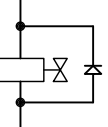
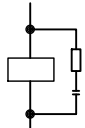
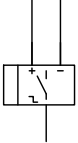
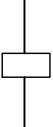
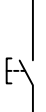
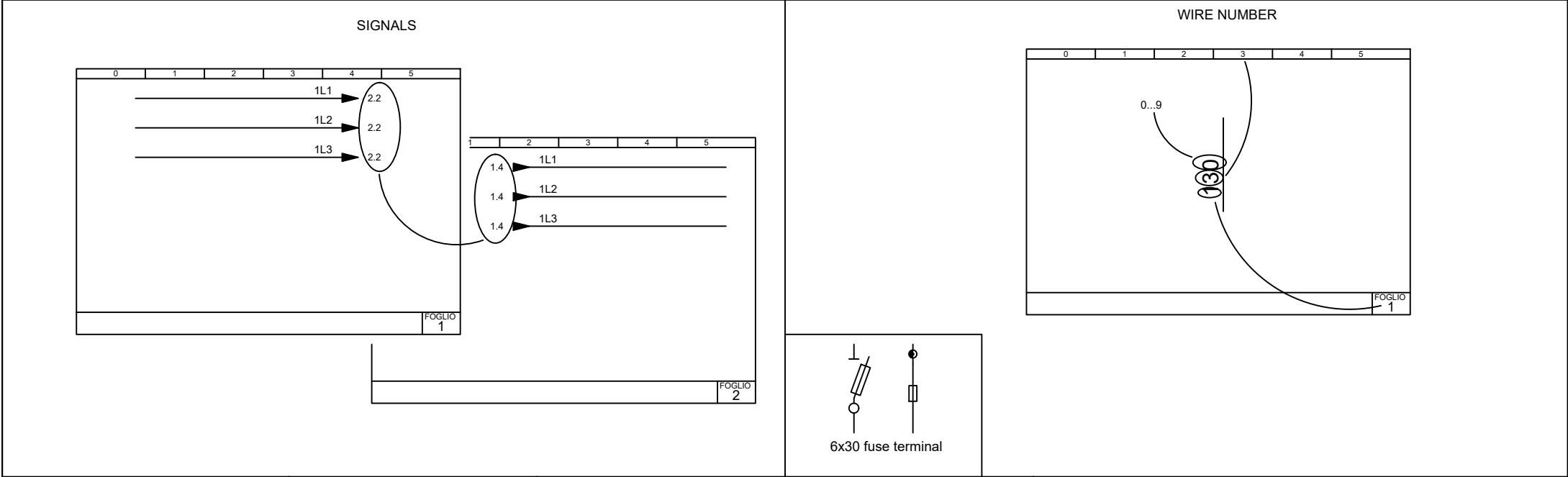
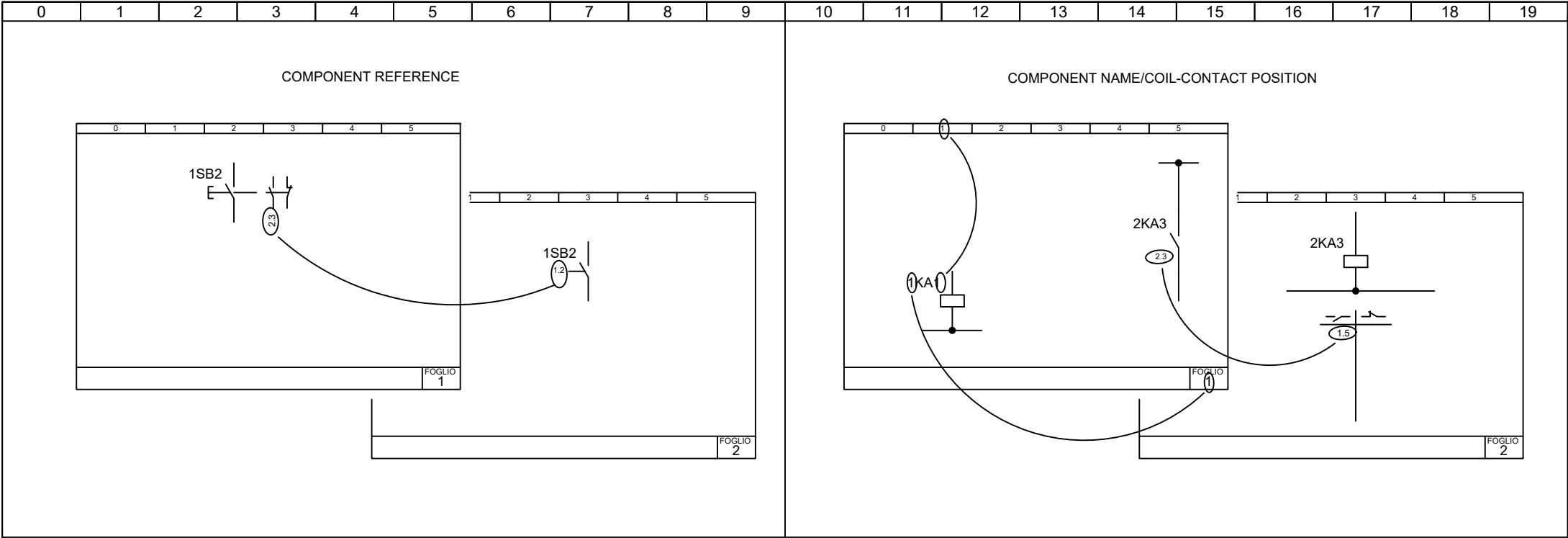


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AITALMAC Heng Sheng Road , Gao Chun Economic Development Zone , NANJING,211300 P.R.CHINA										LOCATION SYMBOLS ☐ Components on the door ☐ Components inside the cubicle (usually omitted) ☒ Machine components (usually omitted)				COMPONENTS DESIGNATION 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					VOLT. 380																								
SAWJET					FREQ. 50-60																								
WIRING DIAGRAM					CUBICLE DIMENSION																								
Sawjet-240303					L (mm) 1835																								
					H (mm) 560																								
					P (mm) 320																								
CONDUCTORS DESIGNATION																				COLORS WH White GY Gray YE Yellow BU Blue RD Red BK Black OG Orange GNYE GreenYellow									
COLOR FUNCTION MINIMUM SECTION																													
BLACK power circuit A.C./D.C. 1,0mm²																													
RED A.C. auxiliary circuit 1,0mm²																													
WHITE D.C. auxiliary circuit 1,0mm²																													
BLUE N 2.5mm²																													
YELLOW GREEN protection earth 2,5mm²																													
SCREEN CABLE reference - signal 0.75 mm²																													
RED +/BLUE - thermocouples COMPENSATED CABLE																													
PLC circuit 0,25mm² (0,5mm² I<2A)																													
THE WIRING DIAGRAM IS INDICATED WITHOUT TENSION, AIR, OIL AND WATER FLOW.										MAIN CIRCUIT BREAKER OPERATING TIME: _____ SYMMETRICAL SHORT-CIRCUIT CURRENT: _____																			
										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.																			
AitalMac www.aitalmac.com					Designed By : ZLJ			Checked By :			Trimness By :			Description :															
					Machine : Sawjet			Date: 03.26.2024			Revision: Sawjet-240303			Approved By :			Pag. 1		Next. 1.1										

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



012345

WIRE NUMBER

012345

0...9

130

1

2

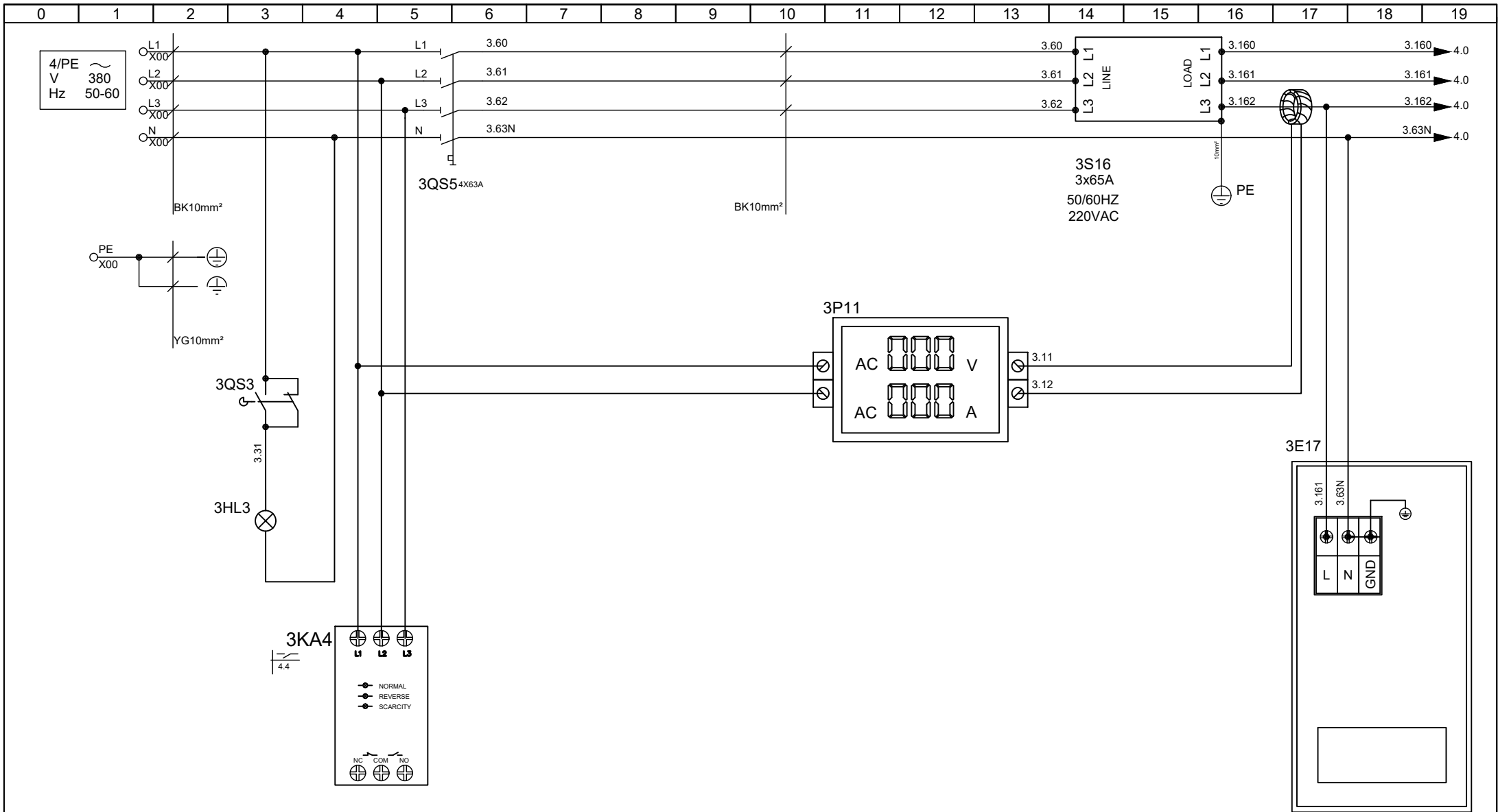
3

4

5

FOGLIO 1

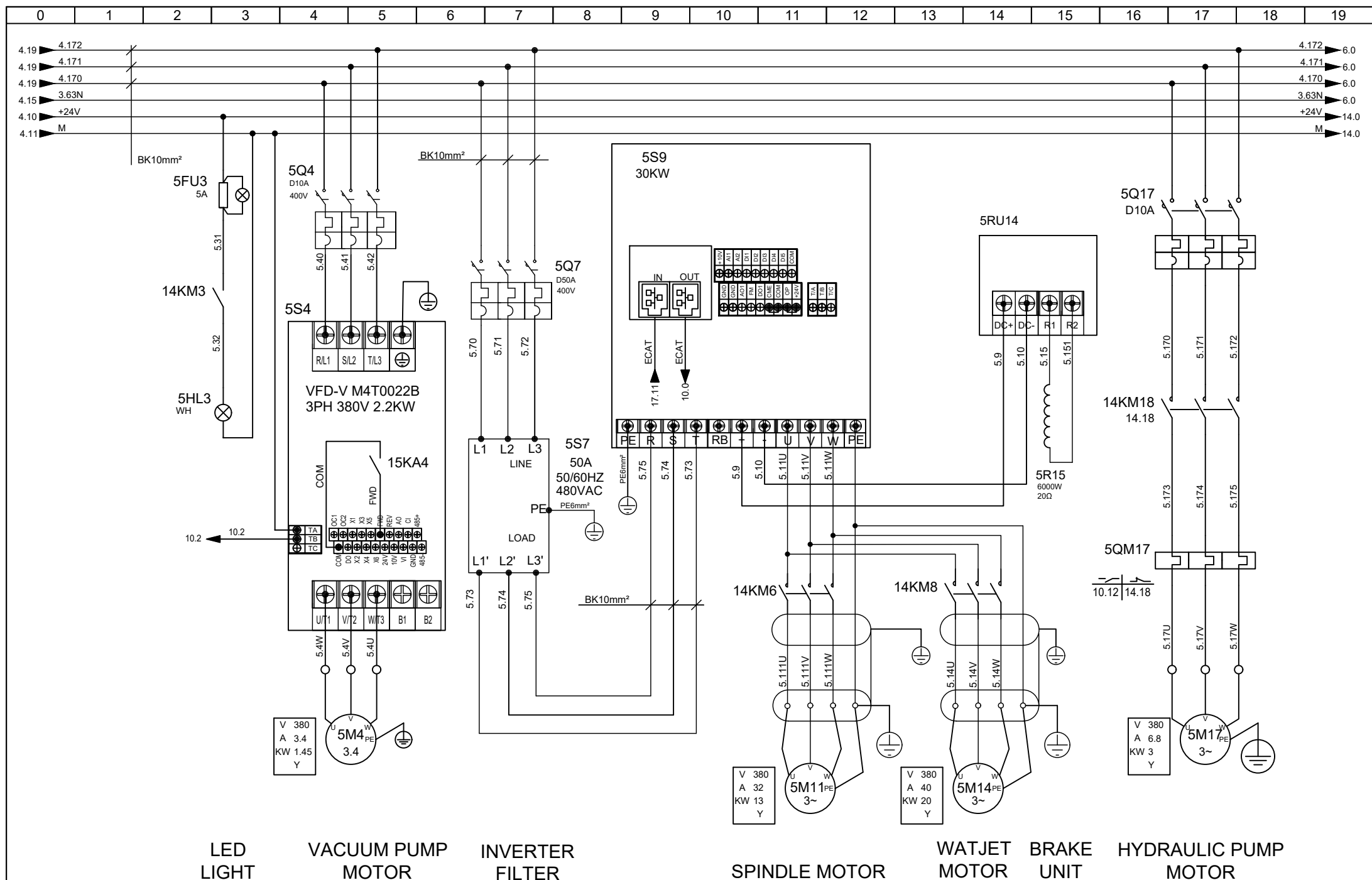
6x30 fuse terminal

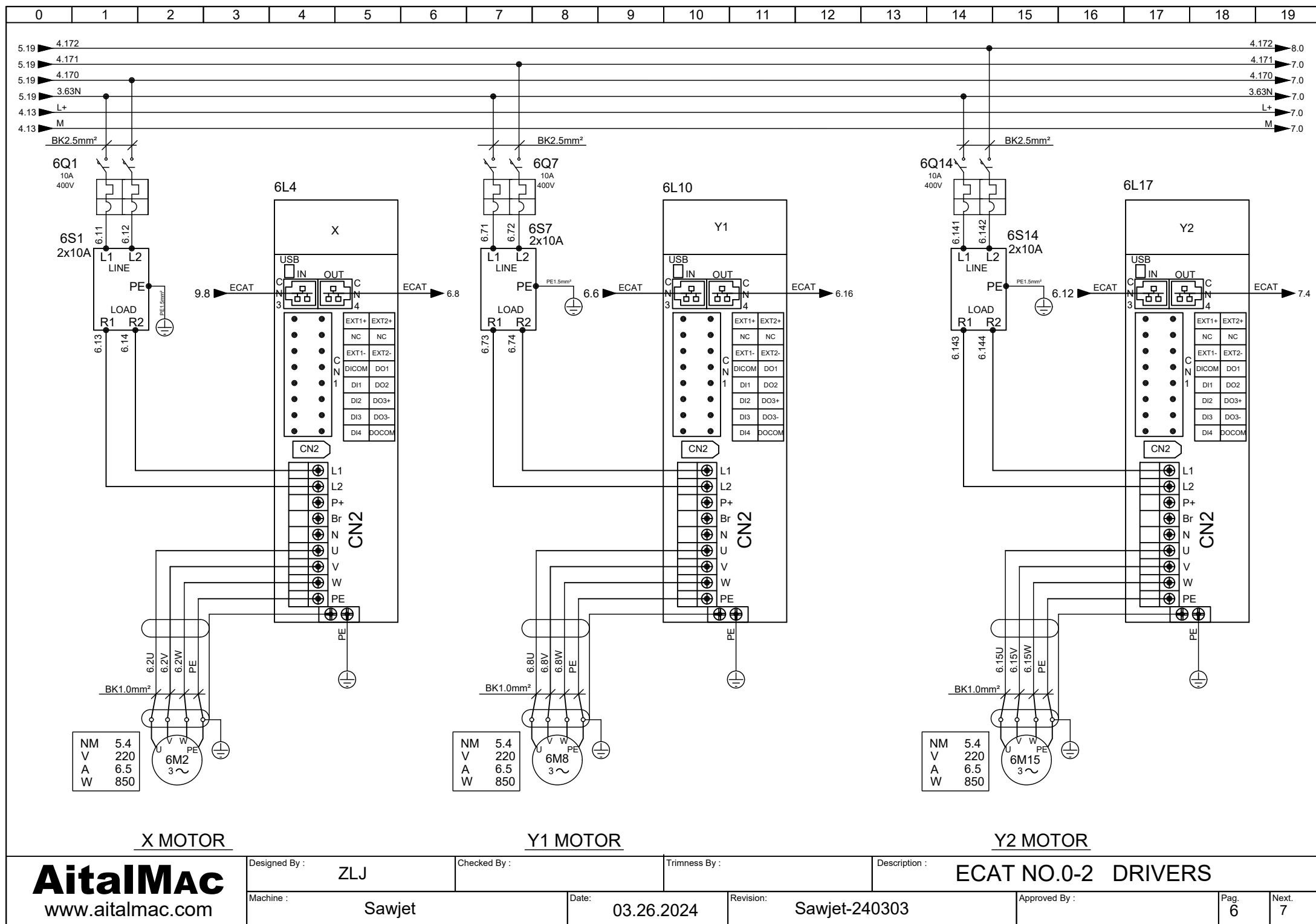


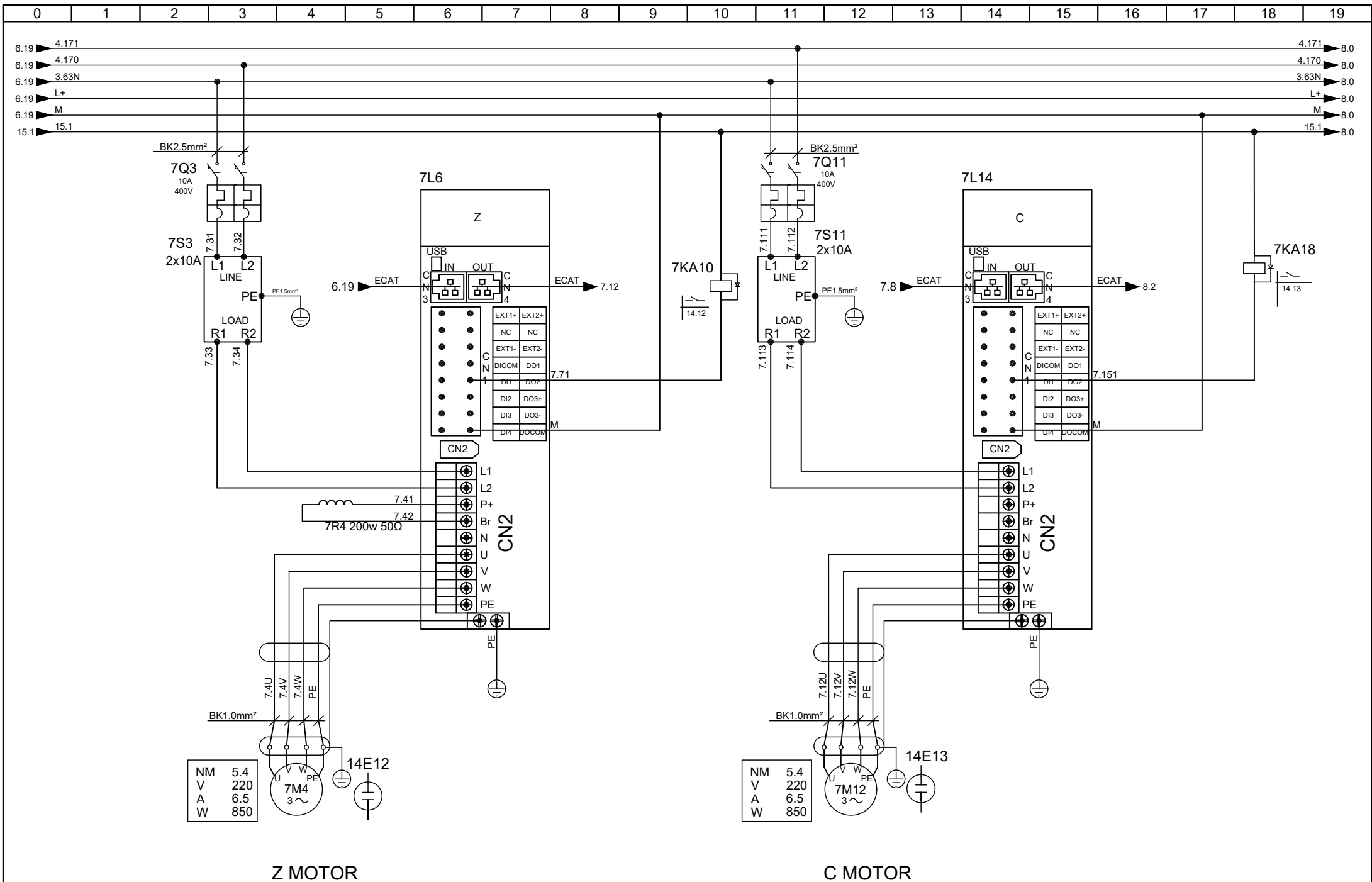
EXAMINE AND PHASE PROTECTION GENERAL
REEPAIR LAMP RELAY SWITCH

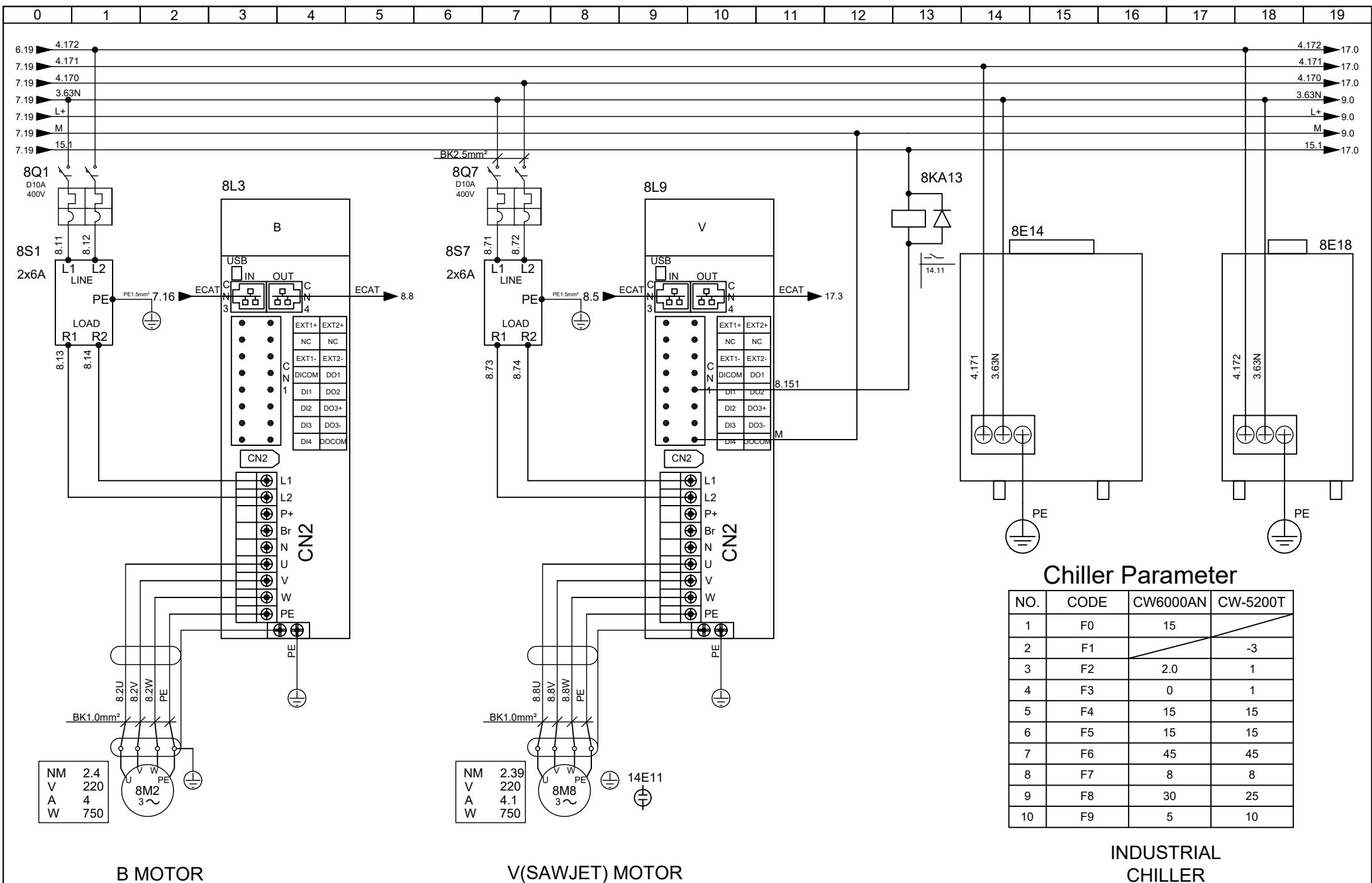
FILTER

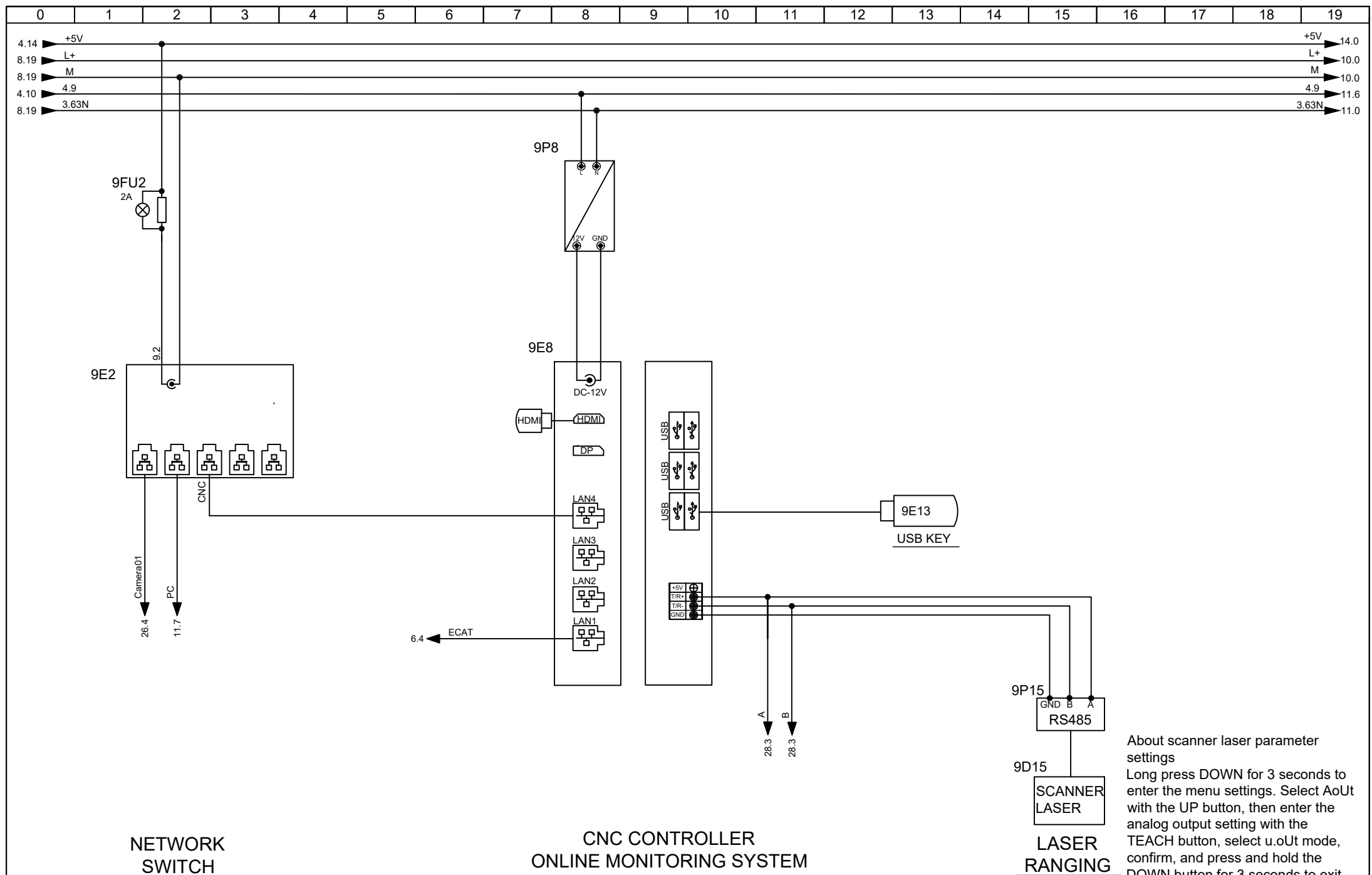
AIRCO



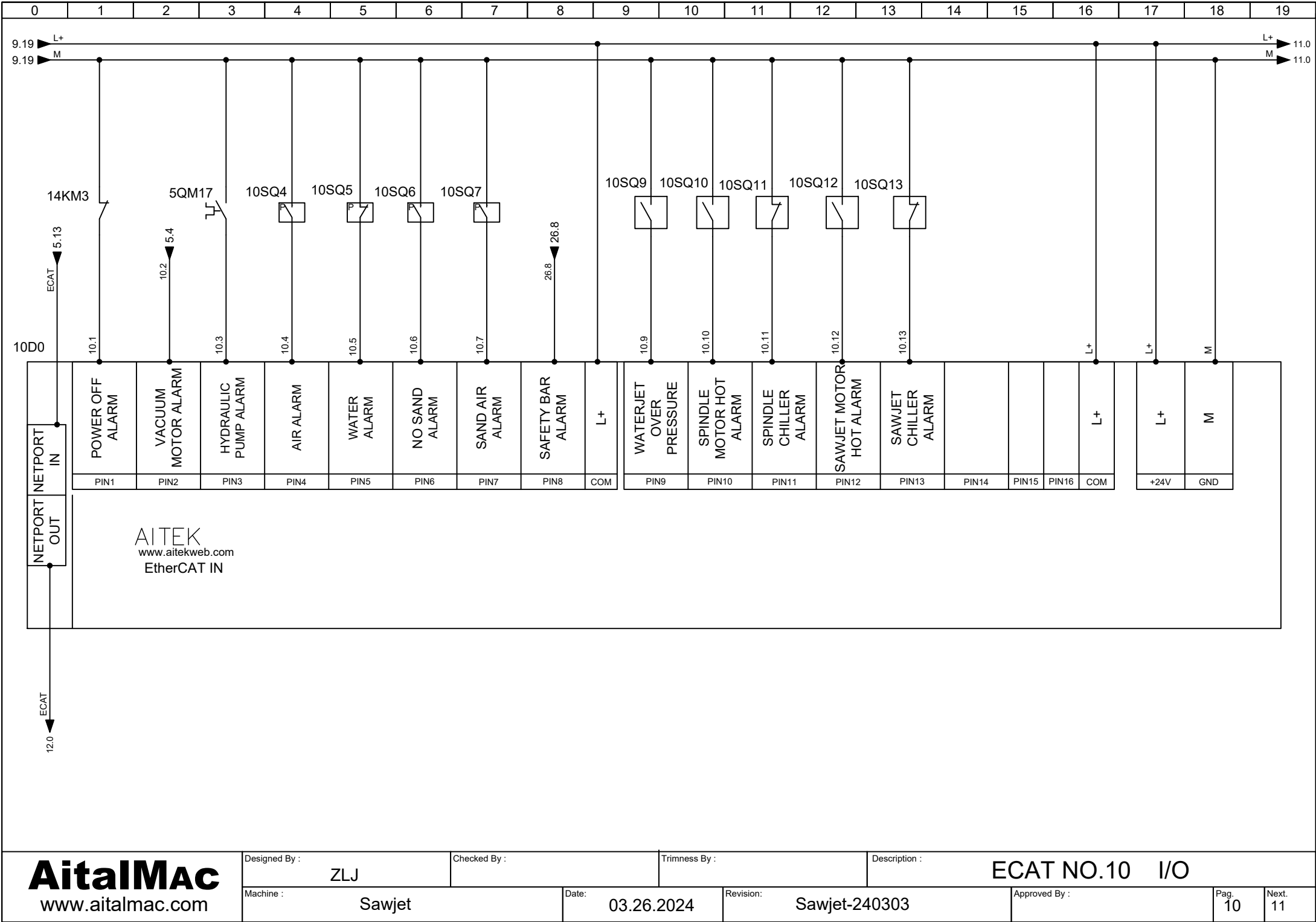








About scanner laser parameter settings
Long press DOWN for 3 seconds to enter the menu settings. Select AoUt with the UP button, then enter the analog output setting with the TEACH button, select u.oUt mode, confirm, and press and hold the DOWN button for 3 seconds to exit.



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Designed By :
ZLJ

Machine :
Sawjet

Checked By :

Date:
03.26.2024

Trimness By :

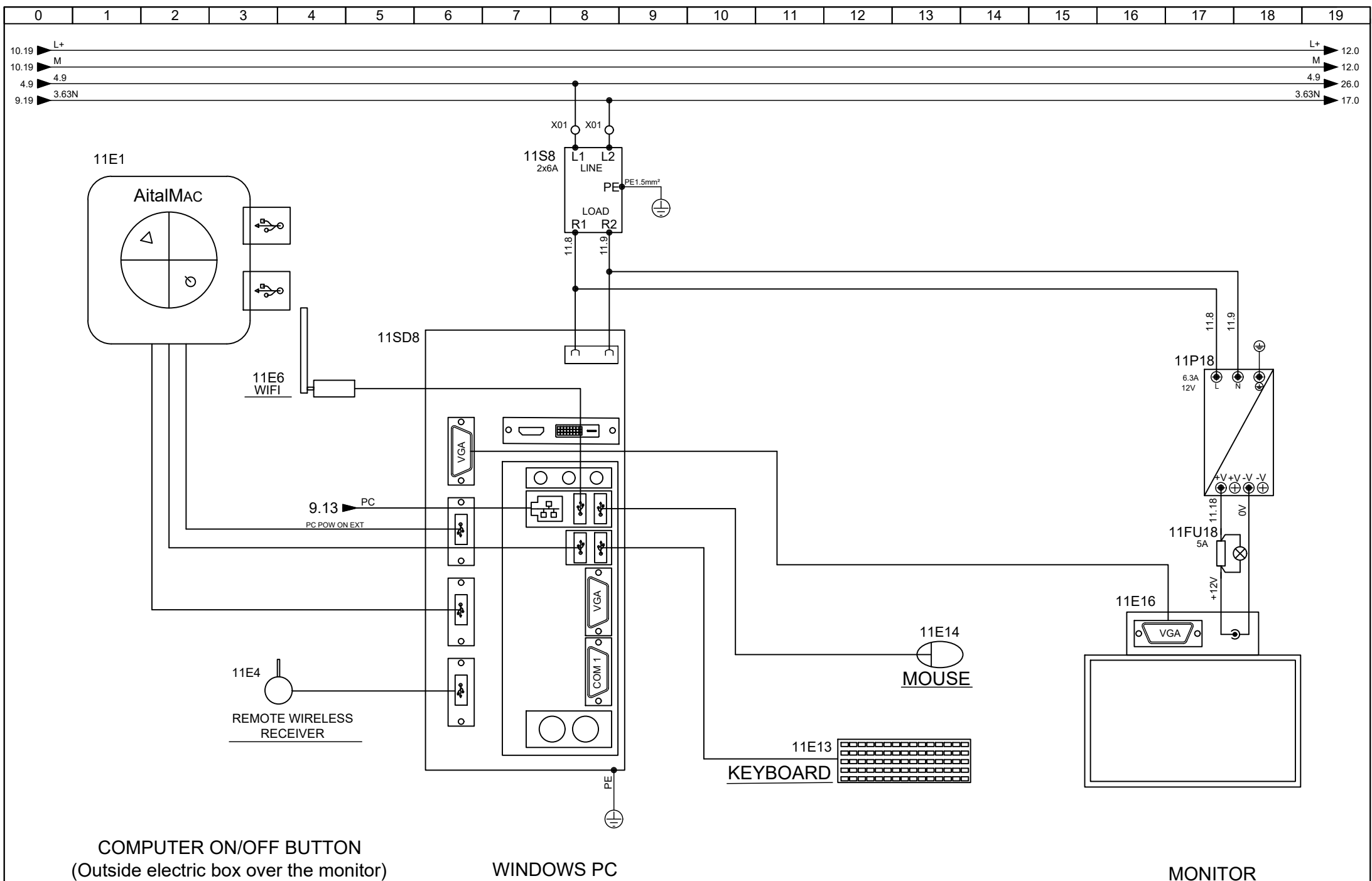
Revision:
Sawjet-240303

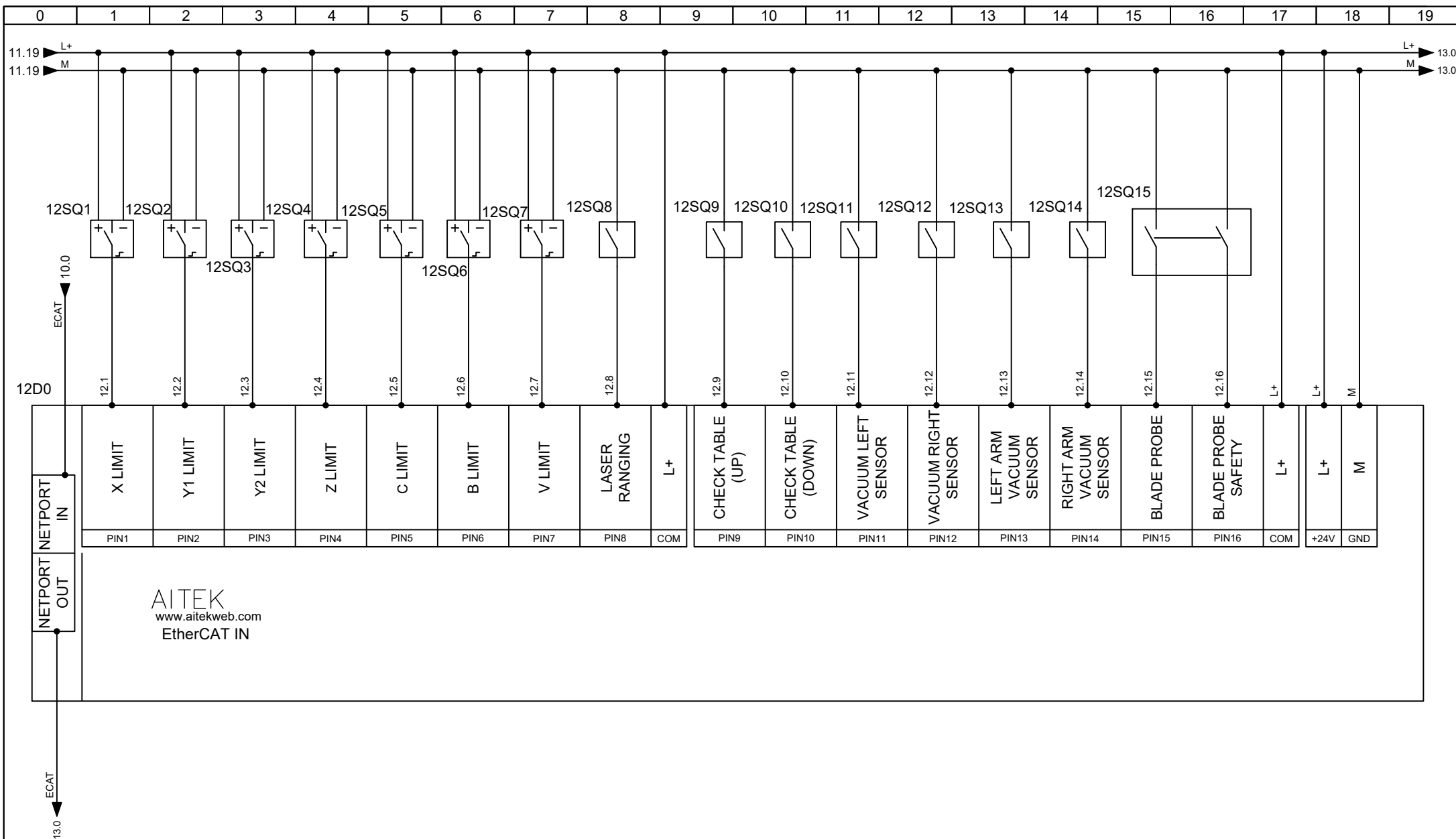
Description :
ECAT NO.10 I/O

Approved By :

Pag.
10

Next.
11





Designed By :

Checked By :

03.26.2024

Trimness By :

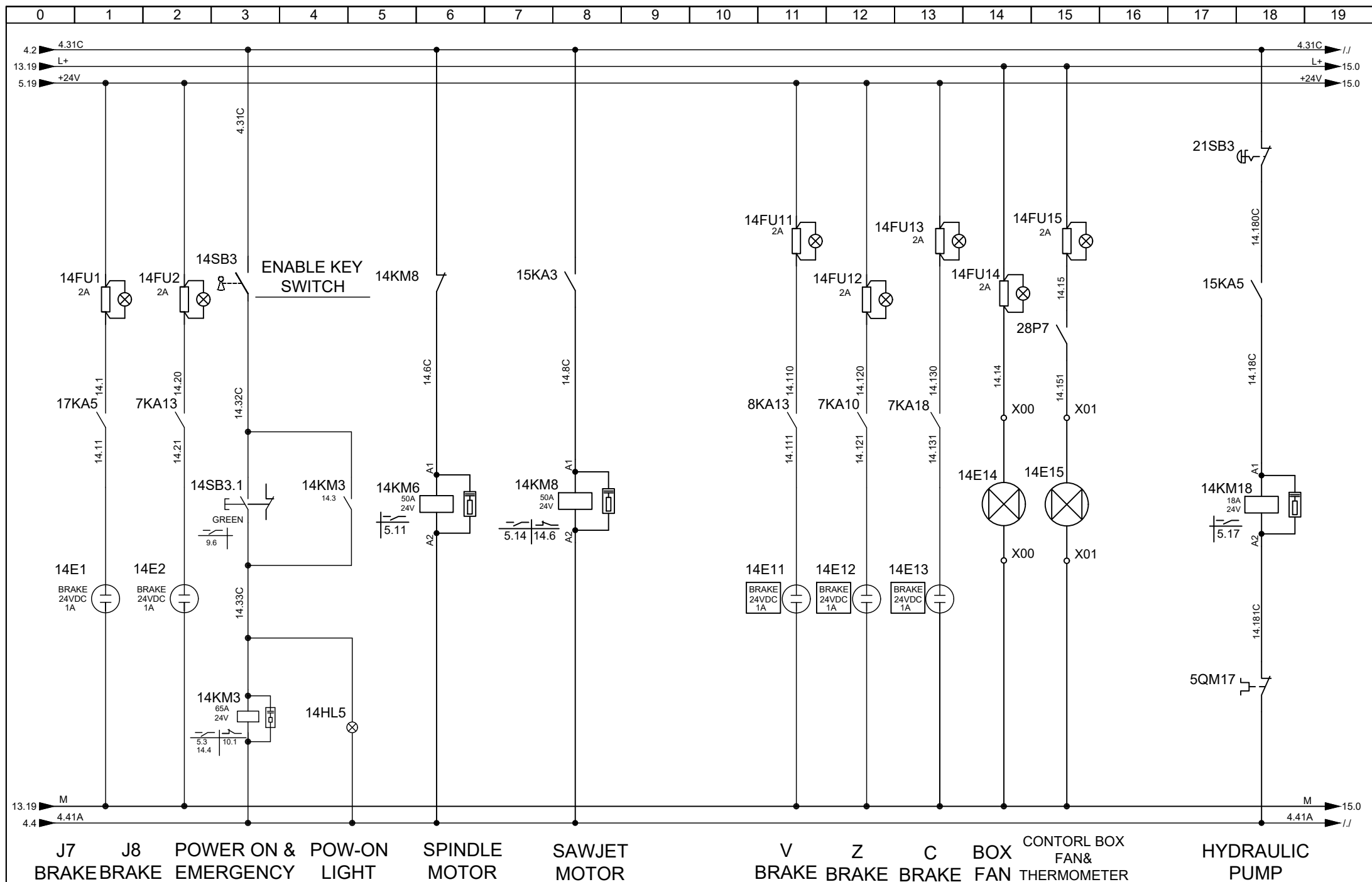
Sawjet-240303

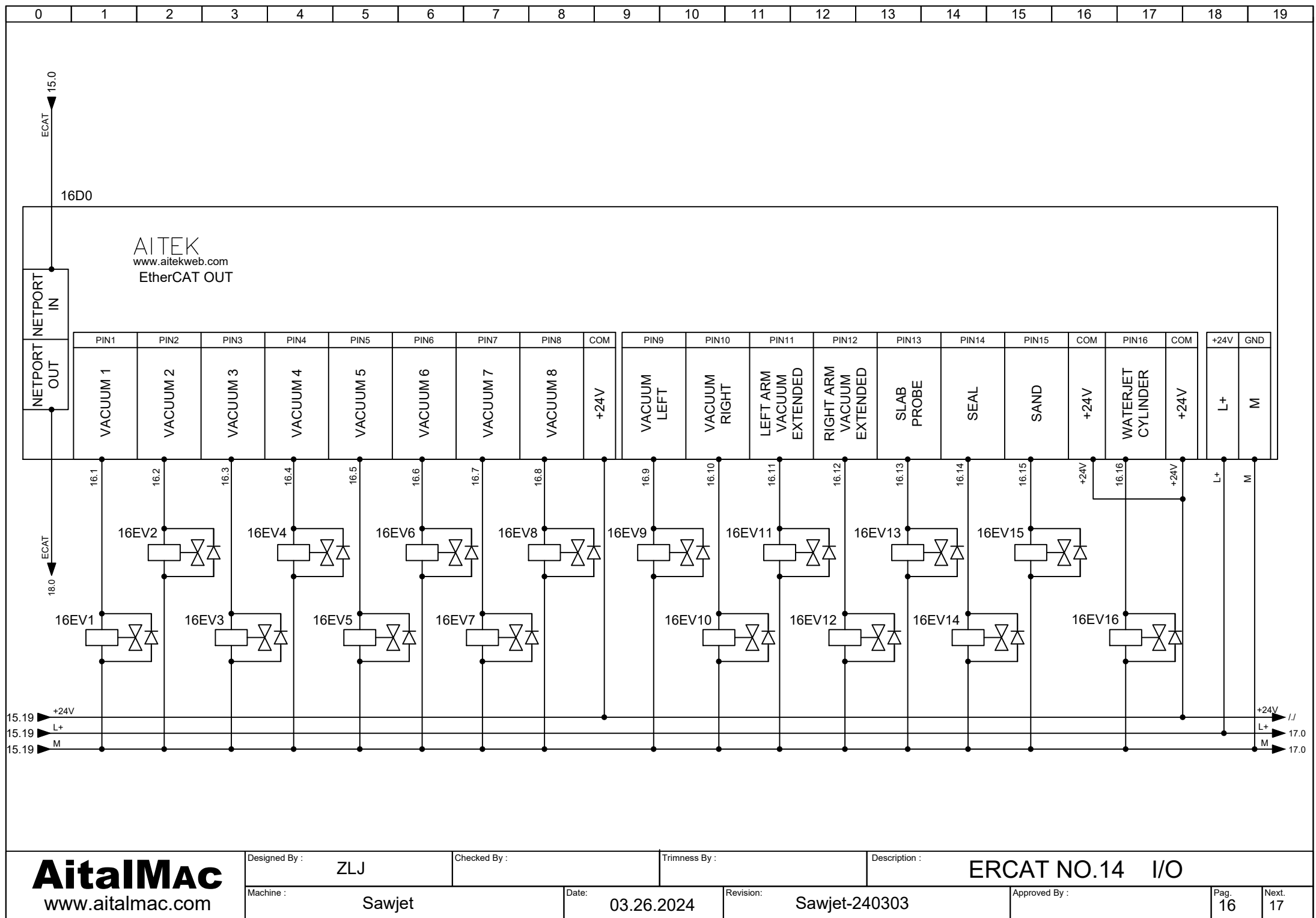
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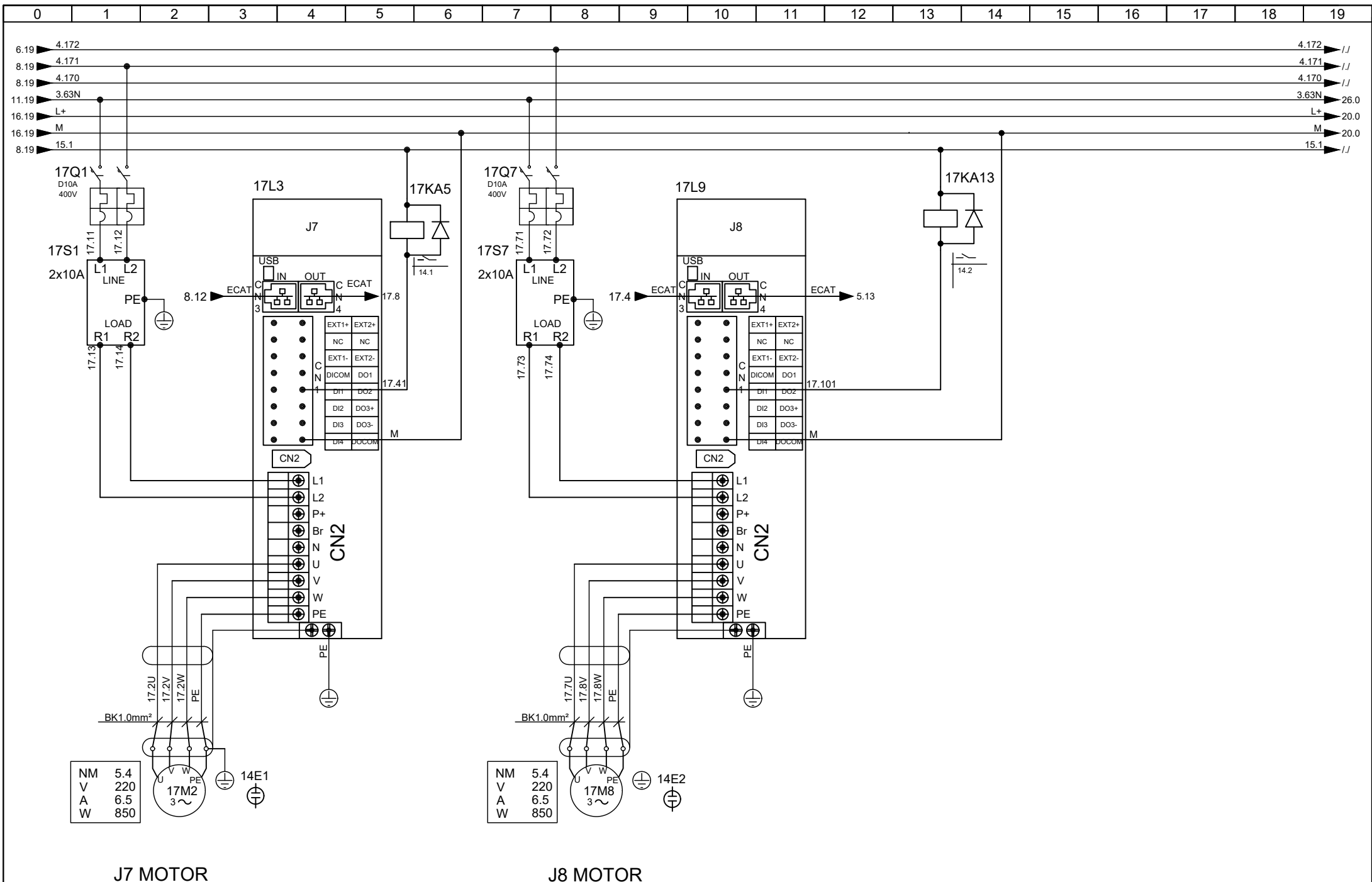
Approved By :

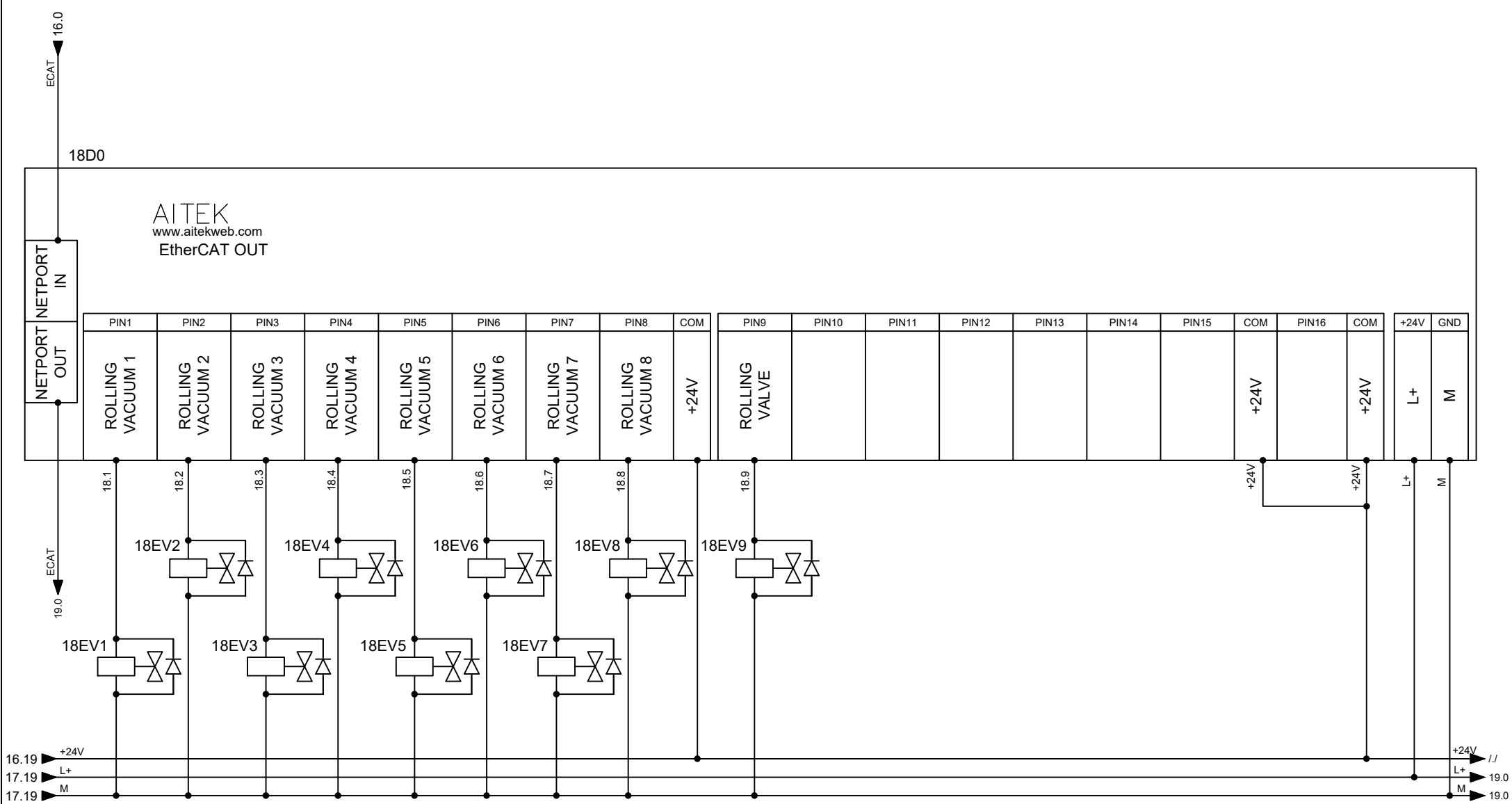
Pag.
12

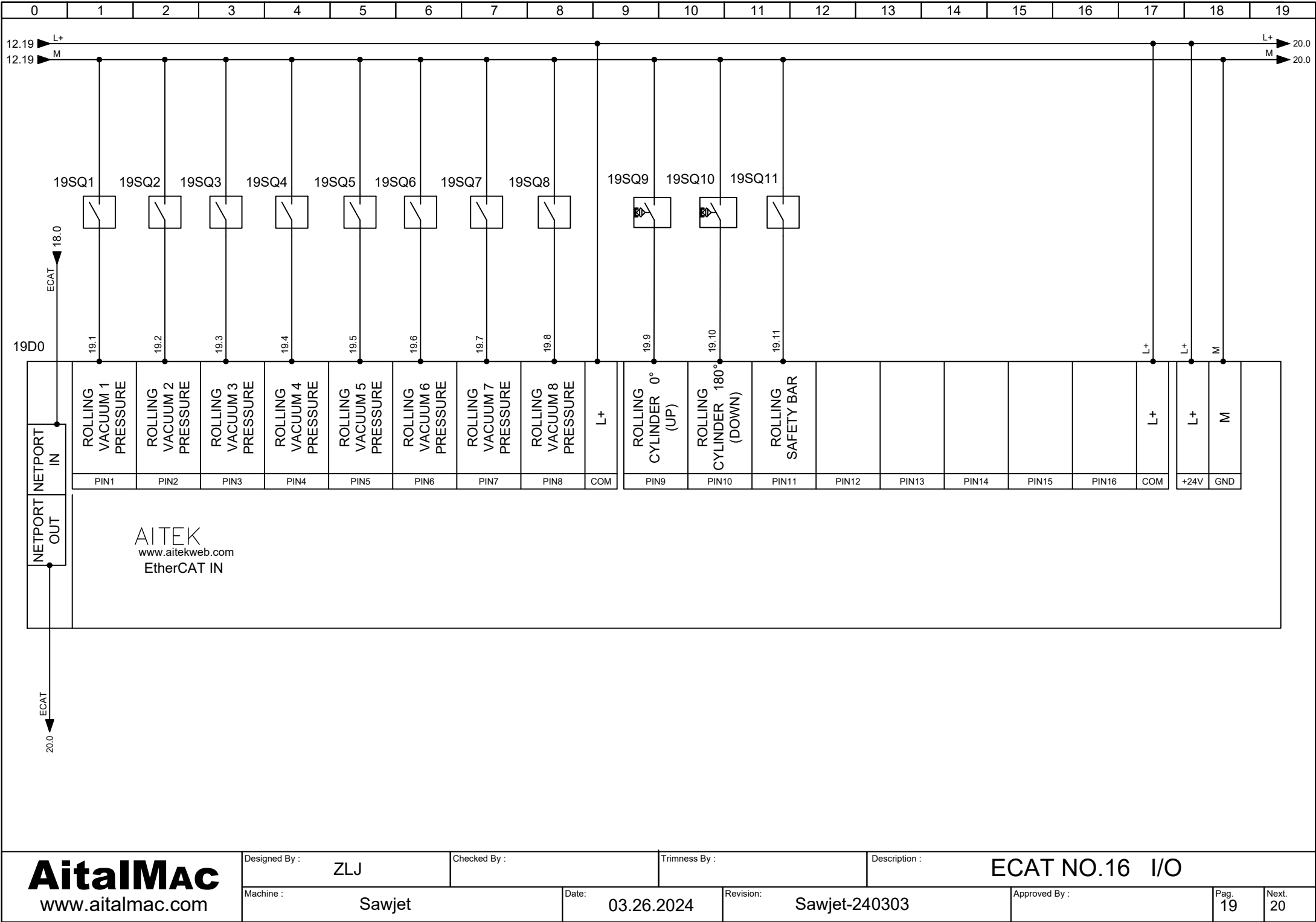
Next. 13











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Machine : Sawjet

Checked By :

Date: 03.26.2024

Trimness By :

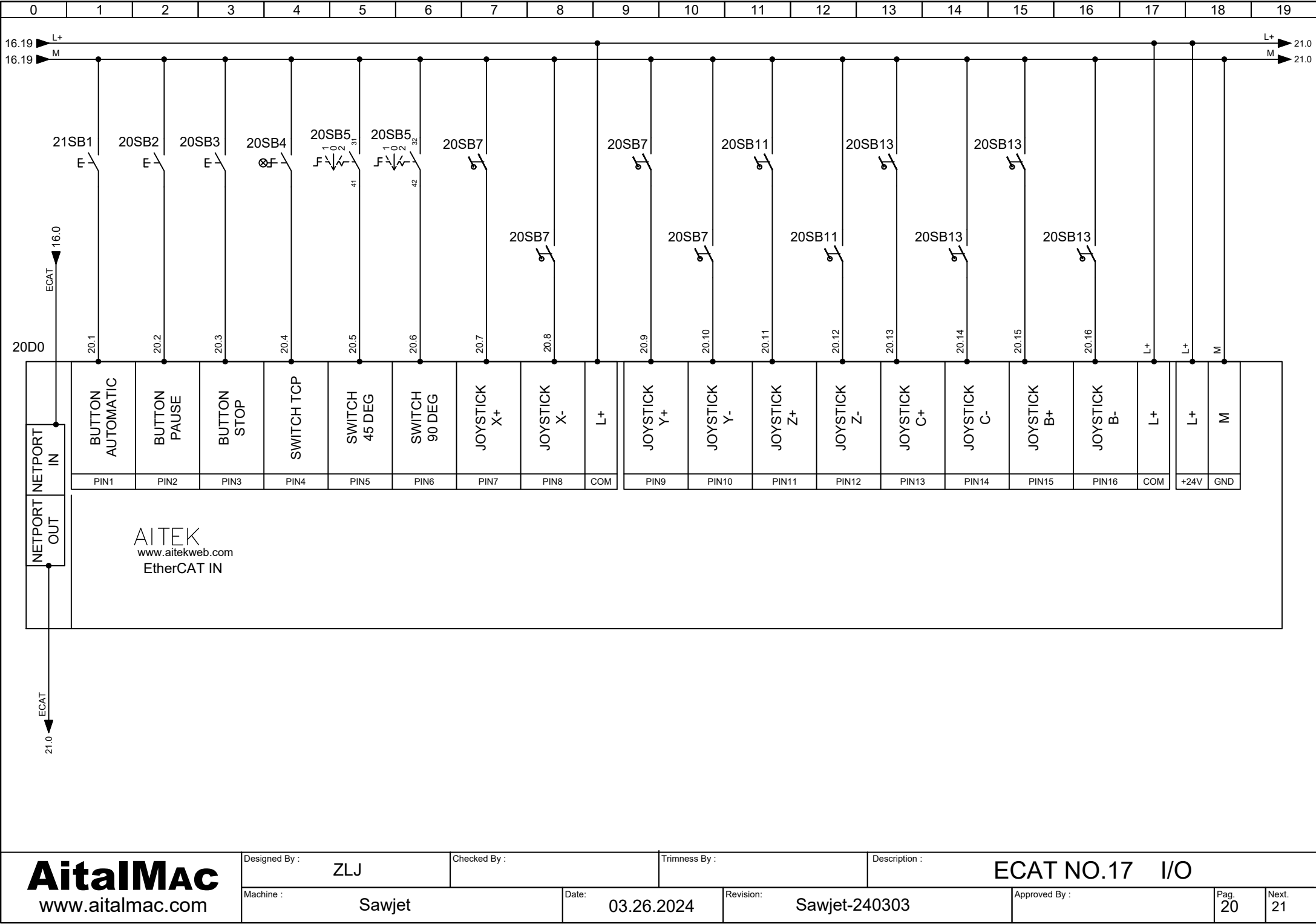
Revision: Sawjet-240303

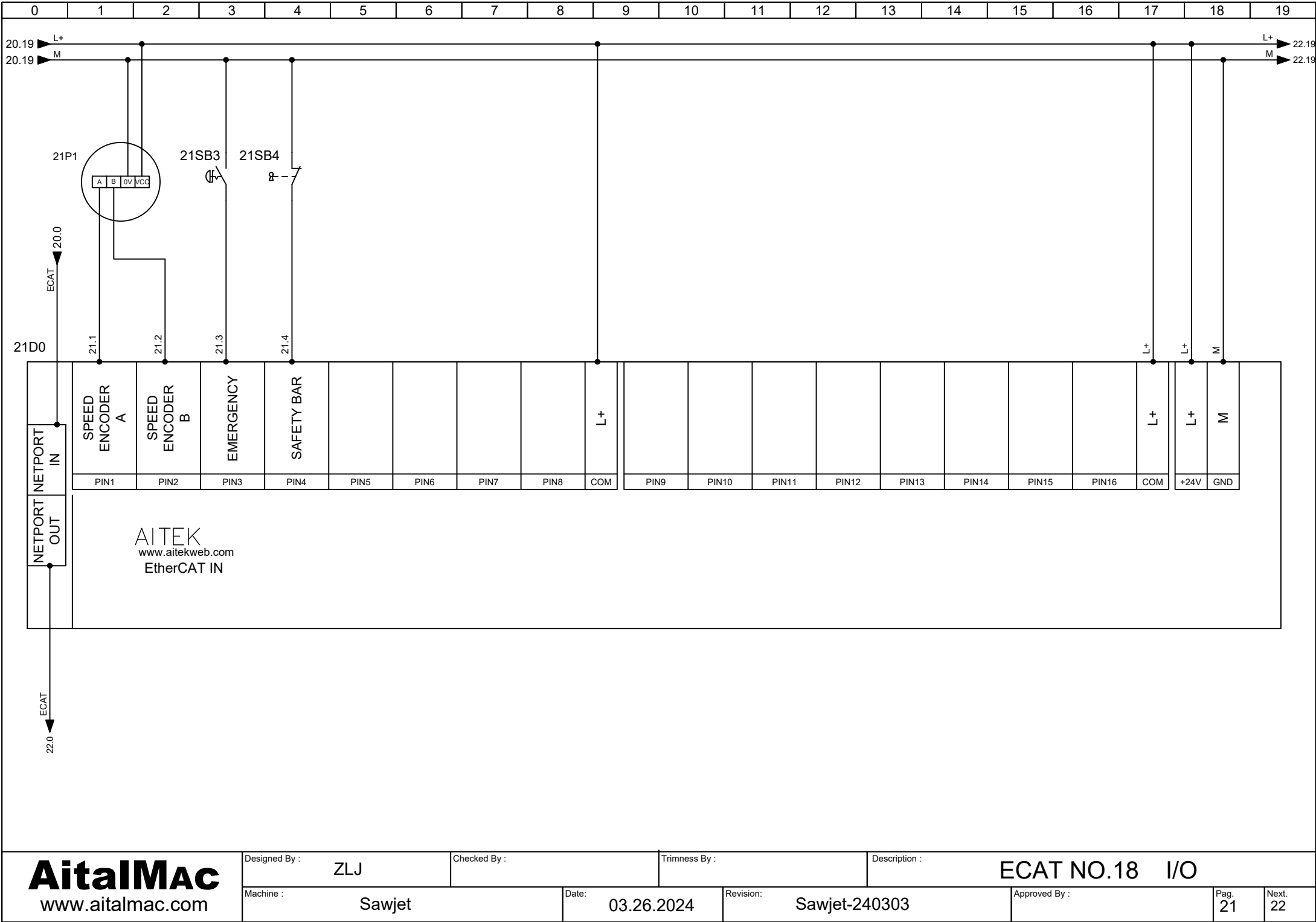
Description : ECAT NO.16 I/O

Approved By :

Pag. 19

Next. 20





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Designed By :
ZLJ

Machine :
Sawjet

Checked By :

Date:
03.26.2024

Trimness By :

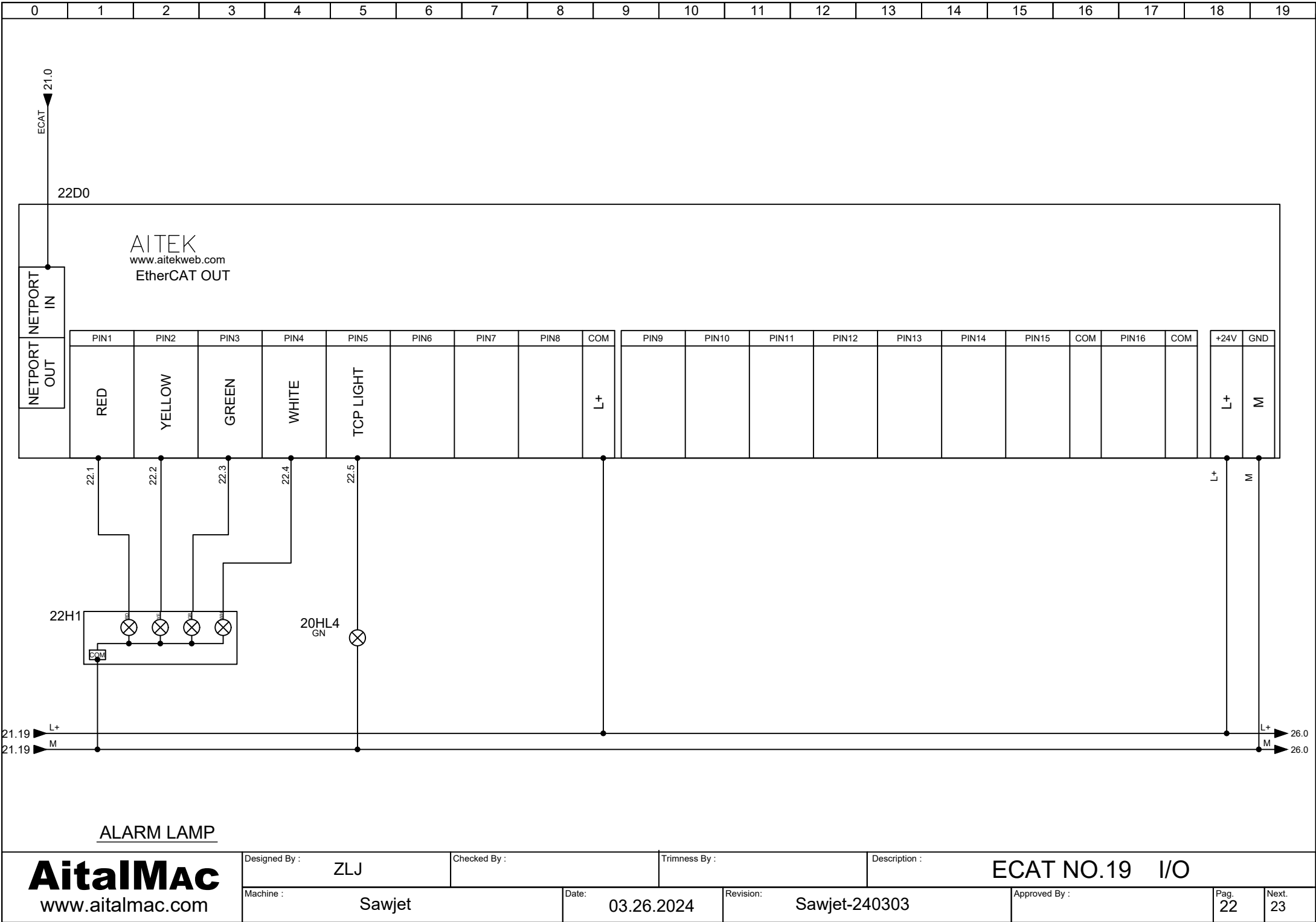
Revision:
Sawjet-240303

Description :
ECAT NO.18 I/O

Approved By :

Pag.
21

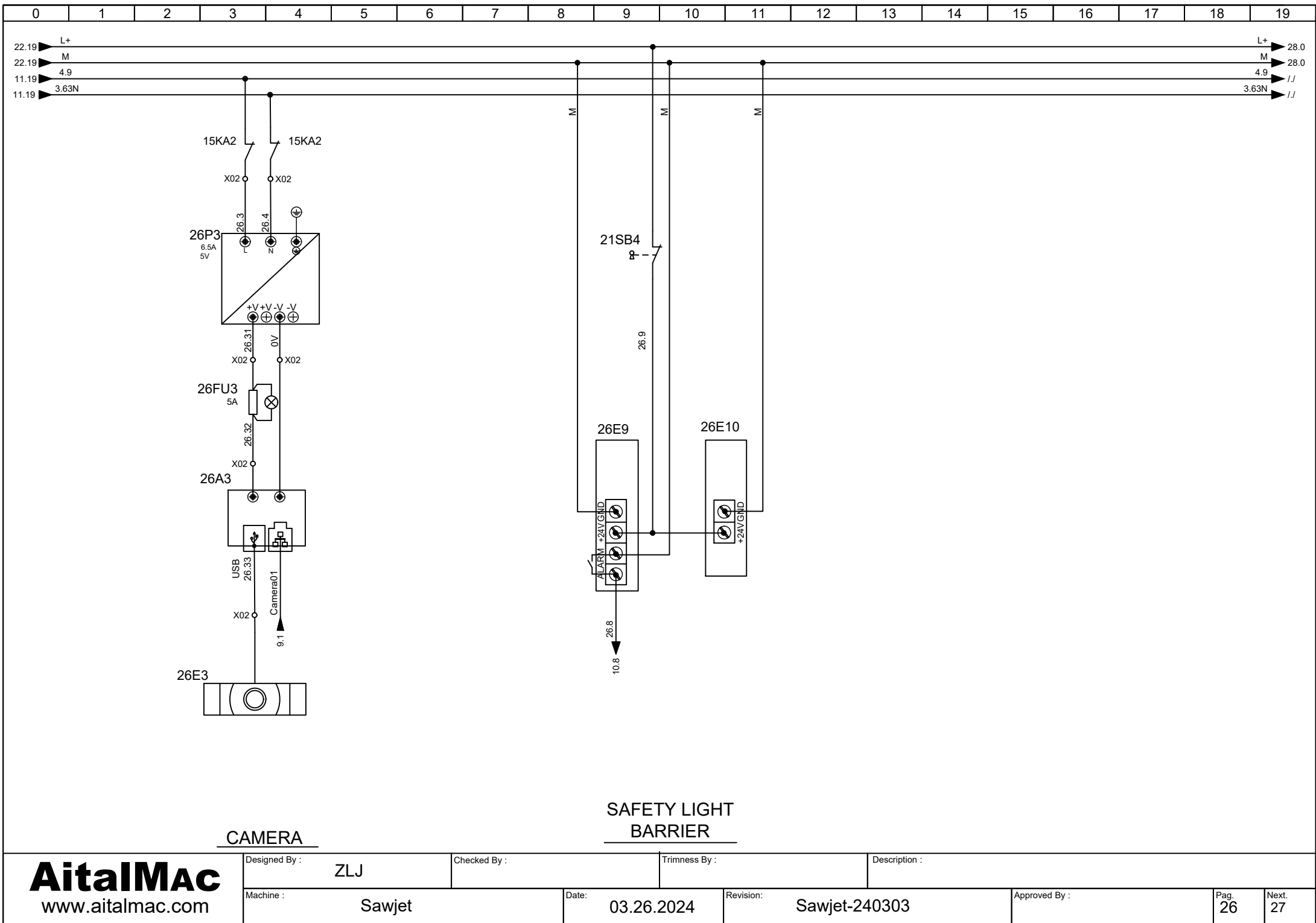
Next.
22

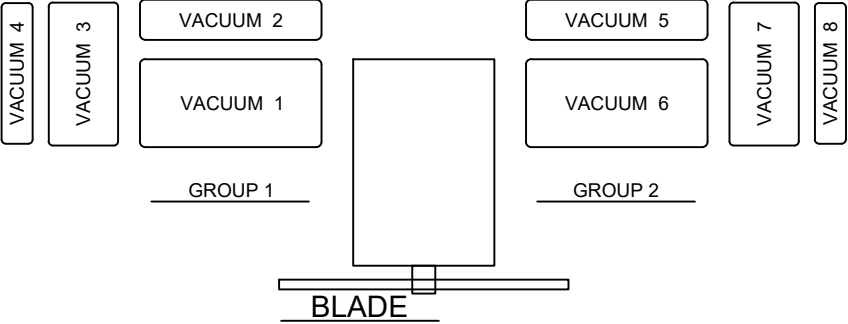


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AitalMac www.aitalmac.com				Designed By : ZLJ			Checked By :			Trimness By :			Description :						
				Machine : Sawjet				Date: 03.26.2024		Revision: Sawjet-240303				Approved By :			Pag. 23	Next. 24	

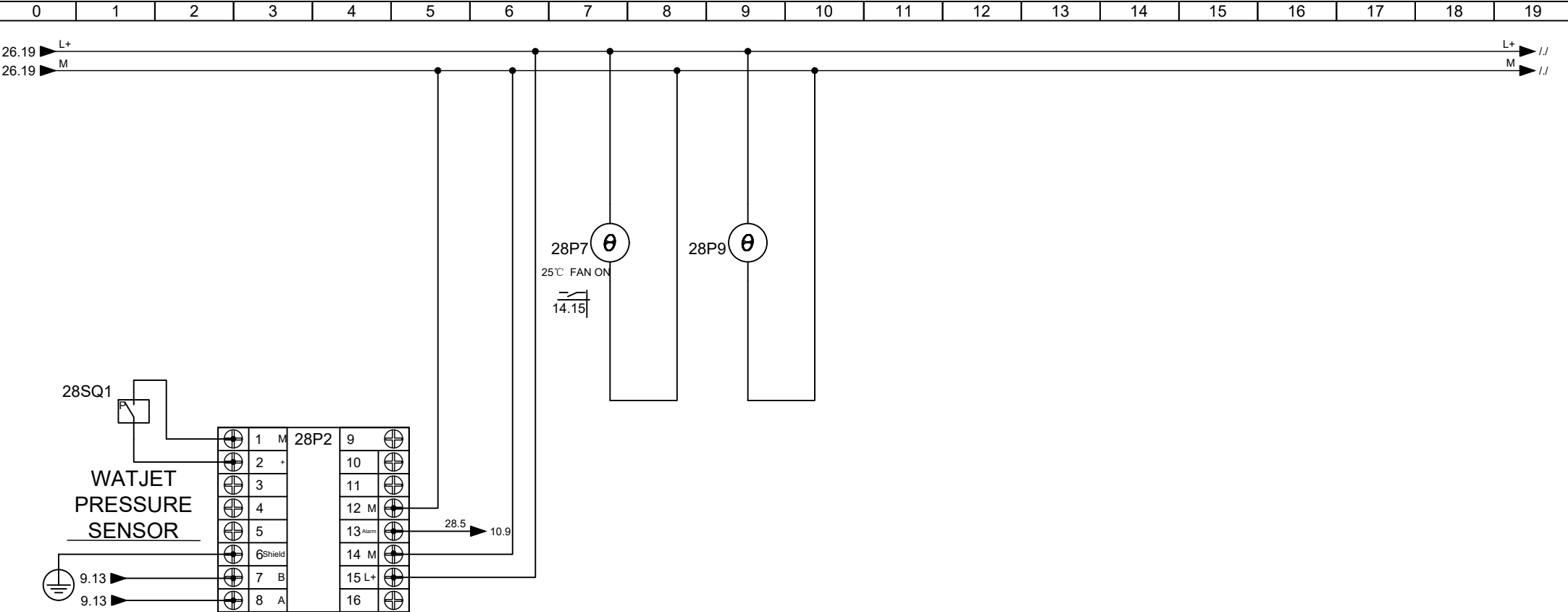
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
AitalMac www.aitalmac.com				Designed By : ZLJ			Checked By :			Trimness By :			Description :						
				Machine : Sawjet				Date: 03.26.2024		Revision: Sawjet-240303				Approved By :			Pag. 24	Next. 25	

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: 03.26.2024			Revision: Sawjet-240303					Approved By :			Pag. 25	Next. 26





VACCUM DIAGRAM



Parameter Settings

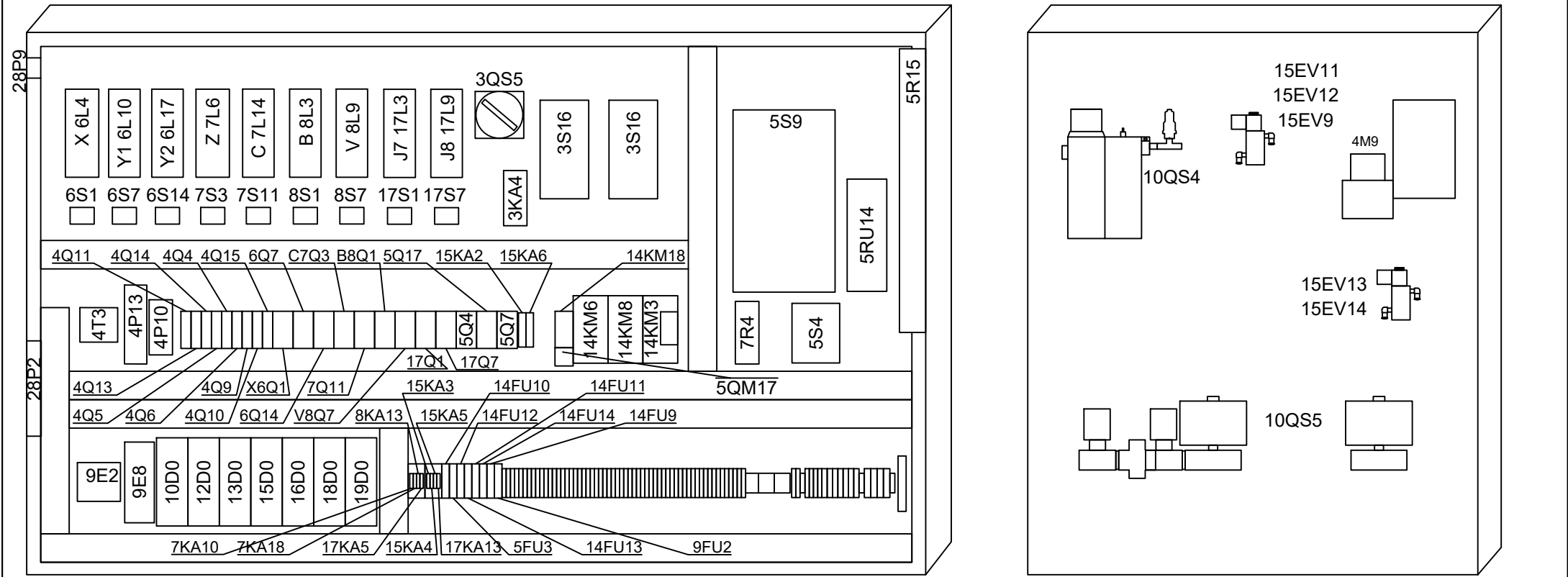
Long press the SET button for 3 seconds to enter the settings mode

80% PRESSURE CALIBRATION	0.0 No
COMMUNICATION MODE	AL-2 485
COMMUNICATION ADDRESS	Add 2
FILTERING PARAMETER	-gL- 0011

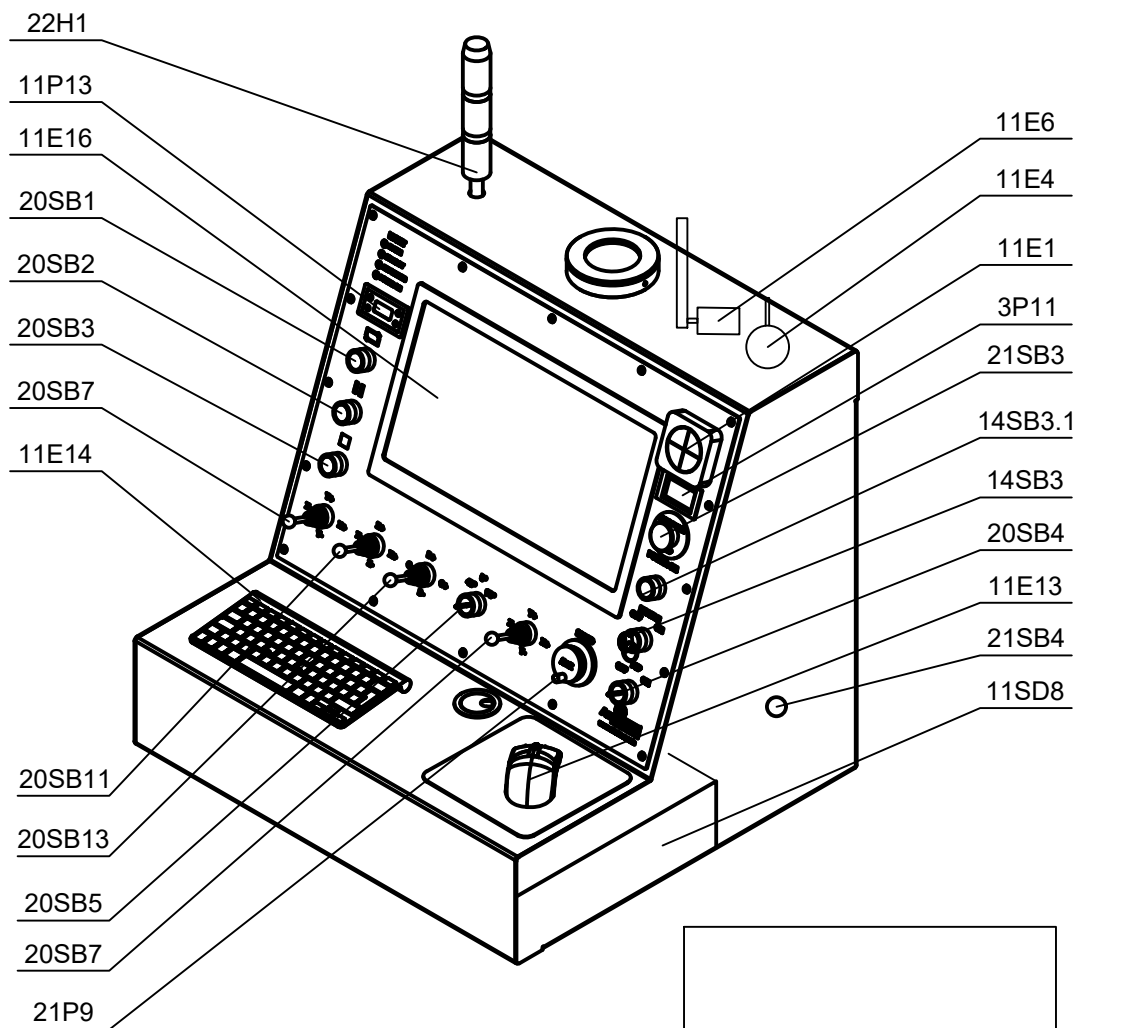
WATJET PRESSURE GAUGE

CONTROL BOX
THERMOMETER

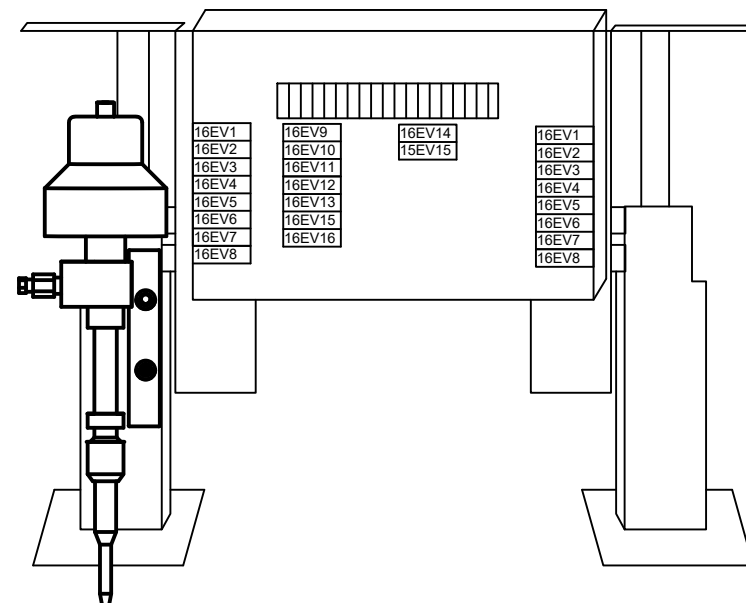
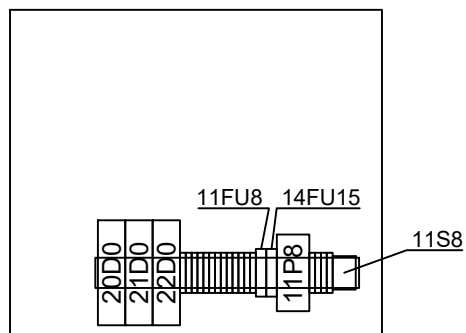
ELECTRIC BOX
THERMOMETER



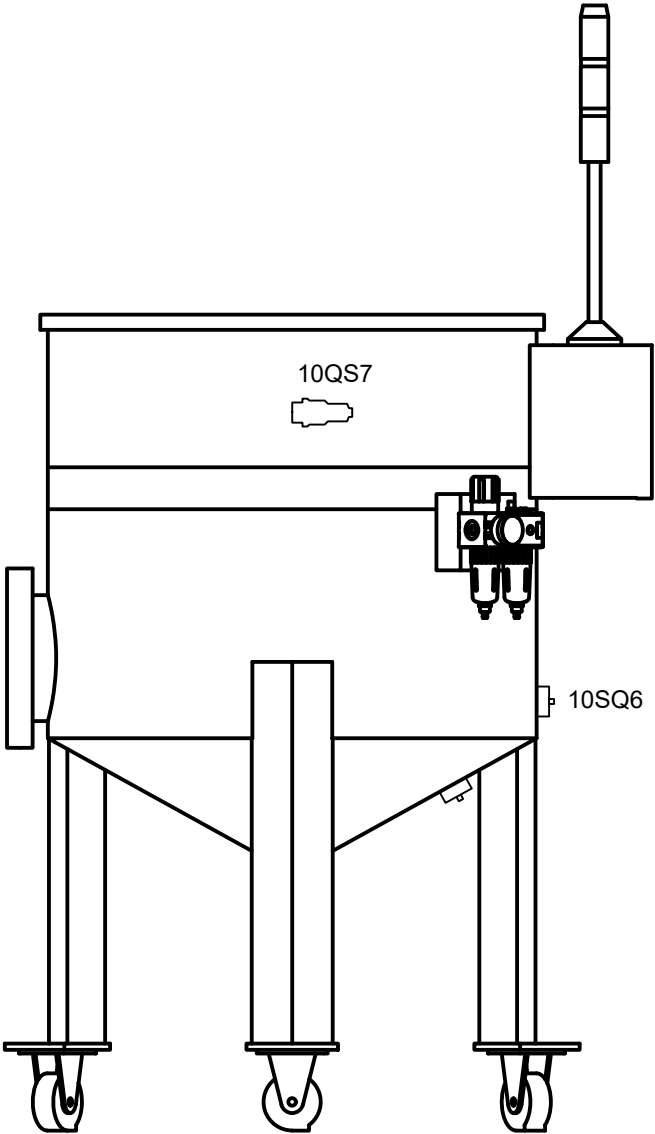
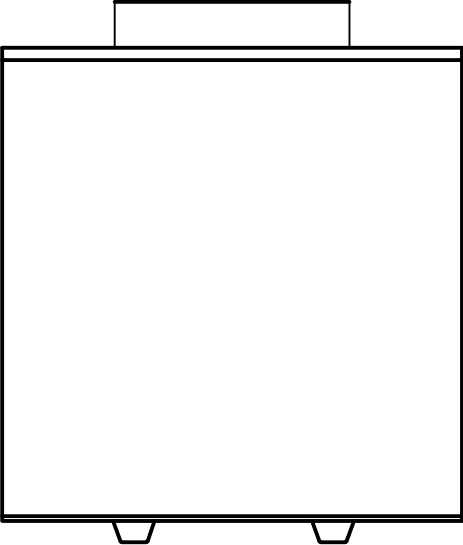
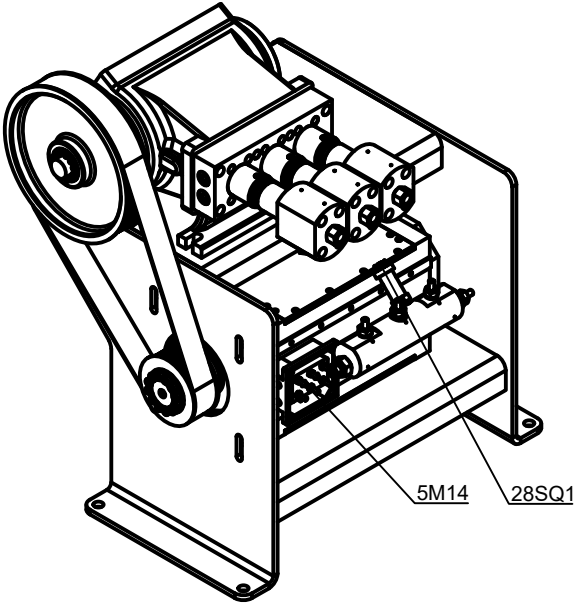
X00



X01



X02



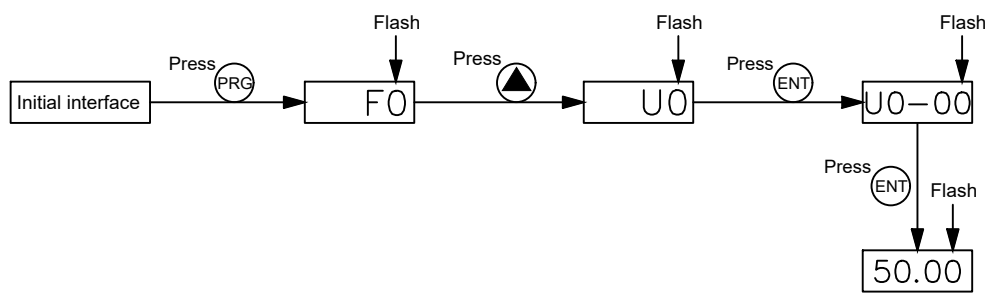
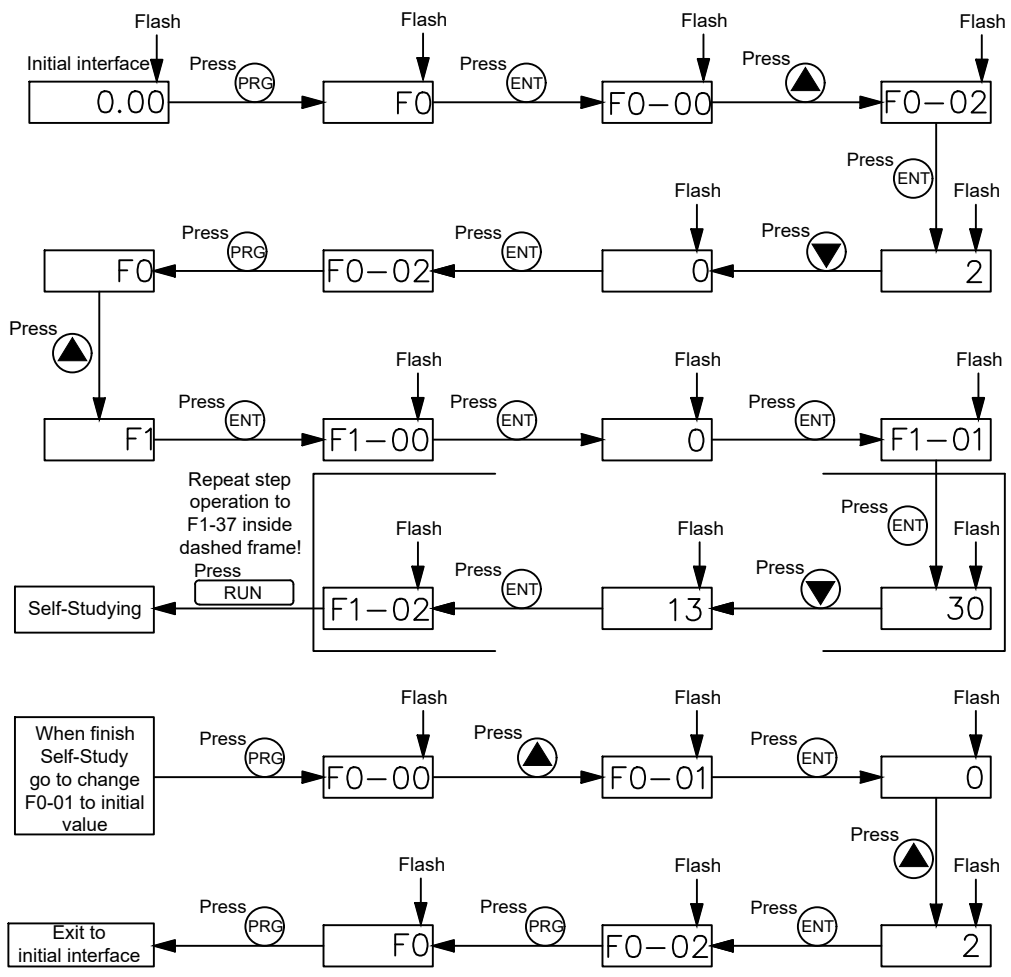
X02

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



Spindle 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	J7	J8
PA000	0~5000	1	1	1	1	1	1	1	1	1
PA001	0~9	9	9	9	9	9	9	9	9	9
PA002	0x0~0xFFFF	1	1	1	1	1	1	1	1	1
PA003	0~31	16	16	16	16	16	16	16	16	16
PA004	0~20000	400	550	550	350	400	300	250	250	250
PA015	0~32767	1	1	1	1	1	1	1	1	1
PA016	20~500				50					
PA017	20~5000				200					

Vacuum Inverter Parameter

NAME	RANGE	DEFAULT	UNITS
P0.03	0,1,2	1	
P0.17	0.1~6000.0	2	S
P2.05	0,1,2	1	
PA.02	0.0~900Kw	1.5	KW
PA.03	0.01~500.00A	3.4	A
PA.04	1~500Hz	50	Hz
PA.05	0~400V	380	V
PA.06	1~9999r/min	2860	RPM
PA.00	0,1	2	

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	14KM18	Contactor	Schneider	LC1-D18B7C AC24V				
12	12SQ1	X Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)	14								
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	15EV8	Table Slow Down	WANERF	4WE6J-6X/ED24				
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	CHVIRD	CS1-U	15	15EV12	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
12	12SQ14	Right Arm Vacuum Extended Sensor	CHVIRD	CS1-U	15	15EV13	Table Open Valve	WANERF	4WE6J-6X/ED24				
12	12SQ15	Blade Probe	--	--	15	15EV14	Table Close Valve	WANERF	4WE6J-6X/ED24				
					15	15EV15	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
					15	15EV16	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V				
					15								
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 NC+NO				
13	13SQ2	Vacuum2 Generator	SMDQ	QK-01F -80KPA	16	16EV2	Solenoid Valve	OST	T101-BM 24V NC+NO				
13	13SQ3	Vacuum3 Generator	SMDQ	QK-01F -80KPA	16	16EV3	Solenoid Valve	OST	T101-BM 24V NC+NO				
13	13SQ4	Vacuum4 Generator	SMDQ	QK-01F -80KPA	16	16EV4	Solenoid Valve	OST	T101-BM 24V NC+NO				
13	13SQ5	Vacuum5 Generator	SMDQ	QK-01F -80KPA	16	16EV5	Solenoid Valve	OST	T101-BM 24V NC+NO				
13	13SQ6	Vacuum6 Generator	SMDQ	QK-01F -80KPA	16	16EV6	Solenoid Valve	OST	T101-BM 24V NC+NO				
13	13SQ7	Vacuum7 Generator	SMDQ	QK-01F -80KPA	16	16EV7	Solenoid Valve	OST	T101-BM 24V NC+NO				
13	13SQ8	Vacuum8 Generator	SMDQ	QK-01F -80KPA	16	16EV8	Solenoid Valve	OST	T101-BM 24V NC+NO				
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	ENMG	ET8111-CF-2	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	17	17Q1	Circuit Breaker	Schneider	IC65N D10A 2P				
14	14SB3.1	Power On Button	RENY	R2PIF-1D-2GL	17	17S1	Filter	Canny Well	CW1B-10A-L				
14	14KM3	Contactor	Schneider	LC1-D65AB7C AC24V & LADN11	17	17M2	J7 Motor	Leadshine	ACM13009H2E-40-L 850W Brake				
14	14KM6	Contactor	Schneider	LC1-D50AB7C AC24V	17	17L3	J7 Servo Drive	Leadshine	L7EC-1000S				
14	14KM8	Contactor	Schneider	LC1-D50AB7C AC24V	17	17Q7	Circuit Breaker	Schneider	IC65N D10A 2P				
14	14FU9	Fuse	CHE	FS-101 DC24V 2A	17	17S7	Filter	Canny Well	CW1B-10A-L				
14	14A9	Blade Laser	--	16mm	17	17M8	J8 Motor	Leadshine	ACM13009H2E-40-L 850W Brake				
14	14FU11	Fuse	CHE	FS-101 DC24V 2A	17	17L9	J8 Servo Drive	Leadshine	L7EC-1000S				
14	14E11	V Brake	--	24VDC 1A	17	17KA5	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V				
14	14FU12	Fuse	CHE	FS-101 DC24V 2A	17	17KA13	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V				
14	14E12	Z Brake	--	24VDC 1A									
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	Pg.	Code	Name	Mfrs.	Model				
18	18D0	ETHERCAT	AITEK	OUT MODULE	28	28SQ1	Waterjet Pressure Sensor	- -	- -				
18	18EV1	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V	28	28P2	Waterjet Pressure Gauge	- -	PY500				
18	18EV2	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V	28	28P7	Thermometer	JQS	XY-WT01				
18	18EV3	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V	28	28P9	Thermometer	JQS	XY-WT01				
18	18EV4	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
18	18EV5	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
18	18EV6	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
18	18EV7	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
18	18EV8	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
18	18EV9	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
19	19D0	ETHERCAT	AITEK	IN MODULE									
19	19SQ1	Vacuum1 Generator	SMDQ	QK-01F -80KPA									
19	19SQ2	Vacuum2 Generator	SMDQ	QK-01F -80KPA									
19	19SQ3	Vacuum3 Generator	SMDQ	QK-01F -80KPA									
19	19SQ4	Vacuum4 Generator	SMDQ	QK-01F -80KPA									
19	19SQ5	Vacuum5 Generator	SMDQ	QK-01F -80KPA									
19	19SQ6	Vacuum6 Generator	SMDQ	QK-01F -80KPA									
19	19SQ7	Vacuum7 Generator	SMDQ	QK-01F -80KPA									
19	19SQ8	Vacuum8 Generator	SMDQ	QK-01F -80KPA									
19	19SQ9	cylinder sensor	-	-									
19	19SQ10	cylinder sensor	-	-									
19	19SQ11	SAFETYBAR	-	-									
Pg.	Code	Name	Mfrs.	Model									
20	20D0	ETHERCAT	AITEK	IN MODULE									
20	20SB1	Control Box-Automatic Button	RENY	RAPNF-1A-G									
20	20SB2	Control Box-Pause Button	RENY	RAPNF-1A-Y									
20	20SB3	Control Box-Stop Button	RENY	RAPNF-1A-R									
20	20SB4	TCP On/Off Switch	RENY	R2SNS-2FE-1D-G									
20	20SB5	B Axis Angle Knob	RENY	R2SNS-3TB-2A-B									
20	20SB7	X/Y Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm									
20	20SB11	X/Z Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm									
20	20SB13	B/C Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm									
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									
Aitalmac www.aitalmac.com		Designed By ZLJ	Checked By	Approved By	Trimness By	Description COMPONENTS INFORMATION							
		Machine Sawjet	Date 03.26.2024	Revision Sawjet-240303	Note	Page 36	Next ./.						