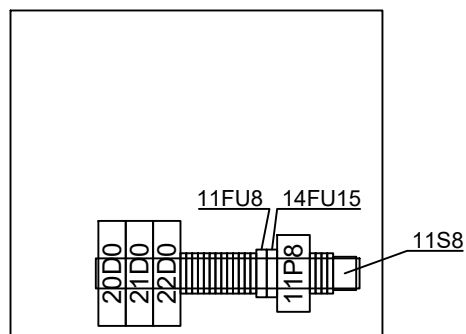
VACCUUM DIAGRAM



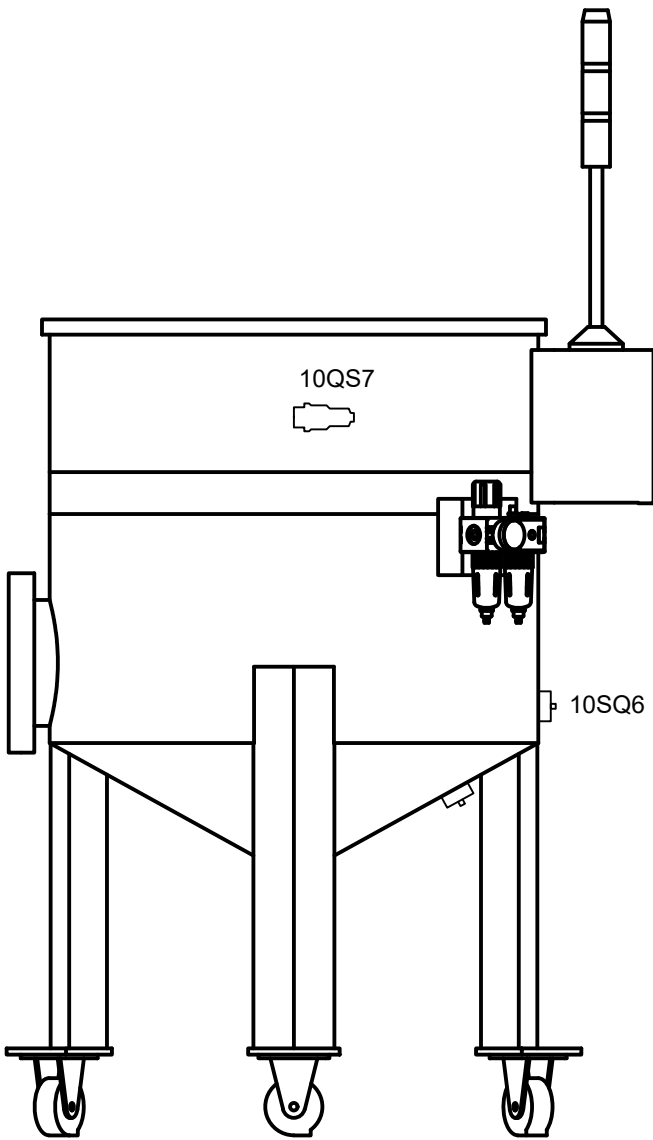
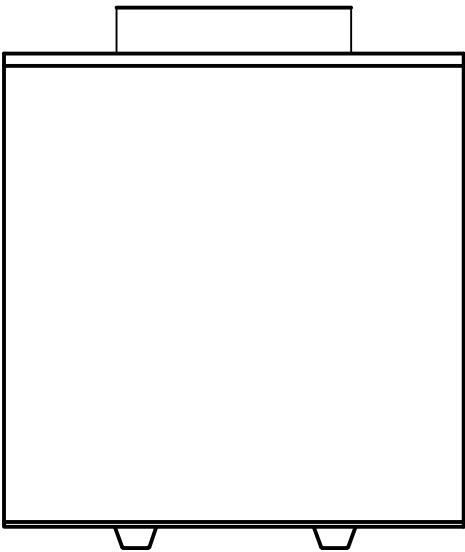
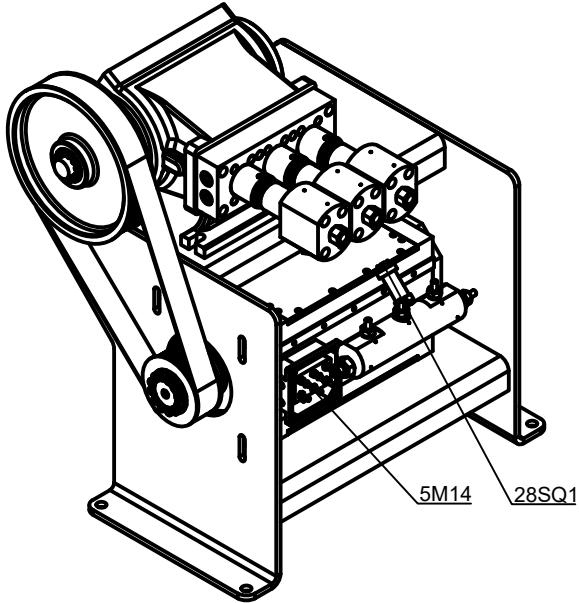
X00



X01



X02



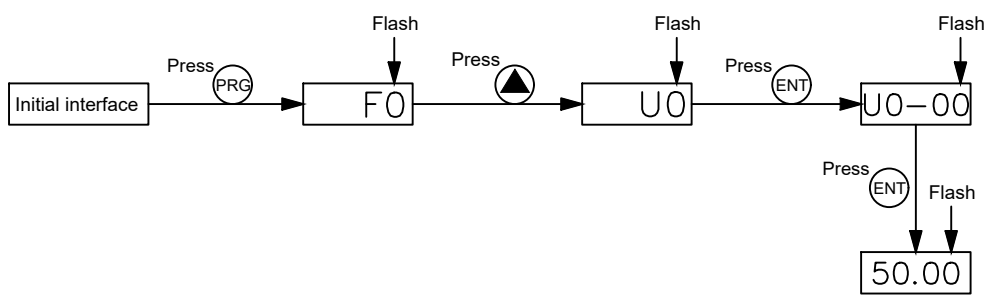
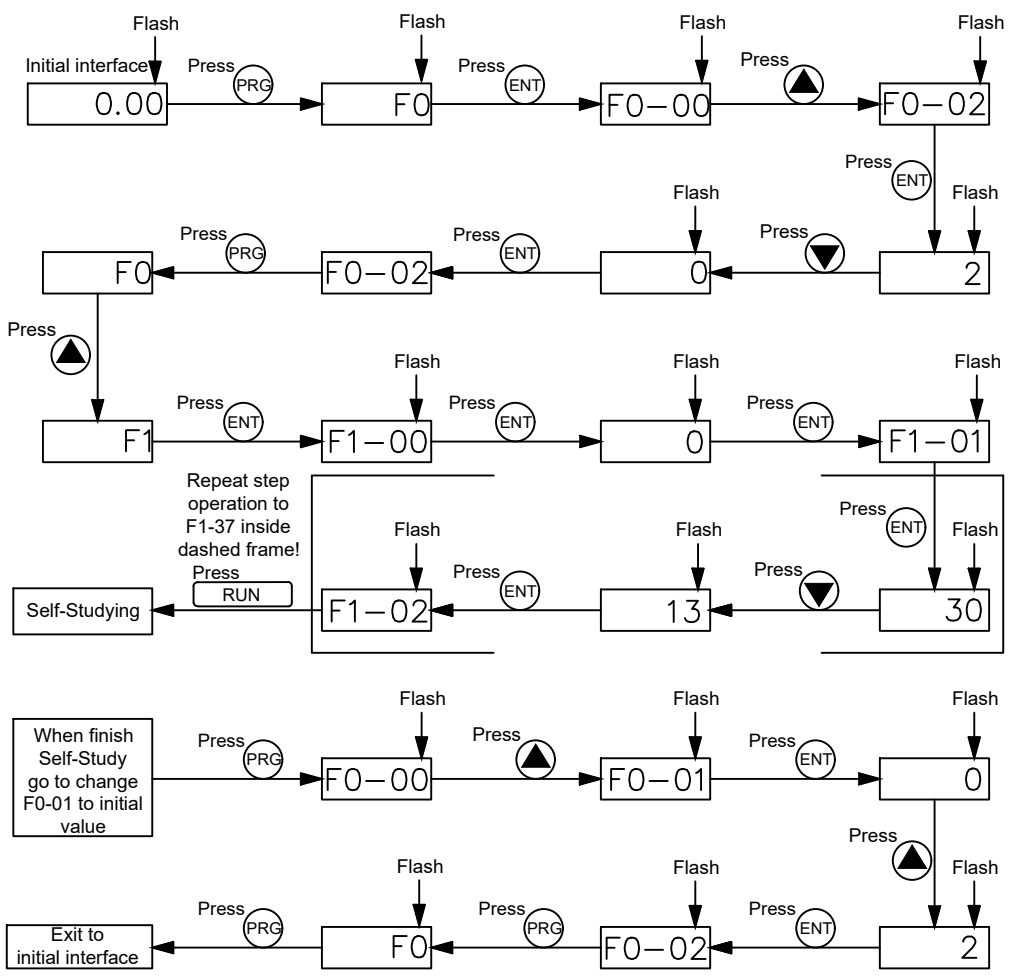
X02

Blade Motor Self-Study F1-37=2

Waterjet Motor Self-Study F0-24=1
A2-37=3

Monitoring Function

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



Inverter Parameter

Name	Rang	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	13	Kw
F1-02	1V-2000V	380	V
F1-03	0.01A-655.35A	32	A
F1-04	0.01Hz-MAX	60	Hz
F1-05	1RPM-65535RPM	1710	Rpm
F7-03	0000-FFFF	4051	
F7-04	0000-FFFF	0000	
A2-00	0,1	0	
A2-01	0.1kW-1000.0kW	20	Kw
A2-02	1V-2000V	380	V
A2-03	0.01A-655.35A	40	A
A2-04	0.01Hz-MAX	60	Hz
A2-05	1RPM-65535RPM	1710	Rpm

Servo Driver Parameter

Name	RANGE	X	Y1	Y2	Z	C	B	V
PA000	0~5000	1	1	1	1	1	1	1
PA001	0~9	9	9	9	9	9	9	9
PA002	0x0~0xFFFF	1	1	1	1	1	1	1
PA003	0~31	16	14	14	16	16	14	16
PA004	0~20000	400	550	550	350	400	300	250
PA015	0~32767	1	1	1	1	1	1	1
PA016	20~500				50			
PA017	20~5000				200			

0	1	2	3	4	5	6	7	8	9	10	11	12	13	
Pg.	Code	Name	Mfrs.	Model	Pg.	Code	Name	Mfrs.	Model	Pg.	Code	Name	Mfrs.	Model
3	3QS3	Examine and reepair lamp	--	--	7	7Q3	Circuit Breaker	Schneider	IC65N D10A 2P	7	7S3	Filter	Canny Well	CW1B-10A-L
3	3QS5	General Switch	GLELE	GLD11-63/08 +4P	7	7R4	Braking Resistor	--	200W50Ω	7	7M4	Z Motor	Leadshine	ACM13009H2E-40-L 850W Brake
3	3P11	Volt-ammeter	OUXIN	200-450V~0-100A	7	7L6	Z Servo Drive	Leadshine	L7EC-1000S	7	7KA10	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
3	3S16	Filter	DOTHINK	DTT2121-65-S16-S77	7	7Q11	Circuit Breaker	Schneider	IC65N D10A 2P	7	7S11	Filter	Canny Well	CW1B-10A-L
3	3KA4	PHASE RELAY	SHNTOER	TG30s	7	7M12	C Motor	Leadshine	ACM13009H2E-40-L 850W Brake	7	7L14	C Servo Drive	Leadshine	L7EC-1000S
4	4T3	Transformers	CHNT	NDK(BK)-150	7	7KA18	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V					
4	4Q4	Circuit Breaker	Schneider	IC65N D4A 1P	8	8Q1	Circuit Breaker	Schneider	IC65N D10A 2P	8	8S1	Filter	Canny Well	CW1B-6A-L
4	4Q5	Circuit Breaker	Schneider	IC65N D4A 1P	8	8M2	B Motor	Leadshine	ACM2-08008H2F1-E23-65 750W	8	8L3	B Servo Drive	Leadshine	L7EC-750S
4	4Q6	Circuit Breaker	Schneider	IC65N D1A 1P	8	8Q7	Circuit Breaker	Schneider	IC65N D10A 2P	8	8S7	Filter	Canny Well	CW1B-6A-L
4	4P10	Power Supply	MW	EDR-240-24 10A24VDC	8	8S7	Filter	Canny Well	CW1B-6A-L	8	8M8	V Motor	Leadshine	ACM8008M2F-B1-L-SS 750W
4	4Q9	Circuit Breaker	Schneider	IC65N D10A 1P	8	8M8	V Motor	Leadshine	ACM8008M2F-B1-L-SS 750W	8	8L9	V Servo Drive	Leadshine	L7EC-750S
4	4M7	Grease Pump	ML	MYK-202-200-0 15W/220V 2L	8	8KA13	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V	8	8E14	Industrial Chiller	TEYU	CW6000AN AC1P220V
4	4Q10	Circuit Breaker	Schneider	IC65N D4A 1P	8	8E18	Industrial Chiller	TEYU	CW-5200	9	9FU2	Fuse	CHE	FS-101 DC24V 2A
4	4P13	Switching Power Supply	WEHO	D-120B 5V24V	9	9E2	Ethernet Switch	TP-LINK	TL-SG1005D	9	9E8	CNC	AITEK	ETC-V2
4	4Q11	Circuit Breaker	Schneider	C65H-DC 1P C10A	9	9P15	RS485	--	HP-M31 0-5V 485	9	9D16	Scanner Laser	--	HG-C1030 NPN
4	4Q13	Circuit Breaker	Schneider	C65H-DC 1P C4A	9	9E13	USB KEY	AITEK		9				
4	4Q14	Circuit Breaker	Schneider	C65H-DC 1P C4A	9					9				
4	4Q15	Circuit Breaker	Schneider	IC65N D4A 1P	10	10D0	ETHERCAT	AITEK	IN MODULE	10	10QS4	Air Pressure Switch	SQW	QPM11-NC
4					10	10QS4	Air Pressure Switch	SQW	QPM11-NC	10	10QS5	Water Pressure Switch	SN	DN8 1.1-1.8kgf/m² (ON-OFF)
5	5FU3	Fuse	CHE	FS-101 DC24V 2A	10	10QS5	Water Pressure Switch	SN	DN8 1.1-1.8kgf/m² (ON-OFF)	10	10SQ6	SENSOR	--	--
5	5HL3	LED LIGHT	--	24V5050	10	10SQ6	SENSOR	--	--	10	10Q7S	SENSOR	SQW	QPM11-NC
5	5Q4	Circuit Breaker	Schneider	IC65N D10A 3P	10	10Q7S	SENSOR	SQW	QPM11-NC	10	10SQ9	SENSOR	--	--
5	5QM4	Thermal Relay	Schneider	LRD14C 7-10A	10	10SQ9	SENSOR	--	--	10	10SQ10	SENSOR	--	--
5	5M4	Vacuum Pump Motor	BOSHAN	2BV-2601 380V	10	10SQ10	SENSOR	--	--	10	10SQ11	Chiller Sensor	--	--
5	5Q7	Circuit Breaker	Schneider	IC65N D50A 3P	10	10SQ11	Chiller Sensor	--	--	10	10SQ12	SENSOR	--	--
5	5S7	Filter	DOTHINK	DTT2121-50-S16-S77	10	10SQ12	SENSOR	--	--	10	10SQ13	Chiller Sensor	--	--
5	5S9	Frequency Converter	INOVANCE	MD500T30G	11	11E1	Computer Power On/Off	Aitalmac	--	11	11E4	USB-remote	Aitalmac	REMOTE-V2
5	5R15	Braking Resistor	INOVANCE	6000W20Ω	11	11E4	USB-remote	Aitalmac	REMOTE-V2	11	11E6	USB-WiFi	UGREEN	AC650M
5	5M11	Spindle Motor	AitalMac	380V 13KW	11	11E6	USB-WiFi	UGREEN	AC650M	11	11S8	Filter	Canny Well	CW1B-6A-L
5	5M12	WATJET Motor	AitalMac	380V 20KW	11	11S8	Filter	Canny Well	CW1B-6A-L	11	11SD8	Windows PC	AITEK	WIN-A5
5	5RU14	Braking Unit	--	CDBR-4045	11	11SD8	Windows PC	AITEK	WIN-A5	11	11E14	USB-Mouse	Lenovo	M300
5	5Q17	Circuit Breaker	Schneider	IC65N D10A 3P	11	11E14	USB-Mouse	Lenovo	M300	11	11E13	USB-Keybaord	Logitech	K310
5	5QM17	Thermal Relay	Schneider	LRD14C 7-10A	11	11E13	USB-Keybaord	Logitech	K310	11	11E16	PC Monitor	Anmite	AN-195W01D
5	5M17	Hydraulic Pump Motor	WANERF	4WE6J-6X/ED24 3KW	11	11E16	PC Monitor	Anmite	AN-195W01D	11	11FU18	FUSE	CHE	FS-101 DC24V 2A
5					11	11FU18	FUSE	CHE	FS-101 DC24V 2A	11	11P18	Power Supply	MW	EDR-75-12 6.3A12VDC
6	6Q1	Circuit Breaker	Schneider	IC65N D10A 2P										
6	6S1	Filter	Canny Well	CW1B-10A-L										
6	6M2	X Motor	Leadshine	ACM13009H2F-40-L 850W										
6	6L4	X Servo Drive	Leadshine	L7EC-1000S										
6	6Q7	Circuit Breaker	Schneider	IC65N D10A 2P										
6	6S7	Filter	Canny Well	CW1B-10A-L										
6	6M8	Y1 Motor	Leadshine	ACM13009H2F-40-L 850W										
6	6L10	Y1 Servo Drive	Leadshine	L7EC-1000S										
6	6Q14	Circuit Breaker	Schneider	IC65N D10A 2P										
6	6S14	Filter	Canny Well	CW1B-10A-L										
6	6M15	Y2 Motor	Leadshine	ACM13009H2F-40-L 850W										
6	6L17	Y2 Servo Drive	Leadshine	L7EC-1000S										
6														

0	1	2	3	4	5	6	7	8	9	10	11	12	13
Pg.	Code	Name	Mfrs.	Model	Pg.	Code	Name	Mfrs.	Model				
12	12D0	ETHERCAT	AITEK	IN MODULE	14	14KM16	Contactactor	Schneider	LC1-D18B7C AC24V				
12	12SQ1	X Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)	14	14KM18	Contactactor	Schneider	LC1-D18B7C AC24V				
12	12SQ2	Y1 Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)	14								
12	12SQ3	Y2 Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)									
12	12SQ4	Z Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)	15	15D0	ETHERCAT	AITEK	OUT MODULE				
12	12SQ5	C Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)	15	15KA2	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V				
12	12SQ6	B Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)	15	15KA3	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V				
12	12SQ7	V Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)	15	15KA4	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V				
12	12SQ8	Scanner Laser Cylinder Up Sensor	CHVIRD	CS1-U	15	15KA6	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V				
12	12SQ9	Check Table Cylinder Up Sensor	CHVIRD	CS1-U	15	15EV9	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
12	12SQ10	Check Table Cylinder Down Sensor	CHVIRD	CS1-U	15	15EV9	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
12	12SQ11	Right Vacuum Sensor	CHVIRD	CS1-U	15	15EV10	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
12	12SQ12	Left Vacuum Sensor	CHVIRD	CS1-U	15	15EV11	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
12	12SQ13	Left Arm Vacuum Extended Sensor	--	AN-07D	15	15EV12	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
12	12SQ14	Right Arm Vacuum Extended Sensor	--	AN-07D	15	15EV13	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
12	12SQ15	Blade Probe	--	--	15	15EV14	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
					15	15EV15	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
					15	15EV16	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
13	13D0	ETHERCAT	AITEK	IN MODULE	16	16D0	ETHERCAT	AITEK	OUT MODULE				
13	13SQ1	Vacuum1 Generator	SMDQ	QK-01F -80KPA	16	16EV1	Solenoid Valve	OST	T101-BM 24V NO/NC				
13	13SQ2	Vacuum2 Generator	SMDQ	QK-01F -80KPA	16	16EV2	Solenoid Valve	OST	T101-BM 24V NO/NC				
13	13SQ3	Vacuum3 Generator	SMDQ	QK-01F -80KPA	16	16EV3	Solenoid Valve	OST	T101-BM 24V NO/NC				
13	13SQ4	Vacuum4 Generator	SMDQ	QK-01F -80KPA	16	16EV4	Solenoid Valve	OST	T101-BM 24V NO/NC				
13	13SQ5	Vacuum5 Generator	SMDQ	QK-01F -80KPA	16	16EV5	Solenoid Valve	OST	T101-BM 24V NO/NC				
13	13SQ6	Vacuum6 Generator	SMDQ	QK-01F -80KPA	16	16EV6	Solenoid Valve	OST	T101-BM 24V NO/NC				
13	13SQ7	Vacuum7 Generator	SMDQ	QK-01F -80KPA	16	16EV7	Solenoid Valve	OST	T101-BM 24V NO/NC				
13	13SQ8	Vacuum8 Generator	SMDQ	QK-01F -80KPA	16	16EV8	Solenoid Valve	OST	T101-BM 24V NO/NC				
13	13QS9	WATJET Cylinder Up	CHVIRD	CS1-U	16	16EV9	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
13	13QS10	WATJET Cylinder Down	CHVIRD	CS1-U	16	16EV10	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
13	13SQ11	Table Limit Sensor	ENMG	ET8111-CF-2	16	16EV11	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
13	13SQ12	Table Limit Sensor	Moujen	ME-9101	16	16EV12	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
					16	16EV13	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
					16	16EV14	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
					16	16EV15	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
					16	16EV16	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
14	14SB3	Enable Key Switch	RENY	RBSNK-2									
14	14SB3.1	Power On Button	RENY	R2PIF-1D-2GL									
14	14KM3	Contactactor	Schneider	LC1-D65AB7C AC24V & LADN11	20	20D0	ETHERCAT	AITEK	IN MODULE				
14	14KM6	Contactactor	Schneider	LC1-D50AB7C AC24V	20	20SB1	Control Box-Automatic Button	RENY	RAPNF-1A-G				
14	14KM8	Contactactor	Schneider	LC1-D50AB7C AC24V	20	20SB2	Control Box-Pause Button	RENY	RAPNF-1A-Y				
14	14FU9	Fuse	CHE	FS-101 DC24V 2A	20	20SB3	Control Box-Stop Button	RENY	RAPNF-1A-R				
14	14A9	Blade Laser	--	16mm	20	20SB4	TCP On/Off Switch	RENY	R2SNS-2FE-1D-G				
14	14FU11	Fuse	CHE	FS-101 DC24V 2A	20	20SB5	B Axis Angle Knob	RENY	R2SNS-3TB-2A-B				
14	14E11	V Brake	--	24VDC 1A	20	20SB7	X/Y Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm				
14	14FU12	Fuse	CHE	FS-101 DC24V 2A	20	20SB11	X/Z Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm				
14	14E12	Z Brake	--	24VDC 1A	20	20SB13	B/C Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm				
14	14FU13	Fuse	CHE	FS-101 DC24V 2A									
14	14E13	C Brake	--	24VDC 1A									
14	14FU14	Fuse	CHE	FS-101 DC24V 2A									
14	14E14	FAN	PAPST	TYP4114N/12MR 24V 6W 12CM									
14	14FU15	Fuse	CHE	FS-101 DC24V 2A									
14	14E15	FAN	PAPST	TYP4114N/12MR 24V 6W 12CM									

0	1	2	3	4	5	6	7	8	9	10	11	12	13
Pg.	Code	Name	Mfrs.	Model									
21	21D0	ETHERCAT	AITEK	IN MODULE									
21	21P1	Speed Control Wheel	AITEK	24VPLC									
21	21SB3	EMERGENCY Button	RENY	R2PNR4-1B									
21	21SB4	Switch	RENY	RBSNK-2									
22	22D0	ETHERCAT	AITEK	OUT MODULE									
22	22H1	Alarm Indicator lamp	TAYB	TB50-4T-D 24V									
26	26P3	Power Supply	MW	5V									
26	26FU3	Fuse	CHE	FS-101 DC24V									
26	26A3	CARD	RASPBERRY PI	PI4-4G									
26	26E3	CAMERA	LOGITECH	C930C									
26	26E9	SAFETY DOOR	ALX	ABI10-482									
26	26E10	SAFETY DOOR	ALX	ABI10-482									
26													
28	28SQ1	Waterjet Pressure Sensor	--	--									
28	28P2	Waterjet Pressure Gauge	--	PY500									
28	28P7	Thermometer	JQS	XY-WT01									
28	28P9	Thermometer	JQS	XY-WT01									
Aitalmac www.aitalmac.com			Designed By	Checked By	Approved By	Trimness By	Description						
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