AITALMAC

CLIENTE

AITALMAC CO.,LTD

MACHINE

CNC

ORBITA5

MAIN POWER SUPPLY

VOLT. 220

FREQ. 50-60

WIRING DIAGRAM

A5-190901

CUBICLE DIMENSION

L (mm) 1835

H (mm) 560

P (mm) 320

CONDUCTORS DESIGNATION

COLOR	FUNCTION	MINIMUM SECTION
BLACK	power circuit A.C./D.C.	1,0mm²
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	0,25mm² (0,5mm² I<2A)

THE WIRING DIAGRAM IS INDICATED WITHOUT TENSION, AIR, OIL AND WATER FLOW.

LOCATION SYMBOLS

- Components on the door
- Components inside the cubicle (usually omitted)
- Machine components (usually omitted)

COLORS

WH	White	GN	Gray
YE	Yellow	BU	Blue
RD	Red	BK	Black
OG	Orange	GY	GreenYellow

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

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.

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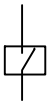
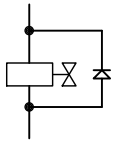
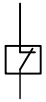
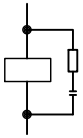
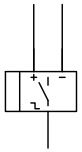
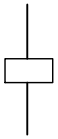
Designed By :	Checked By :	Trimness By :	Description :
ZLJ			

Machine :	Date:	Revision:	Approved By :	Pag.	Next.
Orbit A5	10.14.2019	A5-190901		1	1.1

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

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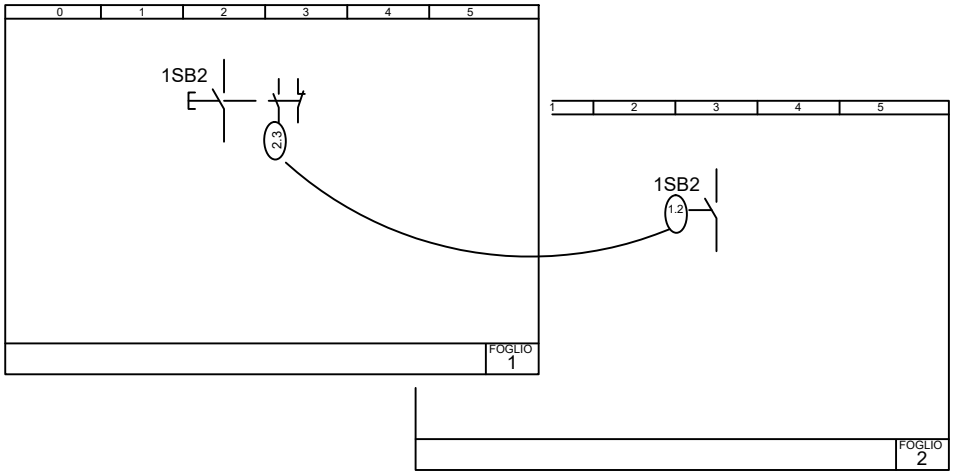
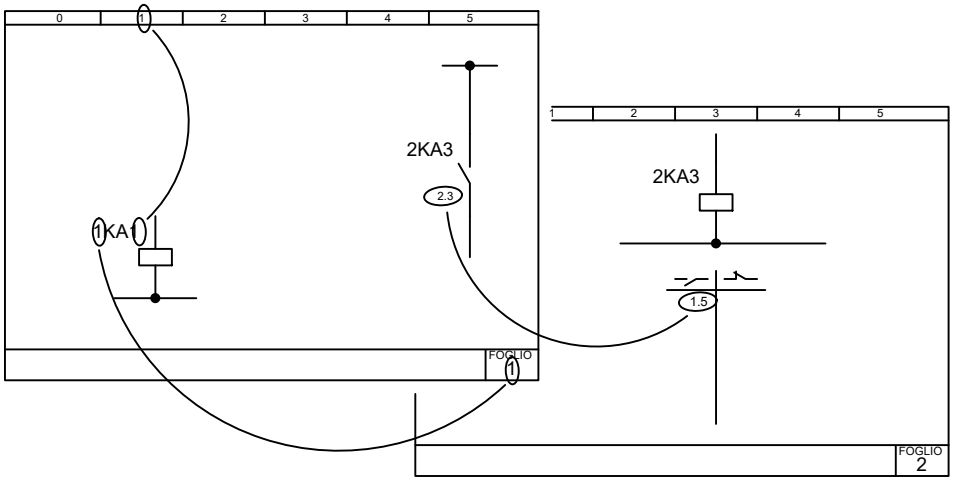
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note	Page 1.1	Next 2

COMPONENT REFERENCE



COMPONENT NAME/COIL-CONTACT POSITION



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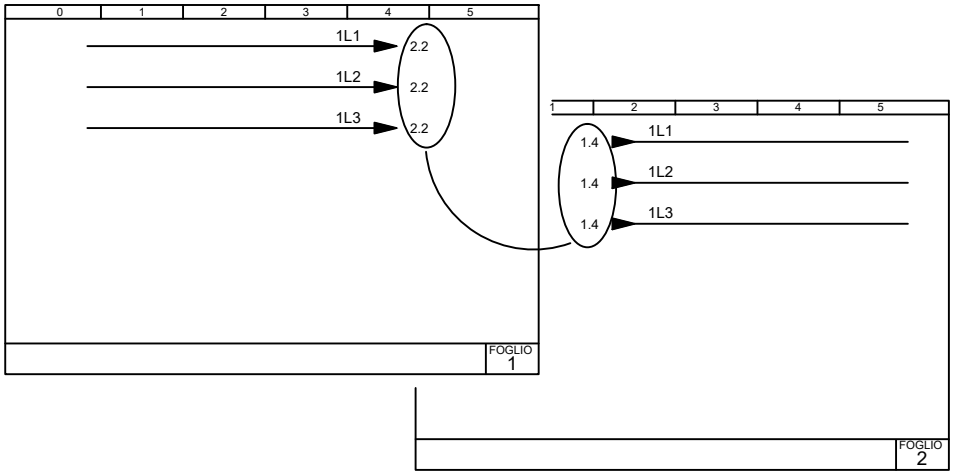
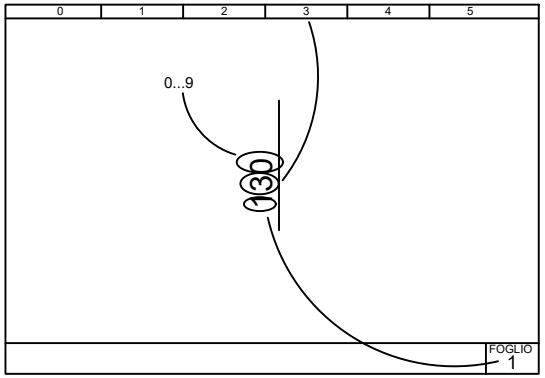
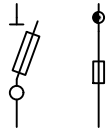


WIRE NUMBER





6x30 fuse terminal

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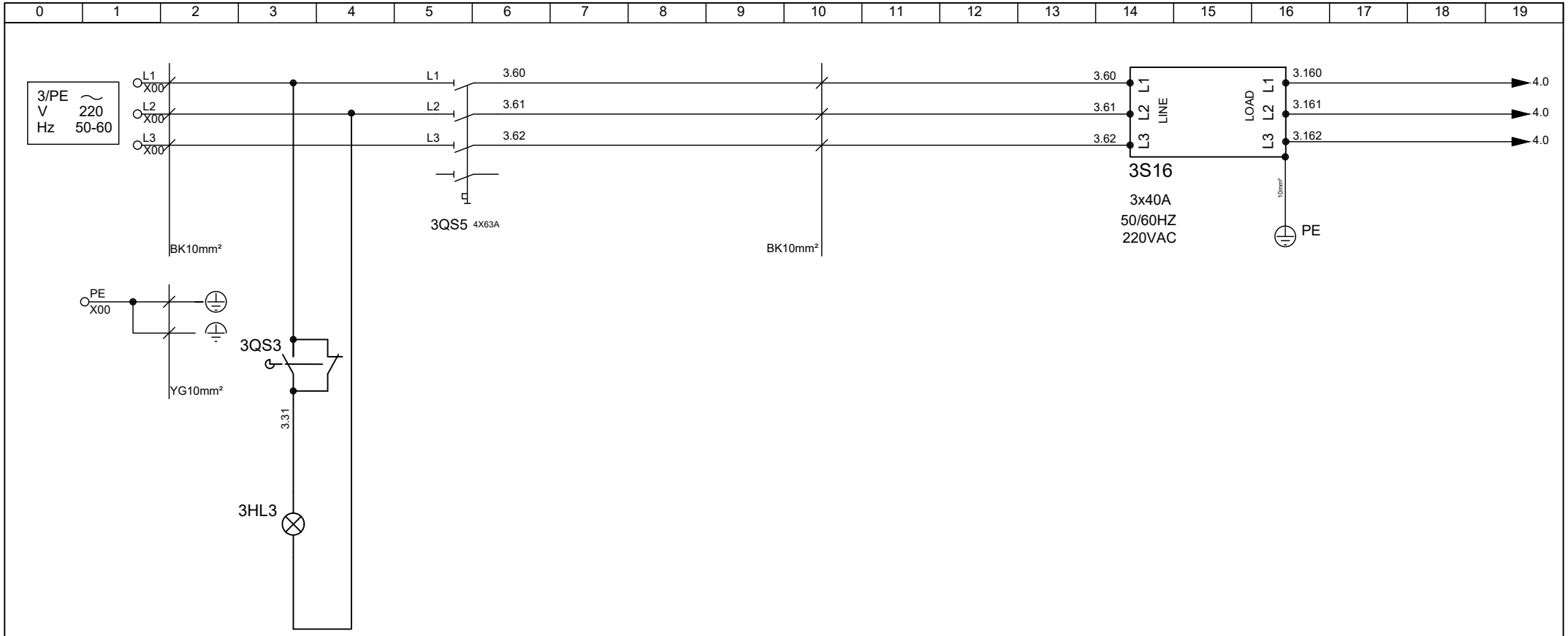

EXAMINE AND REEPAIR LAMP

GENERAL SWITCH

FILTER

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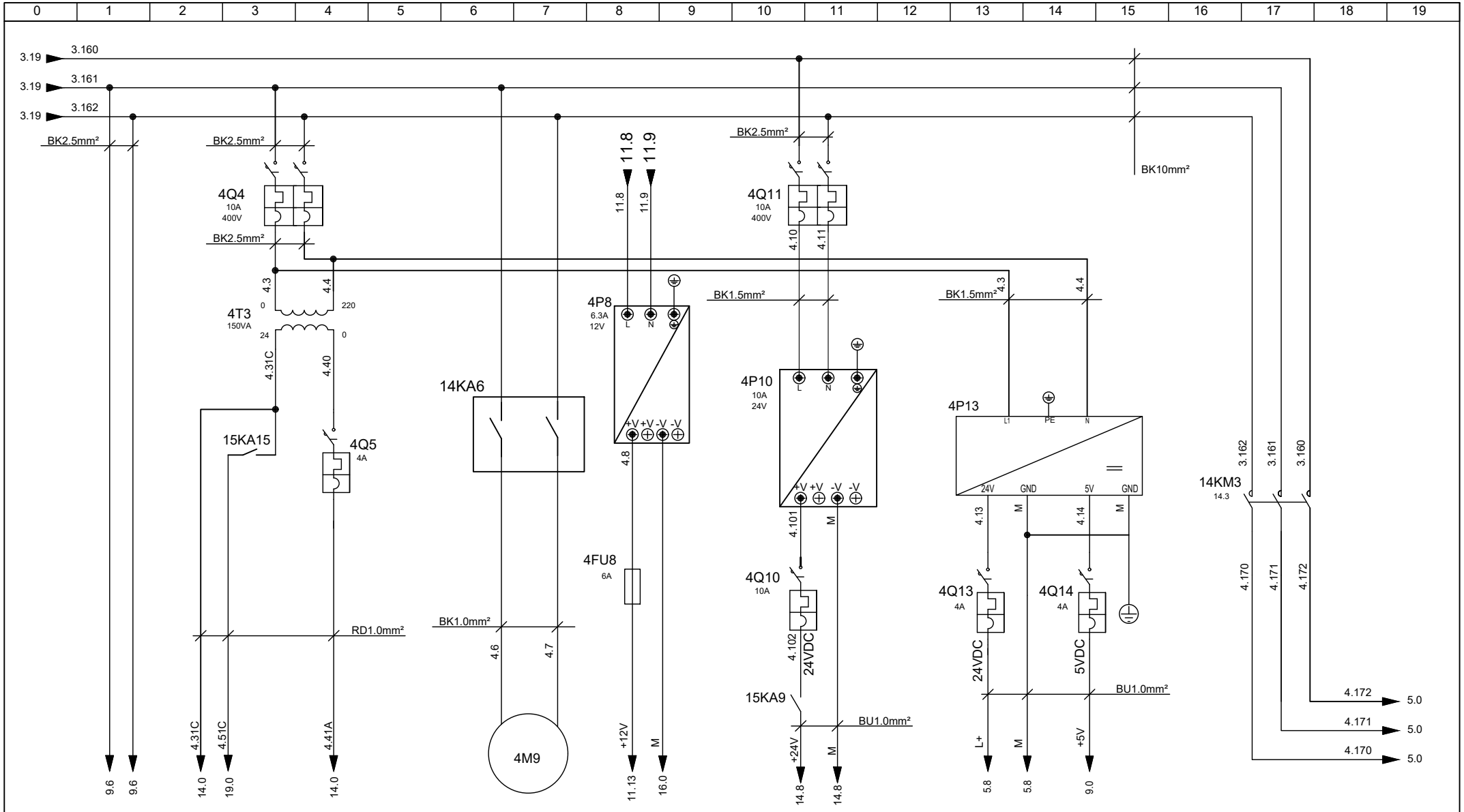

PC POWER	AUXILIARY CIRCUIT SUPPLY	CONTROL TRANSFORMER 50/60HZ	OIL PUMP MOTOR	POWER SUPPLY 24VDC10A	POWER CONTROL 24VDC10A 5VDC4A	GENERAL CONTACTOR

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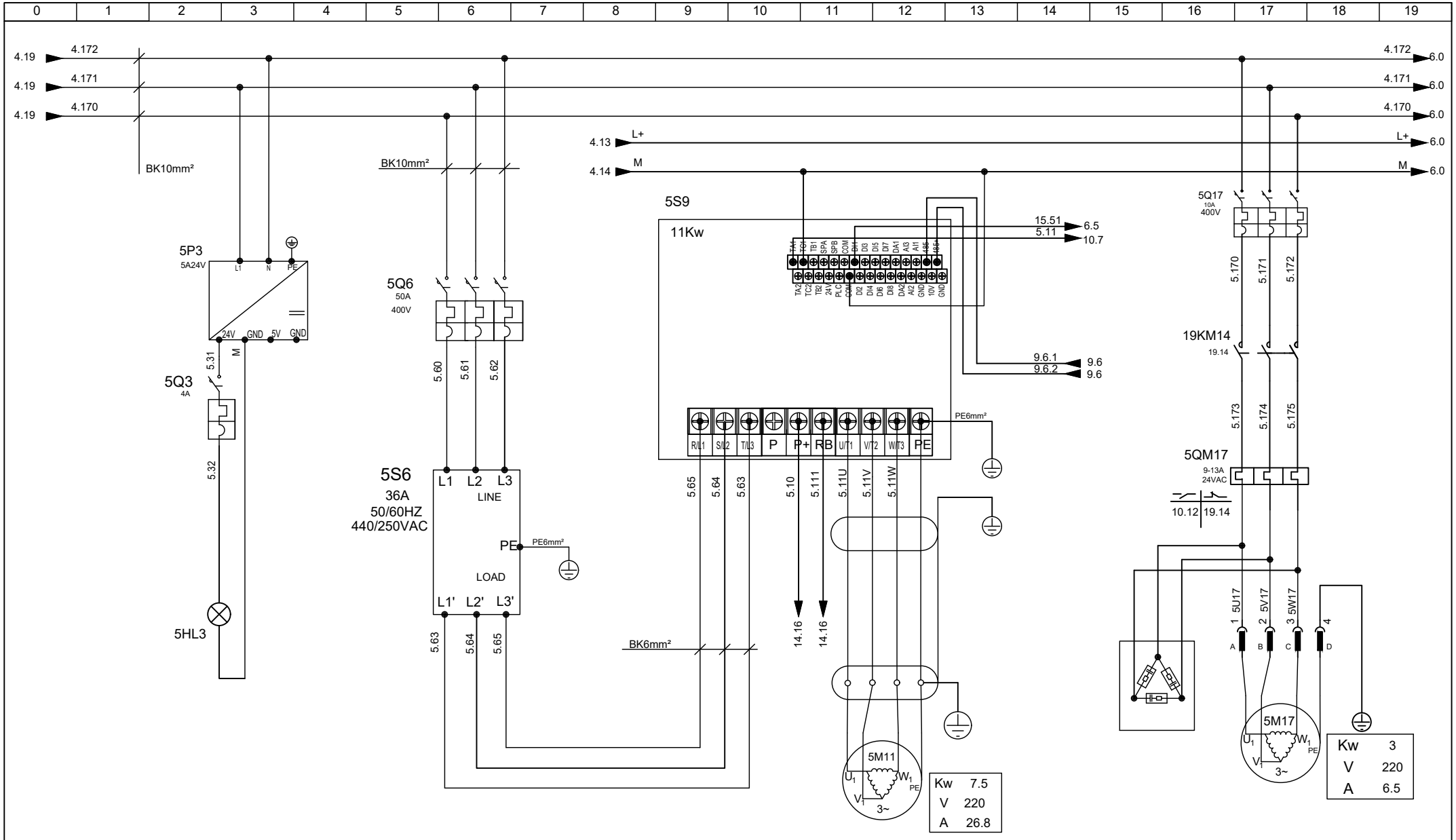
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note	Page 4 / Next 5



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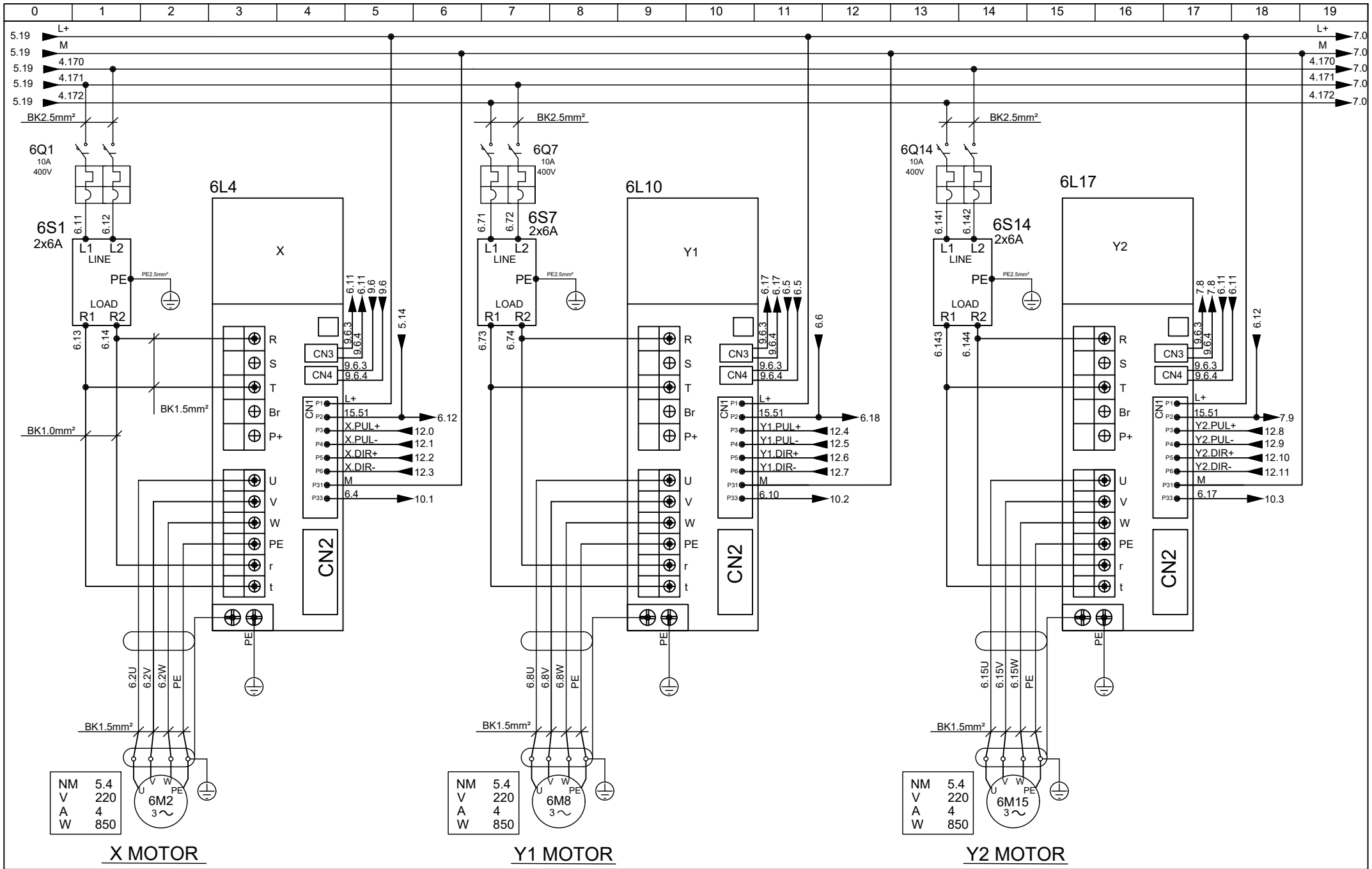

Aitalmac www.aitalmac.com	Designed By ZLJ	Checked By	Approved By	Trimness By	Description DRIVERS
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note
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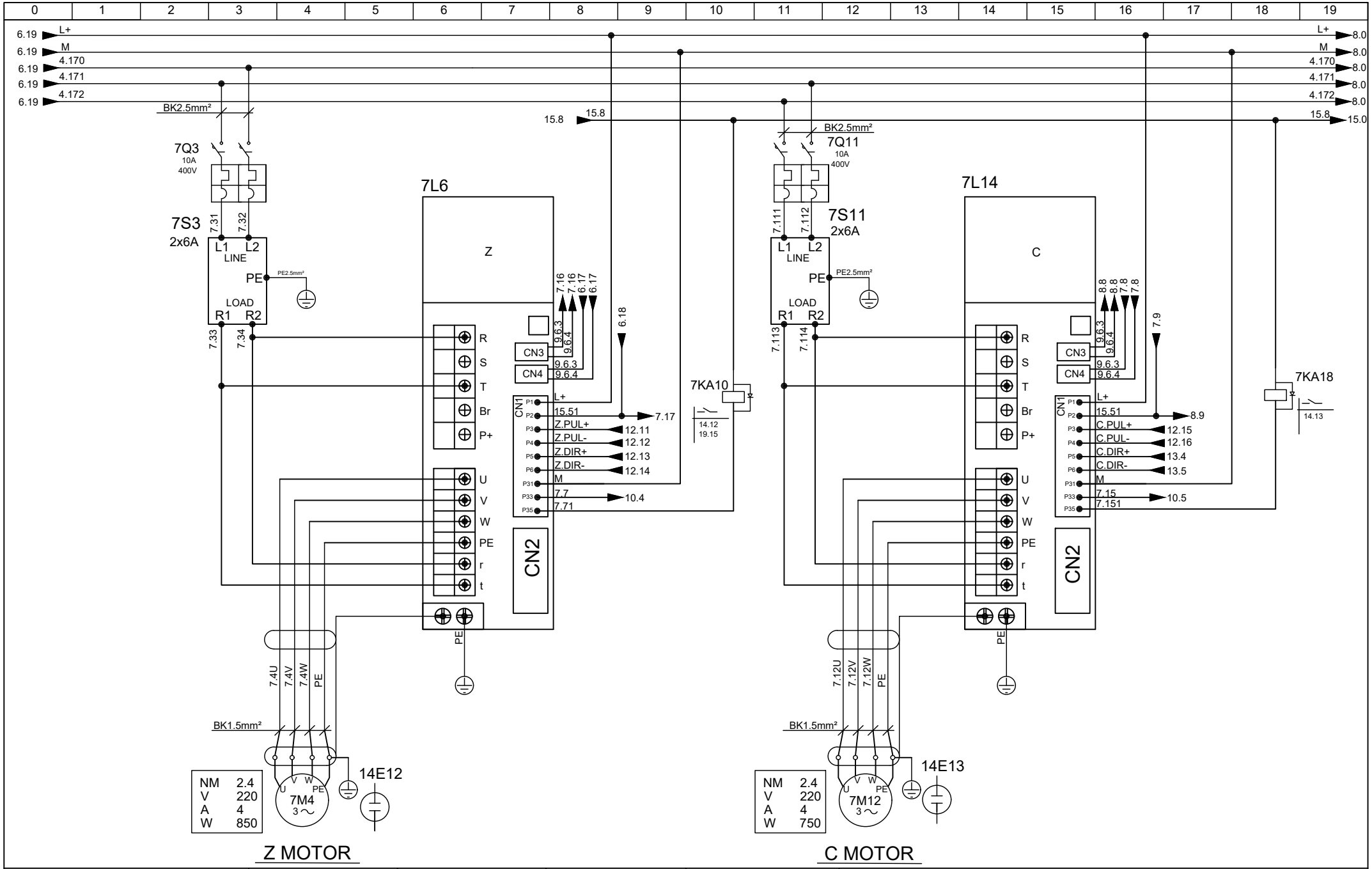

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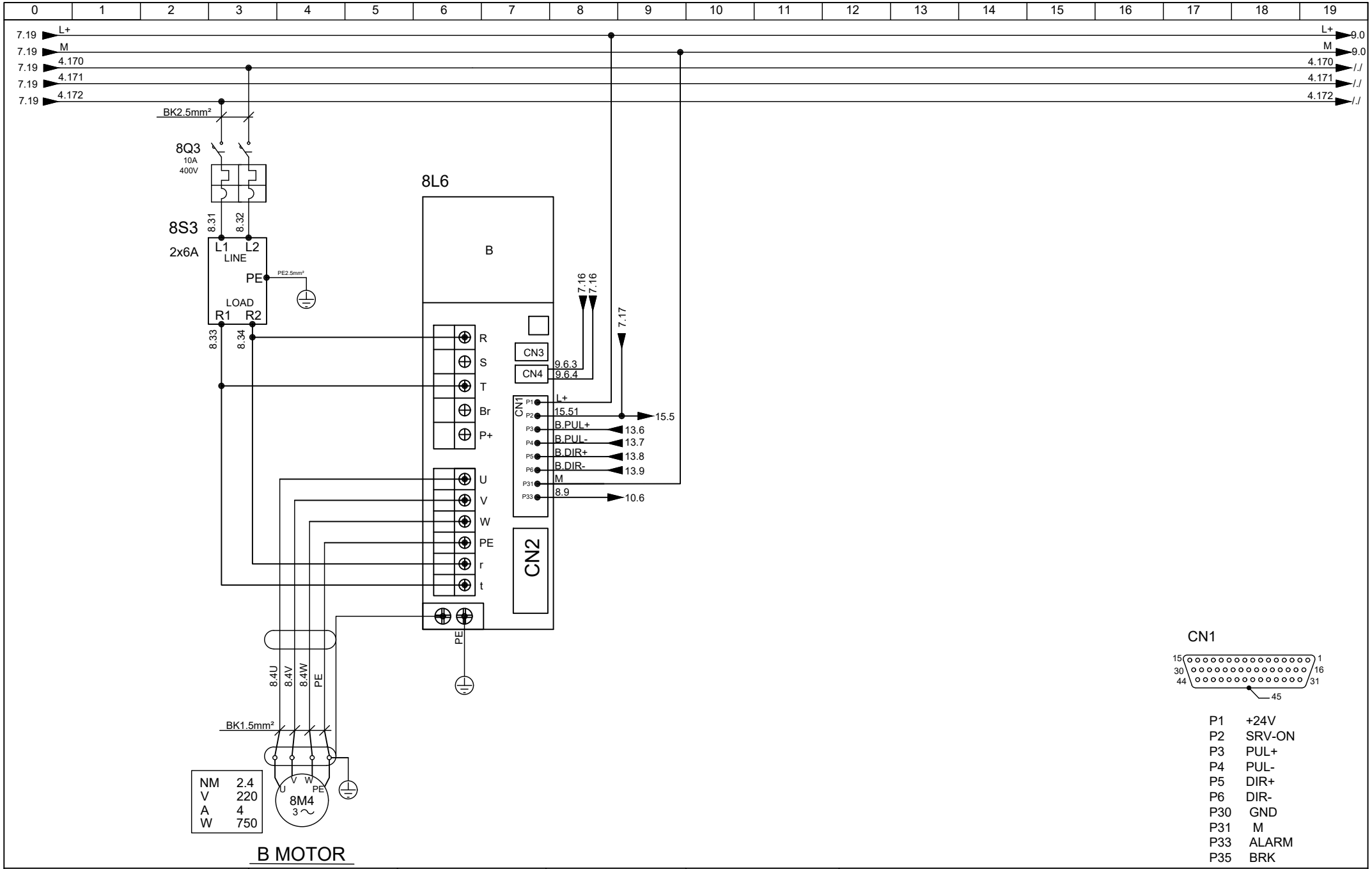

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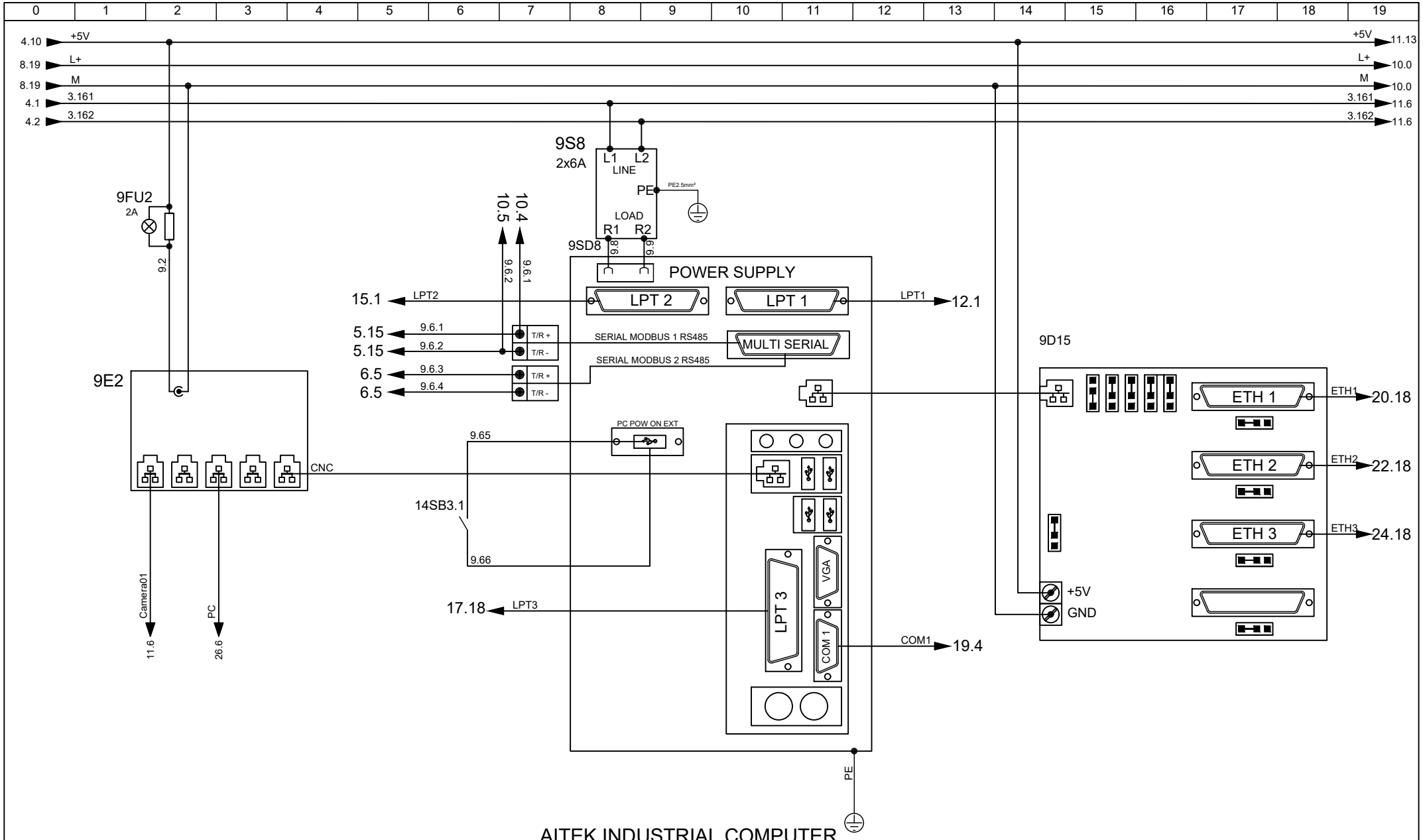
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note	Page 8	Next 9



AITEK INDUSTRIAL COMPUTER
9 AXIS CNC CONTROLLER
ONLINE MONITORING SYSTEM

WIFI ROUTE POWER

Wi-Fi ROUTER

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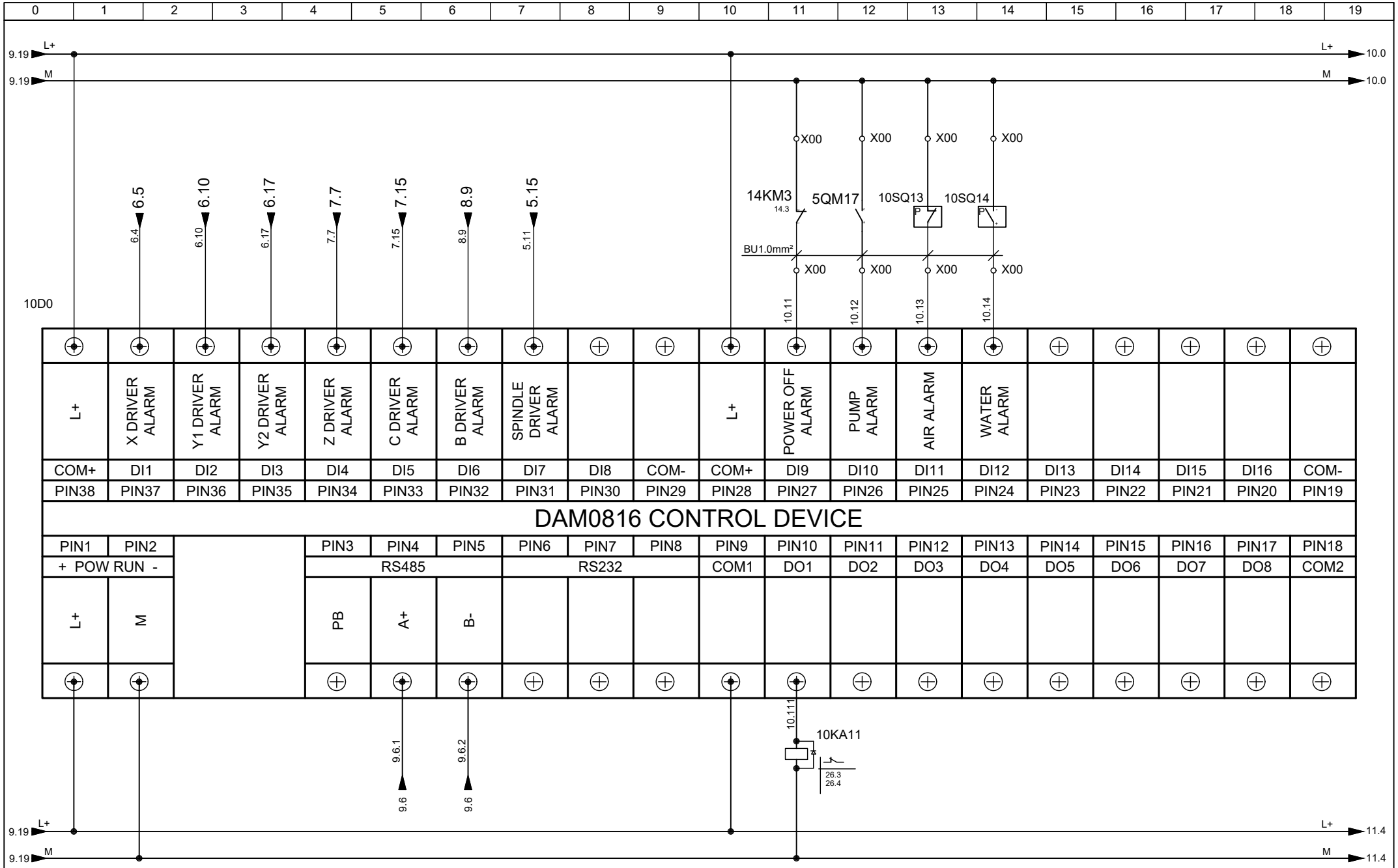

Aitalmac www.aitalmac.com	Designed By ZLJ	Checked By	Approved By	Trimness By	Description CONTROL DEVICE
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note
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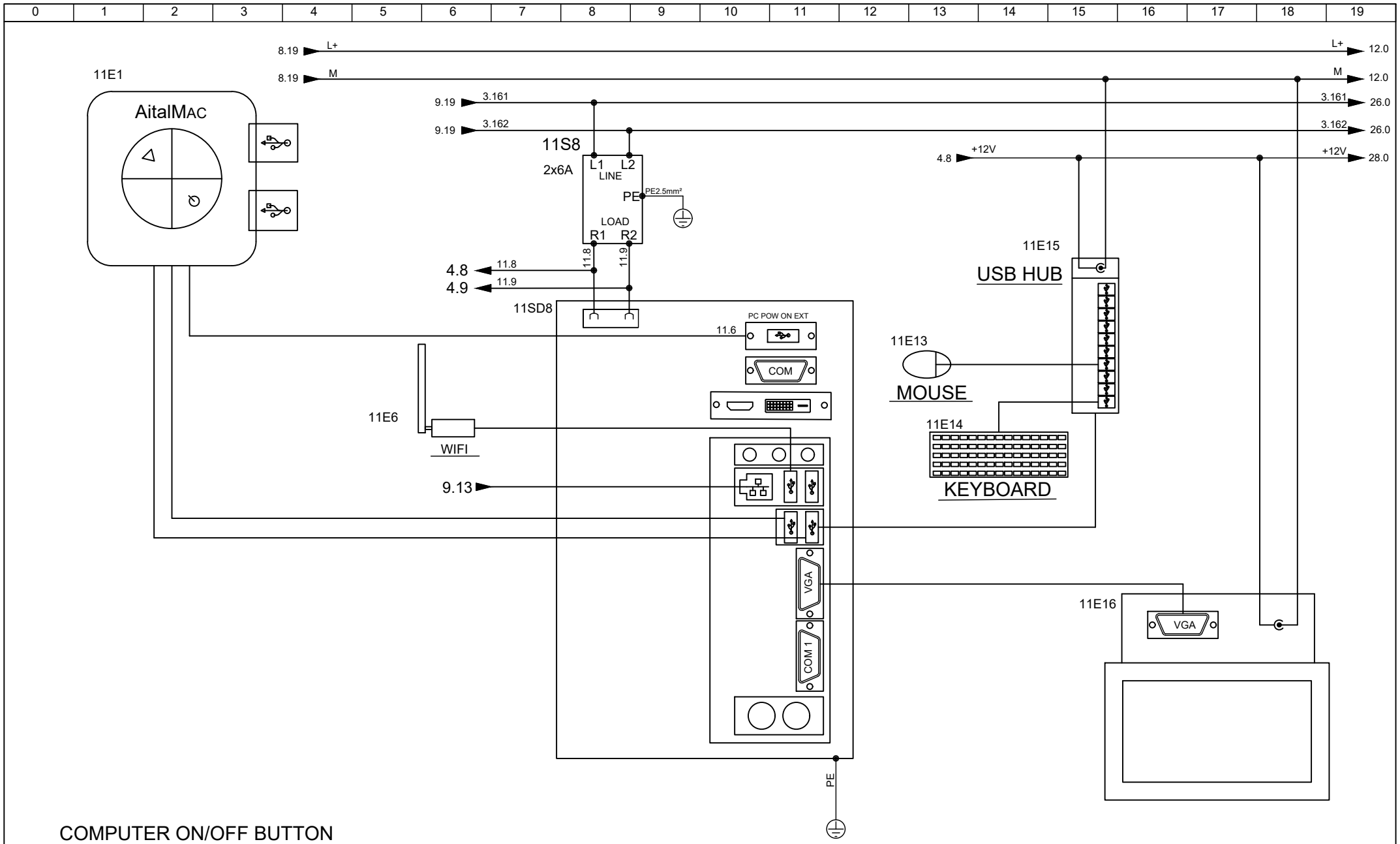

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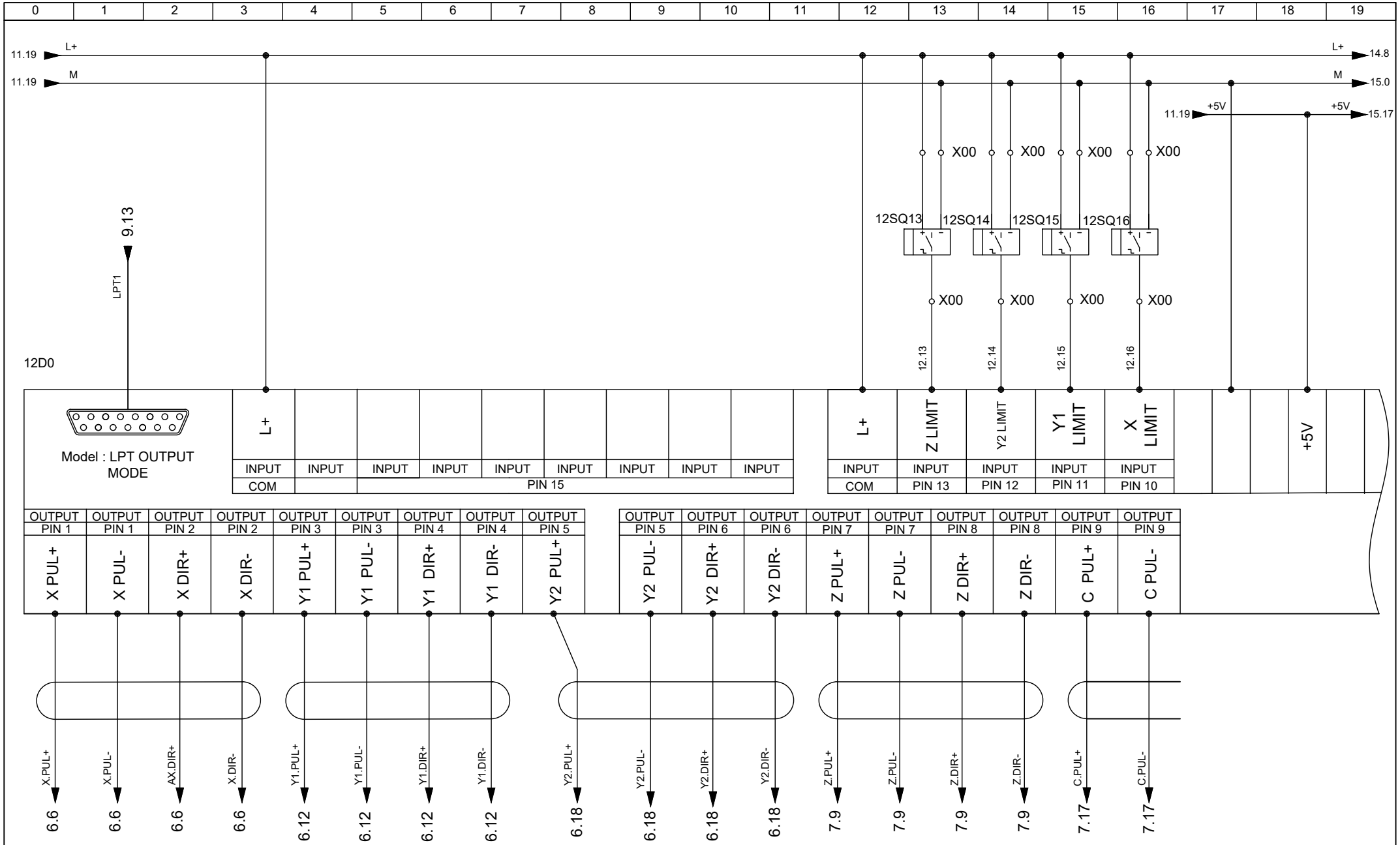

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	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note

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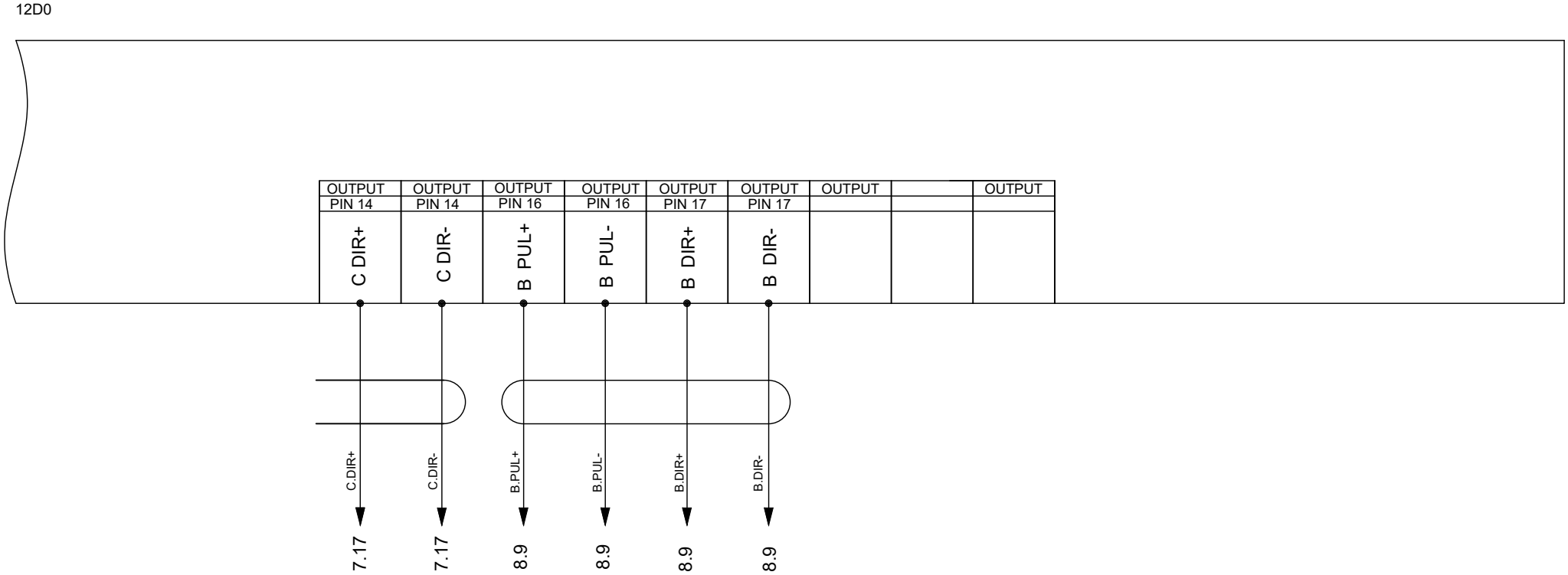

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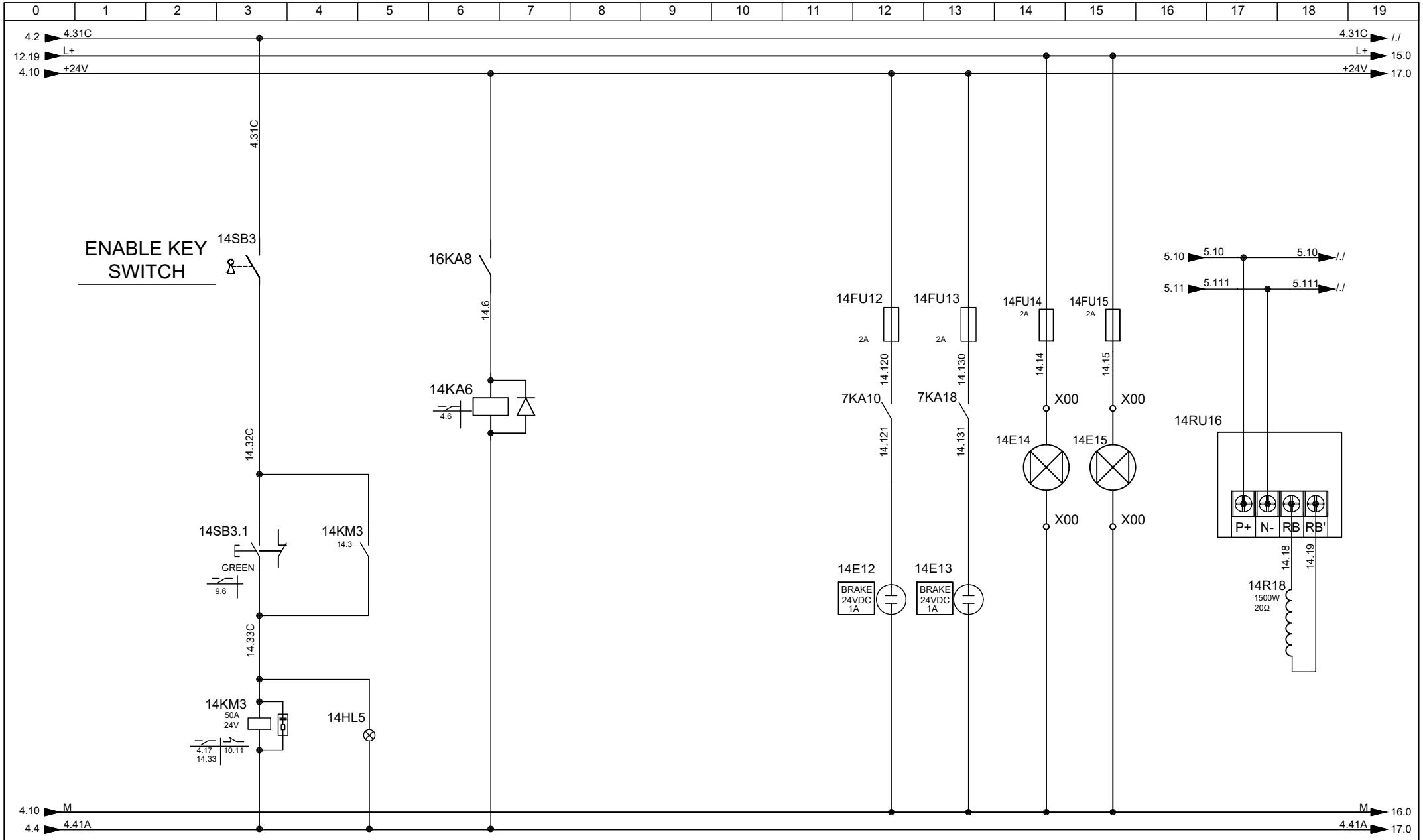
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note	Page 13	Next 14



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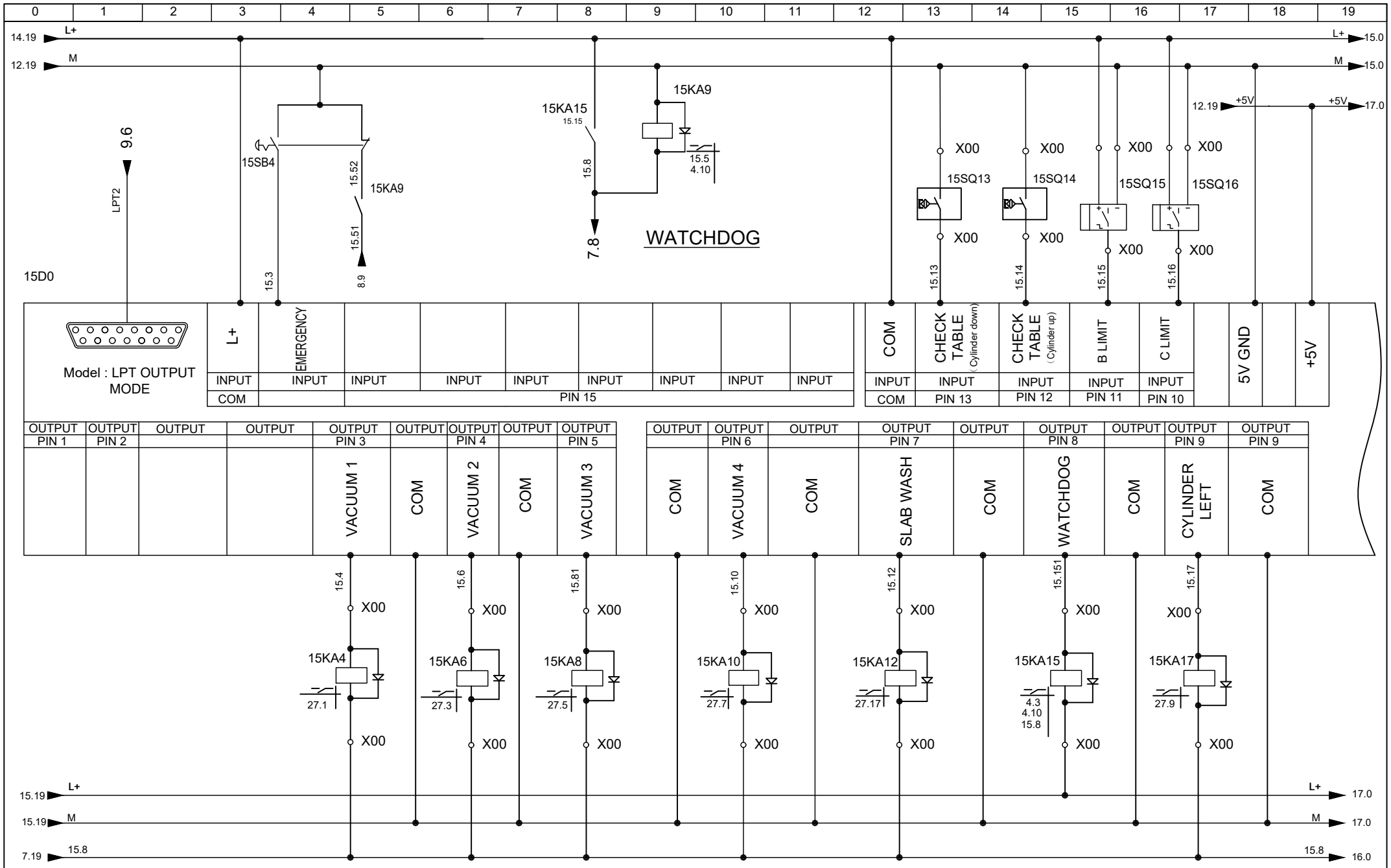

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	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note
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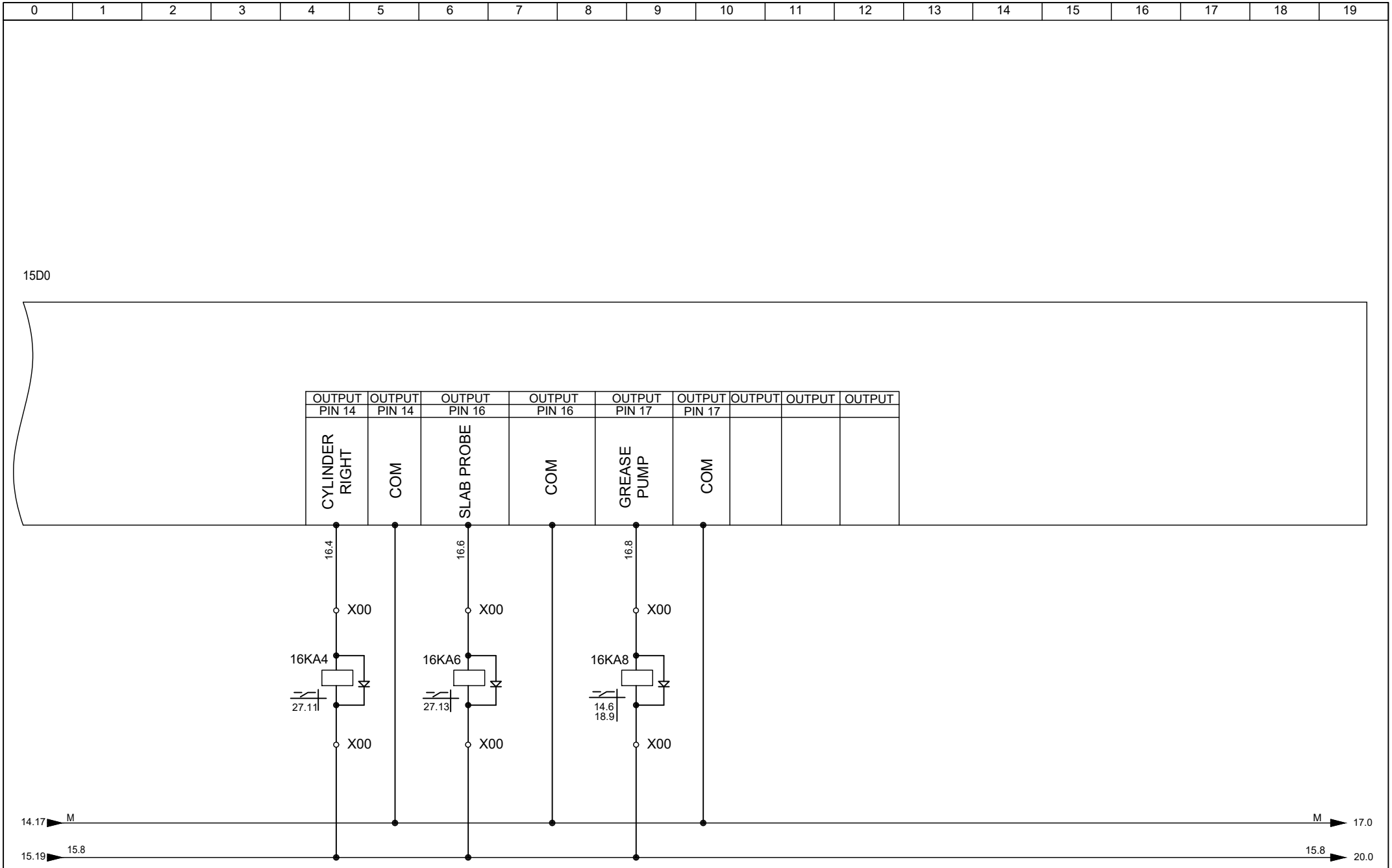

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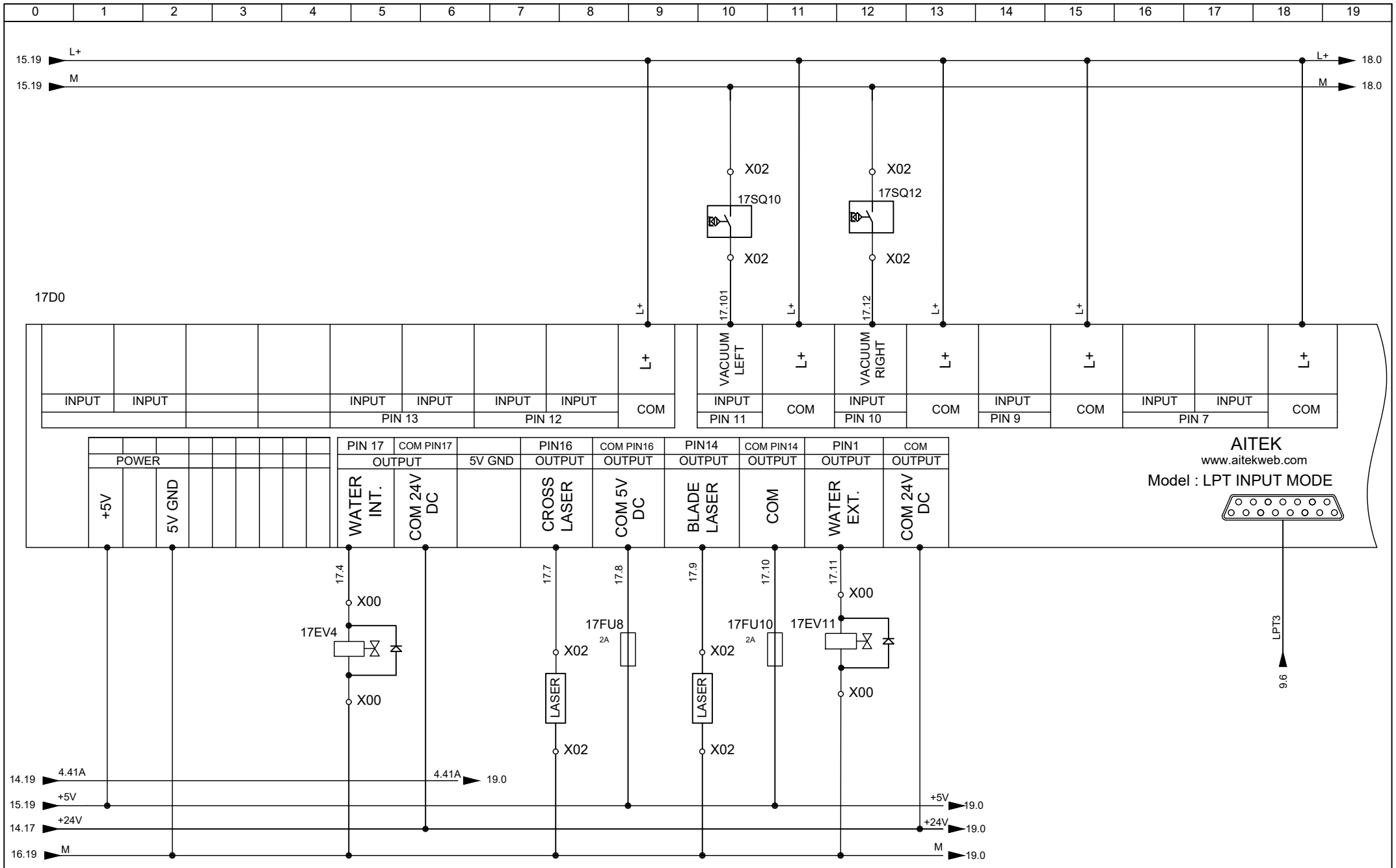
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note	Page 16 / Next 17



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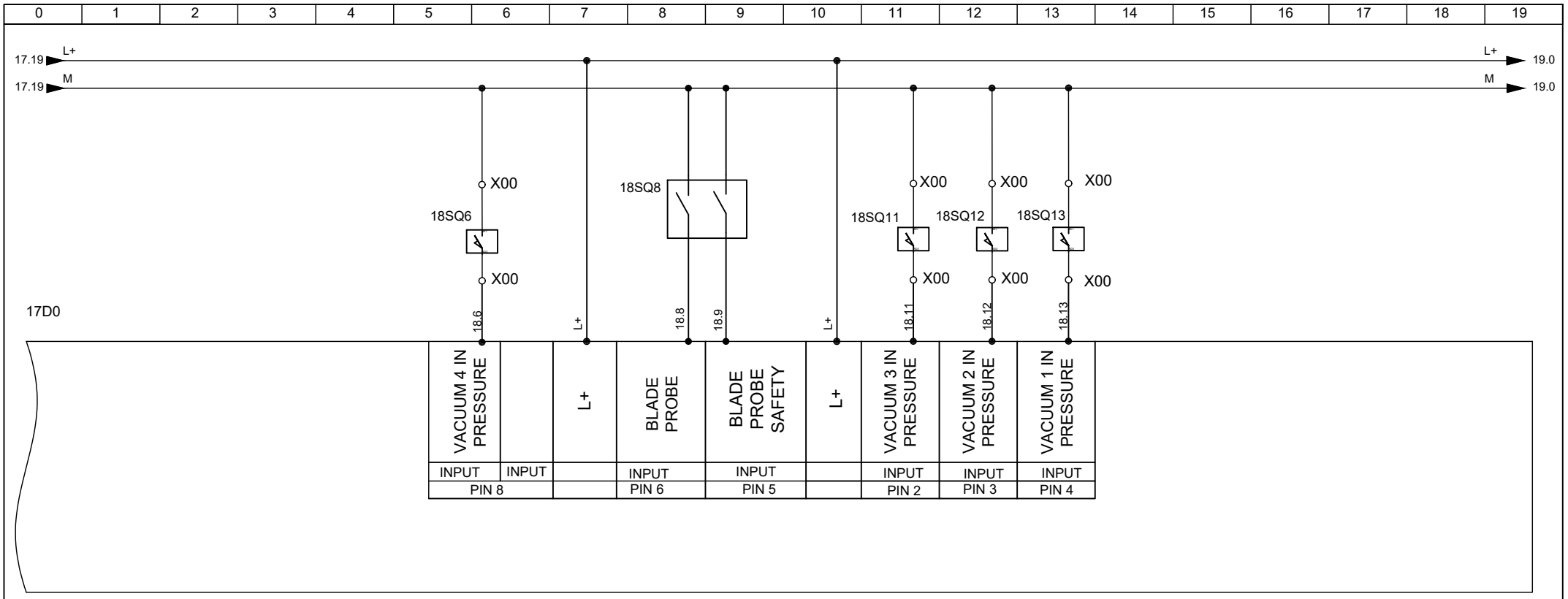

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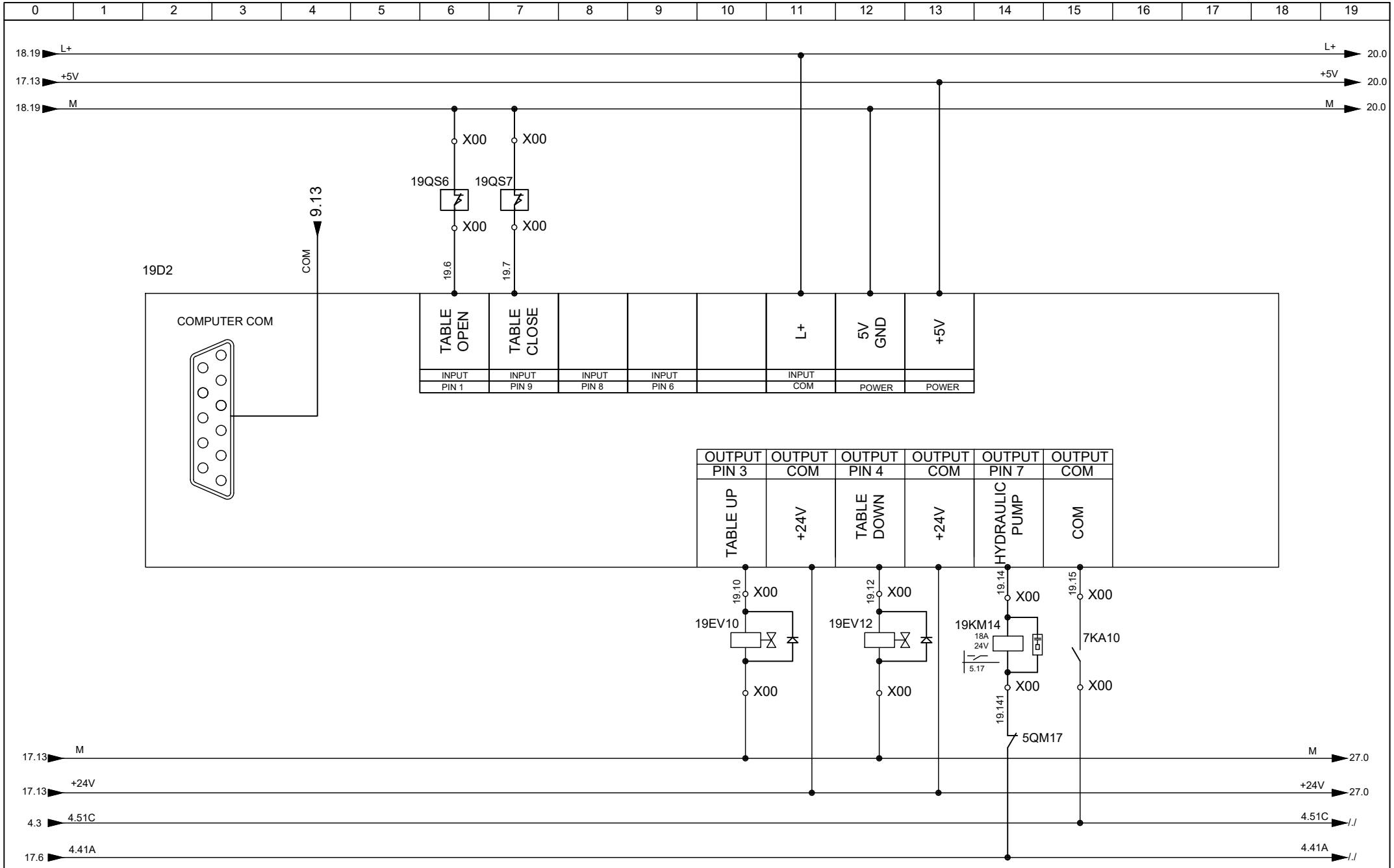

Aitalmac www.aitalmac.com	Designed By ZLJ	Checked By	Approved By	Trimness By	Description COM1 COMPUTER MODE
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note

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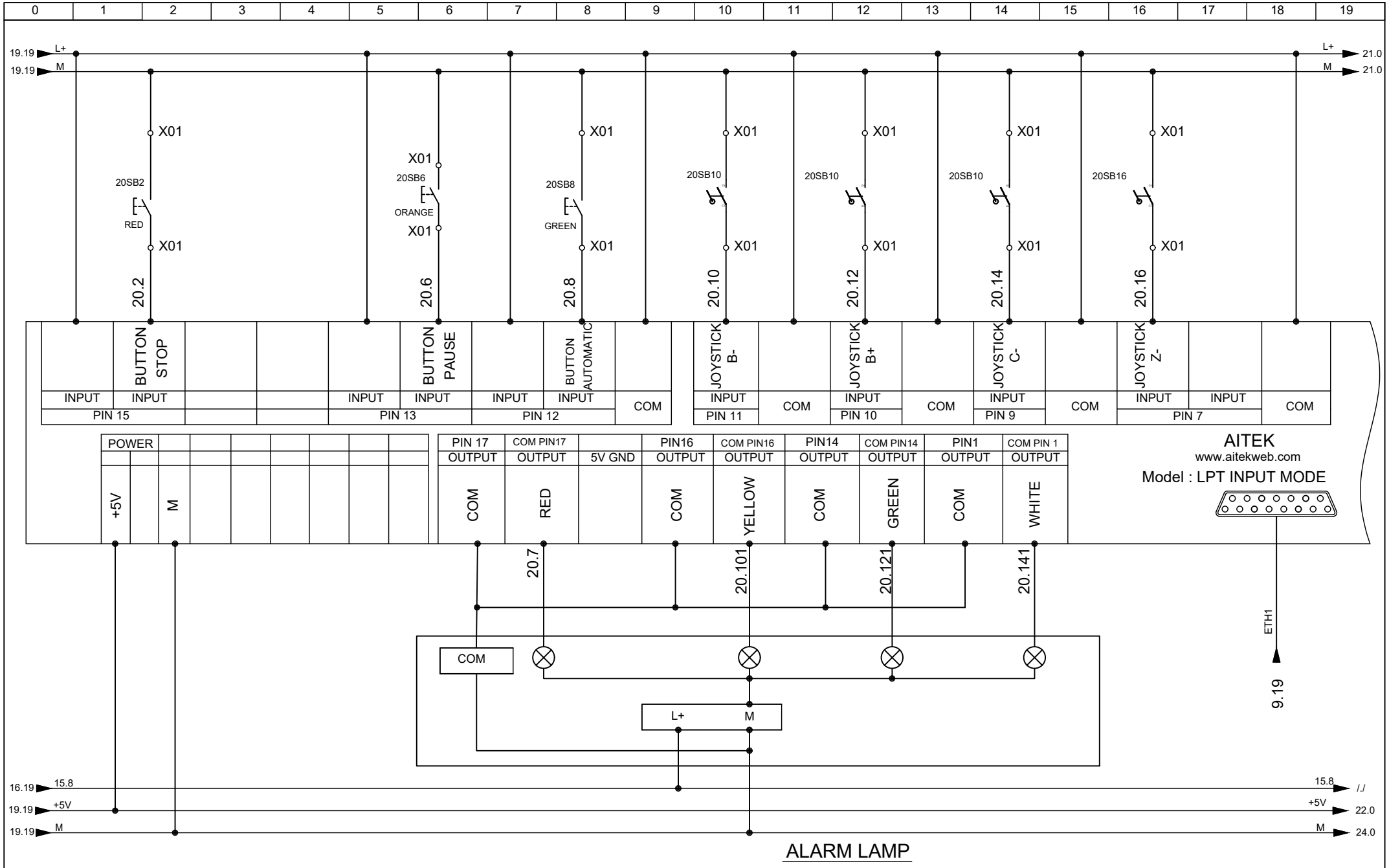

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	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note
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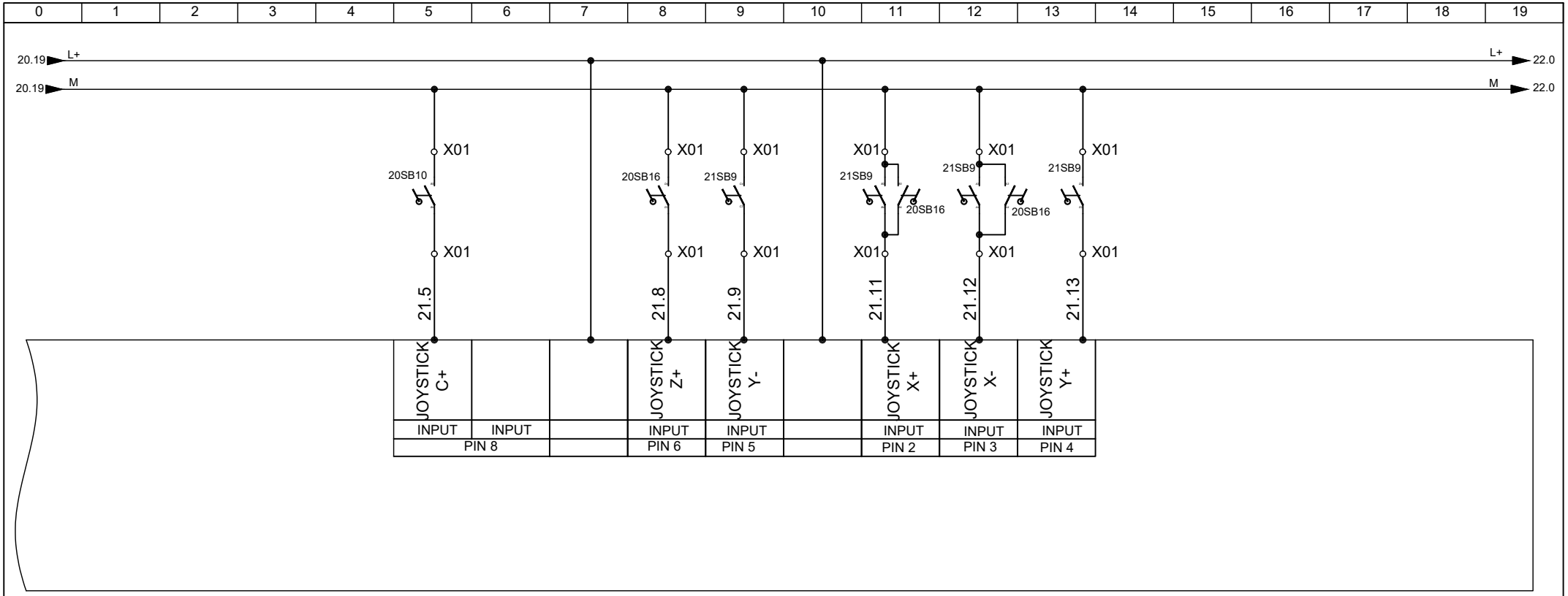

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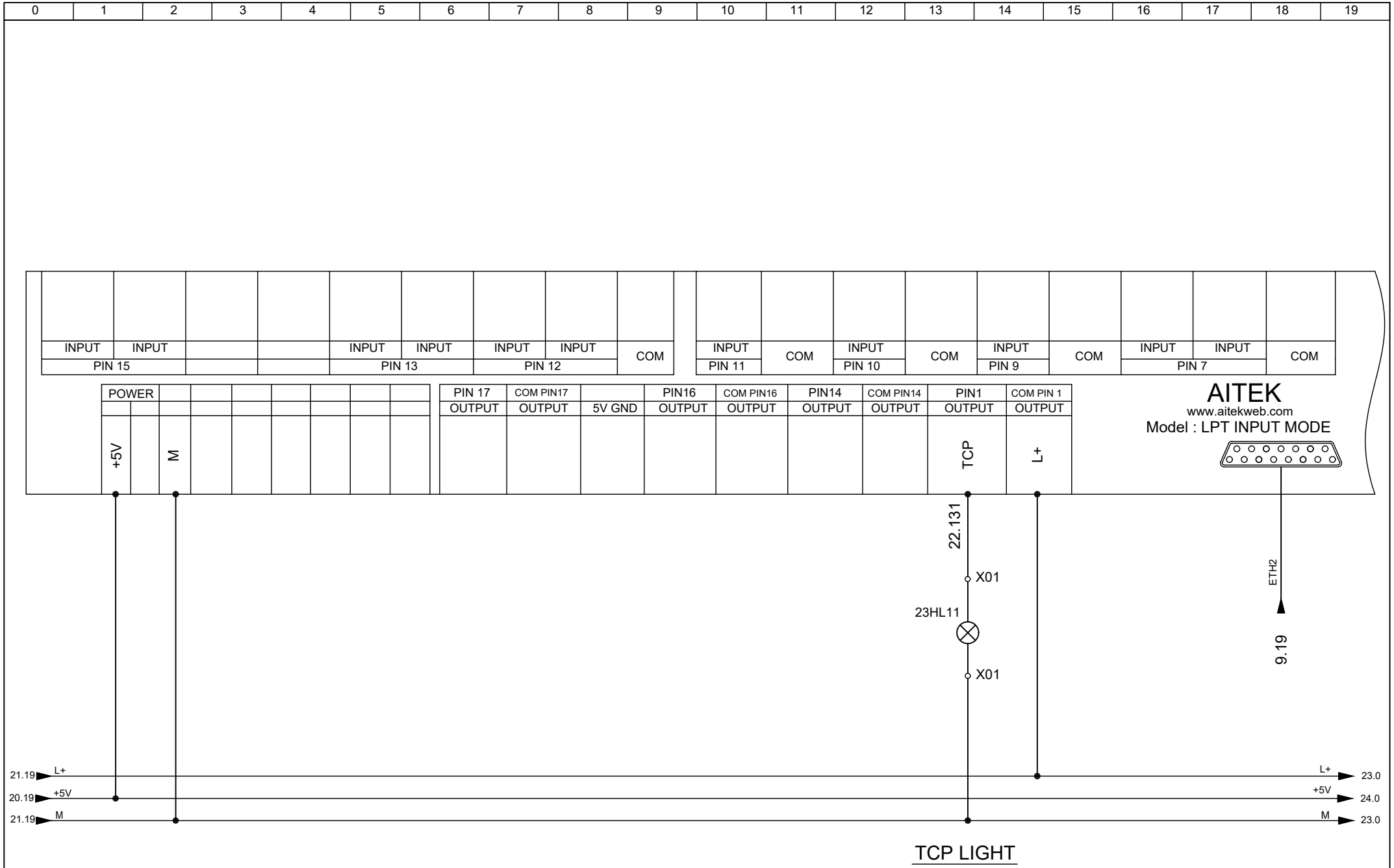
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note	Page 21	Next 22



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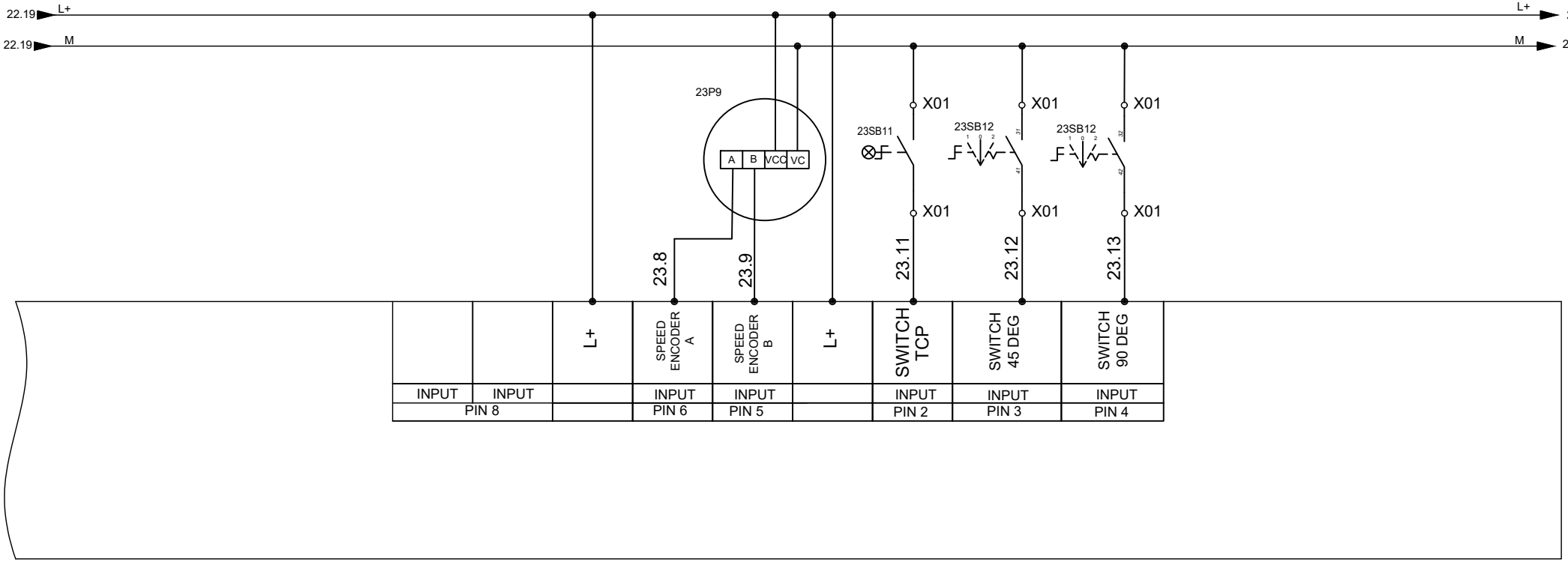
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note	Page 22 / Next 23



SPEED CONTROL WHEEL

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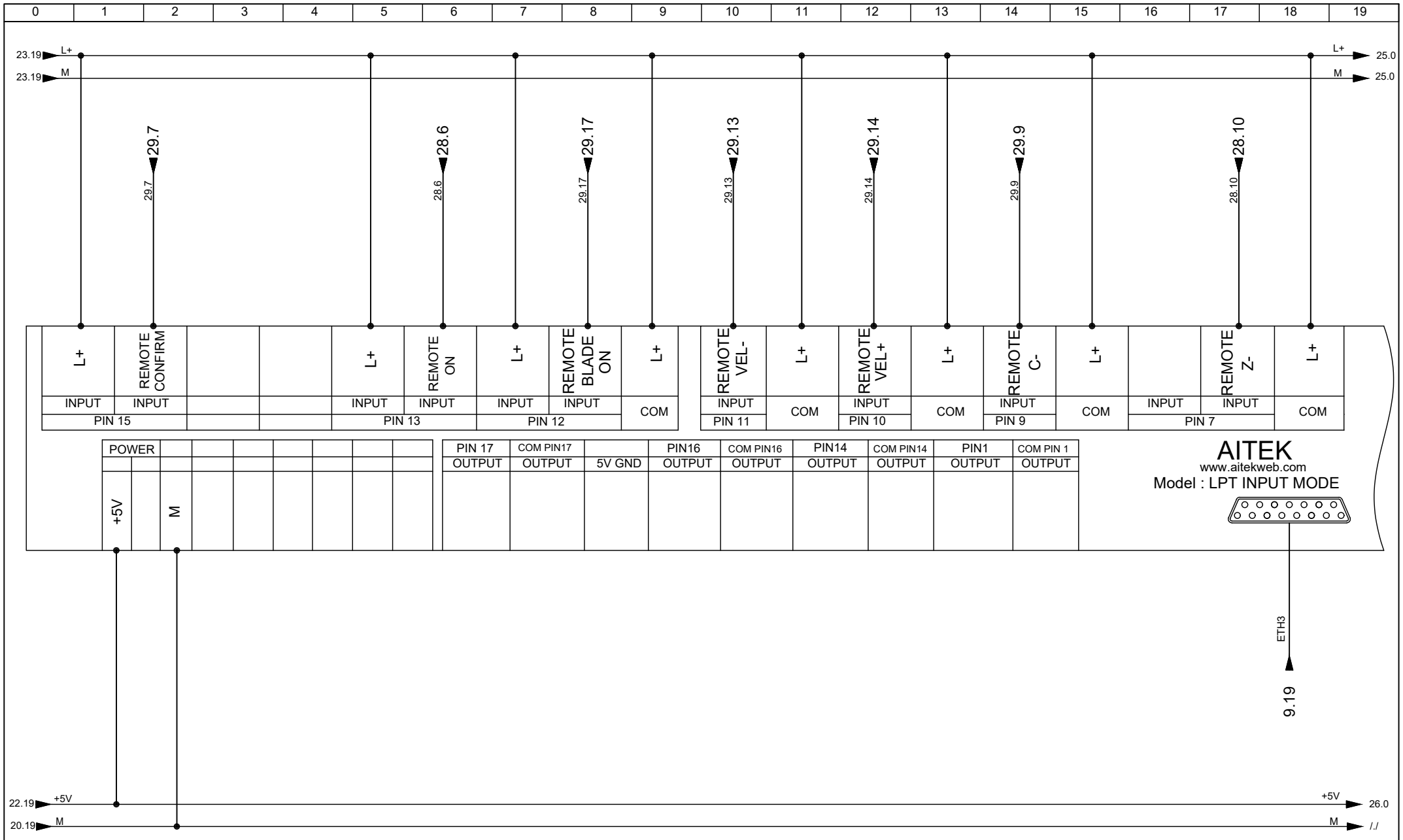
	Machine Orbit A5		Date 10.14.2019	Revision A5-190901	Note	Page 23	Next 24



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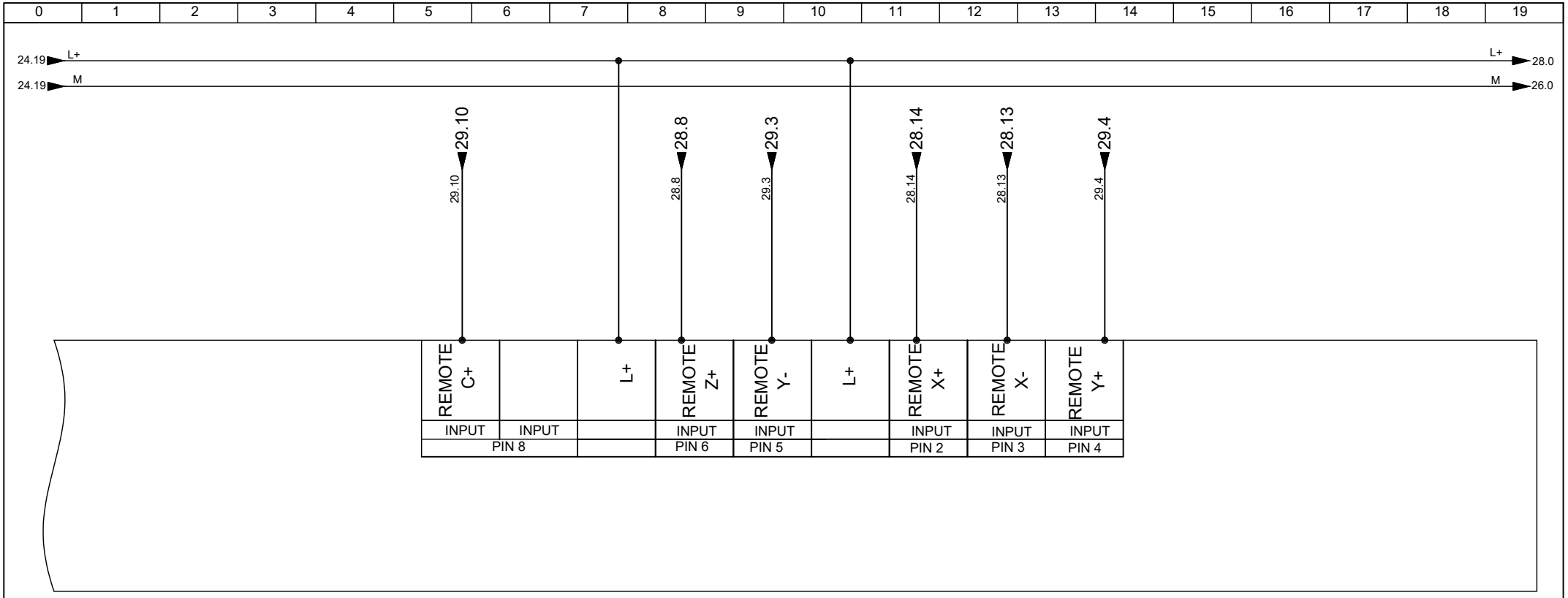

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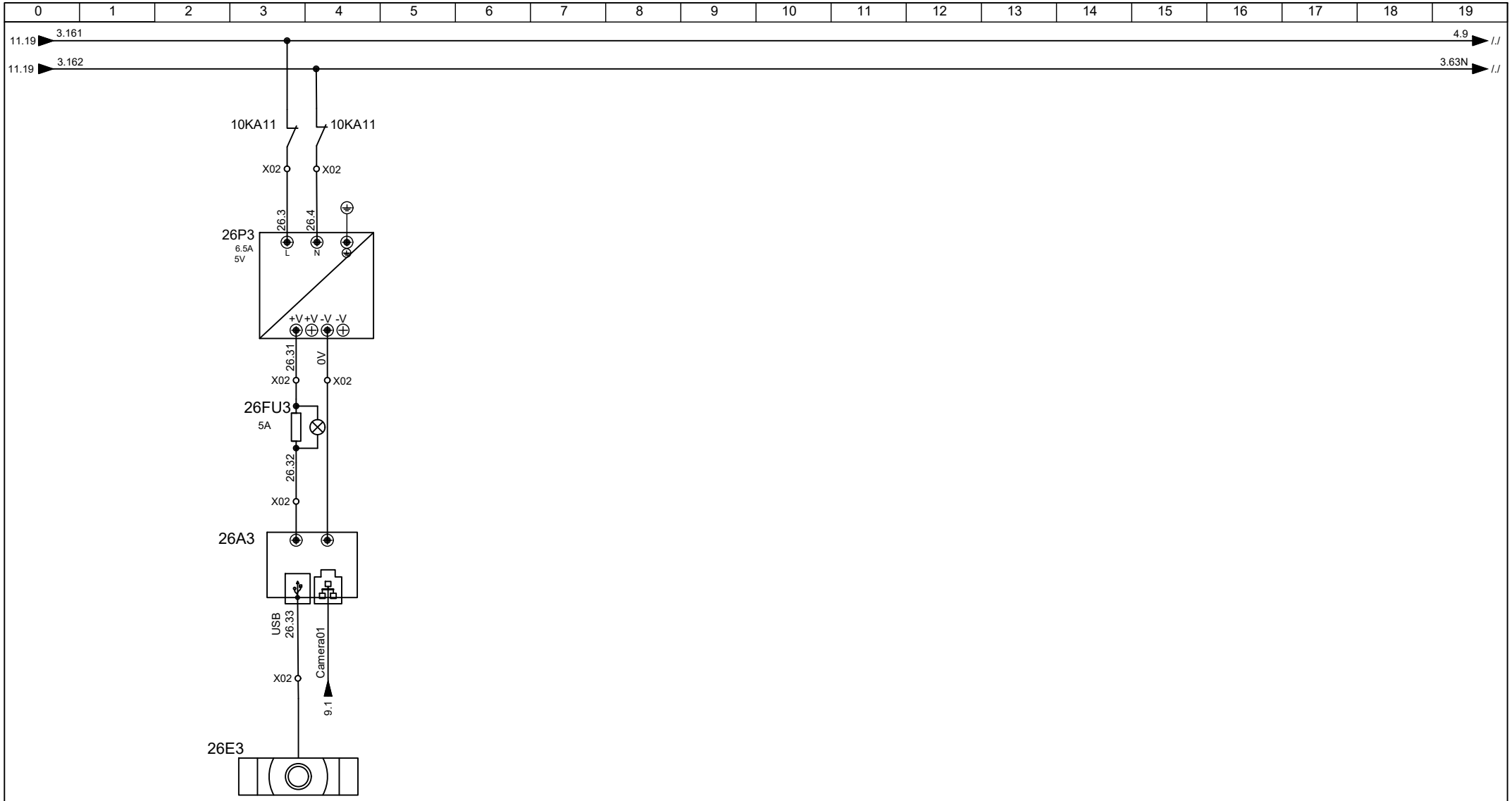

CAMERA

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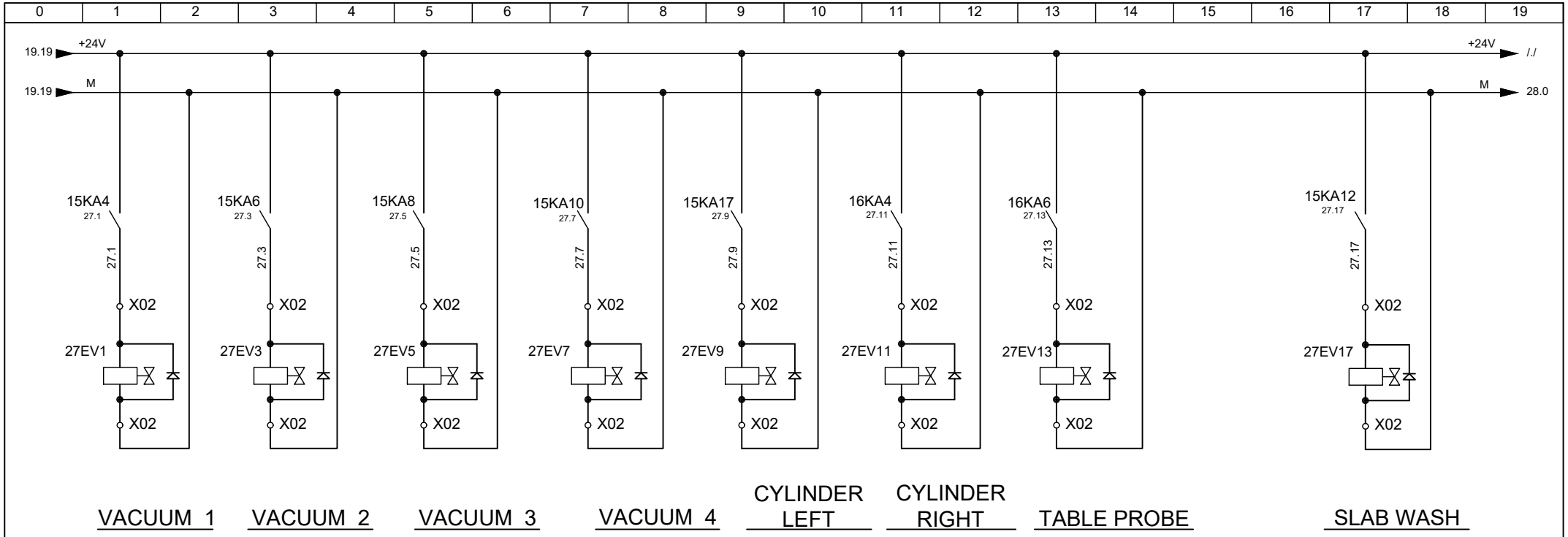

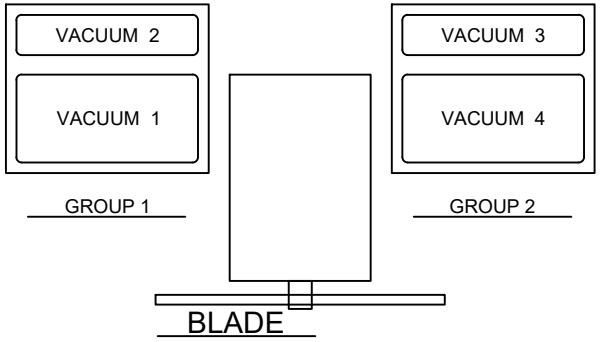

VACCUM DIAGRAM

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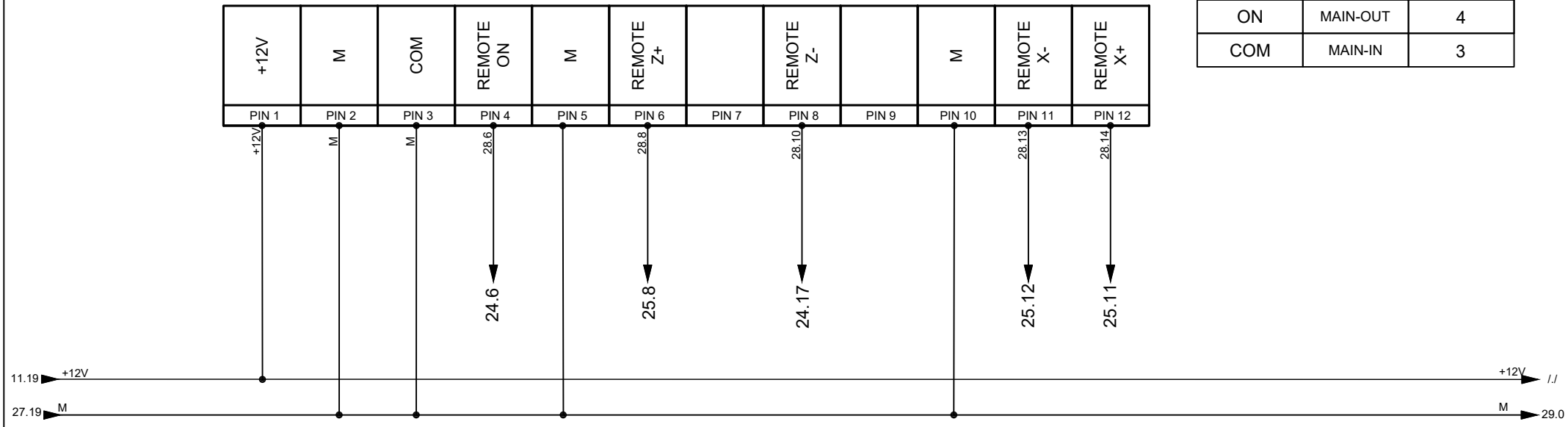
REMOTE	REMOTE CONTROL	PIN
Z+	UP	6
Z-	DOWN	8
X+	WEST	12
X-	EAST	11
Y-	SOUTH	15
Y+	NORTH	16
C-	R1	21
C+	R2	22
VELOCITY-	R3	25
VELOCITY+	R4	26
BLADE ON	F1	29
COMFIRM	R0	19
ON	MAIN-OUT	4
COM	MAIN-IN	3



Aitalmac www.aitalmac.com	Designed By ZLJ	Checked By	Approved By	Trimness By	Description REMOTE CONTROL BOX		
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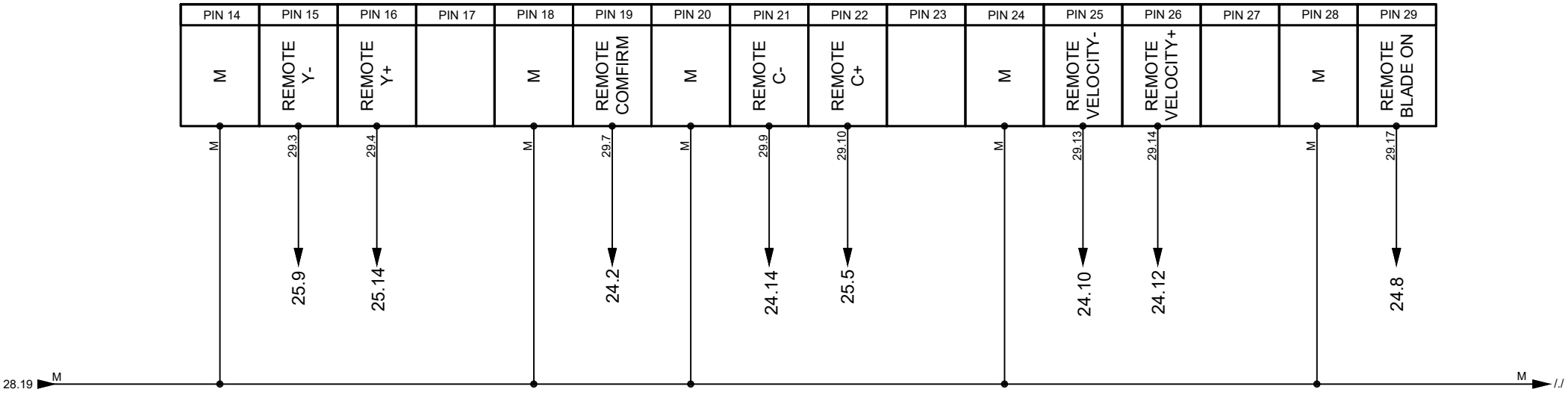

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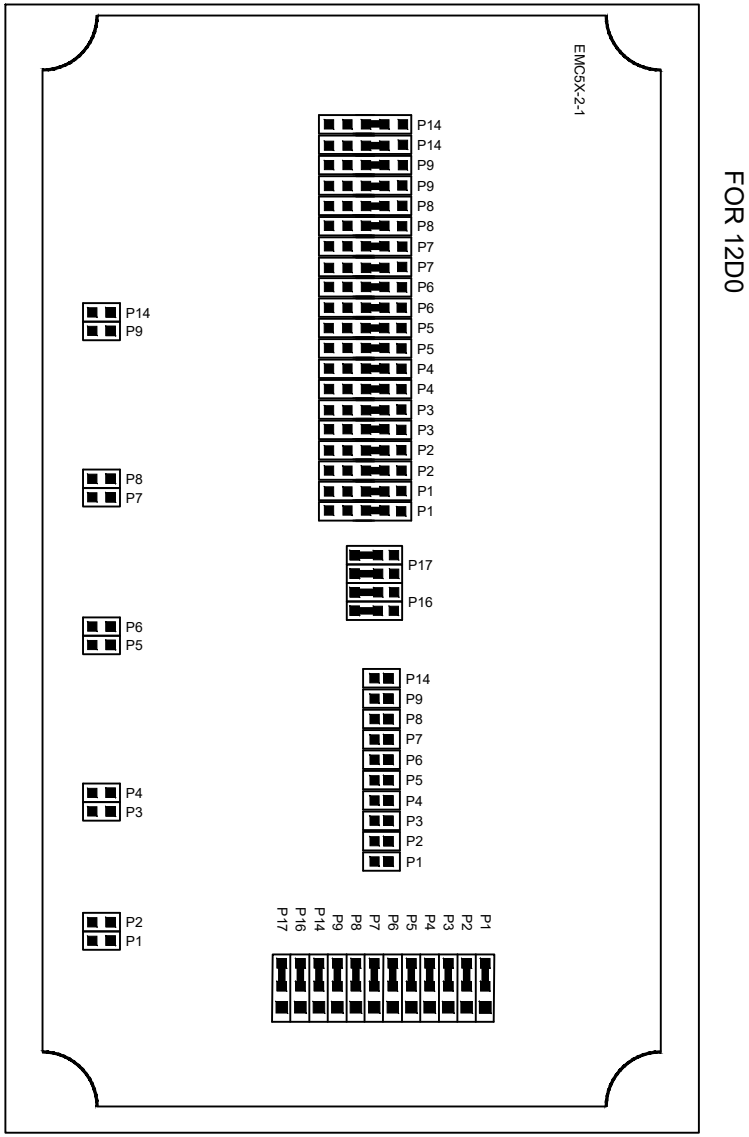
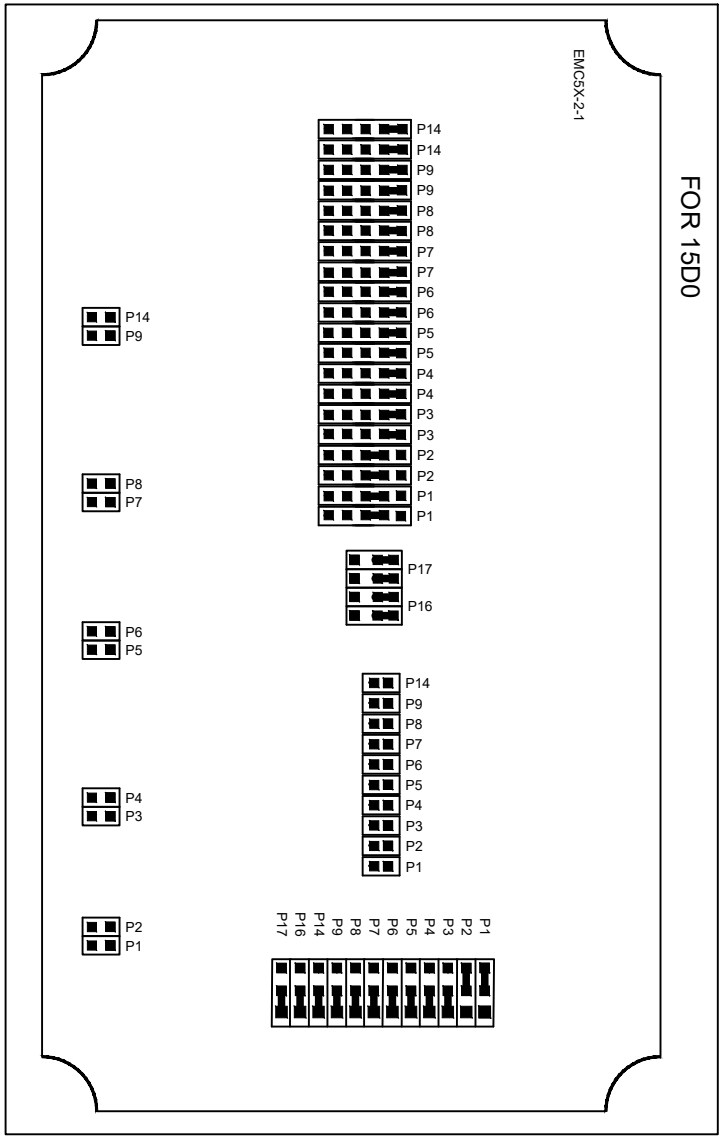
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19



OUTPUT CONTROL CARD JUMPERS SETTINGS



SECOND OUTPUT CONTROL CARD JUMPERS SETTINGS

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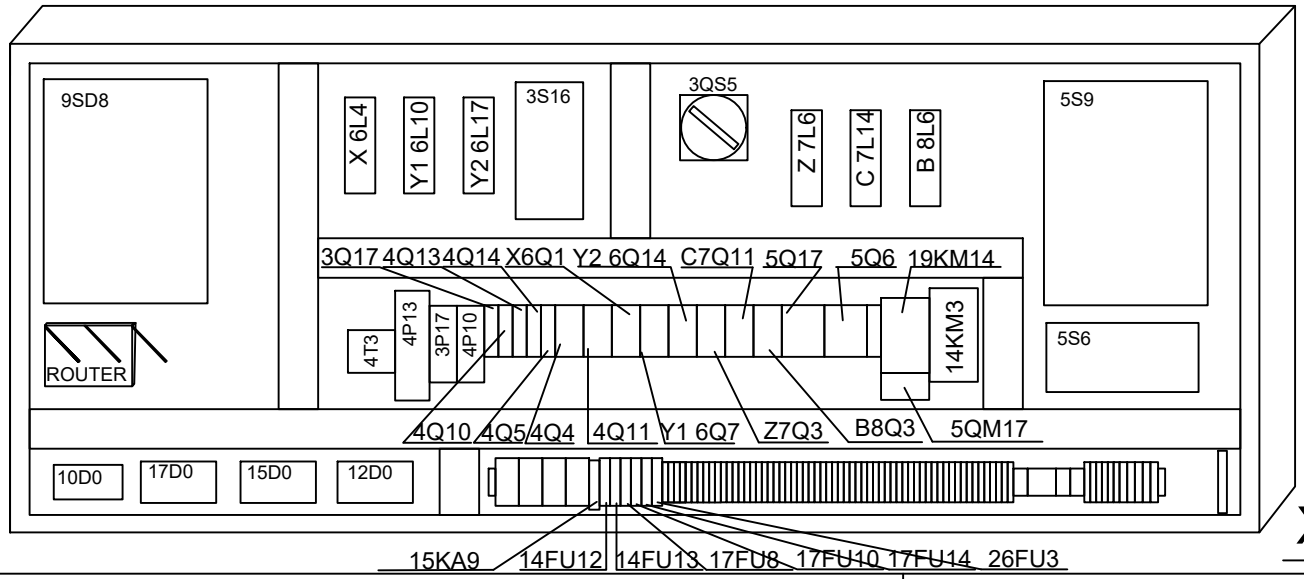
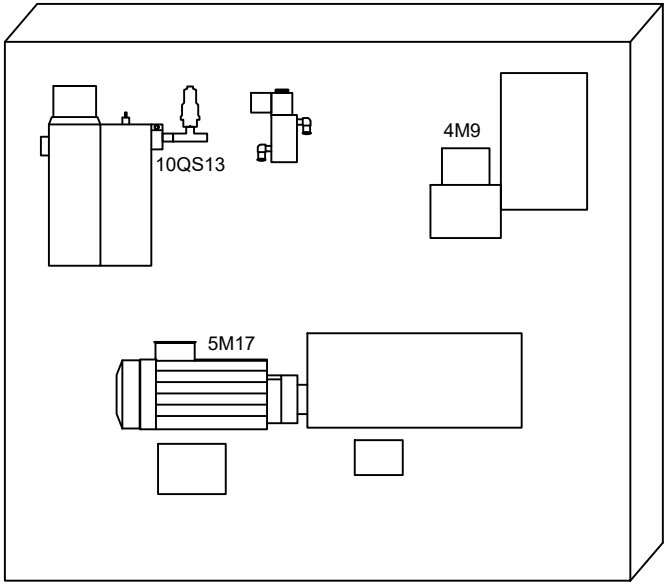
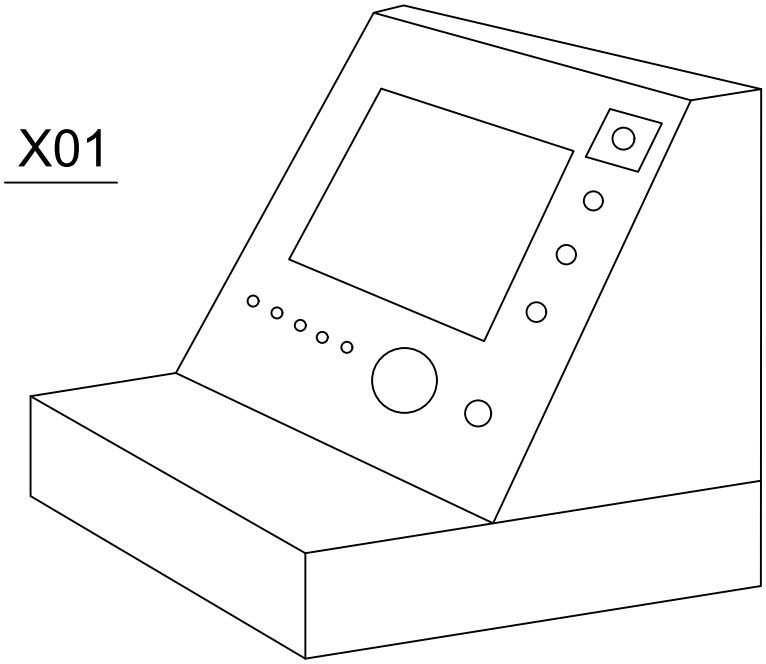


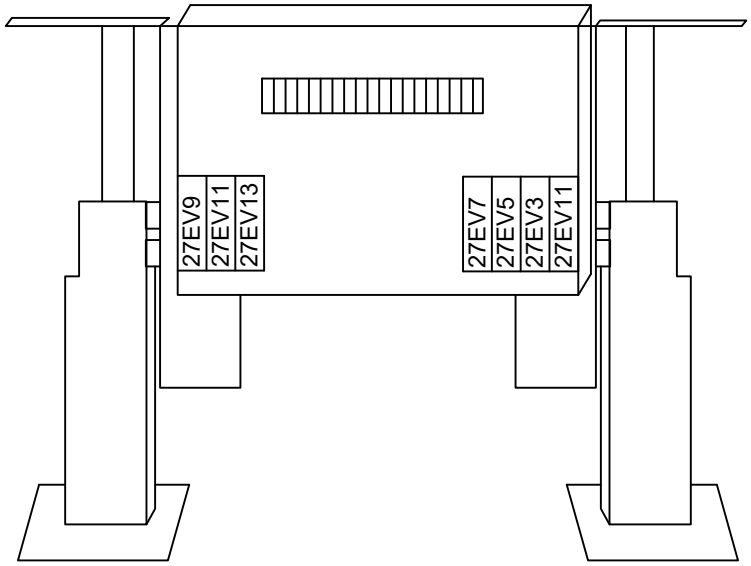


X00

X01



X02



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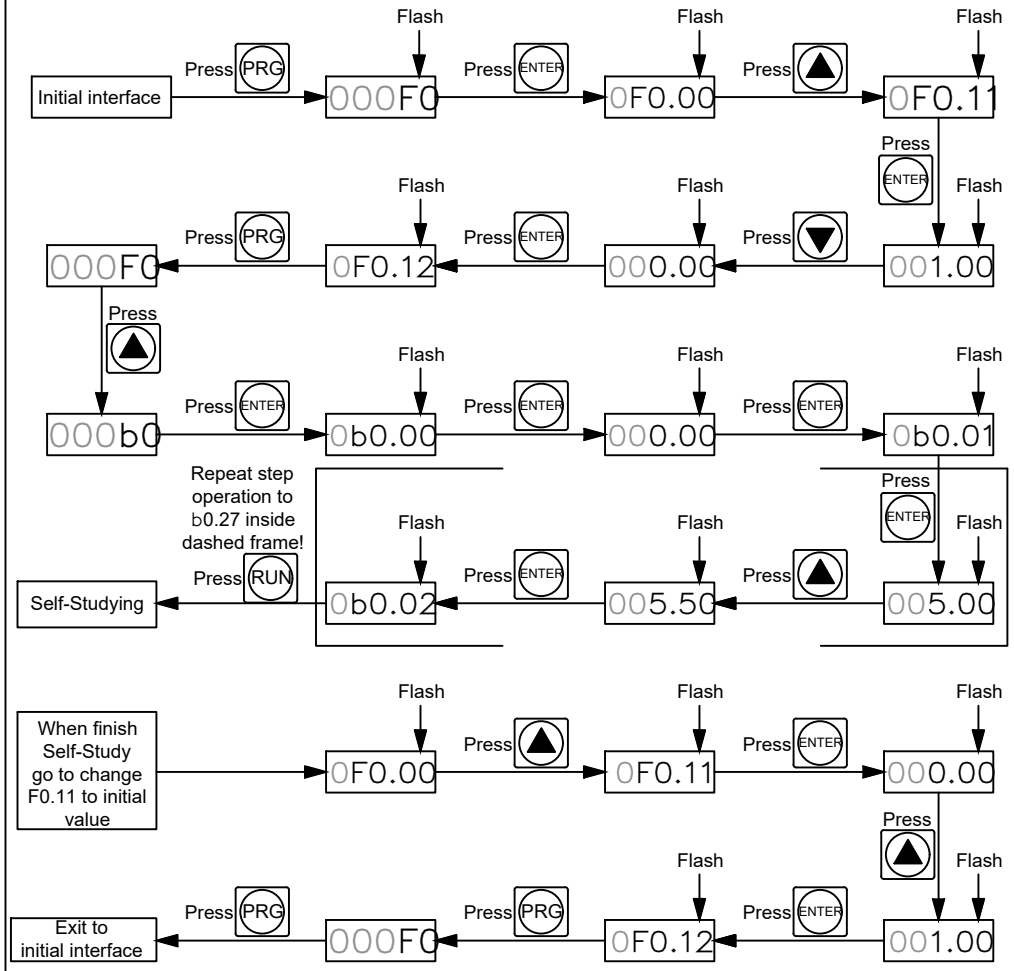
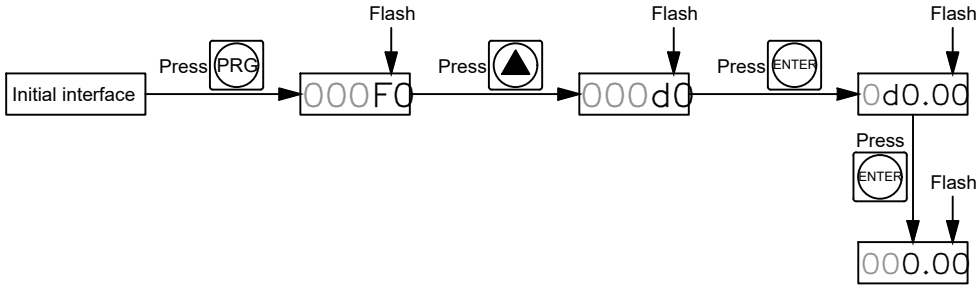
Motor Self-Study

F0.11=0 b0.03=18.2
b0.00=0 b0.04=60
b0.01=5.5 b0.05=1710
b0.02=220 b0.27=2



Monitoring Function

d0.00 Output Frequency
d0.01 Input Frequency
d0.14 Motor Speed
d0.18 High speed pulse input frequency



Inverter Parameter

Name	Range	Default	Units
F0.00	0,1,2	2	
F0.01	0.00Hz~F0.19(MAX)	1000	Hz
F0.02	1:0.1Hz,2:0.01Hz	1	
F0.03	0~9	9	
F0.04	0~9	0	
F0.11	0,1,2,3,4	1	
F0.13	0.0s~6500s	15	
F0.14	0.0s~6500s	35	
F0.18	0.5k~16k	10k	Hz
F0.19	50.00Hz~3200.00Hz	1000.00	Hz
F1.04	-	30	
F9.00		6006	19200BPS
F9.01	0~3	3	(8-N-1)
F9.02	1~250	6	
F9.05	0~3	1	MODBUS
F9.07		0	MODBUS

Servo Driver Parameter

Name	Range	X	Y1	Y2	Z	B	C
PA-003		13	13	13	13	13	13
PA-004		750	750	750	750	750	750
PA-006	0/1	1	1	1	1	0	0
PA-008		5000	5000	5000	5000	5000	5000
PA-009						16384	16384
PA-010						1250	1250
PA-222		1250	1250	1250	1250	1250	1250
PA-410	101-181	181	181	181	181	181	181
PA-529		53	53	53	53	53	53
PA-531	1-256	1	2	3	4	7	5

Pg.	Code	Name	Mfrs.	Model
3	3QS5	General Switch	GLELE	GLD11-63/08 +4P
3	3S16	Mains Filter	DUOJI	NF312C36/16
3				
4	4T3	Transformers	CHNT	NDK(BK)-150
4	4Q4	Circuit Breaker	Schneider	IC65N D10A 2P
4	4Q5	Circuit Breaker	Schneider	IC65N D4A 1P
4	4M9	Oil Pump Motor	ML	MYK-202-200-0 15W/220V 2L
4	4P8	Power Supply	MW	EDR-75-12 6.3A12VDC
4	4FU8	FUSE	Schneider	LRD16C 9-13A
4	4P10	Power Supply	MW	NDR-240-24 10A24VDC
4	4Q10	Circuit Breaker	Schneider	
4	4Q11	Circuit Breaker	Schneider	
4	4P13	Switching Power Supply	MW	EDR-75-12 6.3A12VDC
4	4Q13	Circuit Breaker	Schneider	
4				
5	5P3	Power Supply	MW	--
5	5Q3	Circuit Breaker	Schneider	C65N-DC 1P C4A
5	5LH3	LED Light	--	--
5	5Q6	Circuit Breaker	Schneider	IC65N D20A 3P
5	5S6	Filter	DUOJI	NF312C36/16
5	5S9	Frequency Converter	POWTRAN	PI9230 011G3 11KW
5	5M11	Spindle Motor	--	--
5	5Q17	Circuit Breaker	Schneider	IC65N D10A 3P
5	5QM17	Thermal Relay	Schneider	LRD16C 9-13A
5	5M17	Hydraulic Pump Motor	WANERF	4WE6J-6X/ED24 220V1.5KW
5				
6	6Q1	Circuit Breaker	Schneider	IC65N D20A 2P
6	6S1	Filter	Canny Well	CW1B-6A-L
6	6M2	X Motor	Leadshine	ACM13009H2F-40-L 850W 3000r/min
6	6L4	X Servo Drive	Leadshine	L5-850Z
6	6Q7	Circuit Breaker	Schneider	IC65N D20A 2P
6	6S7	Filter	Canny Well	CW1B-6A-L
6	6M8	Y1 Motor	Leadshine	ACM13009H2F-40-L 850W 3000r/min
6	6L10	Y1 Servo Drive	Leadshine	L5-850Z
6	6Q14	Circuit Breaker	Schneider	IC65N D20A 2P
6	6S14	Filter	Canny Well	CW1B-6A-L
6	6M15	Y2 Motor	Leadshine	ACM13009H2F-40-L 850W 3000r/min
6	6L17	Y2 Servo Drive	Leadshine	L5-850Z
6				
7	7Q3	Circuit Breaker	Schneider	IC65N D20A 2P
7	7S3	Filter	Canny Well	CW1B-6A-L
7	7M4	Z Motor	Leadshine	ACM13009H2E-40-L 850W Brake
7	7L6	Z Servo Drive	Leadshine	L5-850Z
7	7KA10	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
7	7Q11	Circuit Breaker	Schneider	IC65N D20A 2P
7	7S11	Filter	Canny Well	CW1B-6A-L
7	7M12	C Motor	Leadshine	ACM8008M2E-B1-L-SS 750W Brake
7	7L14	C Servo Drive	Leadshine	L5-750Z
7	7KA18	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
7				

Pg.	Code	Name	Mfrs.	Model
8	8Q3	Circuit Breaker	Schneider	IC65N D20A 2P
8	8S3	Filter	Canny Well	CW1B-6A-L
8	8M4	B Motor	Leadshine	ACM8008M2F-B1-L-SS 750W
8	8L6	B Servo Drive	Leadshine	L5-750Z
8				
9	9E2	Wireless Router	ASUS	RT-AC53
9	9S8	Filter	Canny Well	CW1B-6A-L
9	9SD8	CNC Controler	AITEK	9 AXIS CNC-A5
9	9D15	ETH Card	--	7i80b
9				
10	10D0	Control Device	JUYING	DAM0816D RS232 485
10	10SQ13	Air Pressure Switch	SQW	QPM11-NC
10	10SQ14	Water Pressure Switch	SN	DN8 1.1-1.8kgf/m² (ON-OFF)
10				
11	11E1	Computer Power On/Off	Aitalmac	--
11	11E6	USB-WiFi	COMFAST	CF-7201ND
11	11S8	Filter	Canny Well	CW1B-6A-L
11	11SD8	Windows PC	AITEK	WIN-A5
11	11E13	USB-Mouse	Lenovo	M300
11	11E14	USB-Keyboard	Logitech	K310
11	11E15	USB-HUB	ORICO	A3H7-bk
11	11E16	PC Monitor	Anmite	AN-195W01D
11				
12	12D0	LPT1 Output Card	AITEK	6AXIS-Mod-V5-OUTPUT mode
12	12SQ13	Z Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
12	12SQ14	Y2 Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
12	12SQ15	Y1 Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
12	12SQ16	X Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
12				
14	14SB3	Enable Key Switch	RENY	RBSNK-2
14	14SB3.1	Power On Button	RENY	R2PIF-1D-2GL
14	14KM3	Contactor	Schneider	LC1D50AB7C-LADN11
14	14KA6	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
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	FAN	PAPST	TYP4114N/12MR 24V 6W 12CM
14	14FU15	Fuse	CHE	FS-101 DC24V 2A
14	14E15	FAN	PAPST	TYP4114N/12MR 24V 6W 12CM
14				

Pg.	Code	Name	Mfrs.	Model
15	15D0	LPT2 Output Card	AITEK	6AXIS-Mod-V5-OUTPUT mode
15	15KA4	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
15	15KA6	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
15	15KA8	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
15	15KA9	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
15	15KA10	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
15	15KA12	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
15	15SQ13	Vacuum Up Sensor	CHVIRD	CS1-U
15	15SQ14	Vacuum Down Sensor	CHVIRD	CS1-U
15	15SQ15	B Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
15	15KA15	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
15	15SQ16	C Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
15	15KA17	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
15				
16	16KA4	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
16	16KA6	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
16	16KA8	Terminal Relay Unit	Panasonic	PA1A-24V + AY33002 RT3S-24V
16				
17	17D0	LPT3 Input Card	AITEK	6AXIS-Mod-V5-INPUT mode
17	17EV4	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
17	17A7	Laser	--	16mm cross
17	17FU8	Fuse	CHE	FS-101 DC24V
17	17A9	Blade Laser	--	16mm
17	17FU10	Fuse	CHE	FS-101 DC24V
17	17SQ10	Left Vacuum Sensor	CHVIRD	CS1-U
17	17EV11	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
17	17SQ12	Right Vacuum Sensor	CHVIRD	CS1-U
17				
18	18SQ6	Vacuum4 Generator	SNS	SCV-10CK 0.1-0.6MPa
18	18SQ8	Blade Probe	--	--
18	18SQ11	Vacuum3 Generator	SNS	SCV-10CK 0.1-0.6MPa
18	18SQ12	Vacuum2 Generator	SNS	SCV-10CK 0.1-0.6MPa
18	18SQ13	Vacuum1 Generator	SNS	SCV-10CK 0.1-0.6MPa
18				
18				
19	19D2	COM1 COMPUTER MODE	AITEK	RS232-Mod-V1 4IN/3OUT
19	19QS6	Table Limit Sensor	Moujen	ME-9101
19	19QS7	Table Limit Sensor	Moujen	ME-9101
19	19EV10	Hydraulic Control Valve	WANERF	4WE6J-6X/ED24
19	19EV12	Hydraulic Control Valve	WANERF	4WE6J-6X/ED24
19	19KM14	Hydraulic Pump Contactor	Schneider	LC1-D18B7C 18A
19				
20	20D0	ETH1 Input Mode	AITEK	6AXIS-Mod-V5-INPUT mode
20	20SB2	Control Box-Stop Button	RENY	RAPNF-1A-R
20	20SB6	Control Box-Pause Button	RENY	RAPNF-1A-Y
20	20HL6	Alarm Indicator lamp	TAYB	TB50-4T-D 24V
20	20SB8	Control Box-Automatic Button	RENY	RAPNF-1A-G
20	20SB10	B/C Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm
20	20SB16	X/Z Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm
20				

Pg.	Code	Name	Mfrs.	Model
20	20D0	ETH1 Input Mode	AITEK	6AXIS-Mod-V5-INPUT mode
20	20SB2	Control Box-Stop Button	RENY	RAPNF-1A-R
20	20SB6	Control Box-Pause Button	RENY	RAPNF-1A-Y
20	20HL6	Alarm Indicator lamp	TAYB	TB50-4T-D 24V
20	20SB8	Control Box-Automatic Button	RENY	RAPNF-1A-G
20	20SB10	B/C Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm
20	20SB16	X/Z Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm
20				
21	21SB9	X/Y Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm
21	21SB10	X/Y Axis-Joystick Controller	Schneider	XD2-PA24CR φ22mm
21				
22	22D0	ETH2 Input Mode	AITEK	6AXIS-Mod-V5-INPUT mode
22	23HL11	TCP Knob Light	RENY	R2PIF-1D-2GL
22				
23	23P9	Speed Control Wheel	AITEK	24VPLC
23	23SB11	TCP On/Off Switch	RENY	R2SNS-2FE-1D-G
23	23SB12	B Axis Angle Knob	RENY	R2SNS-3TB-2A-B
23				
24	24D0	ETH3 Input Mode	AITEK	6AXIS-Mod-V5-INPUT mode
24	24SB2	Remote Confirm Button	Yuding	F24-12S TX 24V
24	24SB6	Remote On Button	Yuding	F24-12S TX 24V
24	24SB8	Remote Blade On Button	Yuding	F24-12S TX 24V
24	24SB10	Remote Velocity- Button	Yuding	F24-12S TX 24V
24	24SB12	Remote Velocity+ Button	Yuding	F24-12S TX 24V
24	24SB14	Remote C- Button	Yuding	F24-12S TX 24V
24	24SB17	Remote Z- Button	Yuding	F24-12S TX 24V
24				
25	25SB5	Remote C+ Button	Yuding	F24-12S TX 24V
25	25SB8	Remote Z+ Button	Yuding	F24-12S TX 24V
25	25SB9	Remote Y- Button	Yuding	F24-12S TX 24V
25	25SB11	Remote X+ Button	Yuding	F24-12S TX 24V
25	25SB12	Remote X- Button	Yuding	F24-12S TX 24V
25	25SB13	Remote Y+ Button	Yuding	F24-12S TX 24V
25				
26	26FU3	Fuse	CHE	FS-101 DC24V
26	26E3	CAMERA	LOGITECH	C930E
26				
27	27EV1	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
27	27EV3	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
27	27EV5	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
27	27EV7	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
27	27EV9	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
27	27EV11	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
27	27EV13	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
27	27EV17	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
27				
33	33S2	Remote Control RX	Yuding	F24-12S RX 24V
33				
33				