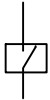
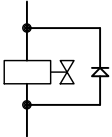
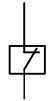
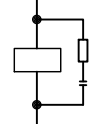
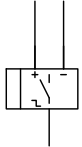
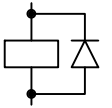
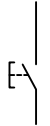
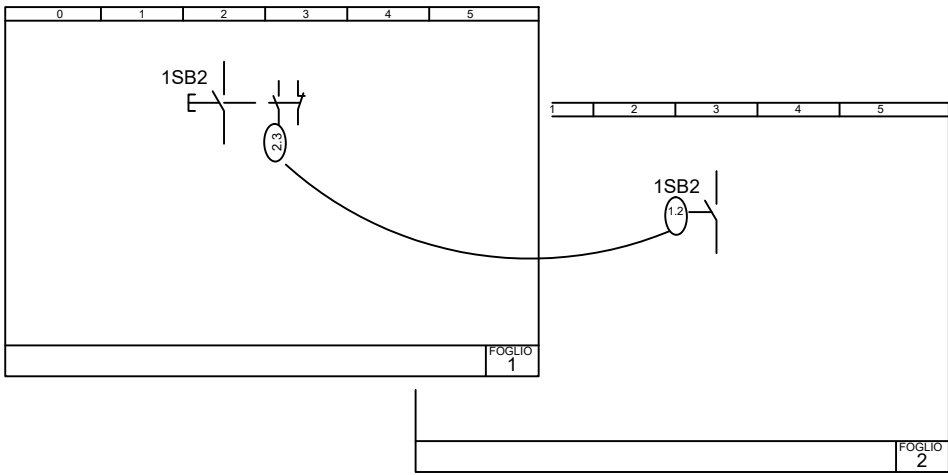


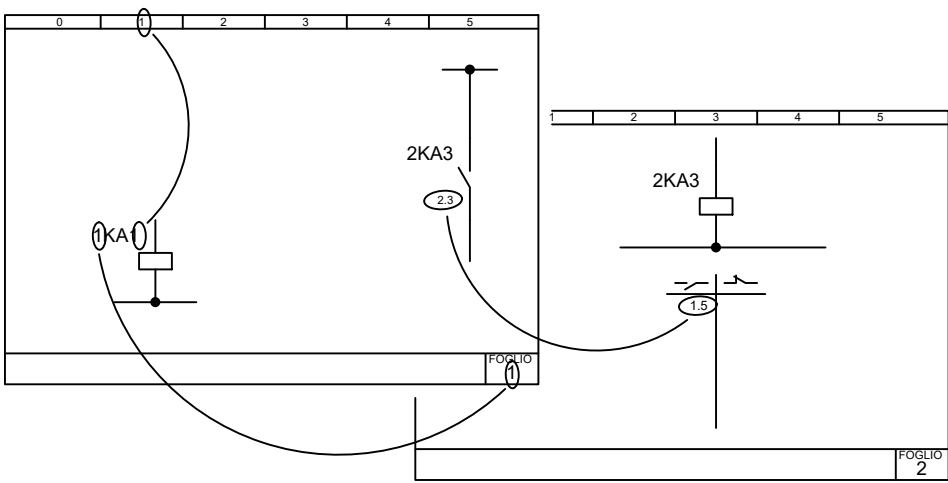
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19																					
AITALMAC										LOCATION SYMBOLS ☐ Components on the door ☐ Components inside the cubicle (usually omitted) ☒ Machine components (usually omitted)				COMPONENTS DESIGNATION C Condensers D CNC control model E Component not in this 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 FPR4					VOLT. 220 FREQ. 50-60																																			
WIRING DIAGRAM					CUBICLE DIMENSION																																			
FPR4-230706					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>1,0mm²</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>2.5mm²</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>0,25mm² (0,5mm² I<2A)</td></tr></tbody></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	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)	COLORS WH White GY Gray YE Yellow BU Blue RD Red BK Black OG Orange GNYE GreenYellow			
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										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.																														
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 : FPR4			Date: 05.31.2024			Revision: FPR4-230706			Approved By :			Pag. 1	Next. 2																									

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

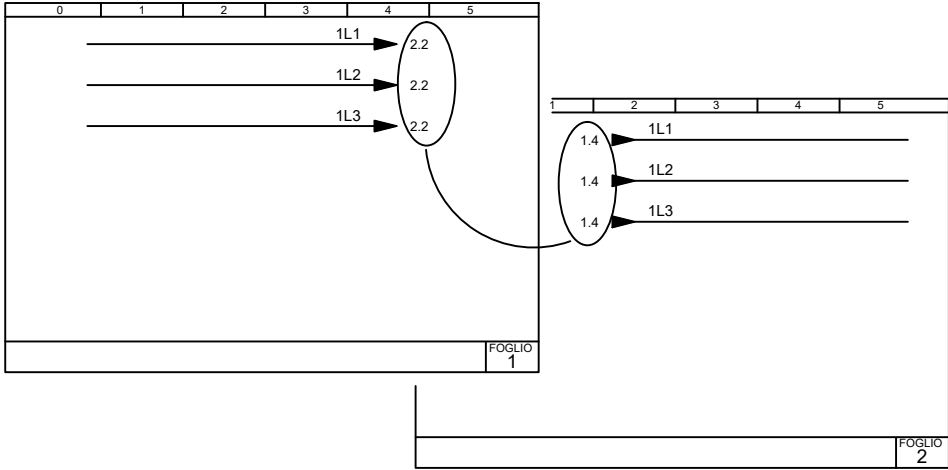
COMPONENT REFERENCE



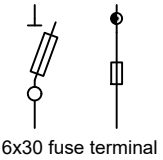
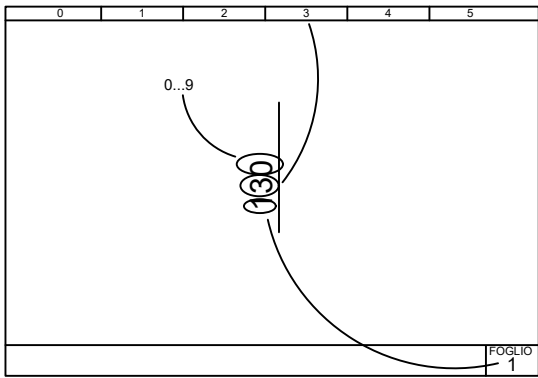
COMPONENT NAME/COIL-CONTACT POSITION

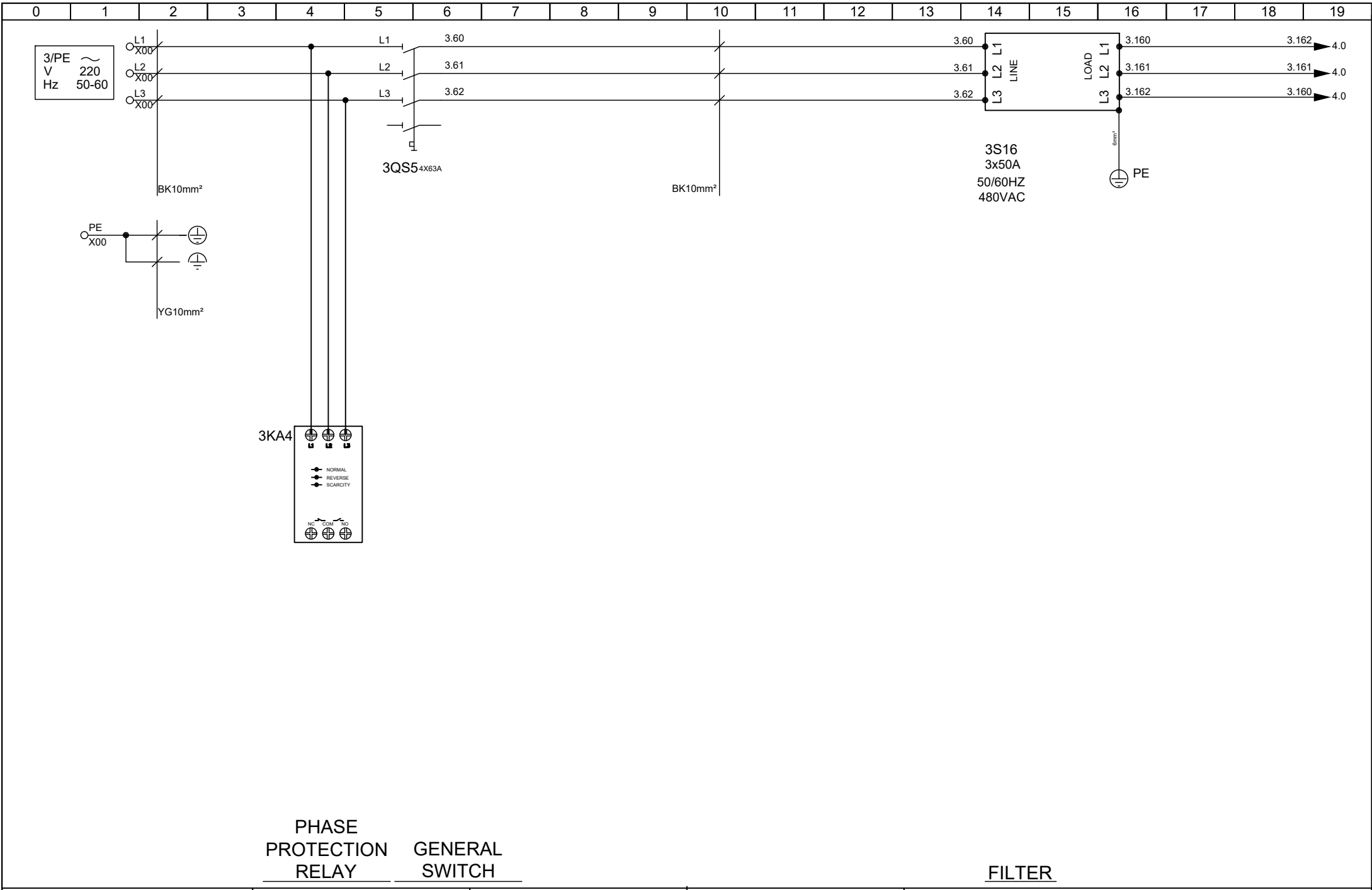


SIGNALS



WIRE NUMBER

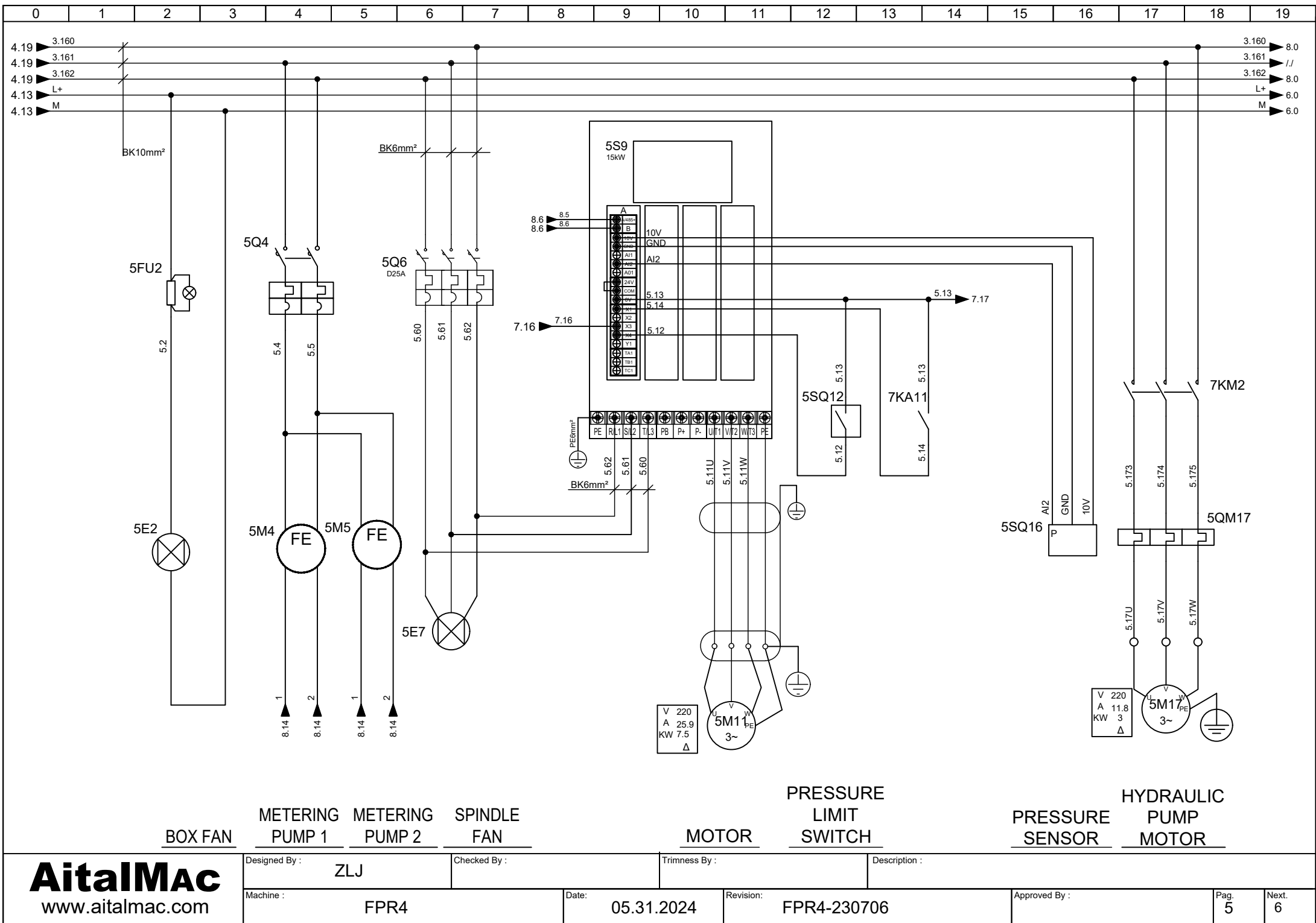


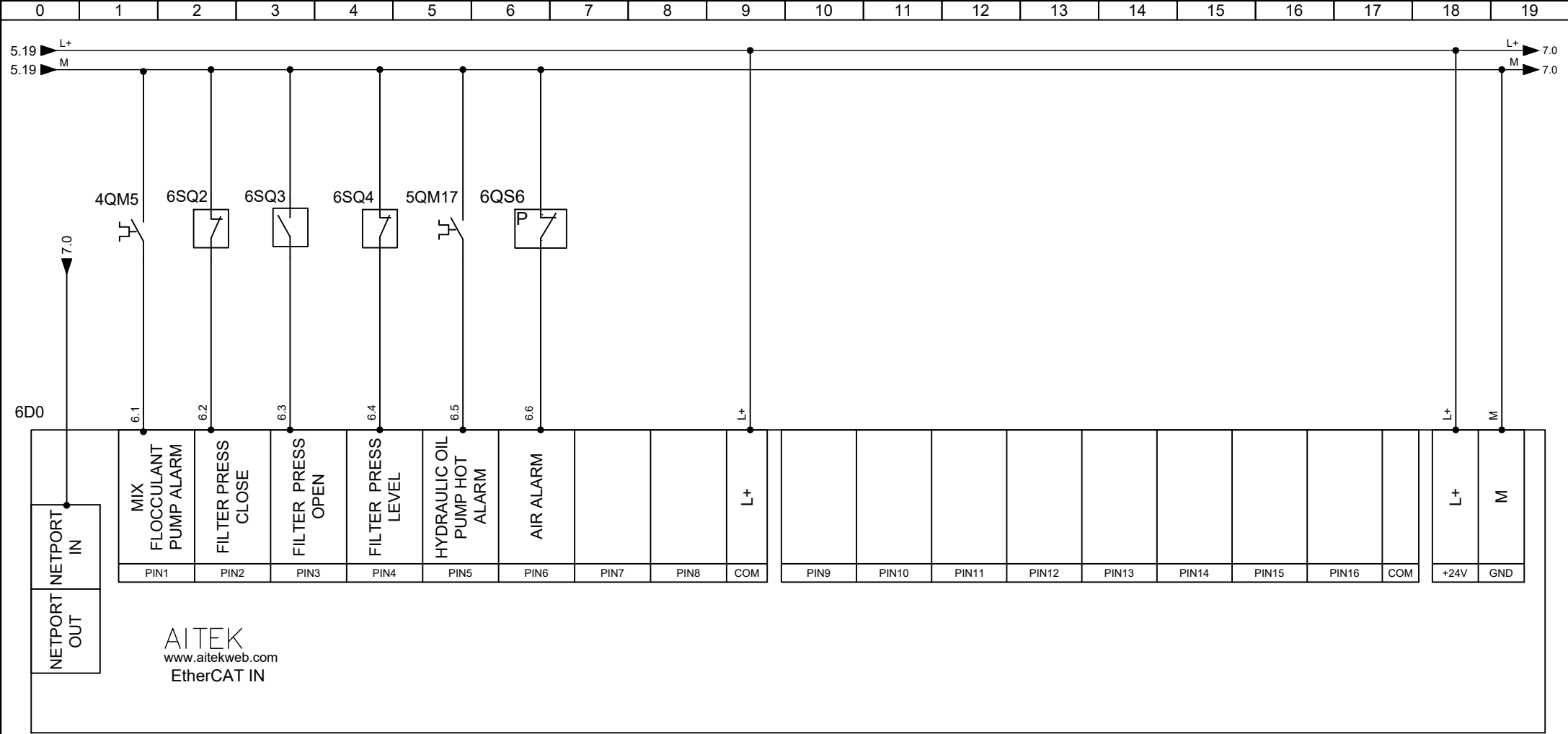


PHASE
PROTECTION
RELAY

GENERAL
SWITCH

FILTER





Inverter Parameter

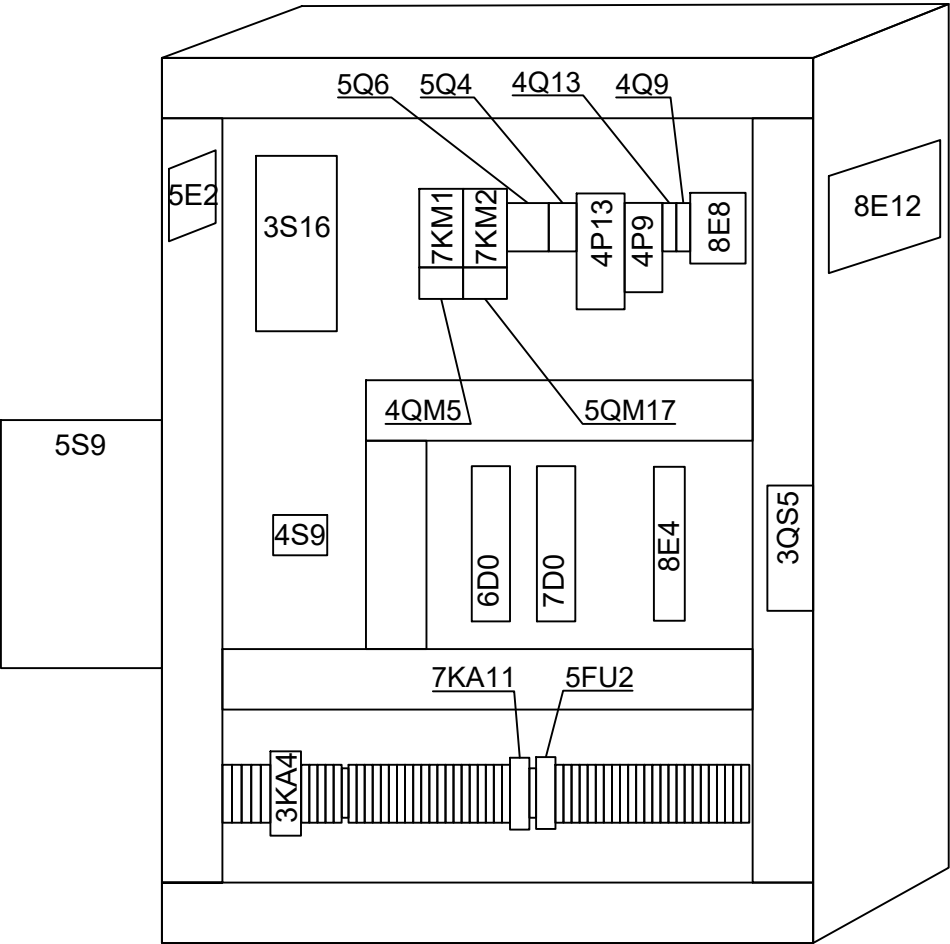
NAME	RANGE	DEFAULT	UNITS
P0-01	0,1,2	0	
P0-15	P0-17~P0-13(MAX)	75	Hz
P0-03	0-11	6	
P0-04	0-11	0	
P0-02	0,1,2	1	
P0-18	0.0s~6500s	30	
P0-19	0.0s~6500s	3	
P0-13	50.00Hz~600.00Hz	500.00	Hz
P1-00	0,1	0	
P1-01	0.1KW~650KW	7.5	KW
P1-02	1V~1200V	220V	V
P1-03	0.01A~655.35A	25.9	A
P1-04	0.01HZ~MAX	60	HZ
P1-05	1RPM~65535RPM	1728	RPM
P2-03	0-51	36	
P9-00	0,1	0	
P9-01	1-247	1	
P9-02	0-7	7	38400BPS
P9-03	0,1,2,3	3	8,N,1
P9-04	- -	0.0	
P9-05	0-20ms	5	
P9-06	0.0~60.0s	0	
PC-45	200~537V	200	

Flowmeter Parameter

NO.	NAME	DEFAULT
	PASSWORD	10000
01	LANGUAGE	English
02	COMMADDRES	00002
03	BANDRATE	9600
04	SNSR SIZE	50
05	FLOW UNIT	L/m
06	FLOW RANGE	60 m³/h
08	FLOW RSPNS	1
11	FLOW DIRECT	REVERSE
13	FLOW CUTOFF	1%
14	TOTALUNIT	L
43	ODDEVEN PARITY	NO PARITY

METERING PUMP Parameter

NO.	PUMP 1	PUMP 2
01	1201	1201
02	0**2	0**2
03	0003	0003
04	0034	0044



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									
3	3S16	Filter	DOTHINK	DTT1021-50-S6-S47									
3													
3													
4	4M3	Mix Flocculant MOTOR2	KAXIELI	YS8014-0.55KW									
4	4M5	Mix Flocculant MOTOR1	KAXIELI	YS8014-0.55KW									
4	4QM5	Thermal Relay	Schneider	LRD12C 5.5-8A									
4	4S9	Filter	Canny Well	CW1B-6A-L									
4	4P9	Power Supply	MW	MDR-60-5DC 5V10A									
4	4Q9	Circuit Breaker	Schneider	C65H-DC 1P C10A									
4	4P13	Switching Power Supply	WEHO	EDR-120-24									
4	4Q13	Circuit Breaker	Schneider	C65H-DC 1P C4A									
4													
4													
4													
4													
5	5FU2	Fuse	CHE	FS-101 DC24V 2A									
5	5E2	Box Fan	--	24V 6W 12CM									
5	5Q4	Circuit Breaker	Schneider	IC65N D10A 2P									
5	5M4	Metering Pump	NEWDOSE	DC-03-07-L									
5	5M5	Metering Pump	NEWDOSE	DC-03-07-L									
5	5Q6	Circuit Breaker	Schneider	IC65N D32A 3P									
5	5E7	Spindle Fan	--	--									
5	5S9	Frequency Converter	XINJE	VH6-4015-B 15kw									
5	5M11	Submersible Pump Motor	--	YW65-30-40-7.5									
5	5SQ12	Sensor	--	--									
5	5SQ16	Pressure Sensor	YUNMIN	PT-506 10V									
5	5QM17	Thermal Relay	Schneider	LRD16C 9-13A									
5	5M17	Hydraulic Pump Motor	WANERF	4WE6J-6X/ED24									
5													
5													
6	6D0	ETHERCAT IN	AITEK	INPUT									
6	6SQ2	Oil Pressure Gauge	YNXC	YNXC100 16MPA									
6	6SQ3	Release Limit	CNTD	TZ- 8108									
6	6SQ4	Liquid Level Sensor	--	PP-F									
6	6QS6	Air Pressure Switch	SQW	QPM11-NC									
6													
6													
6													
6													
6													
6													
6													
6													

Pg.	Code	Name	Mfrs.	Model									
7	7D0	ETHERCAT OUT	AITEK	OUTPUT									
7	7KM1	Contactactor	Schneider	LC1-D18BD7C DC24V									
7	7KM2	Contactactor	Schneider	LC1-D18BD7C DC24V									
7	7EV3	Hydraulic Control Valve	WANERF	4WE6J-6X/ED24									
7	7EV4	Hydraulic Control Valve	WANERF	4WE6J-6X/ED24									
7	7EV5	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
7	7EV6	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
7	7EV7	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
7	7EV8	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
7	7EV9	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
7	7EV10	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V									
7	7KA11	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E									
7													
8	8E4	CARD	RASPBERRY PI	PI4-4G									
8	8E8	USB TO RS485	YNUIC	UIC9400 12MBPS 4COM									
8	8E12	MONITOR	WAVESHARE	9HP-CAPQLED									
8	8SQ16	FLOWMETER	LEITAI	DN15-50MM									
8													

Aitalmac

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Designed By

ZLJ

Checked By

Approved By

Trimness By

Description

COMPONENTS INFORMATION

Machine

FPR4

Date

05.31.2024

Revision

FPR4-230706

Note

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