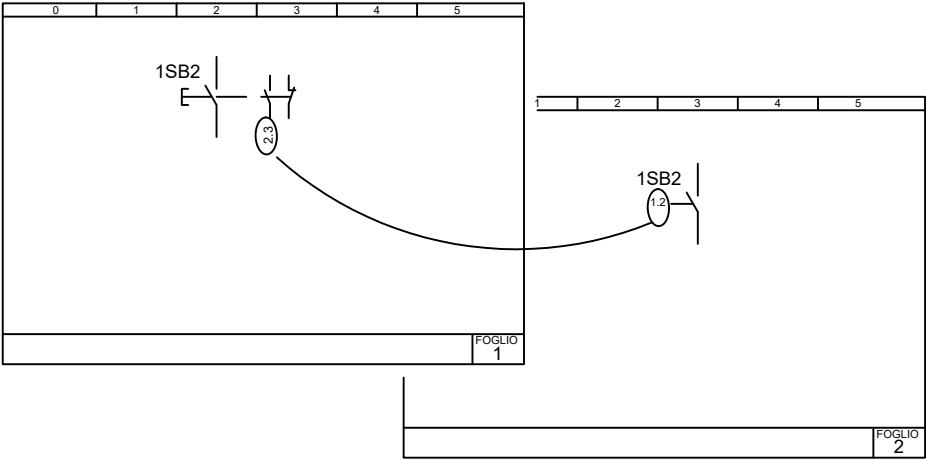
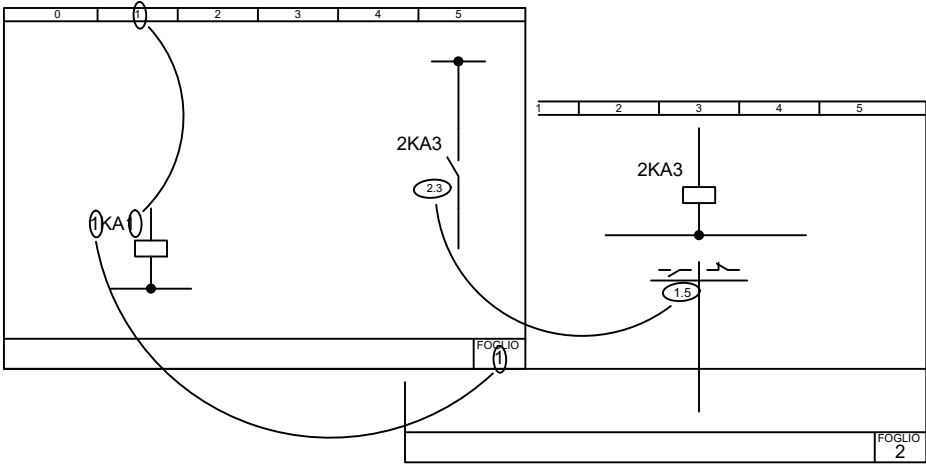


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
AITALMAC Heng Sheng Road , Gao Chun Economic Development Zone , NANJING,211300 P.R.CHINA										LOCATION SYMBOLS ☐ Components on the door ☐ Components inside the cubicle (usually omitted) ☐ Machine components (usually omitted)									

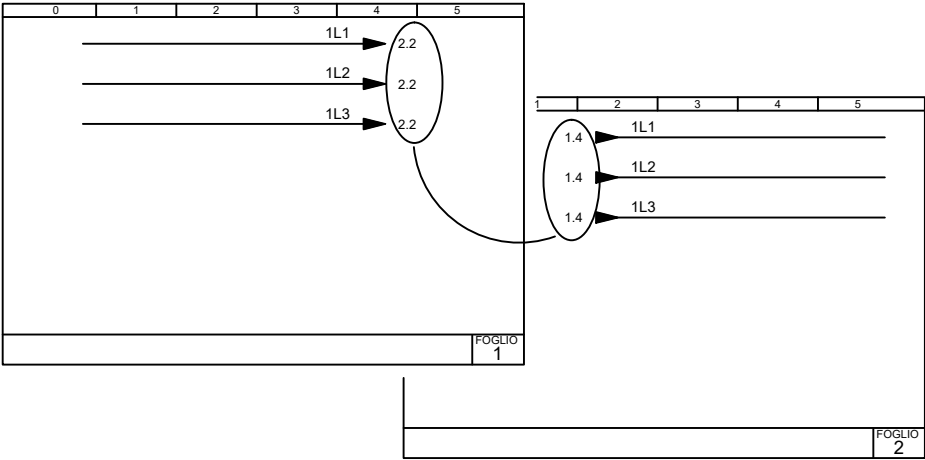
COMPONENT REFERENCE



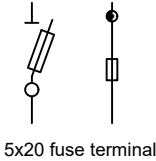
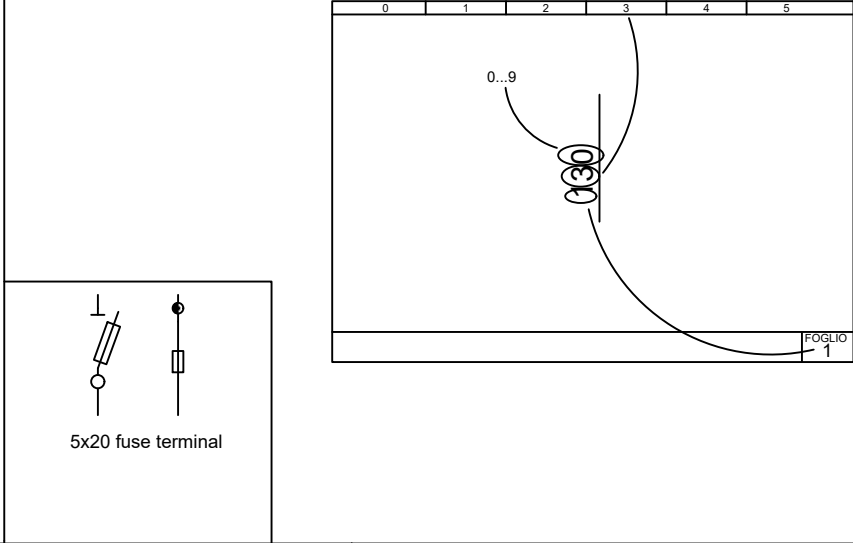
COMPONENT NAME/COIL-CONTACT POSITION



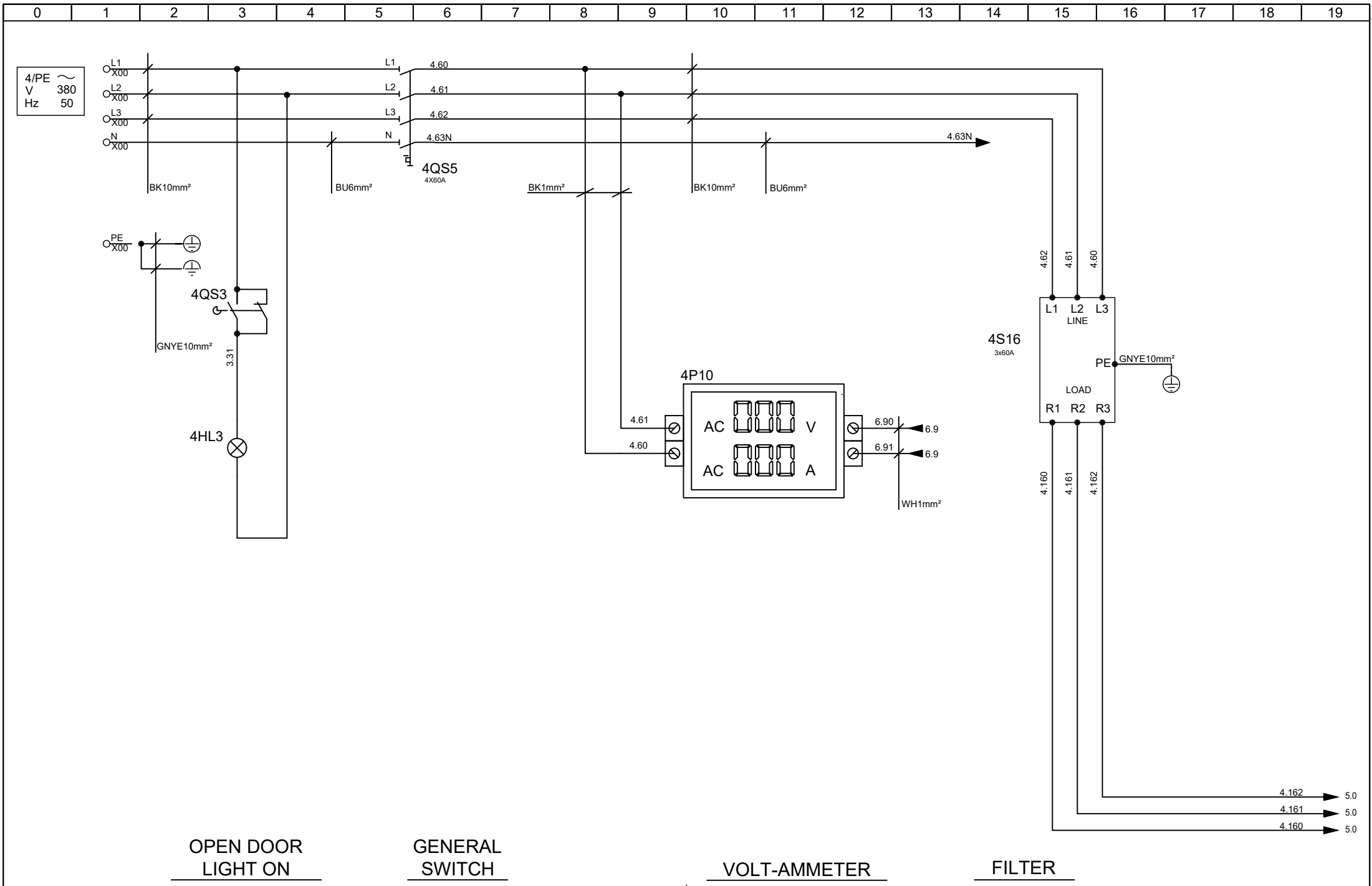
SIGNALS

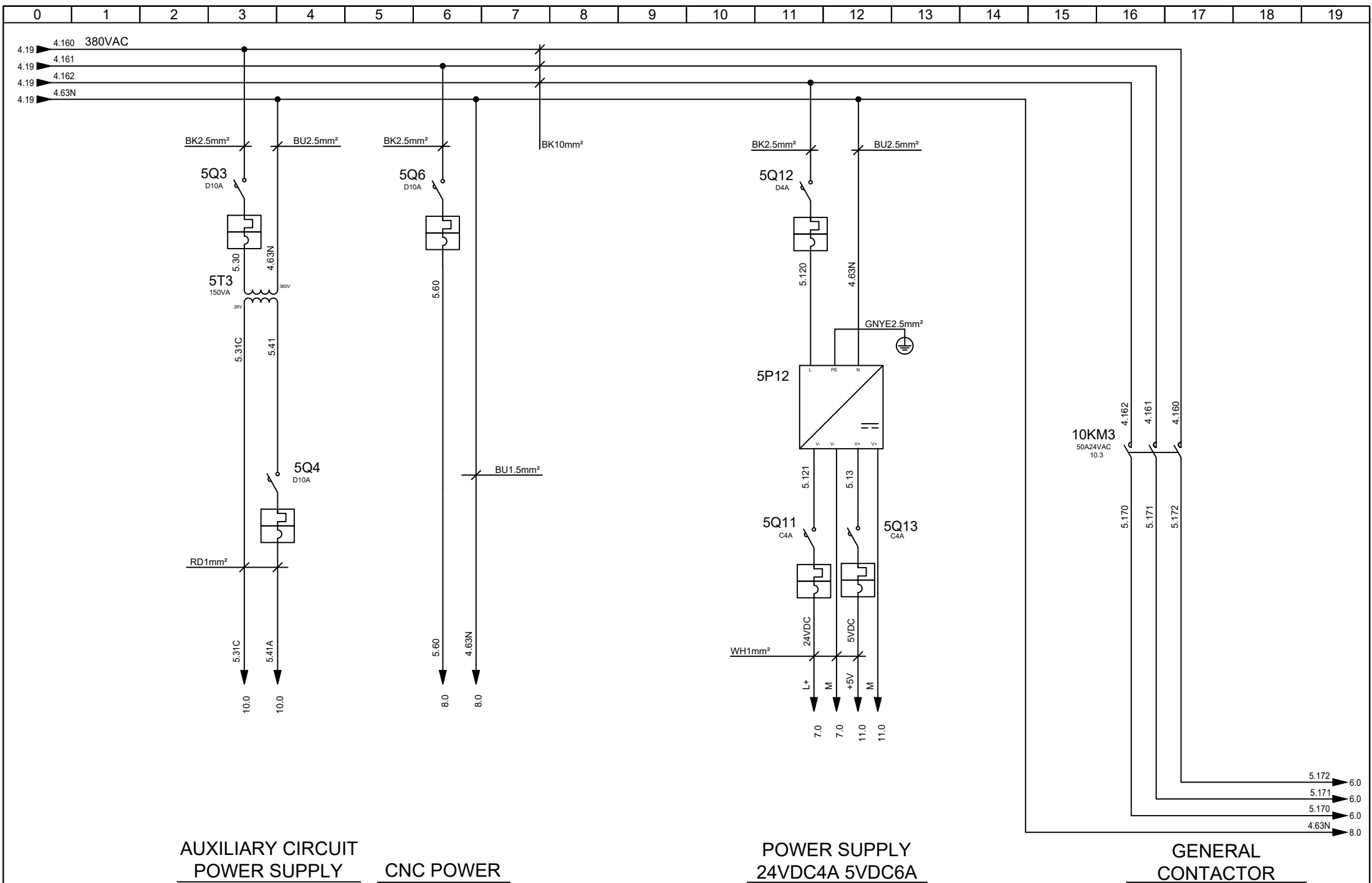


WIRE NUMBER



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



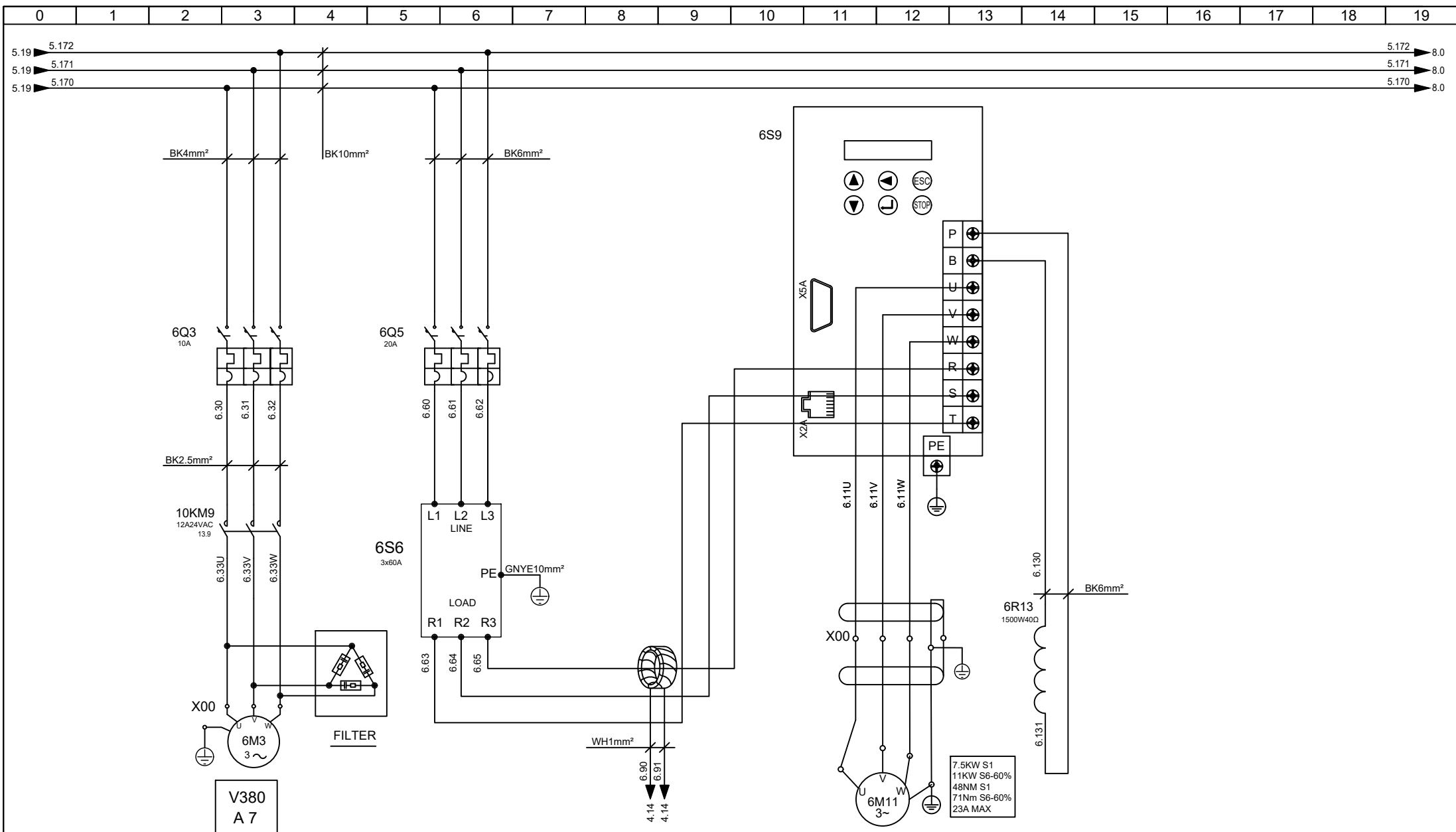


AUXILIARY CIRCUIT
POWER SUPPLY

CNC POWER

POWER SUPPLY
24VDC4A 5VDC6A

GENERAL
CONTACTOR

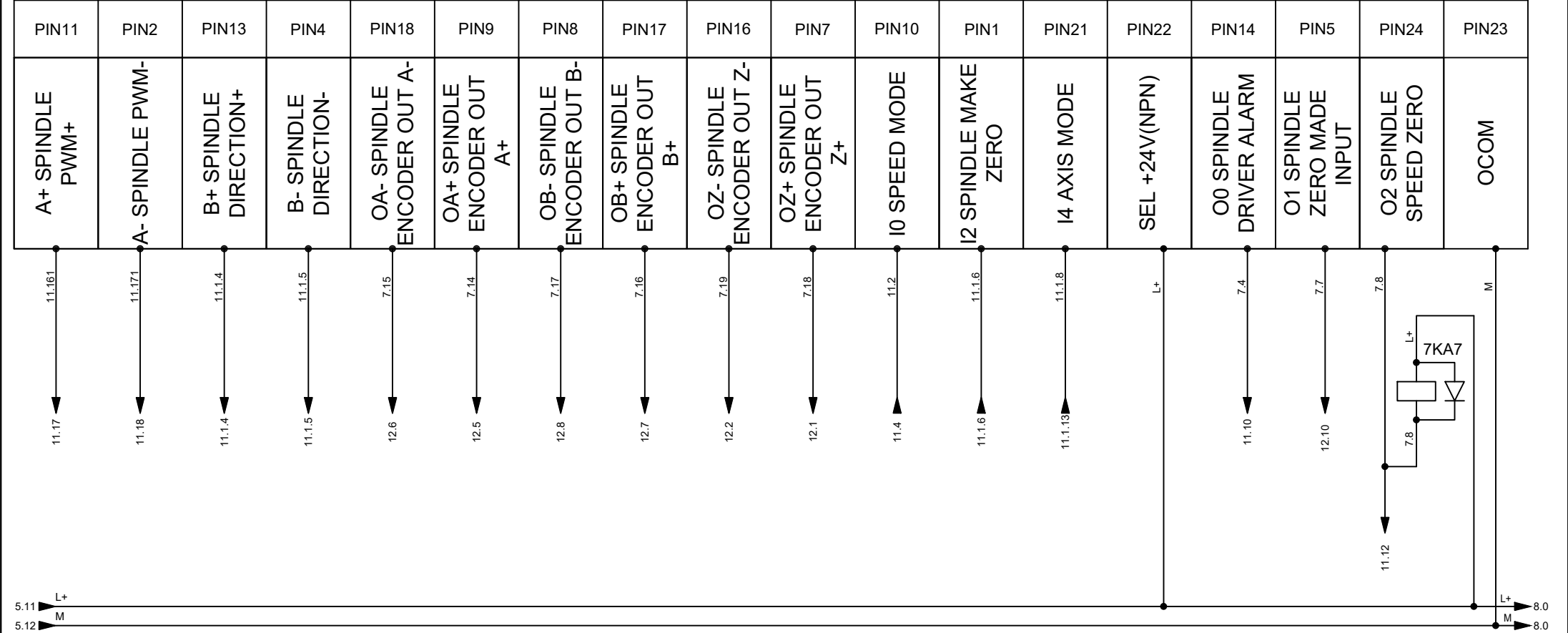
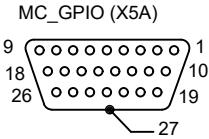


VACUUM PUMP
MOTOR

INVERTER FILTER

SPINDLE MOTOR
SERVO 10000RPM

RESISTOR

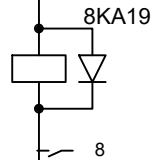
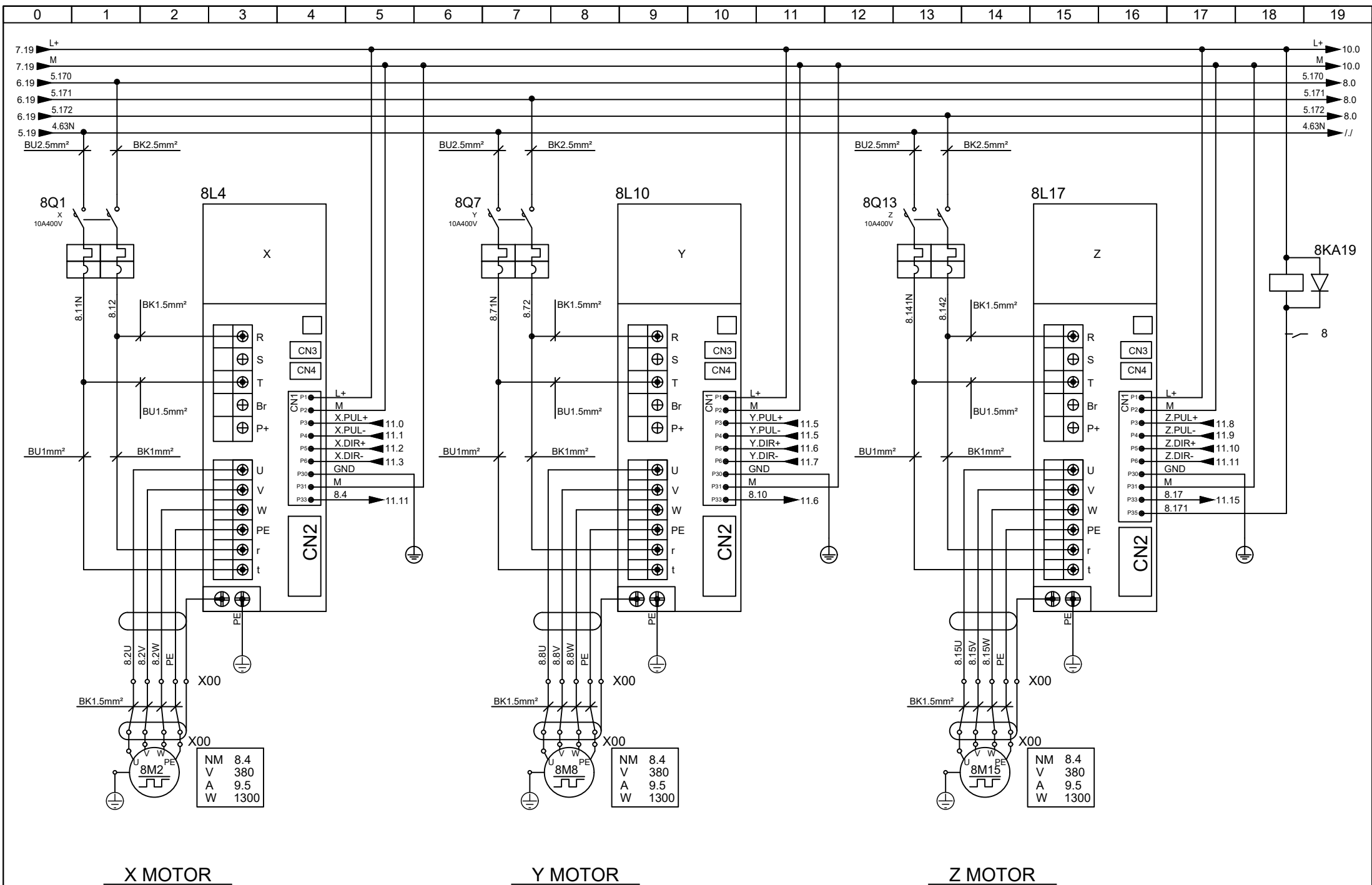


5.11

L+

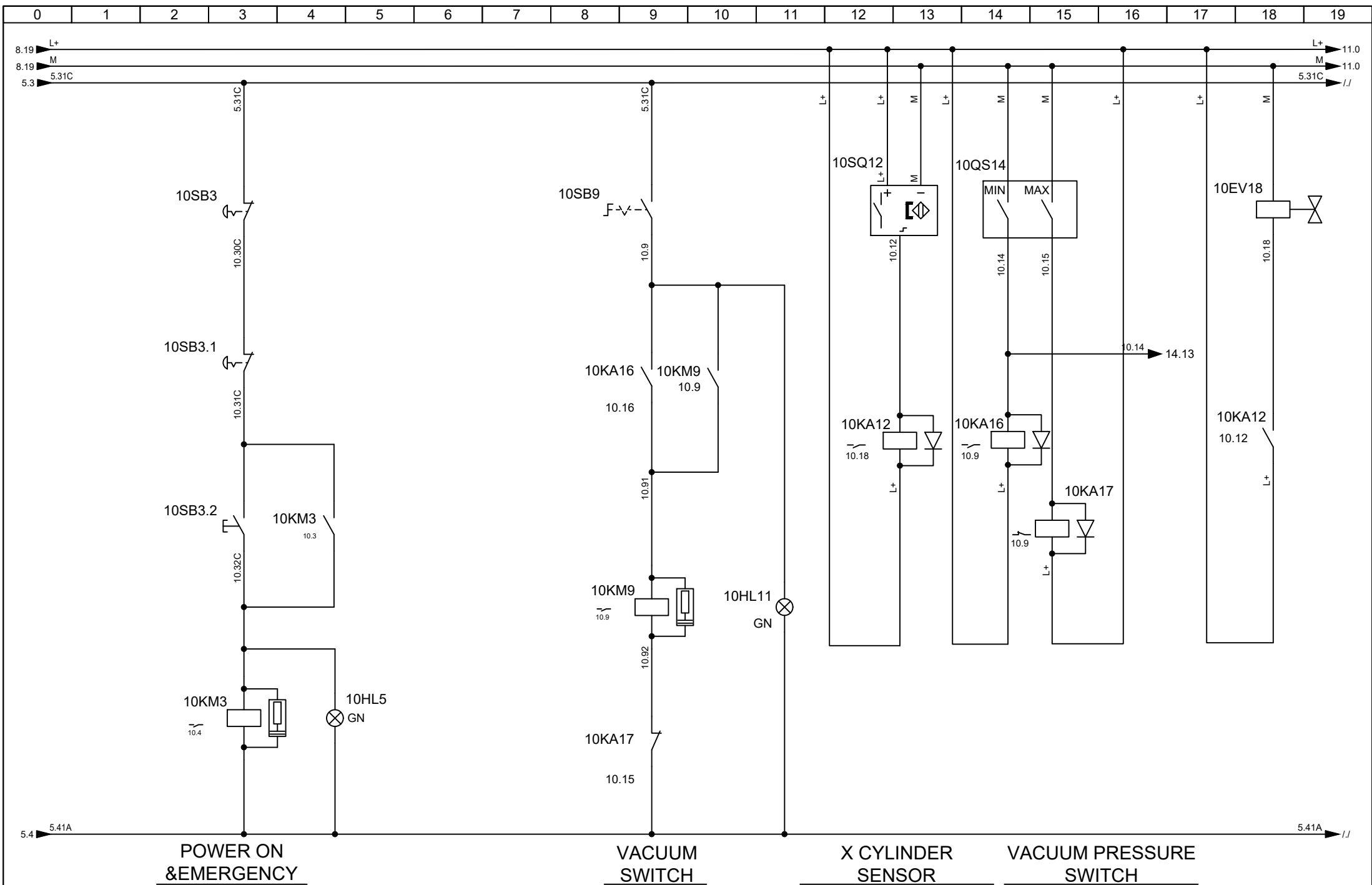
5.12

M



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 : KT32	Date: 09.16.2019	Revision: KT32-190806	Approved By :	Pag. 9	Next. 10



POWER ON
& EMERGENCY

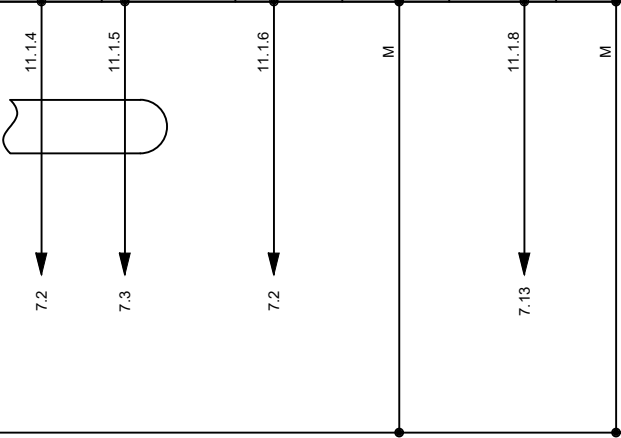
VACUUM
SWITCH

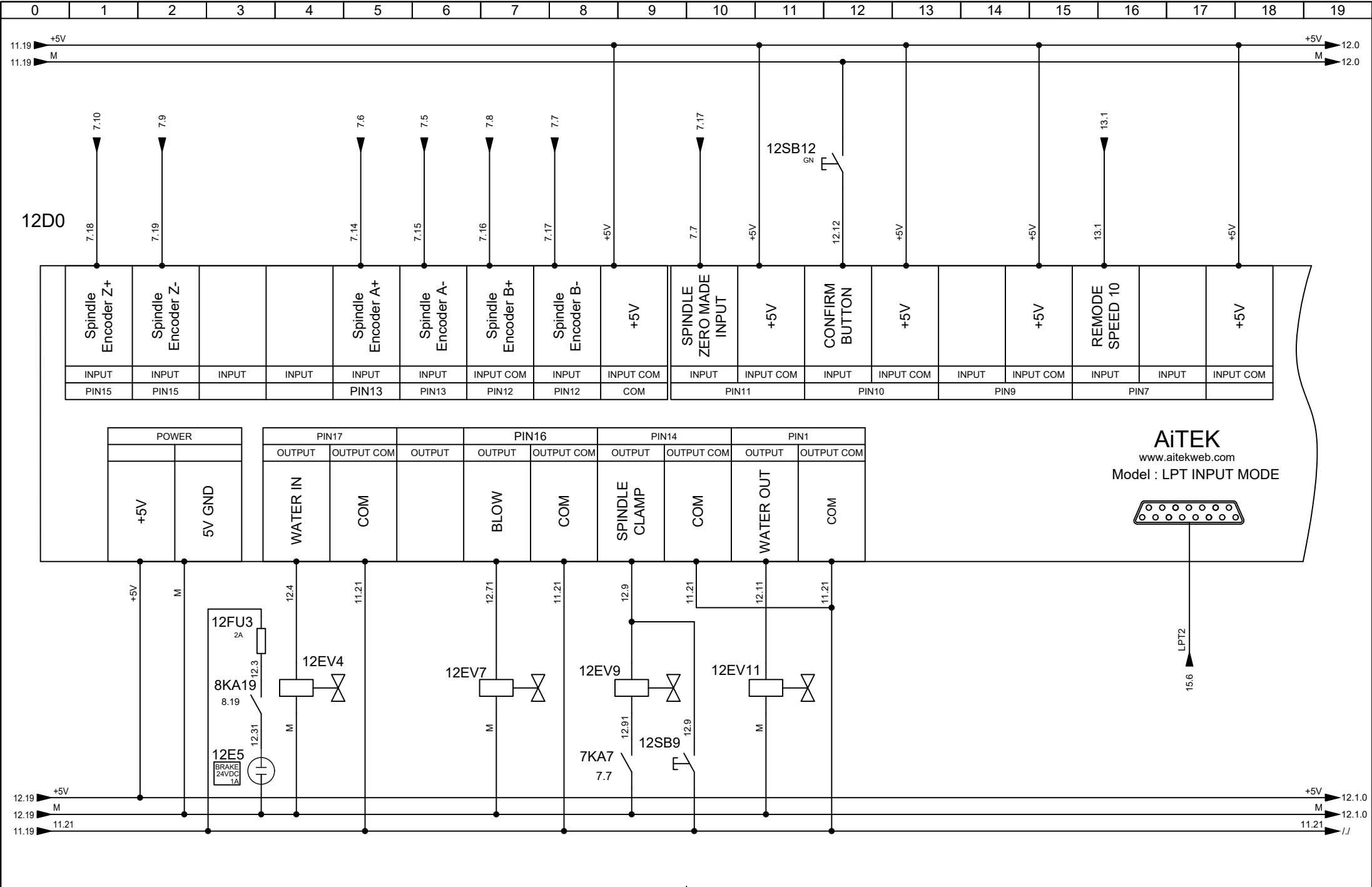
X CYLINDER
SENSOR

VACUUM PRESSURE
SWITCH

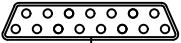
11D0

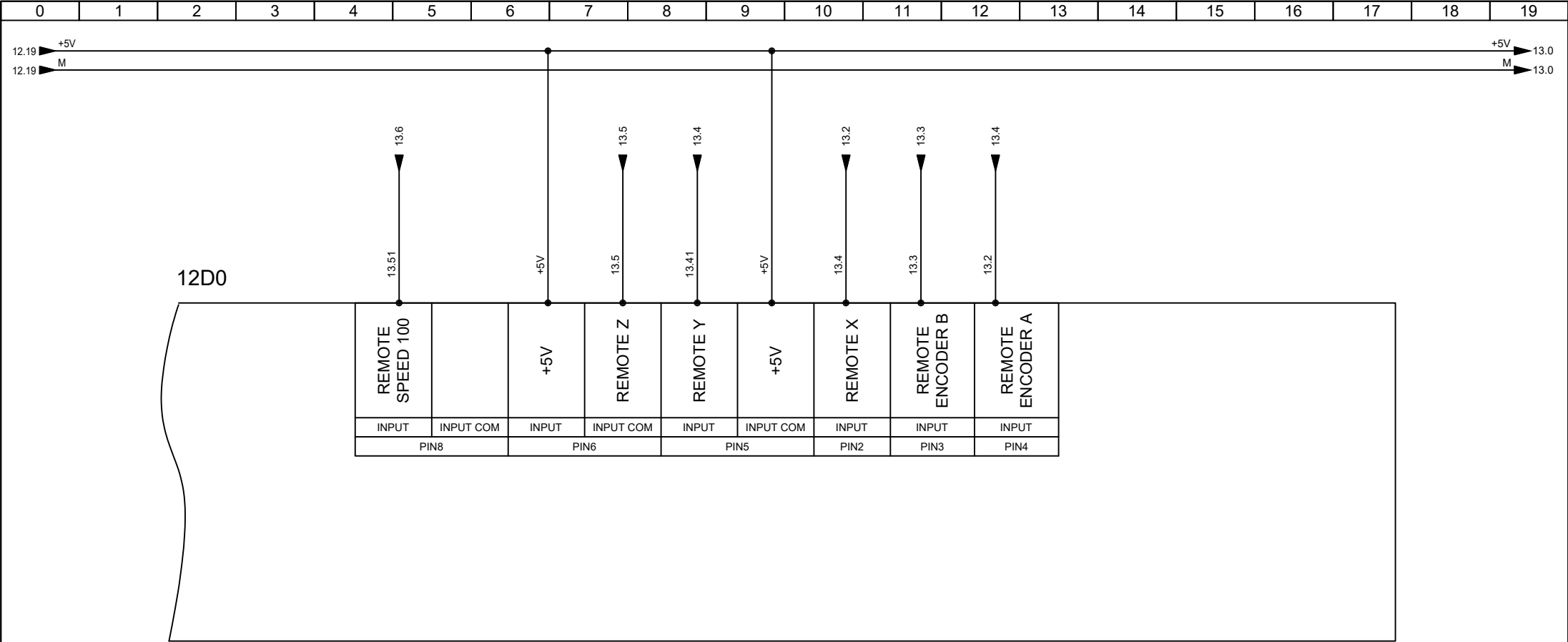
PIN14		PIN16		PIN17				
OUTPUT	OUTPUT COM	OUTPUT	OUTPUT	OUTPUT COM	OUTPUT	OUTPUT COM	OUTPUT	OUTPUT COM
SPINDLE DIRECTION+	SPINDLE DIRECTION-	ASK SPINDLE MAKE ZERO	COM	SPINDLE AXIS MODE	COM			

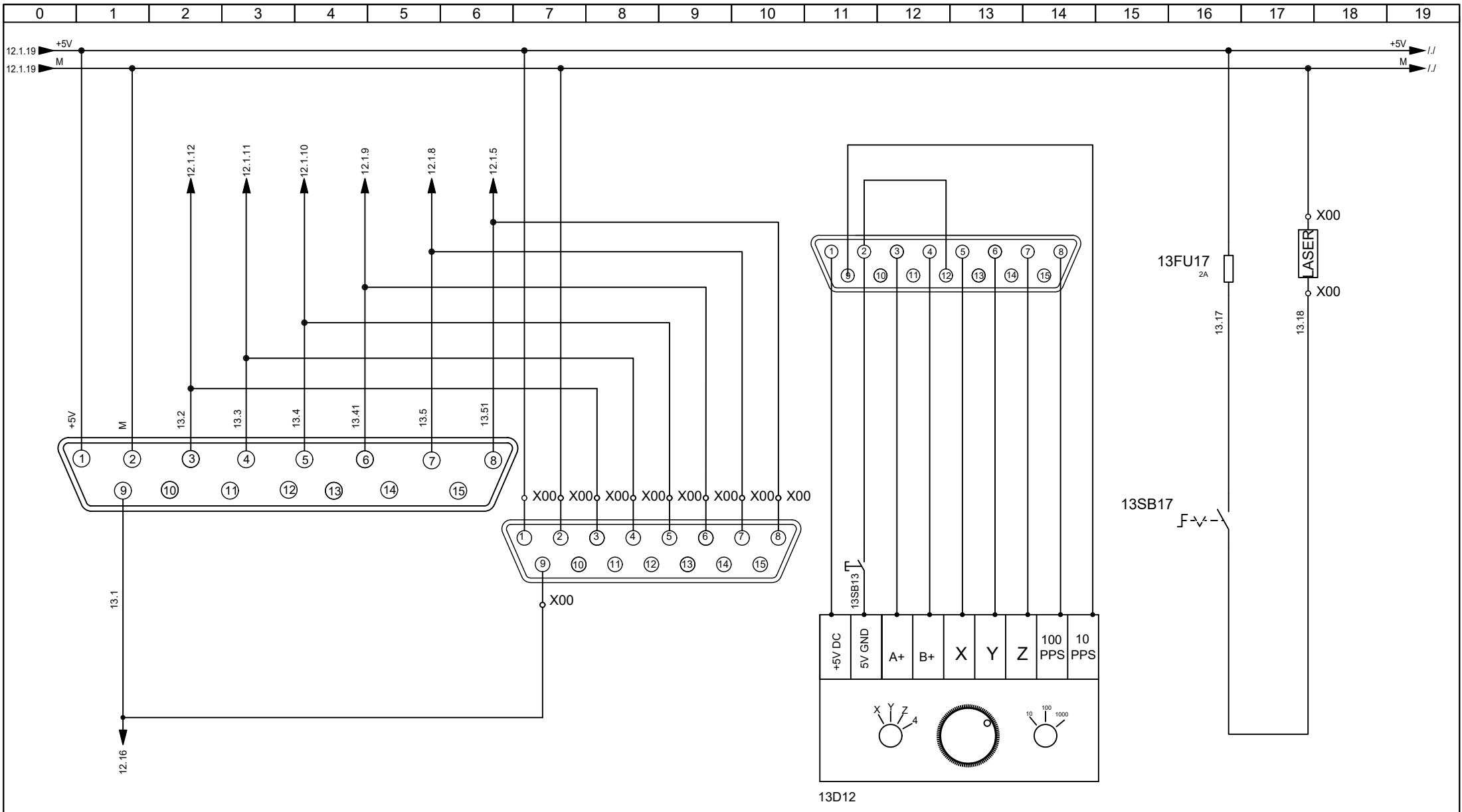




AiTEK
www.aitekweb.com
Model : LPT INPUT MODE





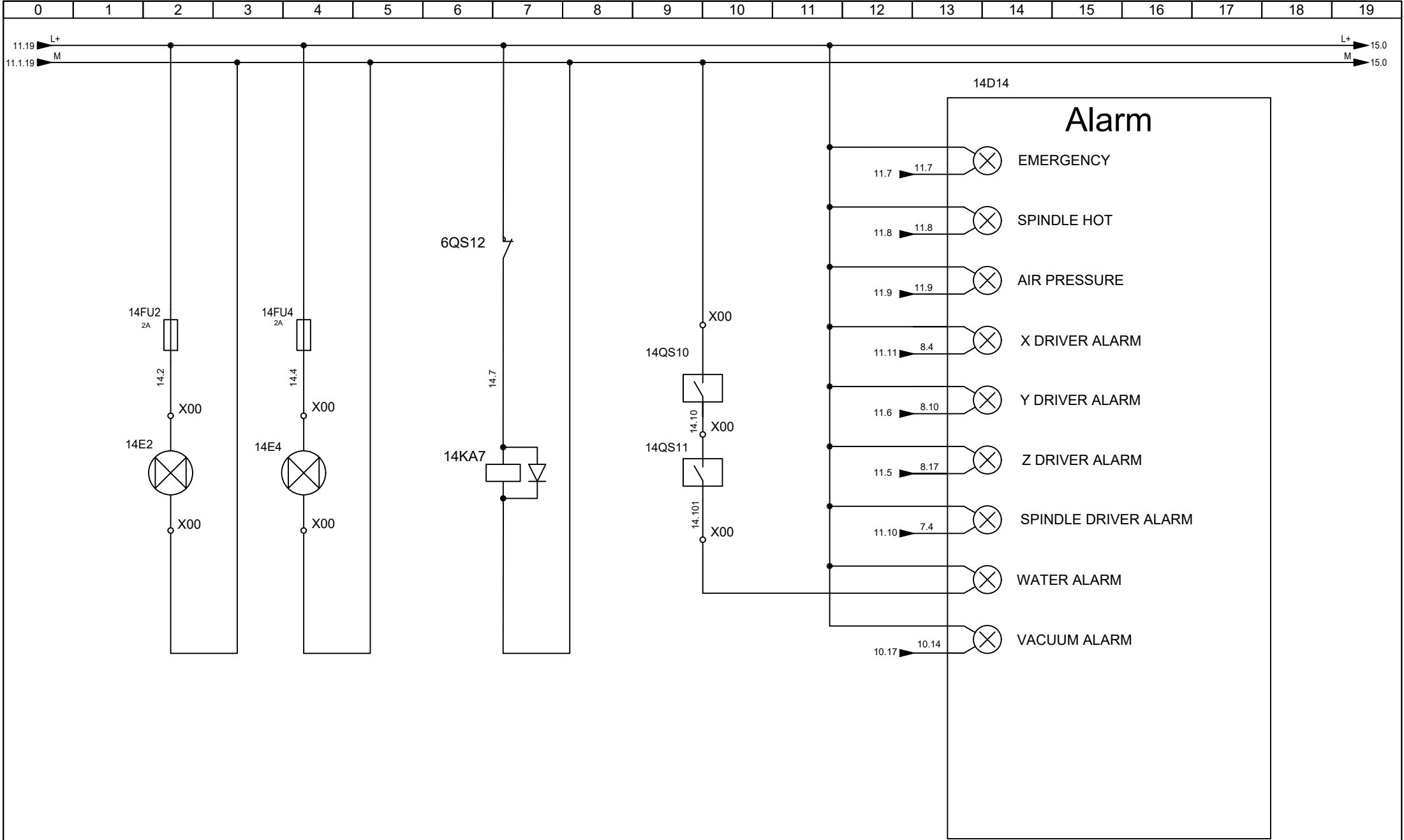


9 PIN CONNECTOR
IN BOX FOR
REMOTE

9 PIN CONNECTOR
IN Y AXIS LEG FOR
REMOTE

REMOTE CONTROL

LASER



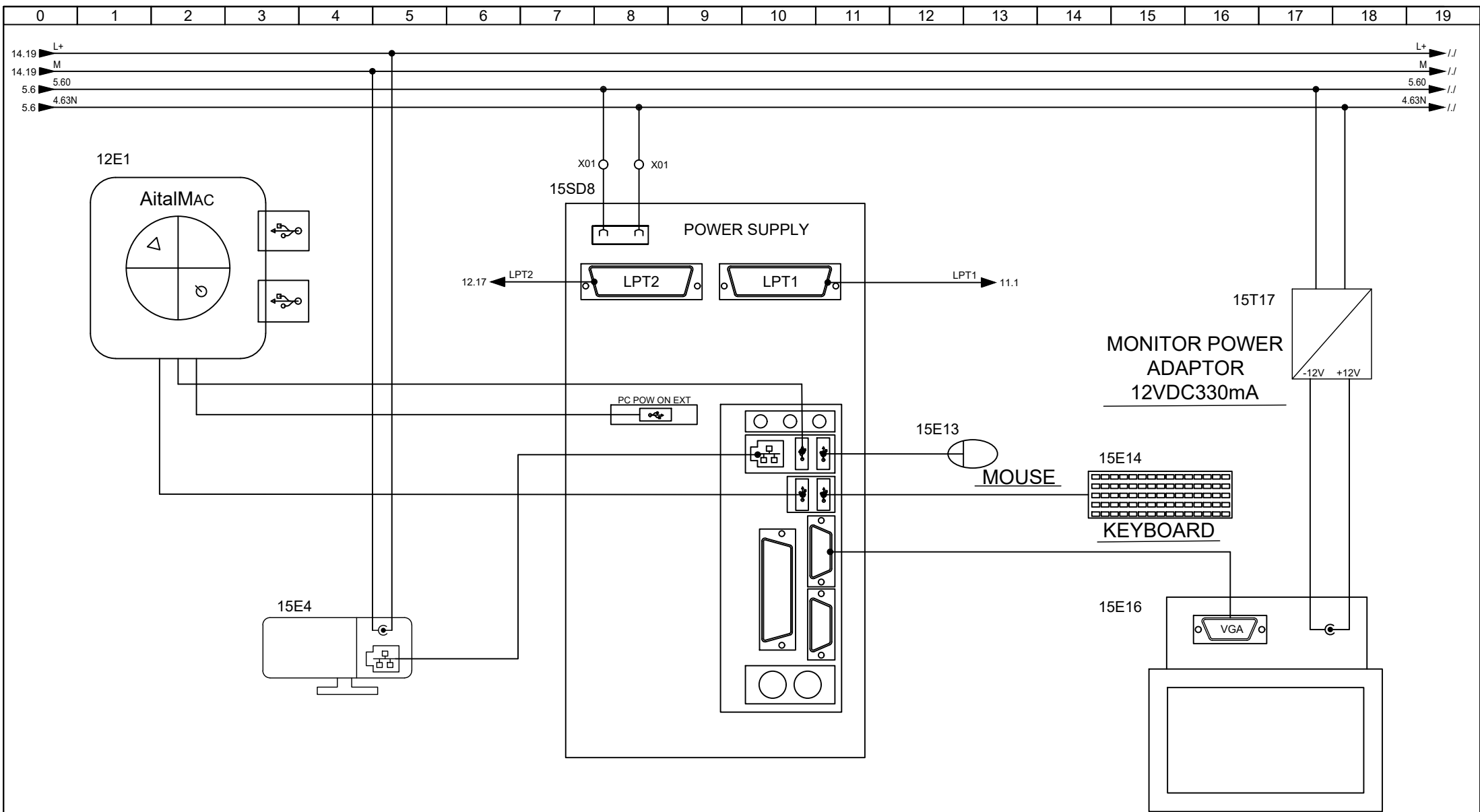
SPINDLE FAN

BOX FAN

SPINDLE THERMAL
CONTACT

WATER PRESSURE
SWITCH

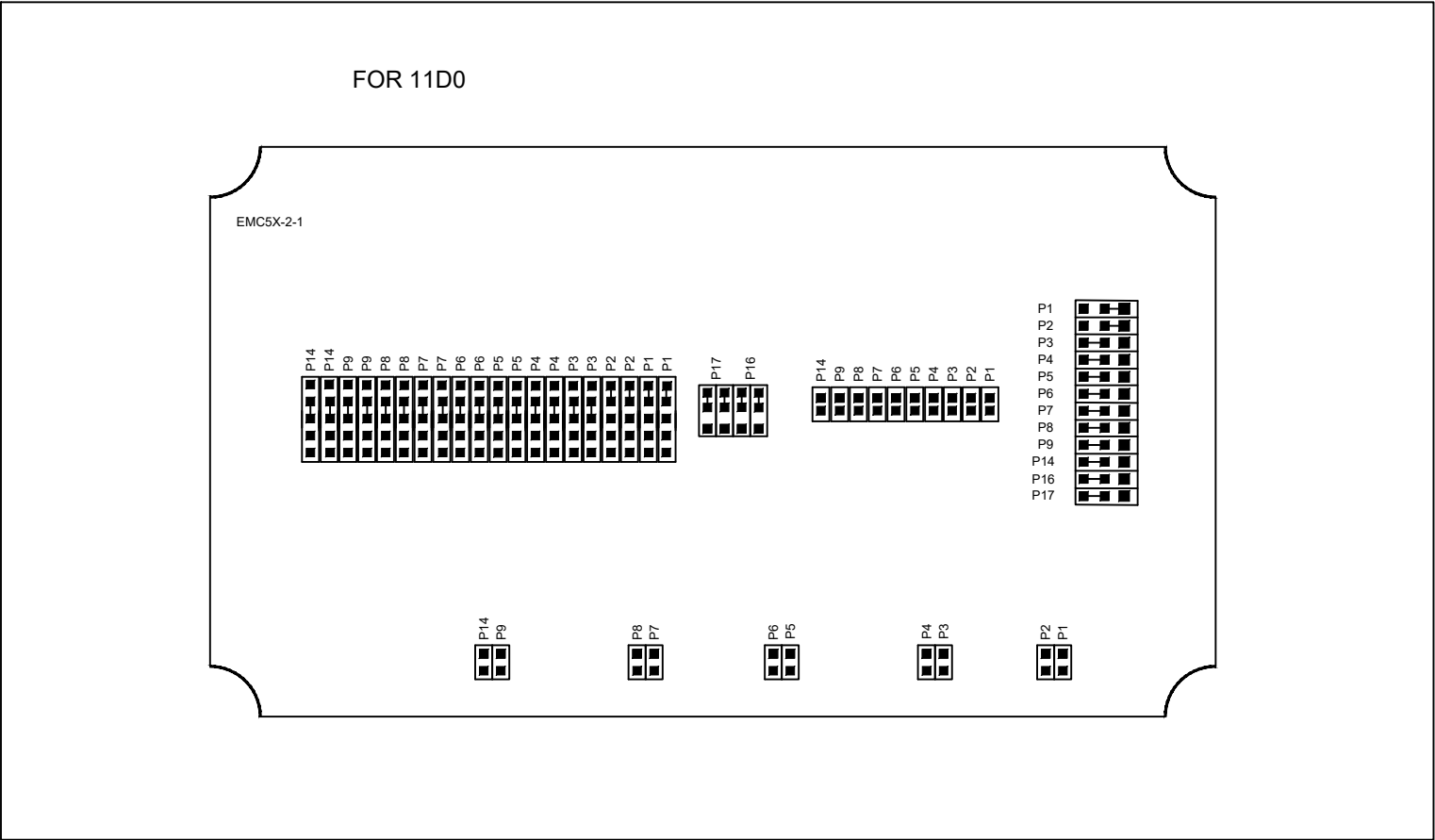
ALARM LIGHT



COMPUTER ON/OFF BUTTON
(Outside electric box over the monitor)

WINDOWS PC

MONITOR



OUTPUT CONTROL CARD JUMPERS SETTINGS

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

Pg.	Code	Name	Mfrs.	Model
4	4QS3	Travel Switch	SNJDQ	LX19-001 AC240VDC220V3A
4	4HL3	OPEN DOOR LIGHT ON	--	T5 12W/220V
4	4QS5	General Switch	GLELE	GLD11-63/08 +4P
4	4P10	Volt-ammeter	OUXIN	D85-2042A AC80-300V/200-450V
4	4S16	Filter	DOTHINK	DTT2121-50-S16-S77480V50A
4				

5	5Q3	Circuit Breaker	Schneider	IC65N D10A 1P
5	5T3	Transformers	CHNT	NDK(BK)-150
5	5Q4	Circuit Breaker	Schneider	IC65N D4A 1P
5	5Q6	Circuit Breaker	Schneider	IC65N D10A 1P
5	5Q12	Circuit Breaker	Schneider	IC65N D4A 1P
5	5P12	Power Supply	MW	D-120B
5	5Q11	Circuit Breaker	Schneider	C65H-DC C4A 1P
5	5Q13	Circuit Breaker	Schneider	C65H-DC C4A 1P
5				
5				

6	6Q3	Circuit Breaker	Schneider	IC65N D10A 3P
6	6M3	Vacuum Pump Motor	WANJING	2BV2061 380V 50Hz
6	6Q5	Circuit Breaker	Schneider	IC65N D50A 3P
6	6S6	Filter	DOTHINK	DTT2121-50-S16-S77480V50A
6	6S9	Frequency Converter	MK	SDC-CM-4T024-GP3R-1000 380V
6	6R13	Braking Resistor	--	1500W40Ω
6	6M11	Spindle Motor	MK	DHG10-3-48-7.5/11-4-1500
6				
6				

7	7KA7	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
7				
7				

Pg.	Code	Name	Mfrs.	Model
8	8Q1	Circuit Breaker	Schneider	IC65N D10A 2P
8	8M2	X Motor	Leadshine	ACM13013H2F-40-L 1.3KW 1500r/min
8	X 8L4	X Servo Drive	Leadshine	L5-1300Z
8	8Q7	Circuit Breaker	Schneider	IC65N D10A 2P
8	8M8	Y Motor	Leadshine	ACM13013H2F-40-L 1.3KW 1500r/min
8	Y 8L10	Y Servo Drive	Leadshine	L5-1300Z
8	8Q13	Circuit Breaker	Schneider	IC65N D10A 2P
8	8M15	Z Motor	Leadshine	ACM13013H2E-40-L 1.3KW 1500r/min
8	Z 8L17	Z Servo Drive	Leadshine	L5-1300Z
8	8KA19	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
8				
8				

10	10SB3	Emergency Button	RENY	R2PNR4-1B-R
10	10SB3.1	Emergency Button	RENY	R2PNR4-1B-R
10	10SB3.2	Power On Button	RENY	R2PIF-1D-2-LG
10	10KM3	Contactor	Schneider	LC1D50AB7C-LADN11
10	10HL5	Power On Button Light	RENY	LED GREEN
10	10SB9	Vacuum Switch	RENY	RBSNK-2-1A-LG
10	10KM9	Contactor	Schneider	LC1D18B7C
10	10SQ12	Cylinder Sensor	CHVIRD	CS1-U
10	10KA12	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
10	10QS14	Vacuum Pressure Switch	YXC	ZXC-100, -0.1-0MPa
10	10KA16	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
10	10KA17	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
10	10EV18	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V

11	11D0	LPT1 Output Card	AITEK	6AXIS-Mod-V5-OUTPUT mode
11	11KA0	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
11	11QS9	Air Pressure Switch	SQW	QPM11-NC
11	11SQ14	Z Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
11	11SQ15	Y Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
11	11SQ16	X Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
11				
11				

Pg.	Code	Name	Mfrs.	Model
12	12D0	LPT2 Input Card	AITEK	6AXIS-Mod-V5-INPUT mode
12	12FU3	Fuse	CHE	FS-101 DC24V 2A
12	12E5	Z Brake	--	--
12	12EV4	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
12	12EV7	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
12	12EV9	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
12	12SB9	Clamp Button	RENY	R2PIF-1D-2G
12	12EV11	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
12	12SB12	Confirm Button	RENY	R2PIF-1D-2G
12				

13	13SB13	Remote Button	ONPOW	LAS2Y-11 2NO+2NC
13	13D12	Remote	JEMICON	SK-B-021-100 A/B 5-12V
13	13FU17	Fuse	CHE	FS-101 DC24V 2A
13	13SB17	Laser Switch	RENY	RBSNK-2-1A-LG
13	LASER	Cross Laser	--	Las2 Φ12mm
13				

14	14FU2	Fuse	CHE	FS-101 DC24V 2A
14	14E2	Fan	PAPST	TYP4114N/12MR 24V 6W 12CM
14	14FU4	Fuse	CHE	FS-101 DC24V 2A
14	14E4	Fan	PAPST	TYP4114N/12MR 24V 6W 12CM
14	14KA7	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
14	14QS10	Water Pressure	--	PC-3A
14	14QS11	Water Pressure	--	PC-3A
14	14D14	Alarm Label	--	--
14				

15	15E1	Computer Power On/Off	Aitalmac	--
15	15E4	USB-WIFI	LEGUANG	LG-A305
15	15SD8	CNC Controler	AITEK	9 AXIS Windows-KT32
15	15E13	USB-Mouse	Lenovo	M300
15	15E14	USB-Keybaord	Logitech	K310
15	15E16	Monitor	Anmite	AN-170A02
15	15T17	Power Supply	--	--
15				
15				

Inverter Parameter

NAME	ADDRESS	DESCRIPTION	RANGE	DEFAULT	UNITS	NAME	ADDRESS	DESCRIPTION	RANGE	DEFAULT	UNITS																																													
P01_00	0x2100	Motor type coding	0~999999	0	-	P54_00	0x2900	Quasi-stop control type	0:Z forward quasi-stop, 1: Z reverse stop, 2: Nearby quasi-stop.	0																																														
P01_01	0x2102	Motor pole number	0~64	4	-																																																			
P01_02	0x2104	Motor rated power	0~1000	50	Hz																																																			
P01_04	0x2108	Motor rated voltage	1~3000	380	V	P54_07	0x290E	Punctual Stop Positioning Rigidity	0.00001~0.1	0.0008	-																																													
P01_05	0x210A	Motor rated current	0~1000	16	A																																																			
P01_06	0x210C	Motor rated torque	0~5000	48	N.m	P54_10	0x2914	Quasi-stop control accuracy	0~100.0	15	Pulse																																													
P14_00	0x2260	Type of motor encoder	0: no encoder, 1:photoelectric encoder, 2: incremental rotary transformer, 3: incremental magnetoresistive encoder	1	-	P54_12	0x2918	First quasi-stop position	0~999999	2870	Pulse																																													
						P55_01	0x2982	Speed feedback source	0:Motor encoder, 1: Second encoder	0																																														
						P55_02	0x2984	Speed instruction type	0:0~10V,1: + 10V, 2: external pulse, 3:mBUS, 4:16 speed	2																																														
P22_01	0x2352	External pulse type	0: AB , 1:PD , 2: CW	2	-																																																			
P23_10	0x236C	Input0:Rotation direction	0: positive rotation, 1: reversal	0	-																																																			
P23_12	0x2370	Input2:parking position	2: parked 0 , 3: parked 1	2	-	P55_05	0x298A	Maximum Speed (Speed Control)	0~30000	10000	rpm																																													
P23_14	0x2374	Input4:control model	4: position control	4	-																																																			
P23_25	0x238A	Input15		127	-	P55_13	0x299A	Speed instruction gear ratio	0~10000	4	-																																													
P24_10	0x23B8	Output0:Alarm	0: alarm output	0	-																																																			
P24_11	0x23BA	Output1:Speed	9: zero speed arrival	1	-	P90_01	0x4002	Clear alarm	Write 1, clear and auto-zero	1	-																																													
P24_12	0x23BC	Output2:	1: stop in place	9	-																																																			
P35_00	0x2594	INERTIA COEFFICIENT OF POSITION RING	0~2.0	0.2	-	Servo Driver Parameter <table><tr><th>NAME</th><th>RANGE</th><th>X</th><th>Y</th><th>Z</th></tr><tr><td>PA003</td><td>0~31.0</td><td>13</td><td>13</td><td>13</td></tr><tr><td>PA004</td><td>0~10000.0</td><td>750</td><td>750</td><td>750</td></tr><tr><td>PA006</td><td>0~1.0</td><td>1</td><td>1</td><td>0</td></tr><tr><td>PA008</td><td>0~32767.0</td><td>5000</td><td>5000</td><td>5000</td></tr><tr><td>PA222</td><td>0~32767.0</td><td>100</td><td>100</td><td>100</td></tr><tr><td>PA410</td><td>0~00FFFFFFh</td><td>181</td><td>181</td><td>181</td></tr><tr><td>PA529</td><td>0~100.0</td><td>53</td><td>53</td><td>53</td></tr><tr><td>PA531</td><td>0~127.0</td><td>1</td><td>2</td><td>3</td></tr></table>						NAME	RANGE	X	Y	Z	PA003	0~31.0	13	13	13	PA004	0~10000.0	750	750	750	PA006	0~1.0	1	1	0	PA008	0~32767.0	5000	5000	5000	PA222	0~32767.0	100	100	100	PA410	0~00FFFFFFh	181	181	181	PA529	0~100.0	53	53	53	PA531	0~127.0	1	2	3
NAME	RANGE	X	Y	Z																																																				
PA003	0~31.0	13	13	13																																																				
PA004	0~10000.0	750	750	750																																																				
PA006	0~1.0	1	1	0																																																				
PA008	0~32767.0	5000	5000	5000																																																				
PA222	0~32767.0	100	100	100																																																				
PA410	0~00FFFFFFh	181	181	181																																																				
PA529	0~100.0	53	53	53																																																				
PA531	0~127.0	1	2	3																																																				
P35_02	0x2596	Zero Speed KI of Position Ring	0~1.0	0.005	-																																																			
P35_03	0x2598	Low Speed KI of Position Ring	0~1.0	0.004	-																																																			
P35_05	0x259C	Zero Speed KP of Position Ring	0~2.0	0.5	-																																																			
P53_02	0x2884	Position instruction type	0:0~10V, 1: + 10V, 2: external pulse, 3:mBUS absolute type, 4:mBUS interpolation	2																																																				
P53_07	0x288A	Position creeping speed	0.01~1	0.0008	rpm																																																			

