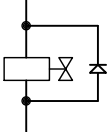
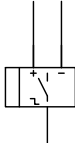
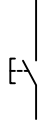
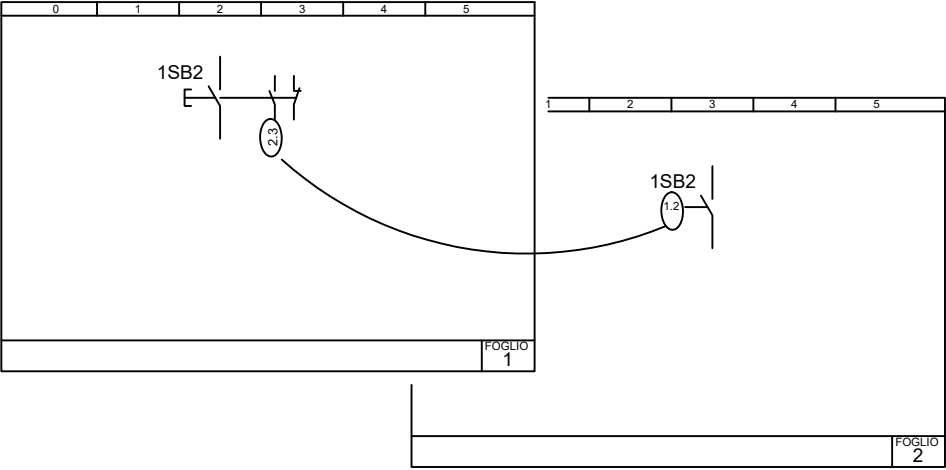


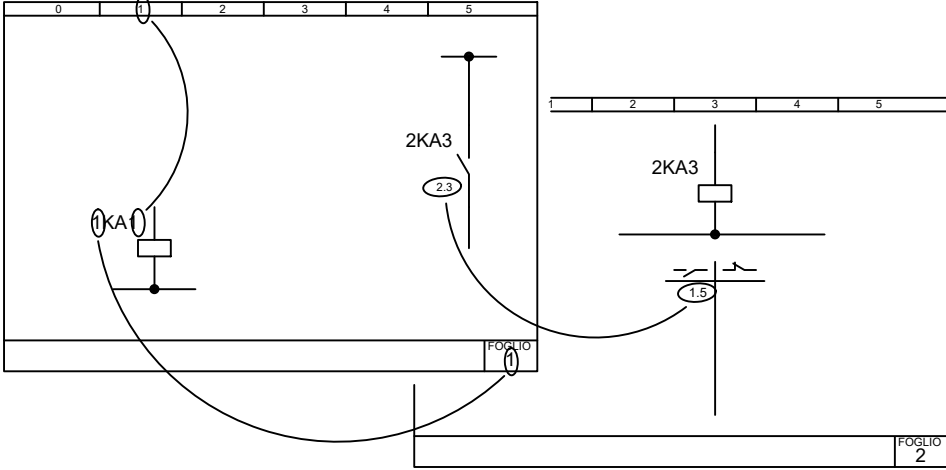
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AITALMAC										LOCATION SYMBOLS ☐ Components on the door ☐ Components inside the cubicle (usually omitted) ☐ Machine components (usually omitted)					COMPONENTS DESIGNATION C Condensers D CNC control model E Component not in this list F Protection 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 ORBITB5					VOLT. 380 FREQ. 50-60																																									
WIRING DIAGRAM					CUBICLE DIMENSION																																									
B5-240501					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>WHITE</td><td>D.C. auxiliary circuit</td><td>1,0mm²</td></tr><tr><td>BLUE</td><td>N</td><td>1.5mm²</td></tr><tr><td>YELLOW GREEN</td><td>protection earth</td><td>1,5mm²</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>0,25mm² (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	WHITE	D.C. auxiliary circuit	1,0mm²	BLUE	N	1.5mm²	YELLOW GREEN	protection earth	1,5mm²	SCREEN CABLE	reference - signal	0.75 mm²	RED +/-BLUE -	thermocouples	COMPENSATED CABLE		PLC circuit	0,25mm² (0,5mm² I<2A)	COLORS WH White YE Yellow RD Red OG Orange GY Gray BU Blue BK Black GNYE GreenYellow					MAIN CIRCUIT BREAKER OPERATING TIME: _____ SYMMETRICAL SHORT-CIRCUIT CURRENT: _____				
COLOR	FUNCTION	MINIMUM SECTION																																												
BLACK	power circuit A.C./D.C.	1,0mm²																																												
RED	A.C. auxiliary circuit	1,0mm²																																												
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RED +/-BLUE -	thermocouples	COMPENSATED CABLE																																												
	PLC circuit	0,25mm² (0,5mm² I<2A)																																												
										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 : Orbit B5			Date: 04.20.2024			Revision: B5-240501			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		

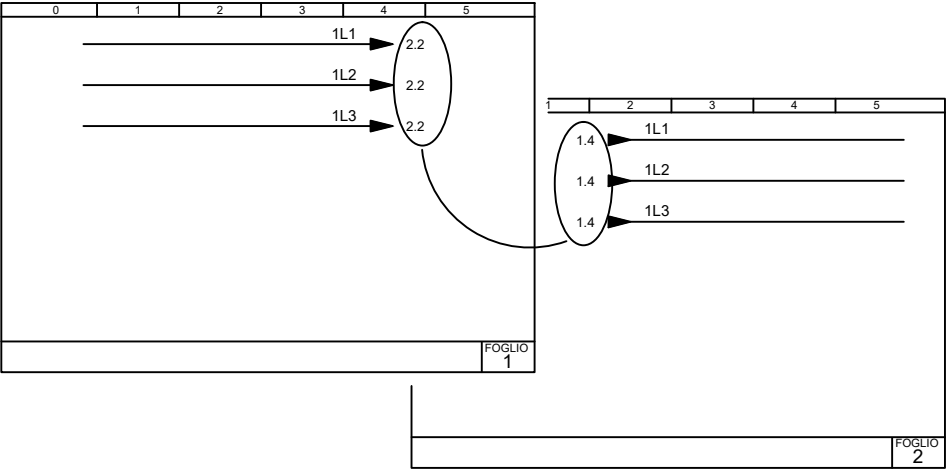
COMPONENT REFERENCE



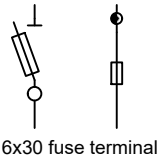
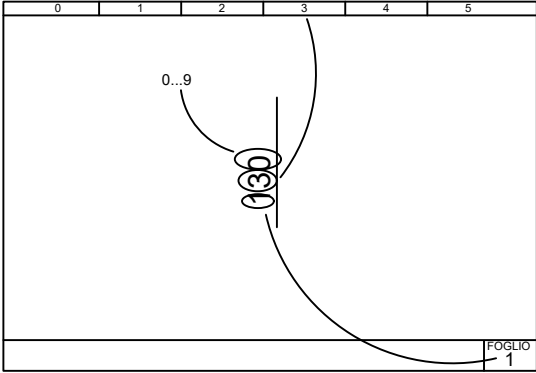
COMPONENT NAME/COIL-CONTACT POSITION

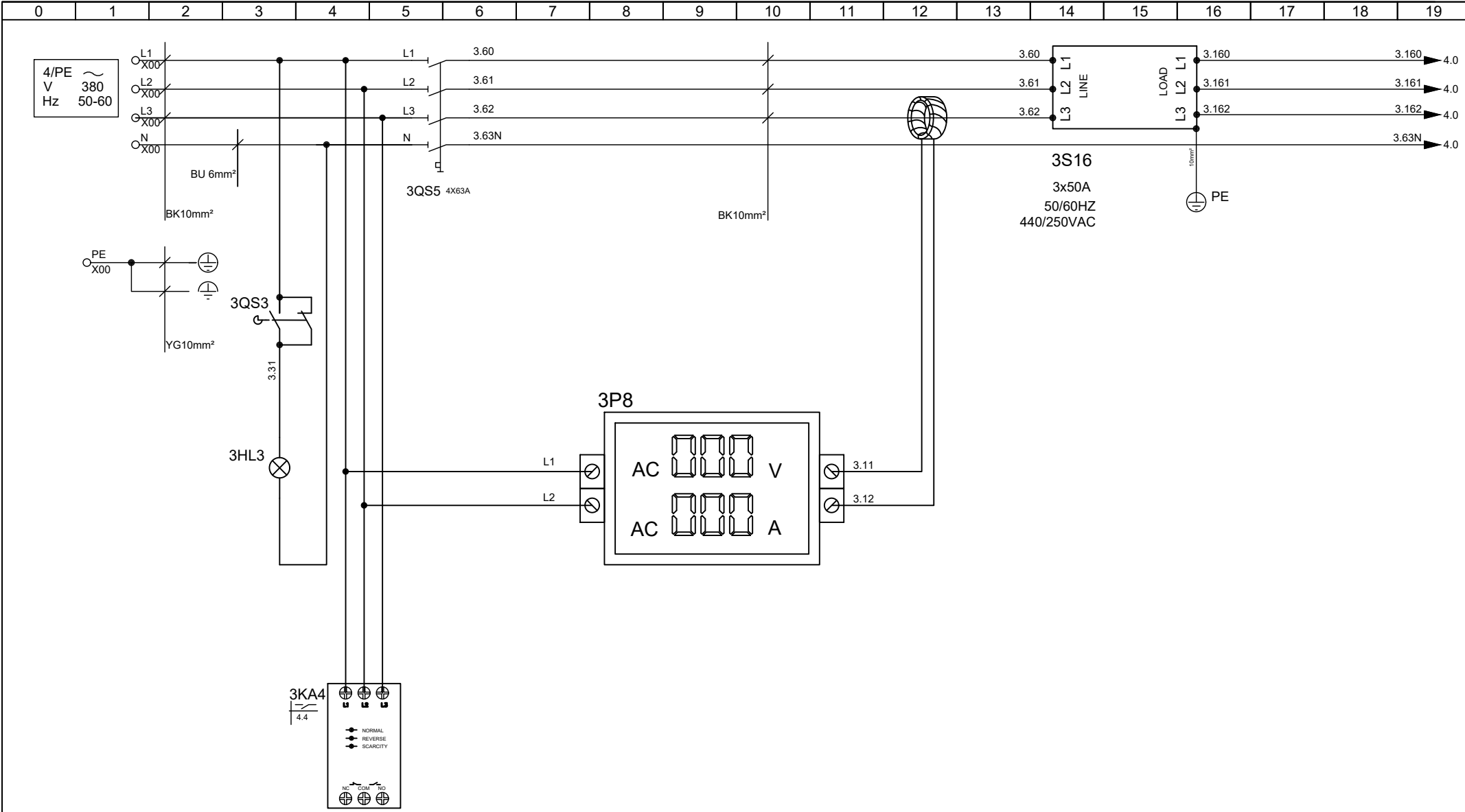


SIGNALS



WIRE NUMBER



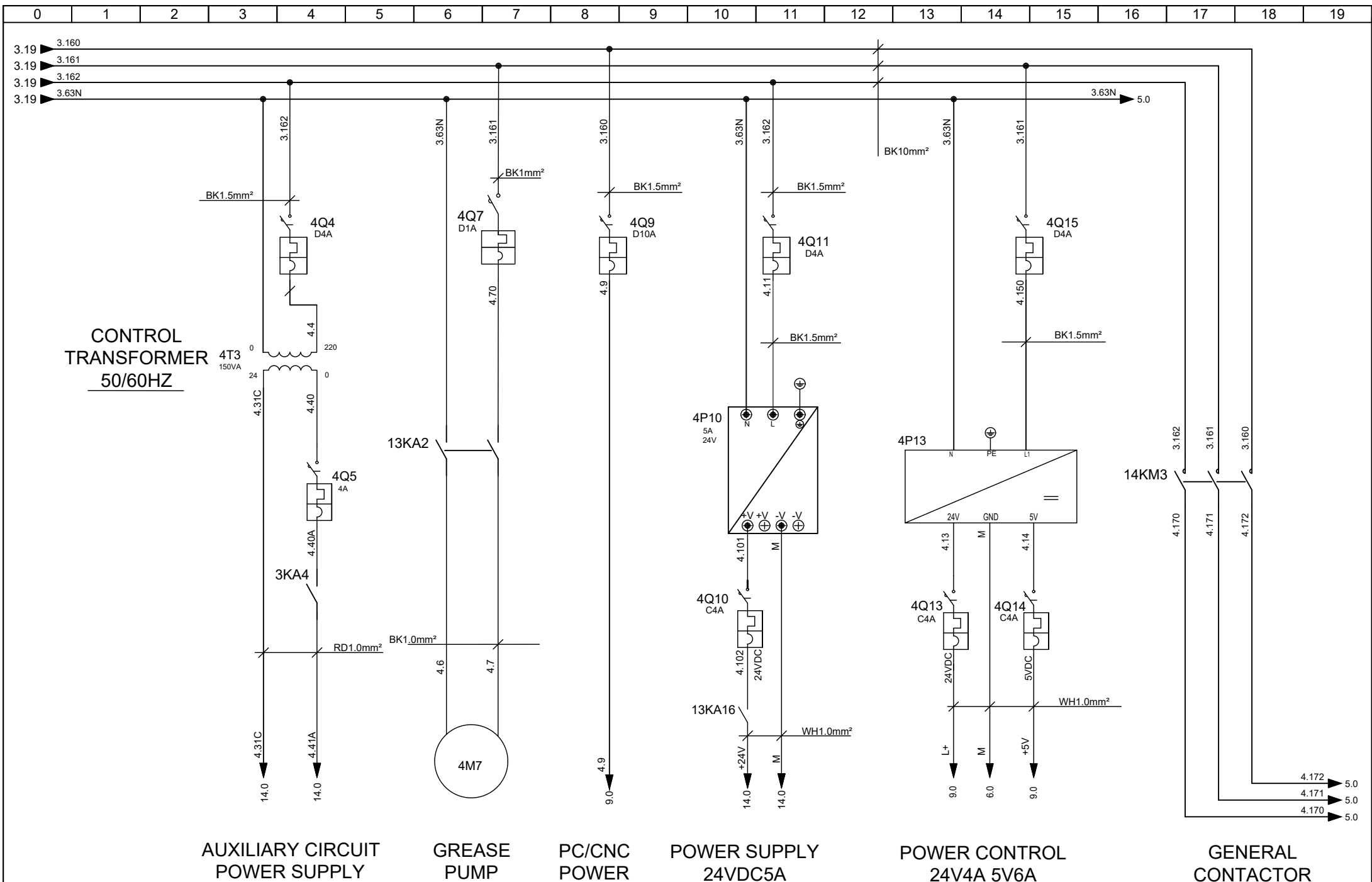


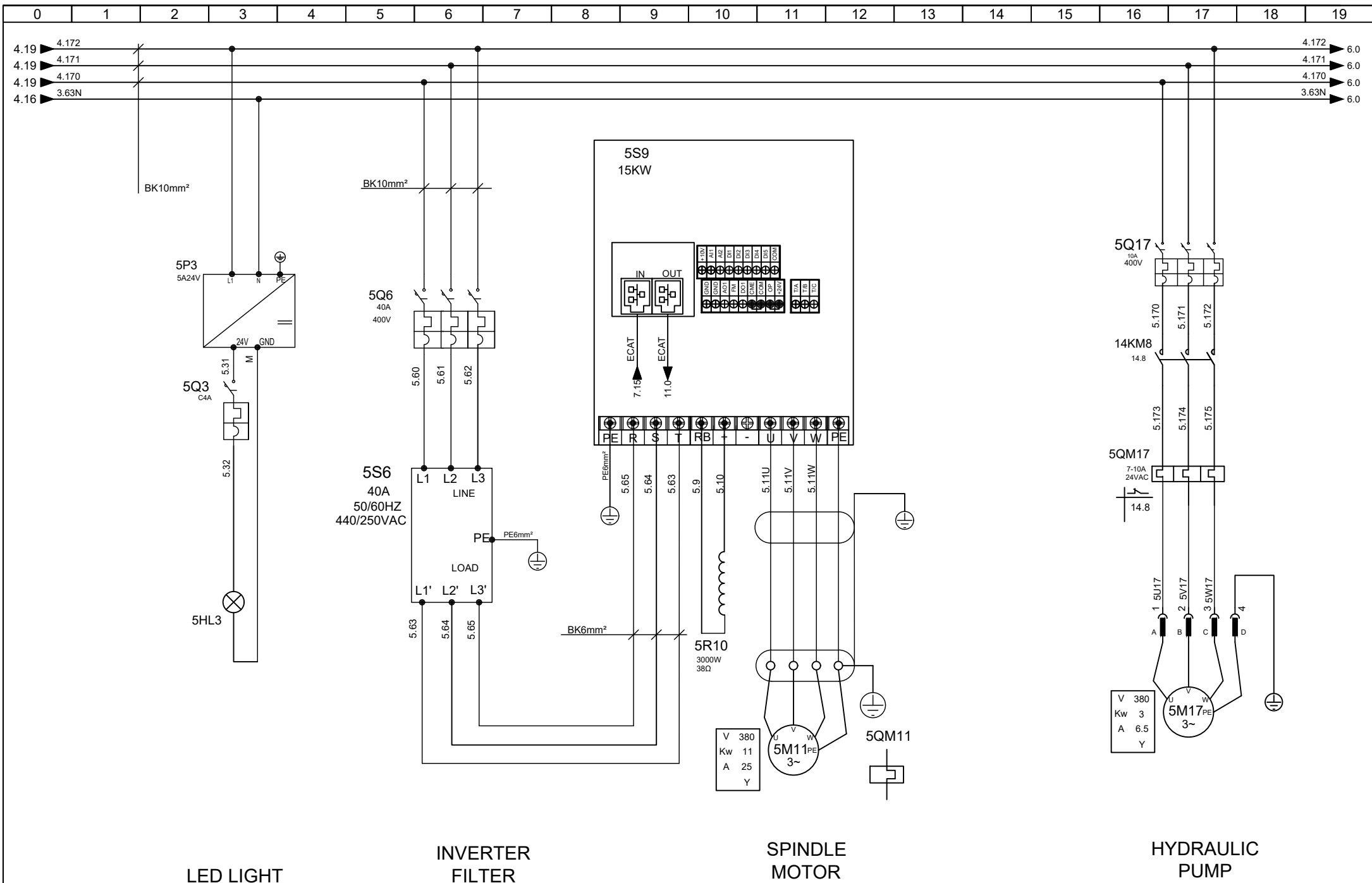
EXAMINE AND
REEPAIR LAMP

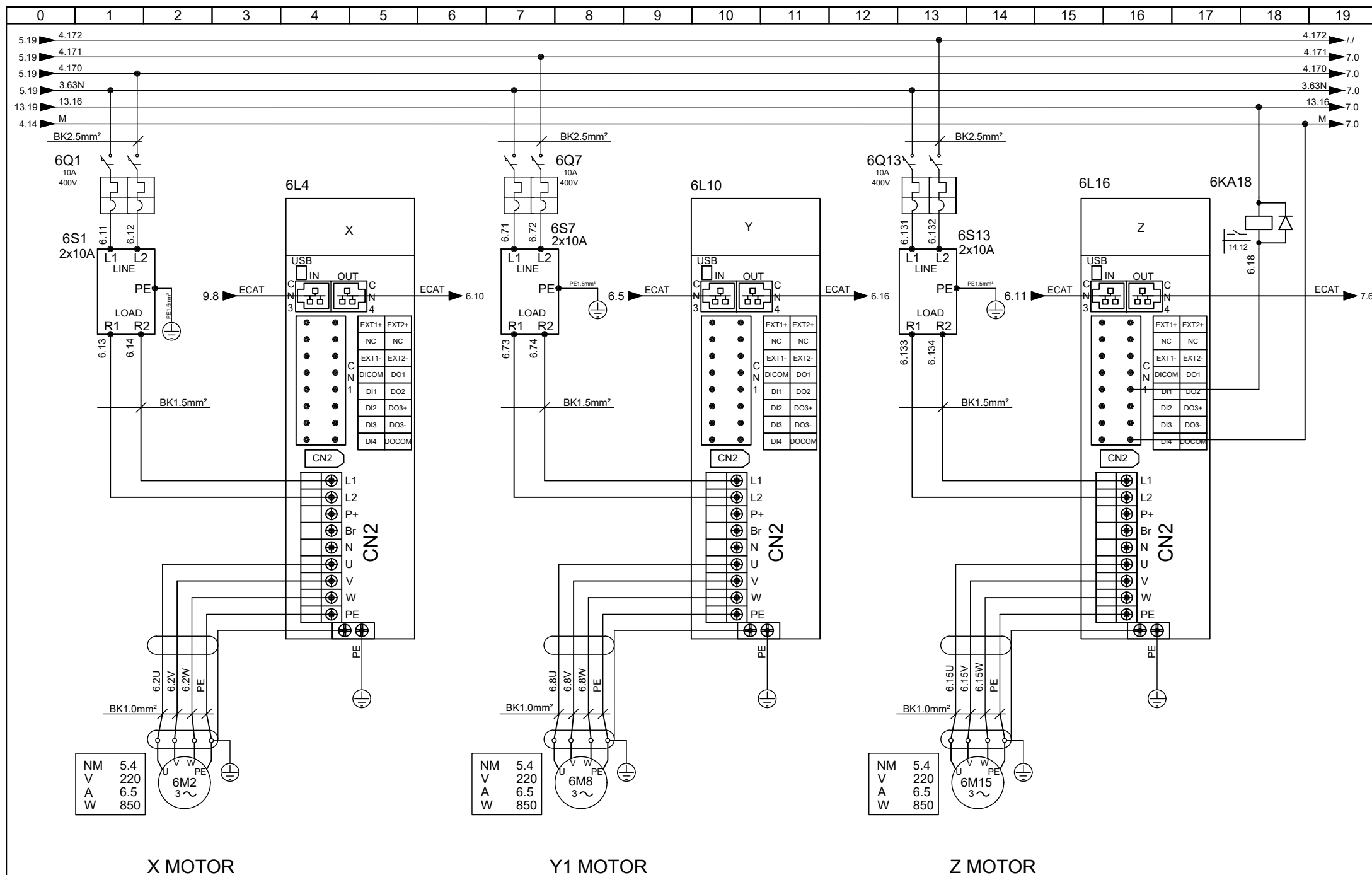
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RELAY

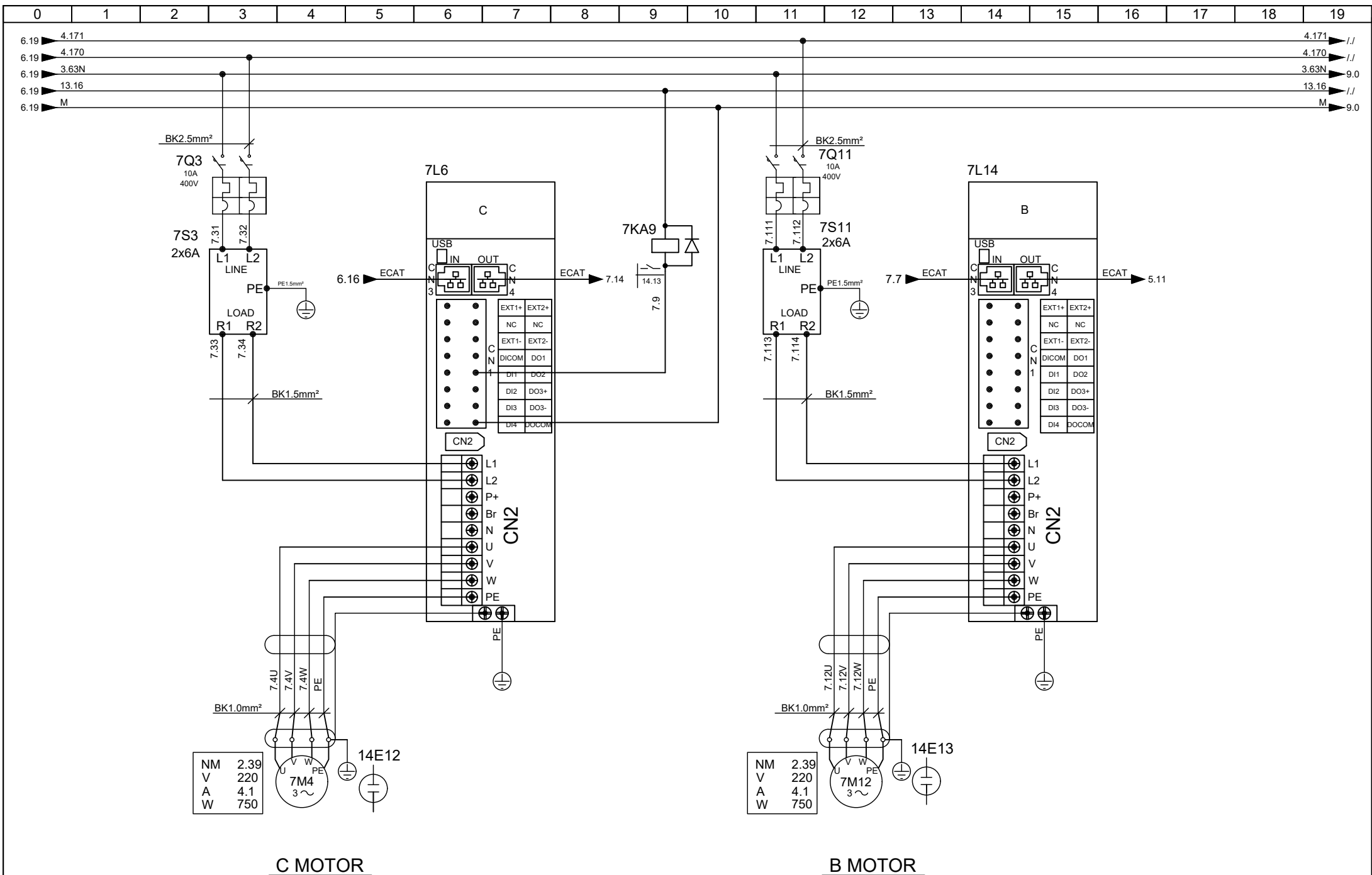
GENERAL
SWITCH

FILTER

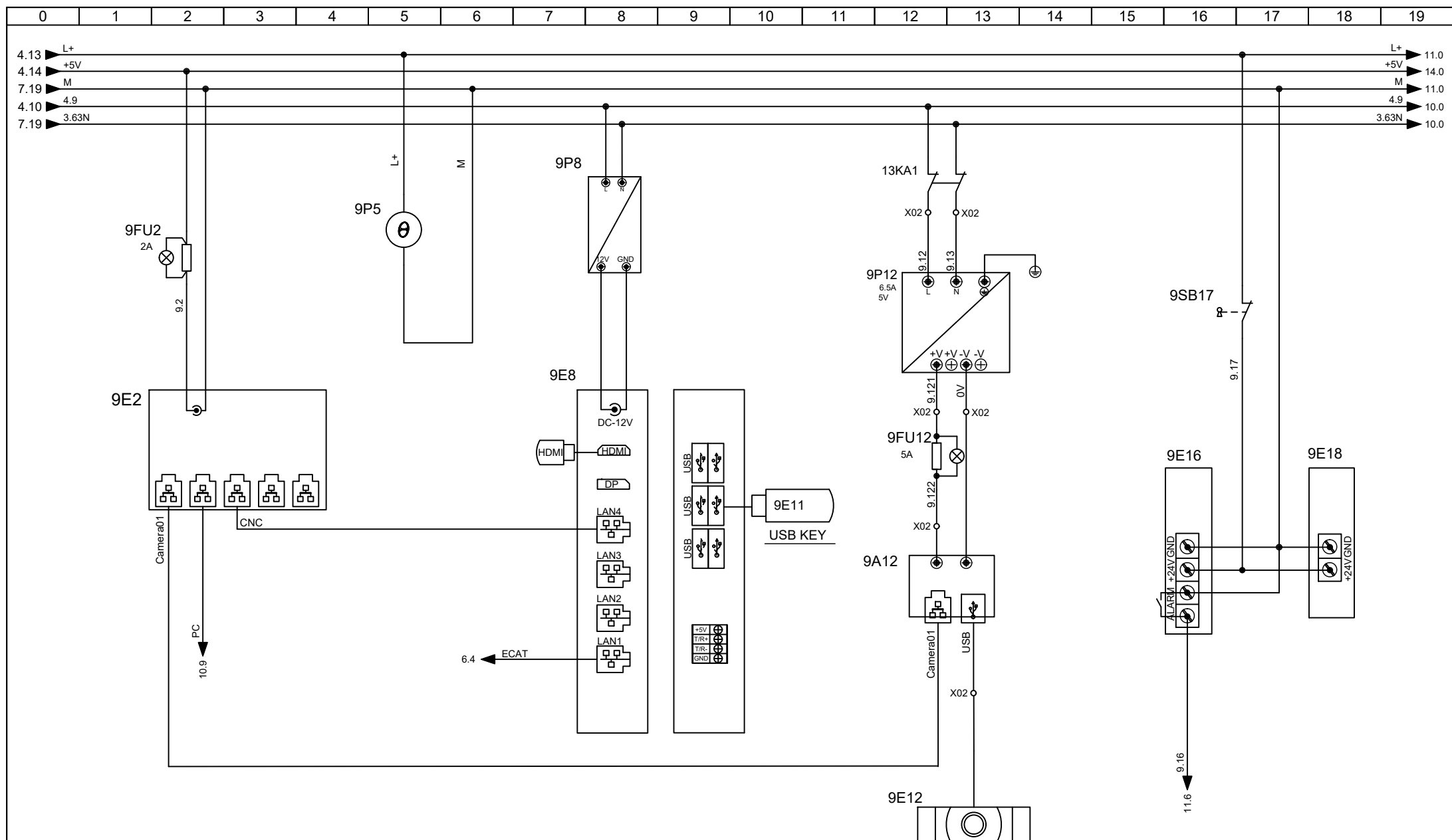








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AitalMac www.aitalmac.com				Designed By : ZLJ			Checked By :			Trimness By :			Description :						
Machine : Orbit B5								Date: 04.20.2024		Revision: B5-240501				Approved By :			Pag. 8	Next. 9	



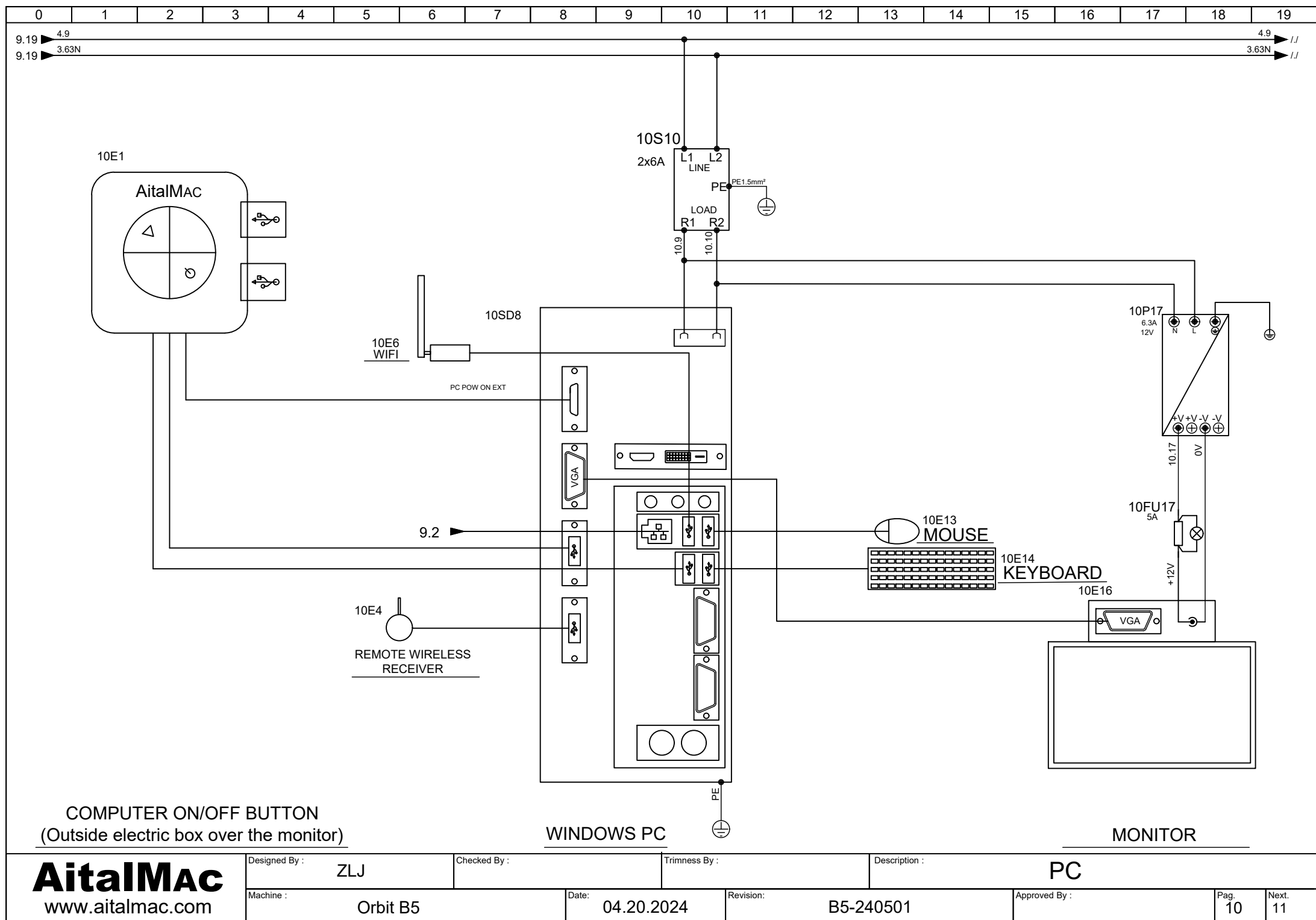
NETWORK
SWITCH

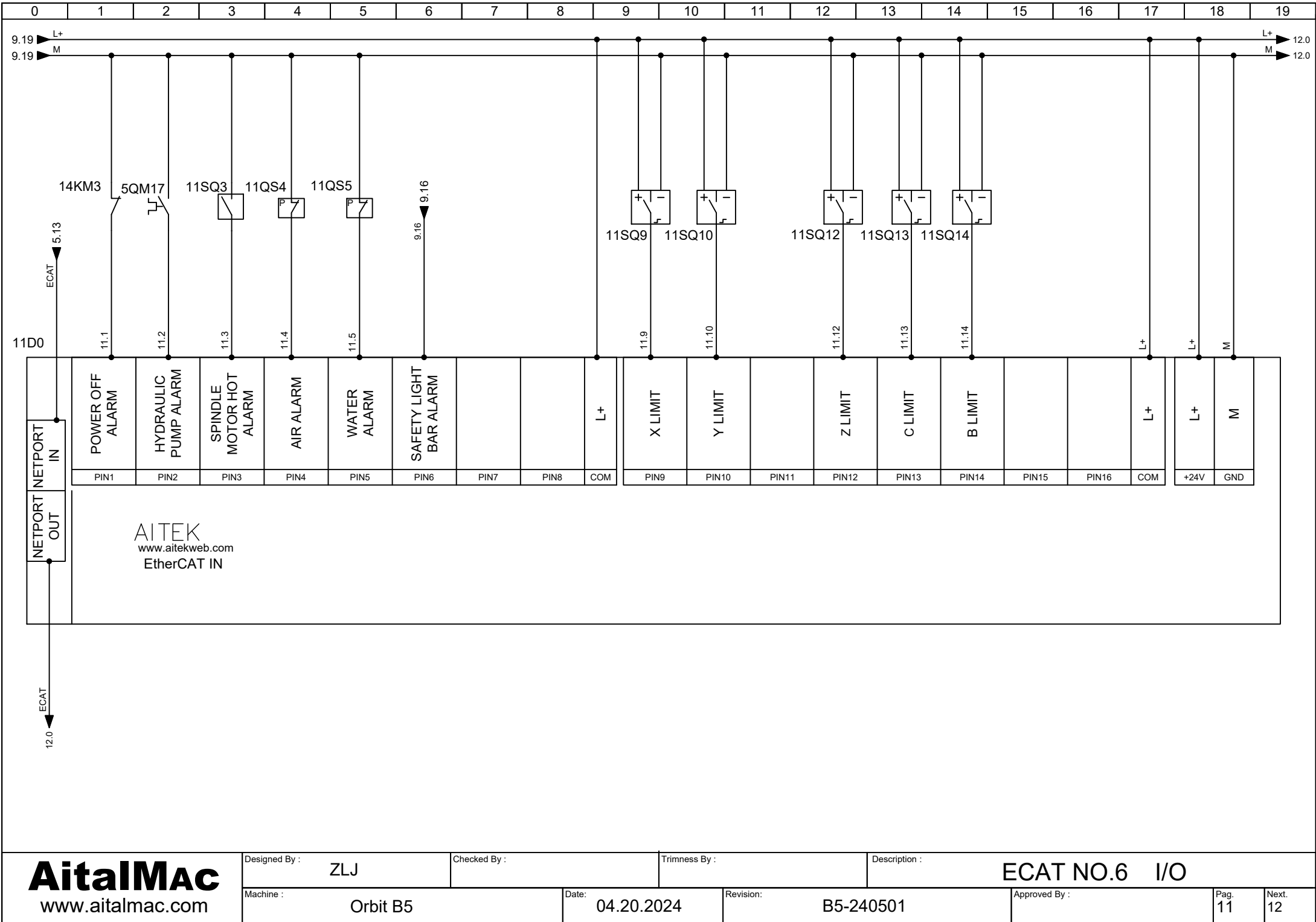
THERMOMETER
FOR ELECTRIC BOX

CNC CONTROLLER
ONLINE MONITORING SYSTEM

CAMERA

SAFETY LIGHT BARRIER





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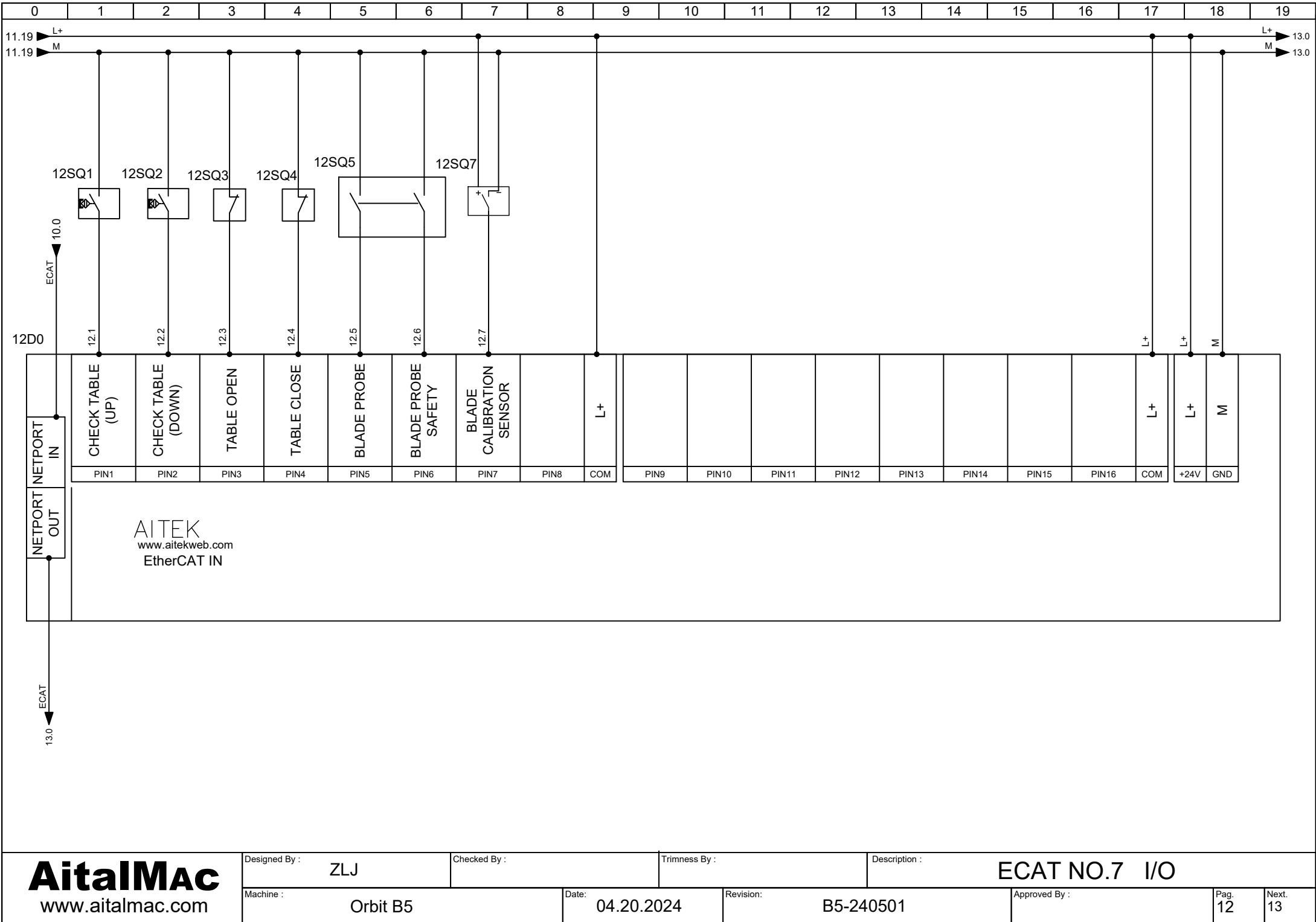
Revision: B5-240501

Description : ECAT NO.6 I/O

Approved By :

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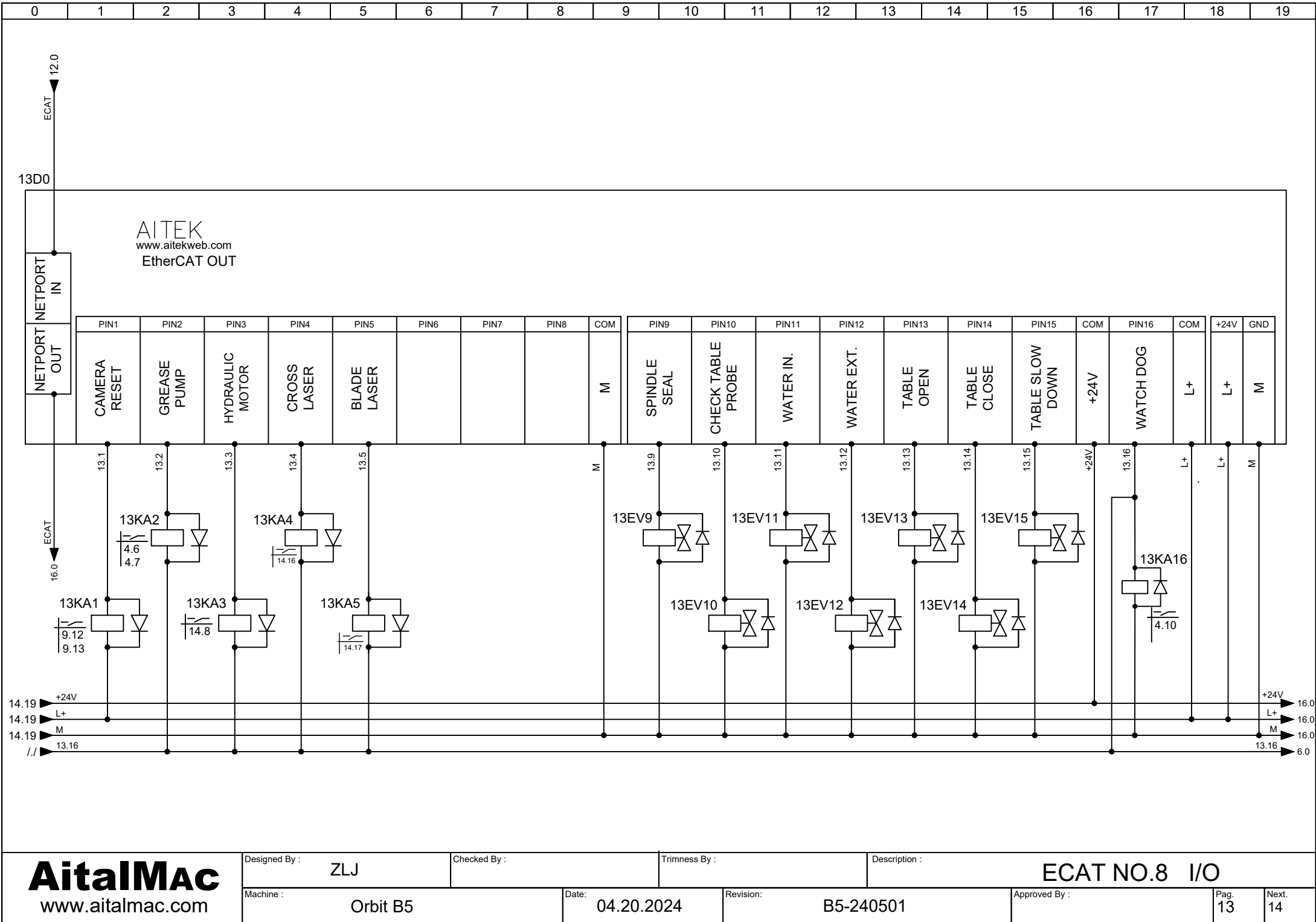
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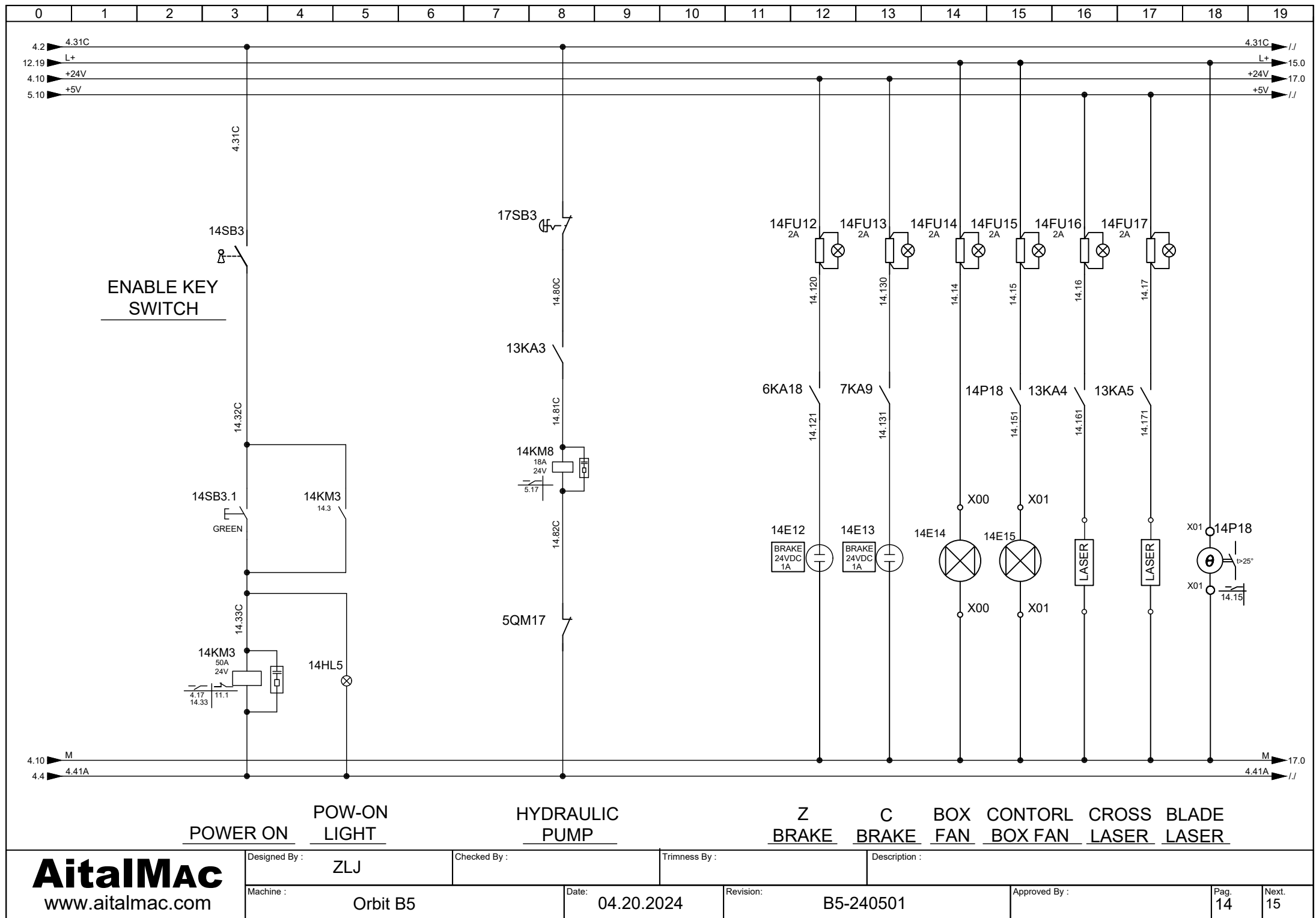
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Approved By :

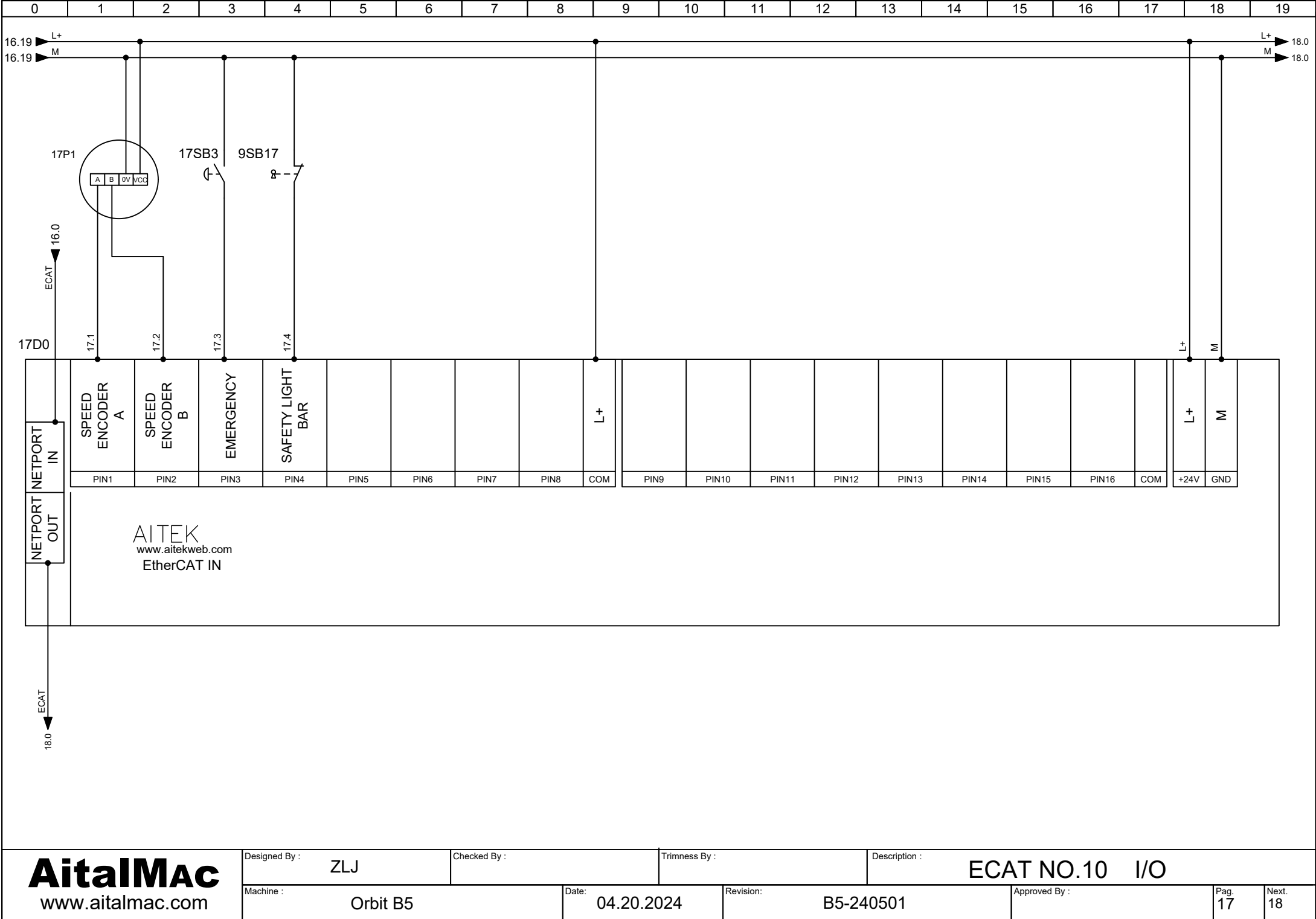
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0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
AitalMac www.aitalmac.com				Designed By : ZLJ			Checked By :			Trimness By :			Description :						
Machine : Orbit B5								Date: 04.20.2024		Revision: B5-240501				Approved By :			Pag. 15	Next. 16	



18.0

ECAT

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Designed By :

ZLJ

Checked By :

Trimness By :

Description :

ECAT NO.10 I/O

Machine :

Orbit B5

Date:

04.20.2024

Revision:

B5-240501

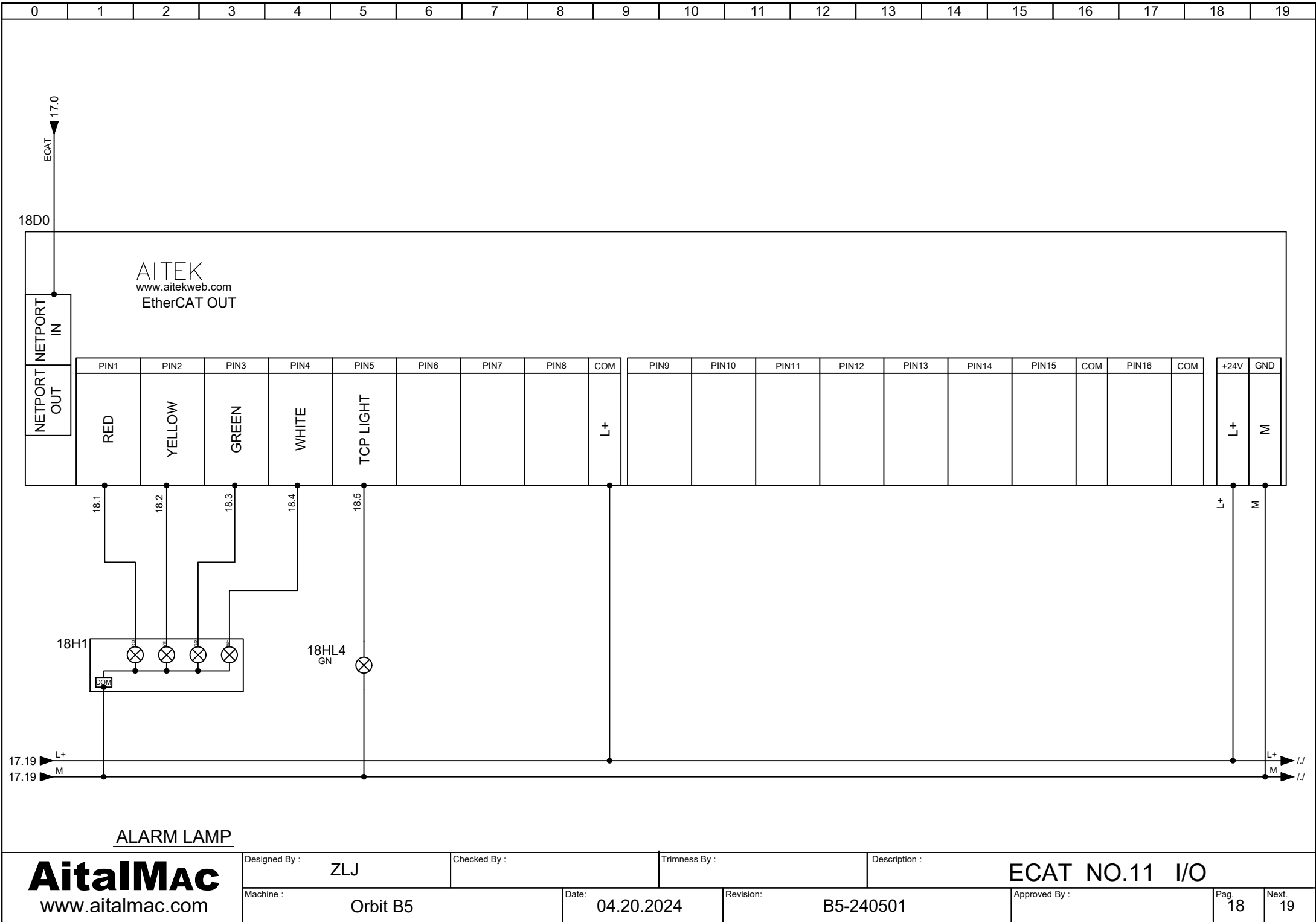
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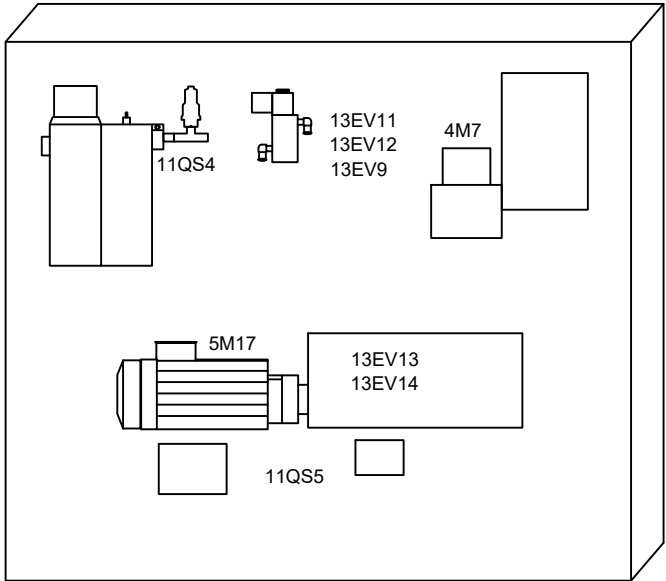
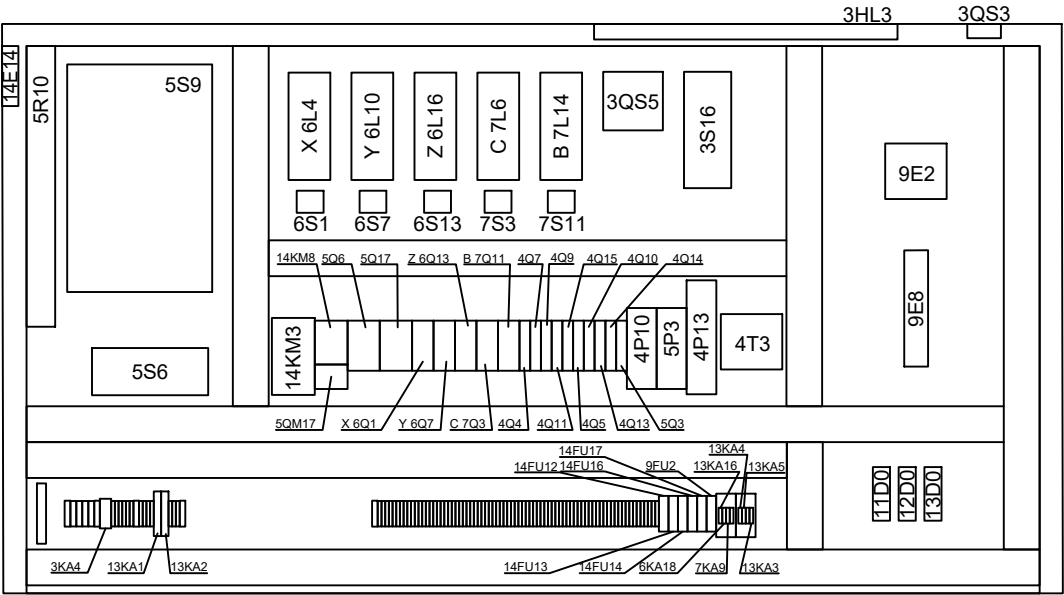
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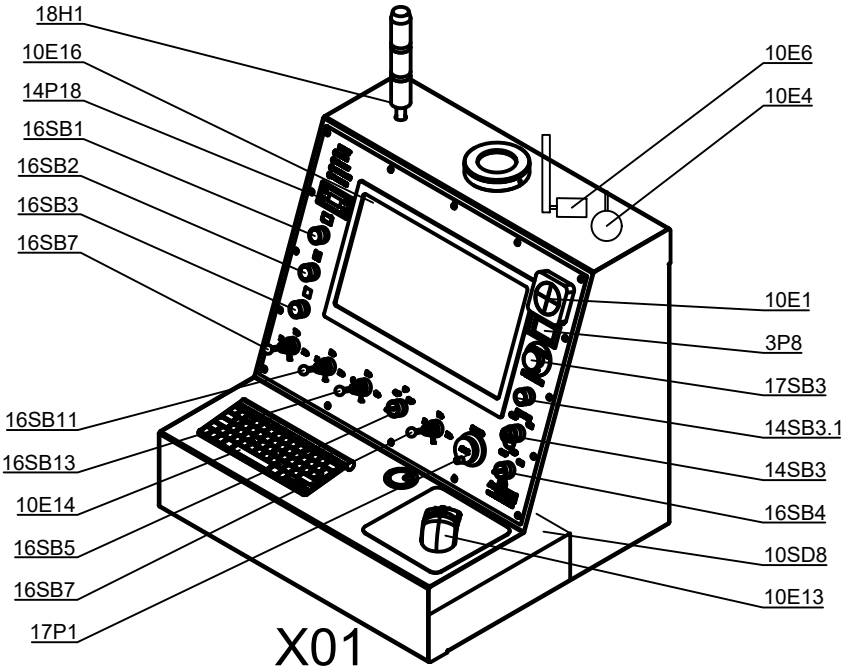
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X00



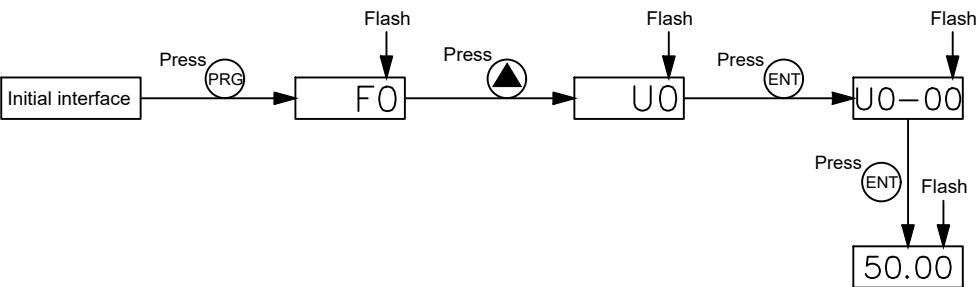
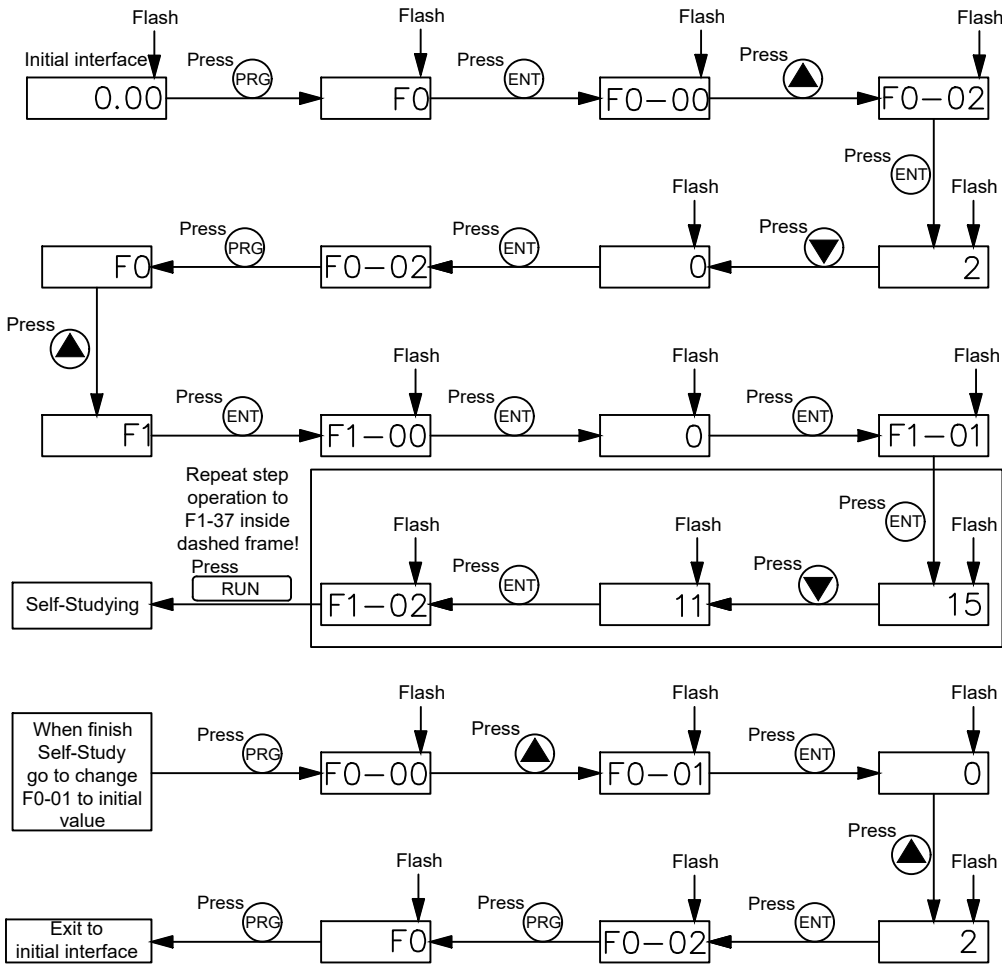
X01

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	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	10	S
F0-18	0.0s~6500.0s	20	S
F0-28	0,1	1	
F1-00	0,1	0	
F1-01	0.1kW-1000.0kW	11	Kw
F1-02	1V-2000V	380	V
F1-03	0.01A-655.35A	25	A
F1-04	0.01Hz-MAX	60	Hz
F1-05	1RPM-65535RPM	1710	Rpm
F7-03	0000-FFFF	4051	
F7-04	0000-FFFF	0000	

Servo Driver Parameter

Name	RANGE	X	Y	Z	C	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	16	16	16	16	16
PA004	0~20000	400	550	350	400	300
PA015	0~32767	1	1	1	1	1

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	Machine Orbit B5	Date 04.20.2024	Revision B5-240501		Note	Page 22	Next 23

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 INPUT	AITEK		15													
12	12SQ1	Check Table Sensor	CHVIRD	CS1-U	15													
12	12SQ2	Check Table Sensor	CHVIRD	CS1-U	15													
12	12SQ3	Table Open Limit Sensor	Moujen	ME-9101	15													
12	12SQ4	Table Close Limit Sensor	Moujen	ME-9101	15													
12	12SQ5	Blade Probe			15													
12	12SQ7	BLADE CALIBRATION			15													
					16	16D0	ETHERCAT INPUT	AITEK										
					16	16SB1	Control Box-Automatic Button	RENY	RAPNF-1A-G									
					16	16SB2	Control Box-Pause Button	RENY	RAPNF-1A-Y									
					16	16SB3	Control Box-Stop Button	RENY	RAPNF-1A-R									
					16	16SB4	TCP On/Off Switch	RENY	R2SNS-2FE-1D-G									
					16	16SB5	45°/90° Switch	RENY	R2SNS-3TB-2A-B									
					16	16SB7	X/Y Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm									
					16	16SB13	B/C Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm									
					16	16SB11	X/Z Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm									
13	13D0	ETHERCAT OUTPUT	AITEK		17	17D0	ETHERCAT INPUT	AITEK										
13	13KA1	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E	17	17P1	Speed Control Wheel	AITEK	24VPLC									
13	13KA2	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E	17	17SB3	X/Y Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm									
13	13KA3	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V	17													
13	13KA4	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V														
13	13KA5	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V														
13	13EV9	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V	18	18D0	ETHERCAT OUTPUT	AITEK										
13	13EV10	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V	18	18H1	Alarm Indicator lamp	TAYB	TB50-4T-D 24V									
13	13EV11	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V	18	18HL4	TCP Knob Light	RENY	R2PIF-1D-2GL									
13	13EV12	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V														
13	13EV13	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V														
13	13EV14	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V														
13	13EV14	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V														
13	13KA16	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V														
13																		
14	14SB3	Enable Key Switch	RENY	RBSNK-2														
14	14SB3.1	Power On Button	RENY	R2PIF-1D-2GL														
14	14KM3	Contactor	Schneider	LC1D50AB7C														
14	14KM8	Contactor	Schneider	LC1-D18B7C 18A														
14	14FU12	Fuse	CHE	FS-101 DC24V 2A														
14	14FU13	Fuse	CHE	FS-101 DC24V 2A														
14	14E12	Z Brake	--	24VDC 1A														
14	14E13	C Brake	--	24VDC 1A														
14	14FU14	Fuse	CHE	FS-101 DC24V 2A														
14	14E14	BOX FAN	--	TYP4114N/12MR 24V 6W 12CM														
14	14FU15	Fuse	CHE	FS-101 DC24V 2A														
14	14E15	CONTORL BOX FAN	--	TYP4114N/12MR 24V 6W 12CM														
14	14FU16	Fuse	CHE	FS-101 DC24V 2A														
14	14FU17	Fuse	CHE	FS-101 DC24V 2A														
14	14A16	Cross Laser	--	16mm														
14	14A17	Blade Laser	--	16mm														
14	14P18	Thermometer	JIAQISHENG	XY-WT01														
14																		
14																		
14																		
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14																		
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					Machine Orbit B5		Date 04.20.2024		Revision B5-240501			Note			Page 23		Next ./.	