

产品型号： MBDYXM17
PRODUCT TYPE:

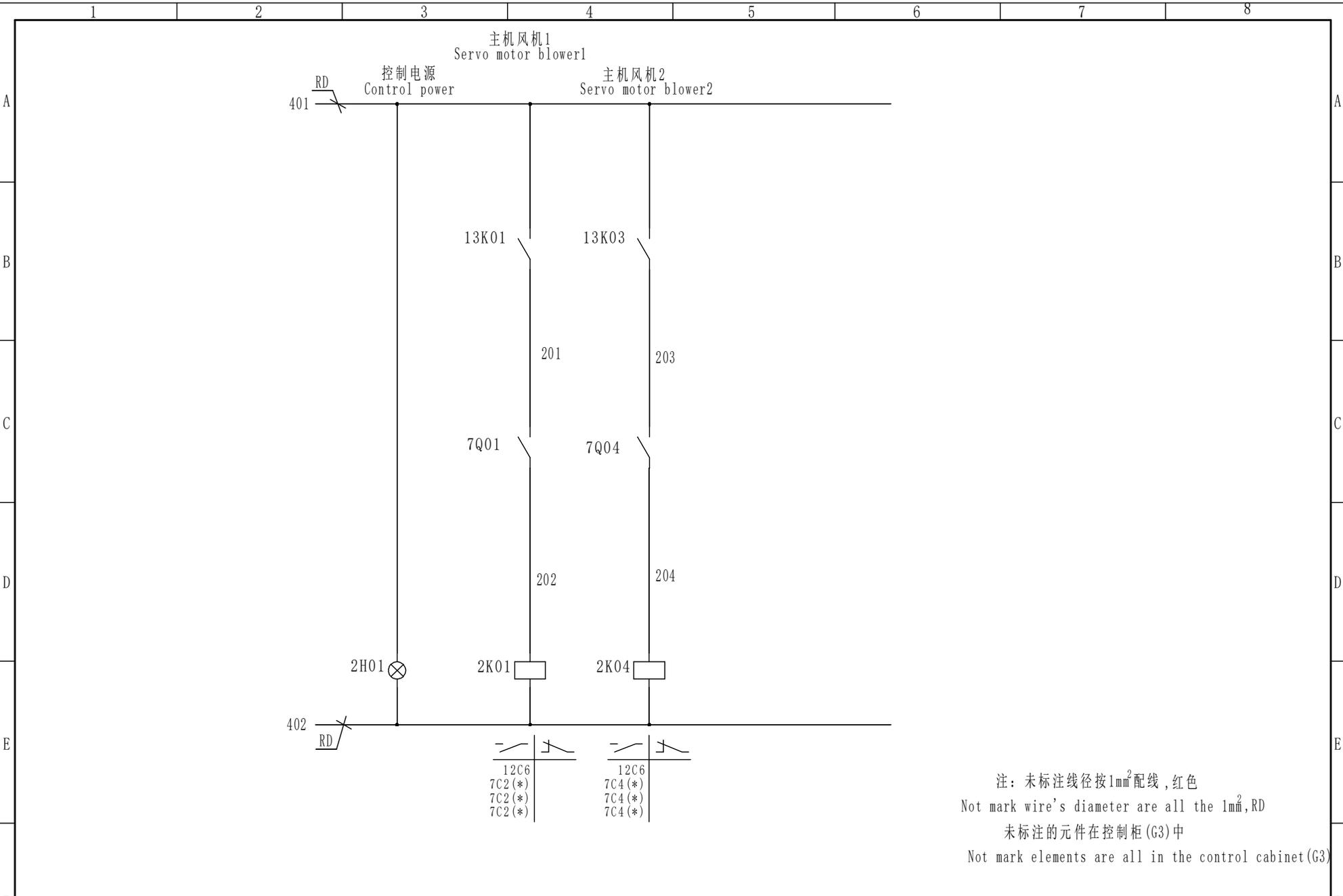
产品名称： 液压控制箱
PRODUCT NAME: HYDRAULIC CONTROL BOX

电 气 部 分 图 样
ELECTRIC DRAWING

大 连 橡 胶 塑 料 机 械 有 限 公 司
DALIAN RUBBER & PLASTICS MACHINERY CO., LTD
中 国 . 大 连
CHINA . DALIAN

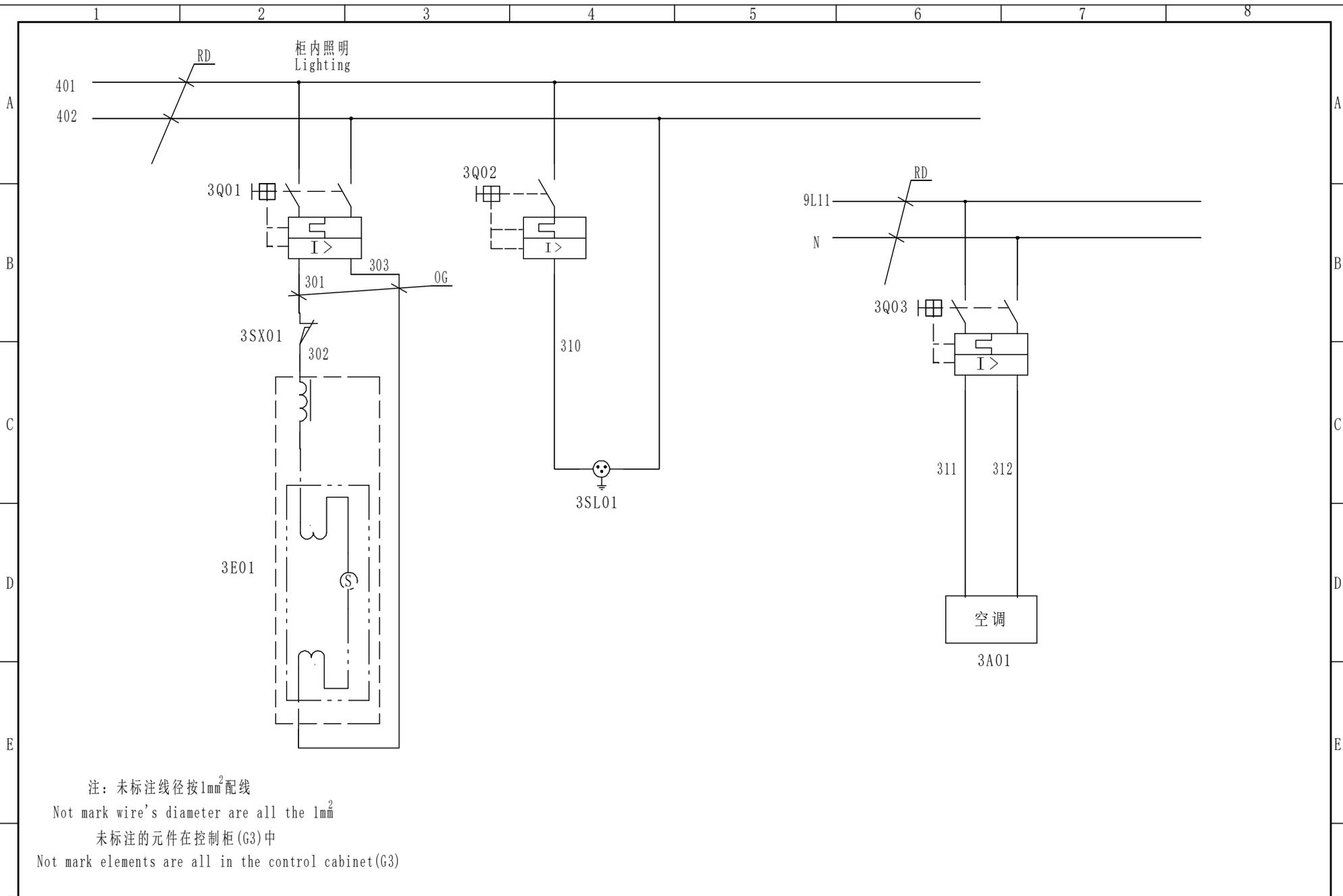
1	2	3	4	5	6
序号	代号 Code	名称 Name	张数 Q'ty	幅面 Size	备注 Remark
1		全套电气设备总布置图明细 General layout of electric equipment list	1		1
2		电气原理图 Principle diagram of electric system	16		1~8、11~18
3		电气原理图明细 List of principle diagram	2		1~2/2
4		外部接线图 Connective wire diagram of machine and outer	5		1~5/5
5	MBDYXM17.D.1	操作箱<G3> Operate box	3		1~3/4
6		合计 Total	27		
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大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.		电气部分随机文件 (图样目录) Machine file design electric system of list	MBDYXM17	第 1/1 页	
	批准/Ratify		校对/Check		审定/Confirm				共 1 页	总第 1 页
			审核/Appr.		日期/Date	2025.3			Total	Sheet



注：未标注线径按1mm²配线，红色
 Not mark wire's diameter are all the 1mm²,RD
 未标注的元件在控制柜(G3)中
 Not mark elements are all in the control cabinet(G3)

大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.	电气原理图（控制） Principle diagram of electric system	MBDYXM17	第 1/1 页 Page	
	批准/Ratify		校对/Check		审定/Confirm			共 1 页 Total	总第 2 页 Sheet
			审核/Appr.		日期/Date			2025.3	



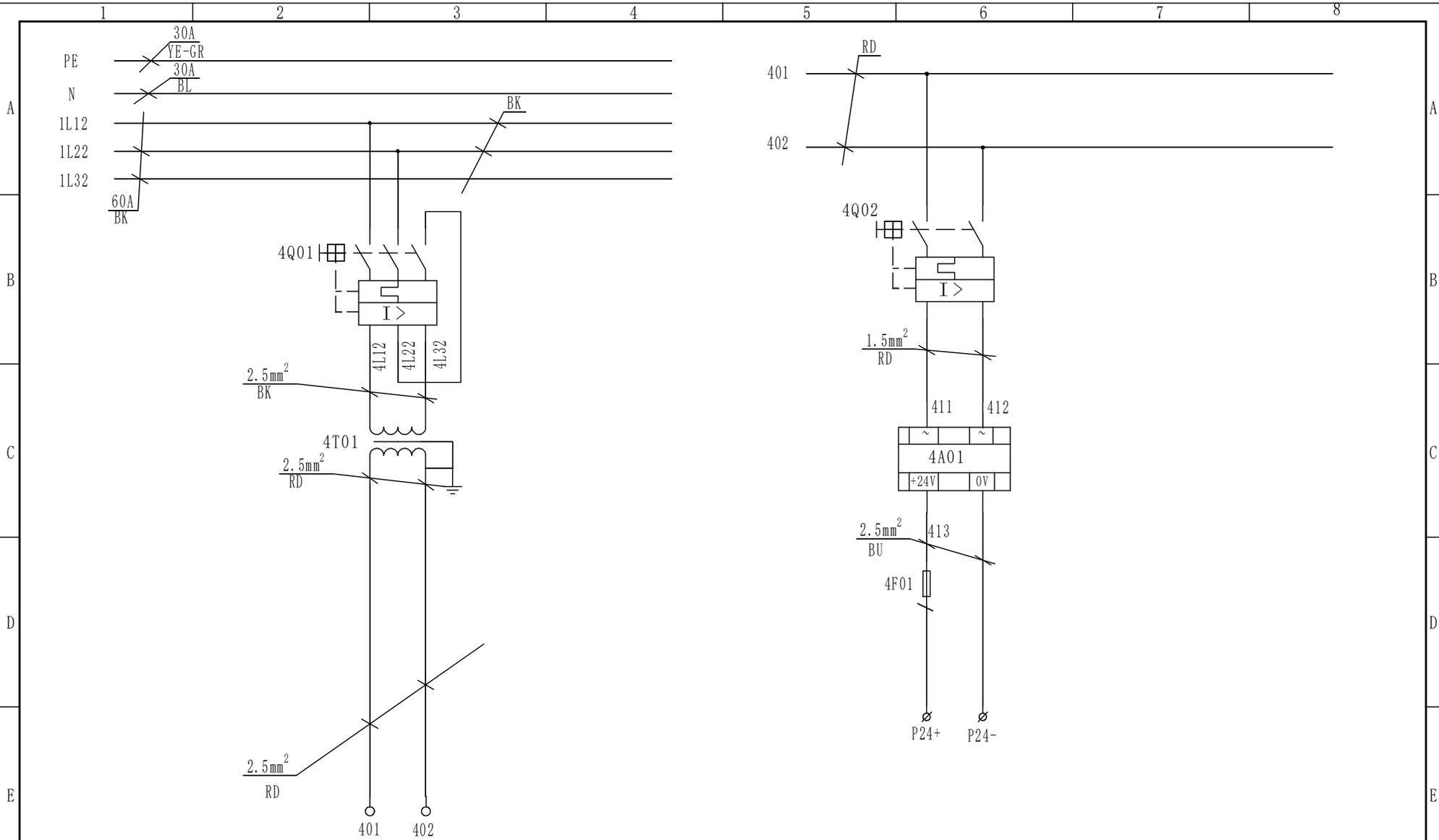
注：未标注线径按1mm²配线

Not mark wire's diameter are all the 1mm²

未标注的元件在控制柜(G3)中

Not mark elements are all in the control cabinet(G3)

F	大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.		修改/Modify	设计/Design	标审/Std.	电气原理图（照明） Principle diagram of electric system	MBDYXM17	第 1/1 页 Page	共 1 页 总第 3 页 Total Sheet
			批准/Ratify	校对/Check	审定/Confirm			共 1 页 总第 3 页 Total Sheet	
				审核/Appr.	日期/Date			2025.3	
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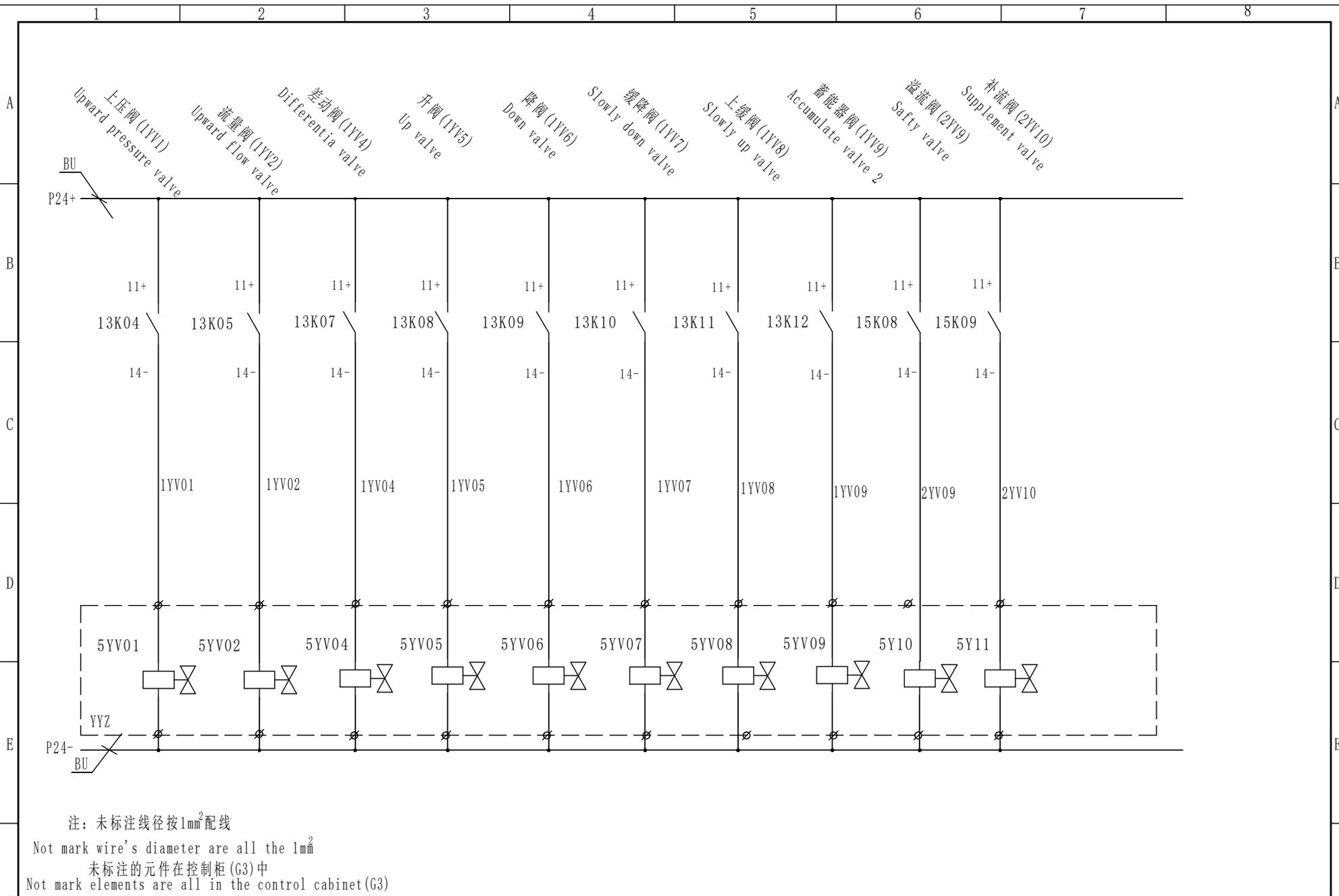
注：未标注线径按1mm²配线

Not mark wire's diameter are all the 1mm²

未标注的元件在控制柜(G3)中

Not mark elements are all in the control cabinet(G3)

F	大连橡胶塑料机械股份有限公司		修改/Modify		设计/Design		标审/Std.		电气原理图(控制电源)	MBDYXM17	第 1/1 页	
	DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.		批准/Ratify		校对/Check		审定/Confirm				共 1 页	总第 4 页
					审核/Appr.		日期/Date	2025.3			Total	Sheet



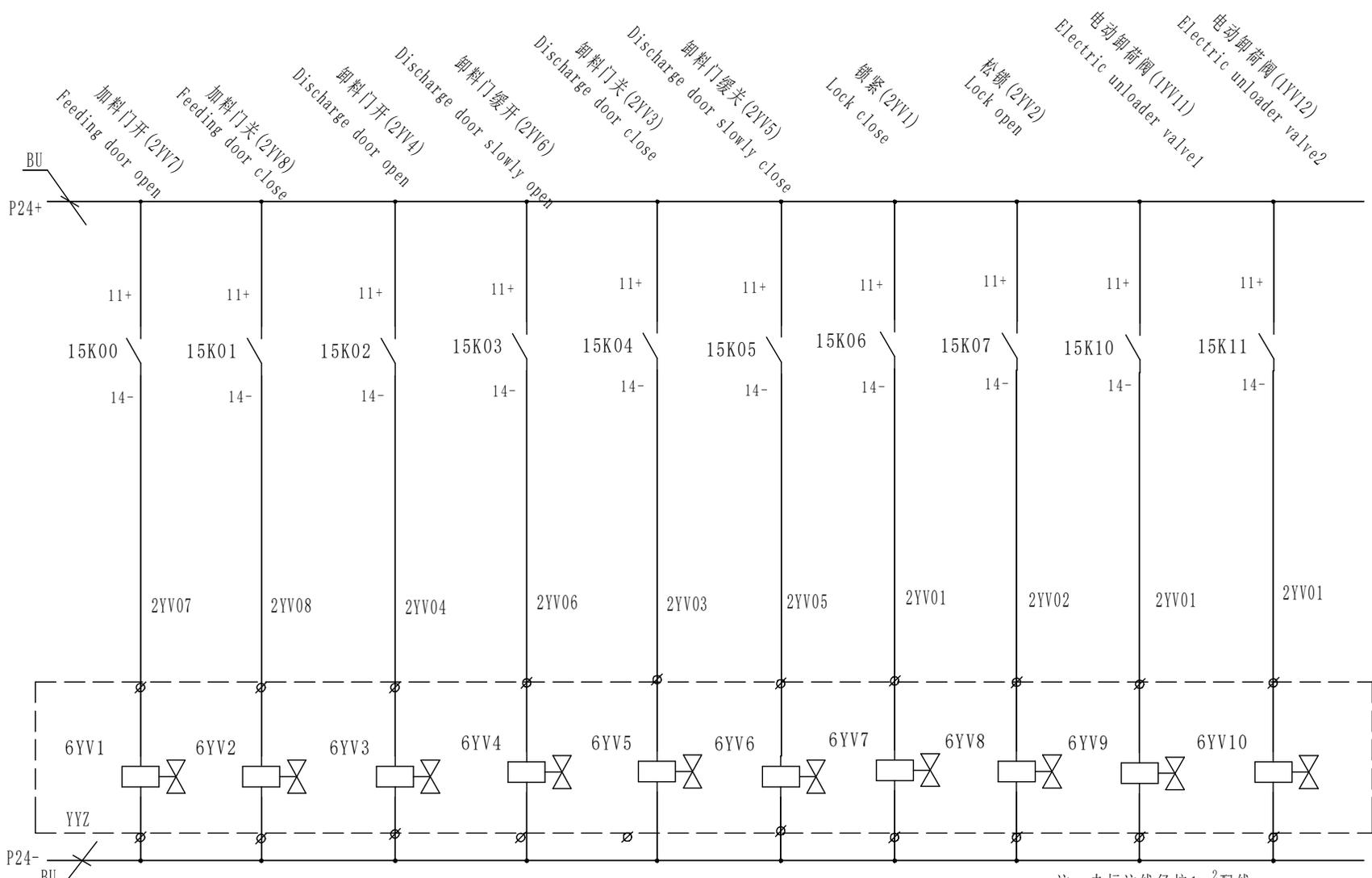
注：未标注线径按1mm²配线

Not mark wire's diameter are all the 1mm²

未标注的元件在控制柜 (G3) 中

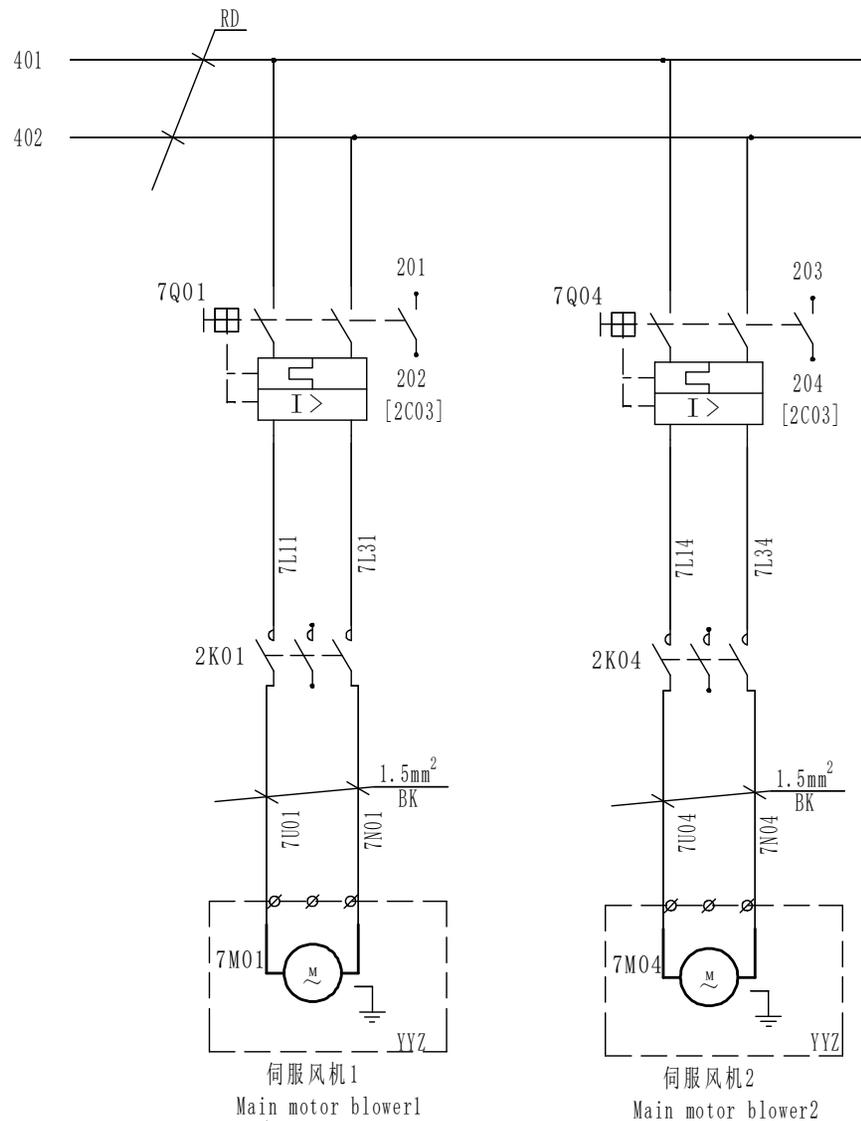
Not mark elements are all in the control cabinet (G3)

F	大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.		修改/Modify	设计/Design	标审/Std.	电气原理图 (阀组) Principle diagram of electric system	MBDYXM17	第 1/2 页 Page	共 2 页 Total	总第 5 页 Sheet
			批准/Ratify	校对/Check	审定/Confirm					
				审核/Appr.	日期/Date			2025.3		



注：未标注线径按1mm²配线
 Not mark wire's diameter are all the 1mm²
 未标注的元件在控制柜(G3)中
 Not mark elements are all in the control cabinet(G3)

大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.	电气原理图 (阀组) Principle diagram of electric system	MBDYXM17	第 2/2 页 Page	共 2 页 总第 6 页 Total Sheet
	批准/Ratify		校对/Check		审定/Confirm				
			审核/Appr.		日期/Date			2025.3	



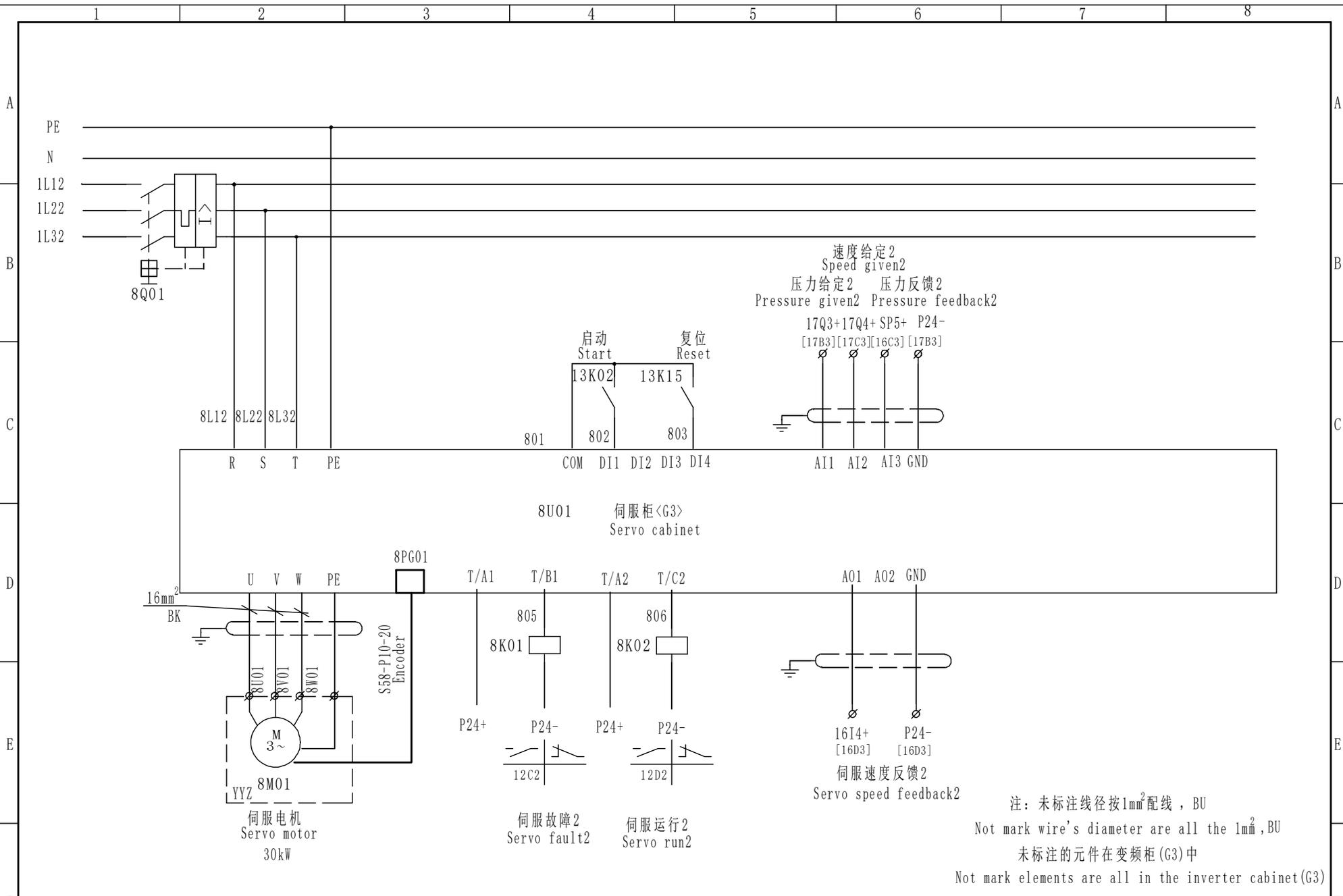
注：未标注线径按1mm²配线

Not mark wire's diameter are all the 1mm²

未标注的元件在控制柜(G3)中

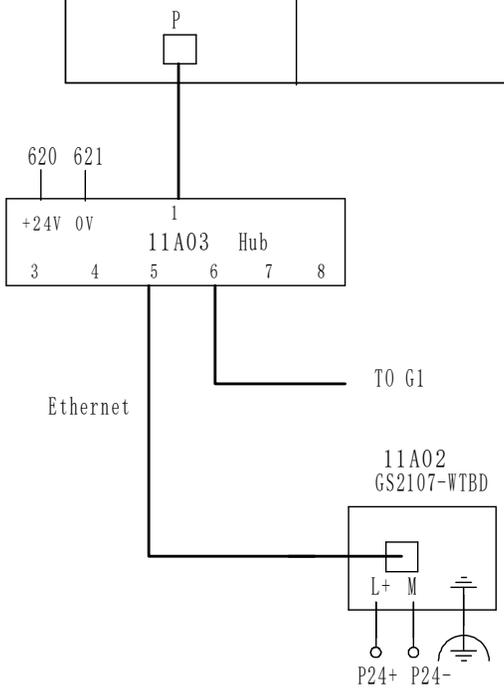
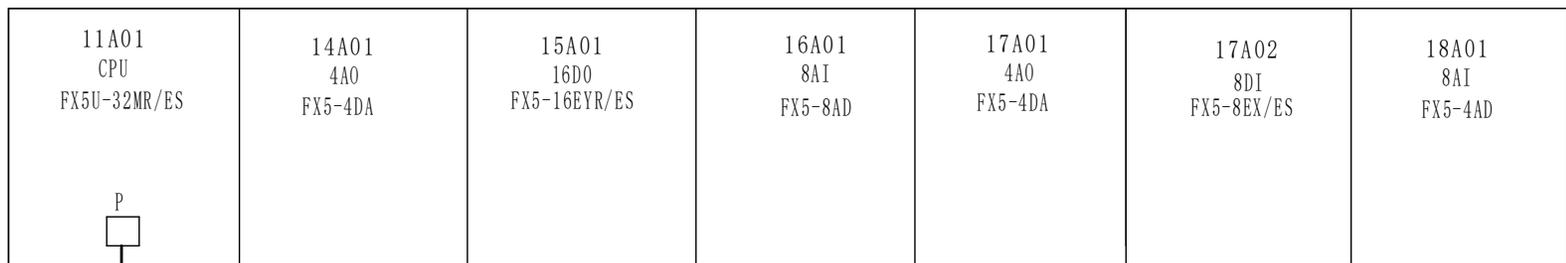
Not mark elements are all in the control cabinet(G3)

F	大连橡胶塑料机械股份有限公司		修改/Modify	设计/Design	标审/Std.	电气原理图(附属设备)	MBDYXM17	第 1/1 页	共 1 页 总第 7 页	
	DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.		批准/Ratify	校对/Check	审定/Confirm			Page		Total
			审核/Appr.	日期/Date	2025.3			Principle diagram of electric system		
	1	2	3	4	5	6	7	8		



注: 未标注线径按1mm²配线, BU
 Not mark wire's diameter are all the 1mm², BU
 未标注的元件在变频器(G3)中
 Not mark elements are all in the inverter cabinet (G3)

F	大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.	电气原理图 (驱动) Principle diagram of electric system	MBDYXM17	第 1/1 页 Page	
		批准/Ratify		校对/Check		审定/Confirm			共 1 页 Total	总第 8 页 Sheet
				审核/Appr.		日期/Date			2025.3	

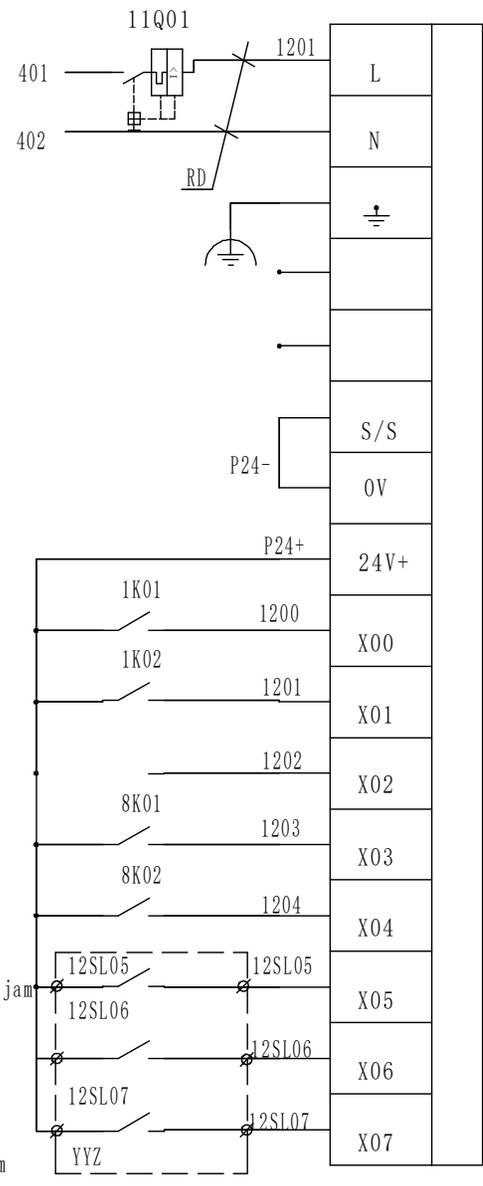


注：未标注线径按1mm²配线, BU
 Not mark wire's diameter are all the 1mm², BU
 未标注的元素在控制柜(G3)中
 Not mark elements are all in the control cabinet(G3)

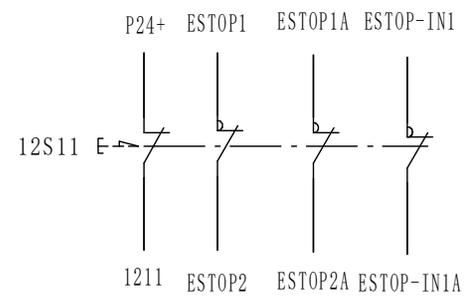
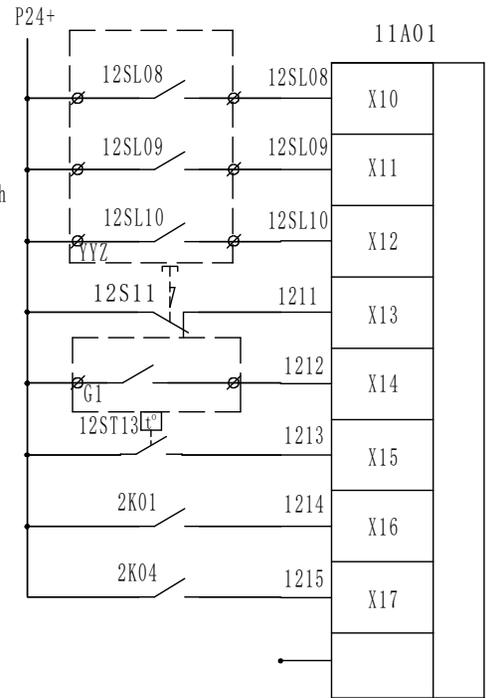
大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.		电气原理图 (PLC) Principle diagram of electric system	MBDYXM17	第 1/8 页 Page	
	批准/Ratify		校对/Check		审定/Confirm				共 8 页 Total	总第 11 页 Sheet
			审核/Appr.		日期/Date	2025.3				

A
B
C
D
E
F

A
B
C
D
E
F



液压站油位低
Hydraulic oil level low
液压站油温高
Hydraulic oil TEMP. high
蓄能器压力低
Accumulate pressure low
急停
E-stop
急停
E-stop
温度高
TEMP. high
风机运行1
Servo blower run1
风机运行2
Servo blower run2

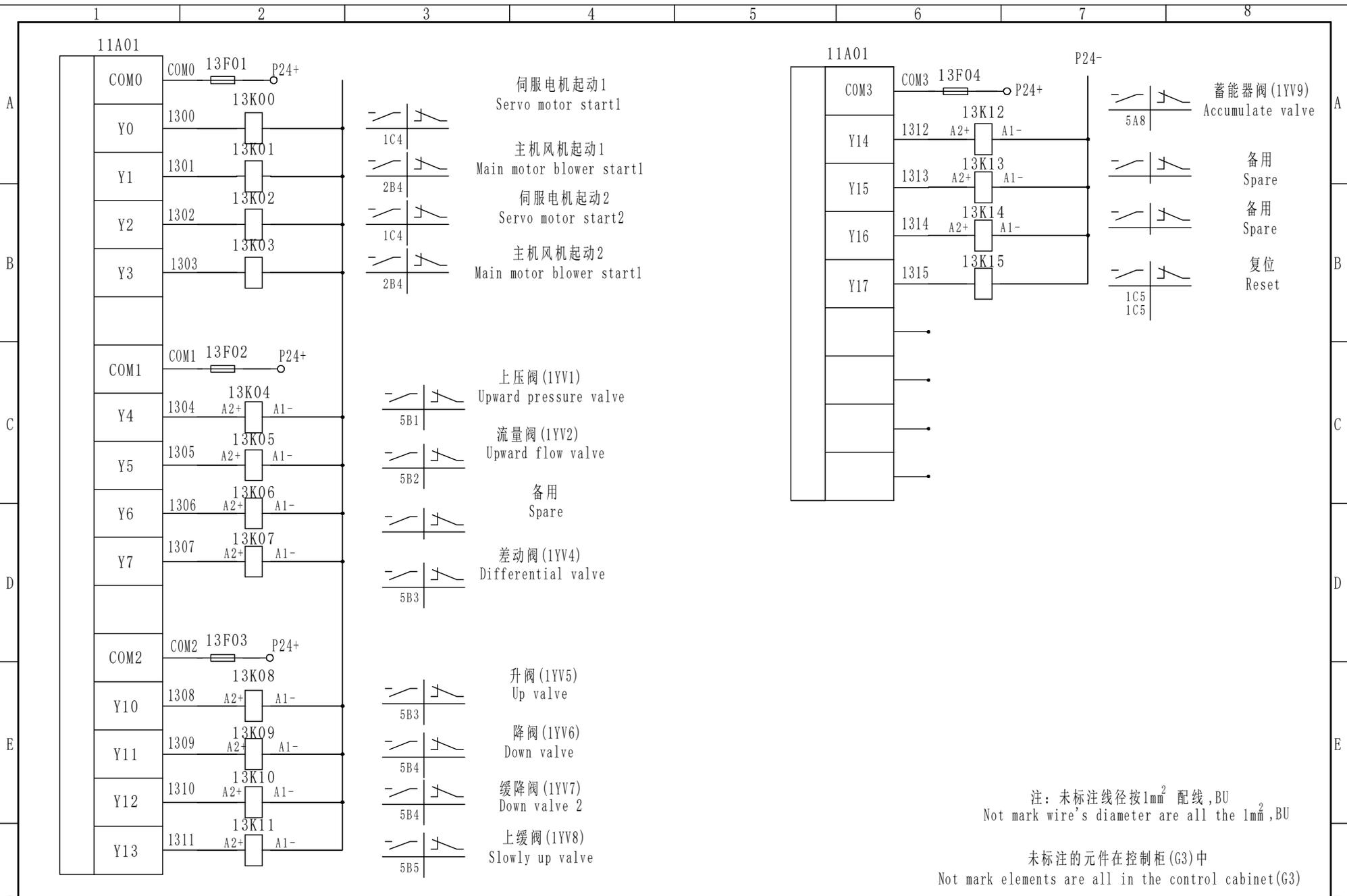


注：未标注线径按1mm² 配线, BU
Not mark wire's diameter are all the 1mm², BU

未标注的元件在控制柜(G3)中
Not mark elements are all in the control cabinet(G3)

大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify	设计/Design	标审/Std.	2025.3
	批准/Ratify	校对/Check	审定/Confirm	
		审核/Appr.	日期/Date	

电气原理图		MBDYXM17
Principle diagram of electric system		



注：未标注线径按1mm²配线,BU
 Not mark wire's diameter are all the 1mm²,BU

未标注的元件在控制柜(G3)中
 Not mark elements are all in the control cabinet(G3)

大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify	设计/Design	标审/Std.	电气原理图 (PLC) Principle diagram of electric system	MBDYXM17	第 3/8 页 Page	
	批准/Ratify	校对/Check	审定/Confirm			共 8 页 Total	总第 13 页 Sheet
		审核/Appr.	日期/Date			2025.3	

A

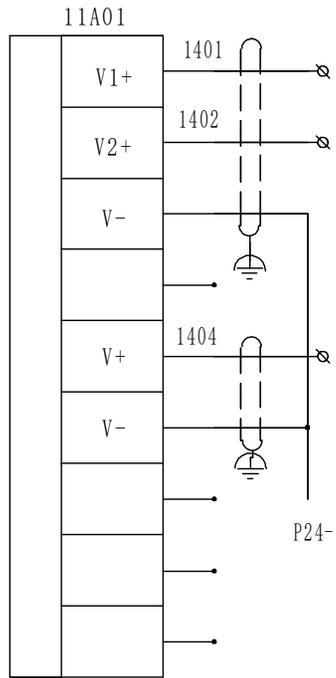
B

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D

E

F



备用 (AI)
Spare

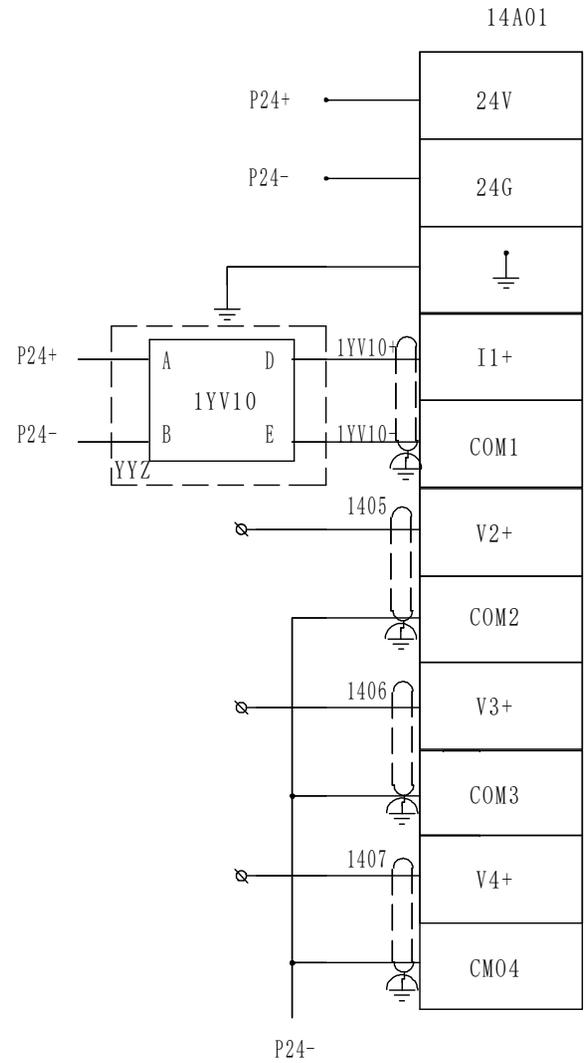
备用 (AO)
Spare

安全阀 (1YV10)
Safety valve

备用 (AO)
Spare

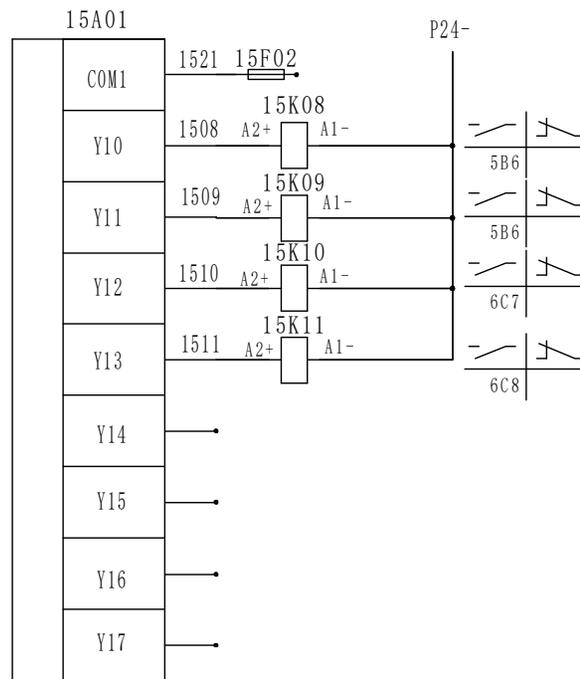
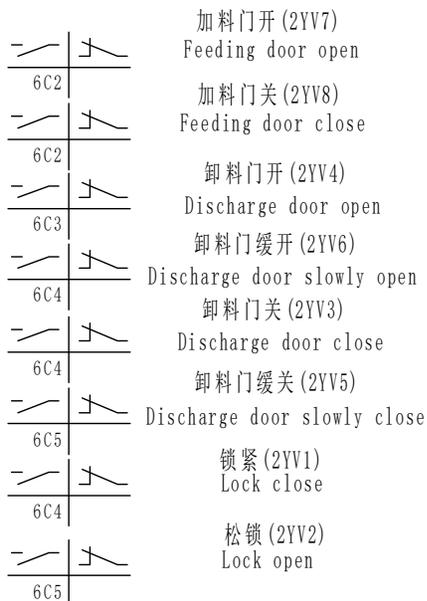
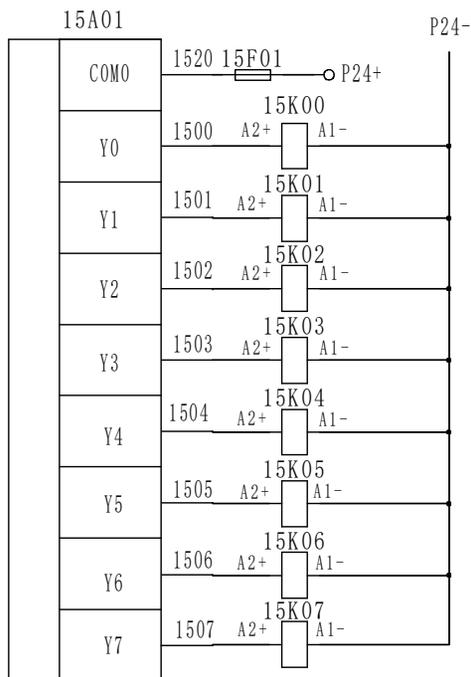
备用 (AO)
Spare

备用 (AO)
Spare



注: 未标注线径按 1mm^2 配线, BU
Not mark wire's diameter are all the 1mm^2 , BU
未标注的元件在控制柜 (G3) 中
Not mark elements are all in the control cabinet (G3)

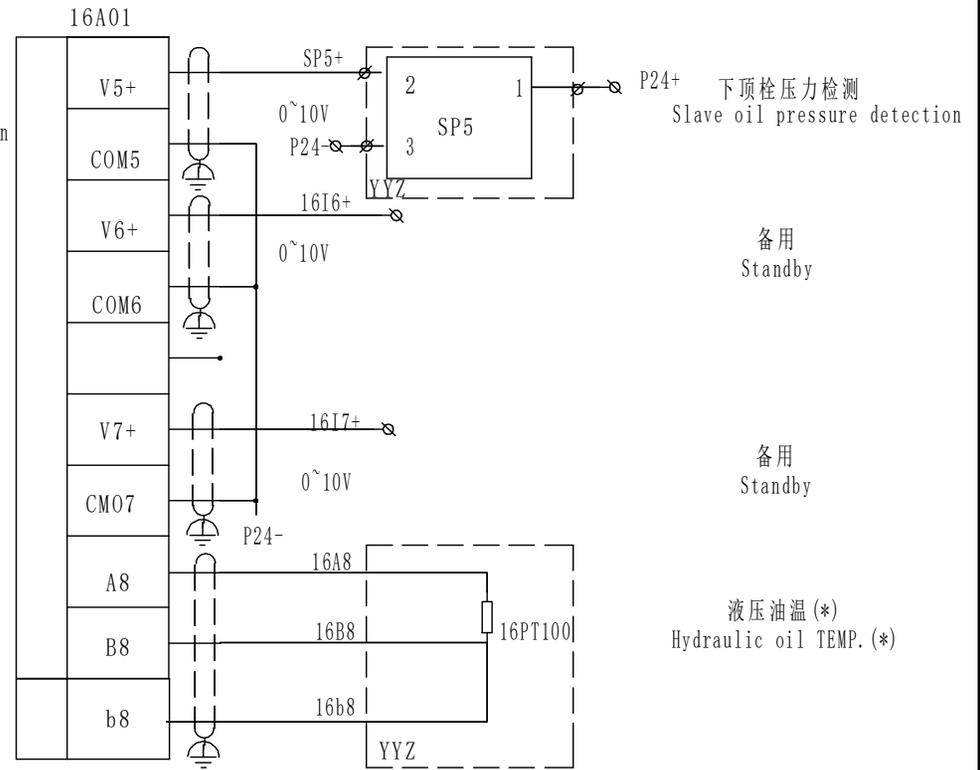
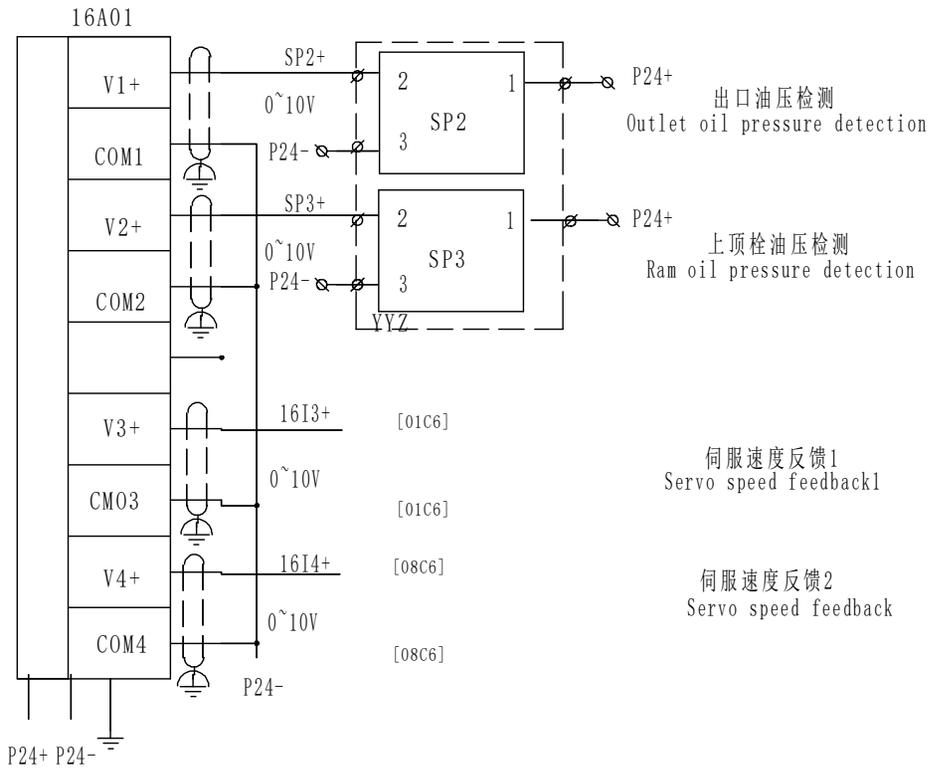
大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.		电气原理图 (PLC) Principle diagram of electric system	MBDYXM17	第 4/8 页 Page	
	批准/Ratify		校对/Check		审定/Confirm				共 8 页 Total	总第 14 页 Sheet
			审核/Appr.		日期/Date	2025.3				



注：未标注线径按1mm²配线，BU
Not mark wire's diameter are all the 1mm², BU

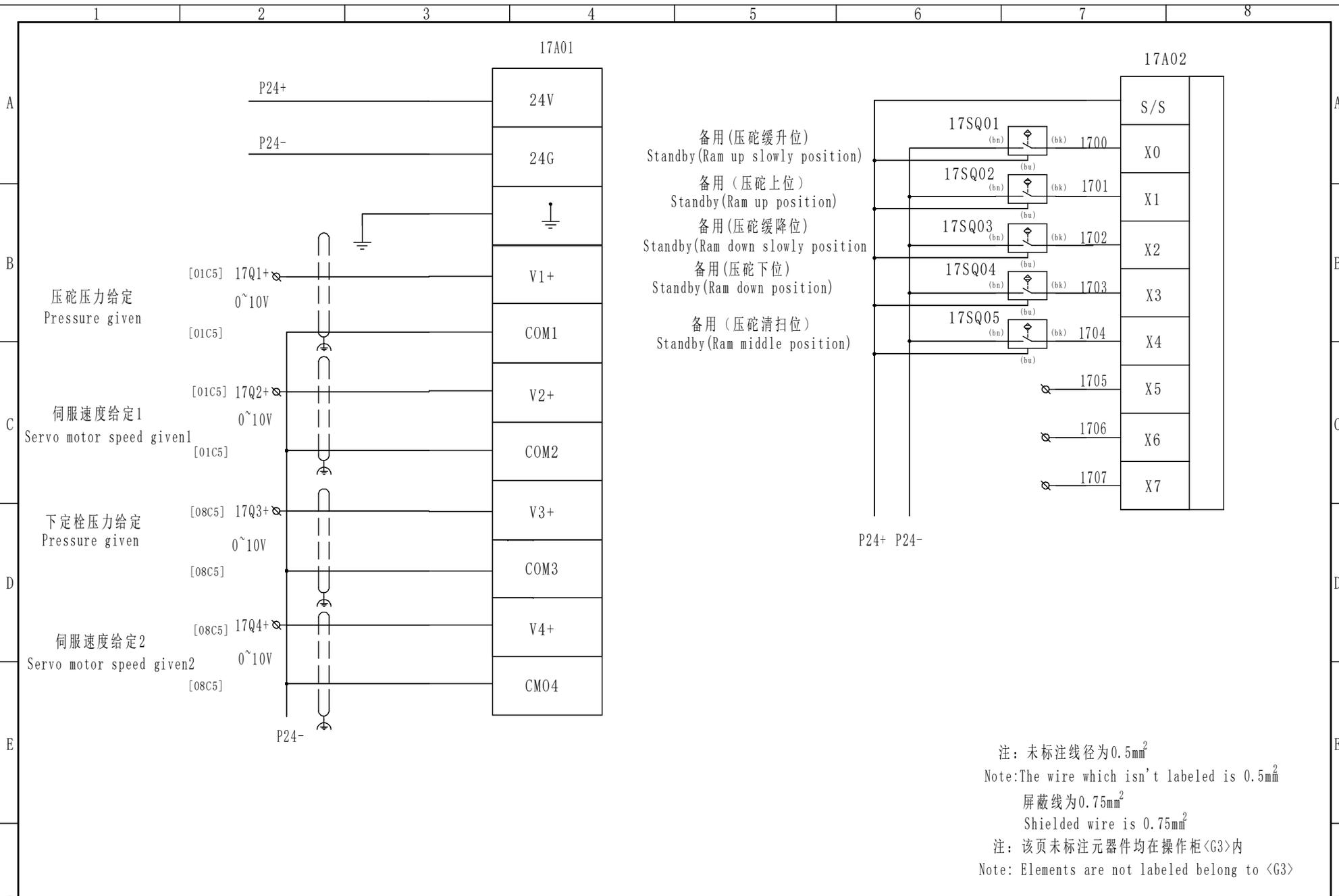
未标注的元件在控制柜(G3)中
Not mark elements are all in the control cabinet(G3)

大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.		电气原理图 (PLC) Principle diagram of electric system	MBDYXM17	第 5/8 页 Page	
	批准/Ratify		校对/Check		审定/Confirm				共 8 页 Total	总第 15 页 Sheet
			审核/Appr.		日期/Date	2025.3				



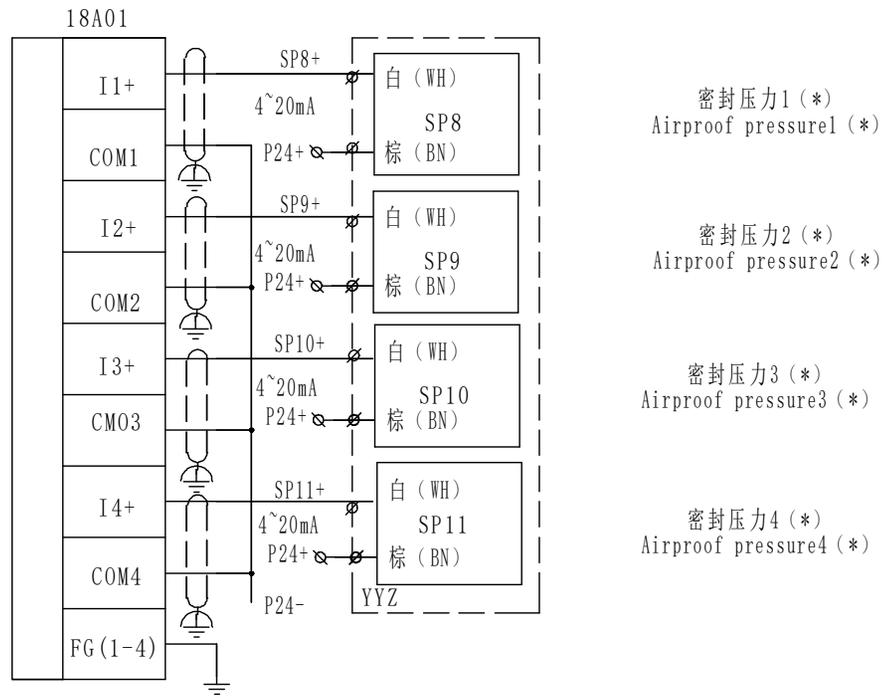
注：标*号是否有以实物为准²
 Note: The existence of the * number² is subject to the physical object.²
 注：未标注线径为0.5mm²
 Note: The wire which isn't labeled is 0.5mm²
 屏蔽线为0.75mm²
 Shielded wire is 0.75mm²
 注：该页未标注元器件均在操作柜<G3>内
 Note: Elements are not labeled belong to <G3>

大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.		电气原理图 (PLC) Principle diagram of electric system	MBDYXM17	第 6/8 页	
	批准/Ratify		校对/Check		审定/Confirm				共 8 页	总第 16 页
			审核/Appr.		日期/Date	2025.3			Total	Sheet



注: 未标注线径为0.5mm²
 Note: The wire which isn't labeled is 0.5mm²
 屏蔽线为0.75mm²
 Shielded wire is 0.75mm²
 注: 该页未标注元器件均在操作柜<G3>内
 Note: Elements are not labeled belong to <G3>

大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.		电气原理图 (PLC) Principle diagram of electric system	MBDYXM17	第 7/8 页 Page	
	批准/Ratify		校对/Check		审定/Confirm				共 8 页 Total	总第 17 页 Sheet
			审核/Appr.		日期/Date	2025.3				



注：标*号是否有以实物为准²
 Note: The existence of the * number² is subject to the physical object.²

注：未标注线径为0.5mm²
 Note: The wire which isn't labeled is 0.5mm²

屏蔽线为0.75mm²
 Shielded wire is 0.75mm²

注：该页未标注元器件均在操作柜<XS2>内
 Note: Elements are not labeled belong to <XS2>

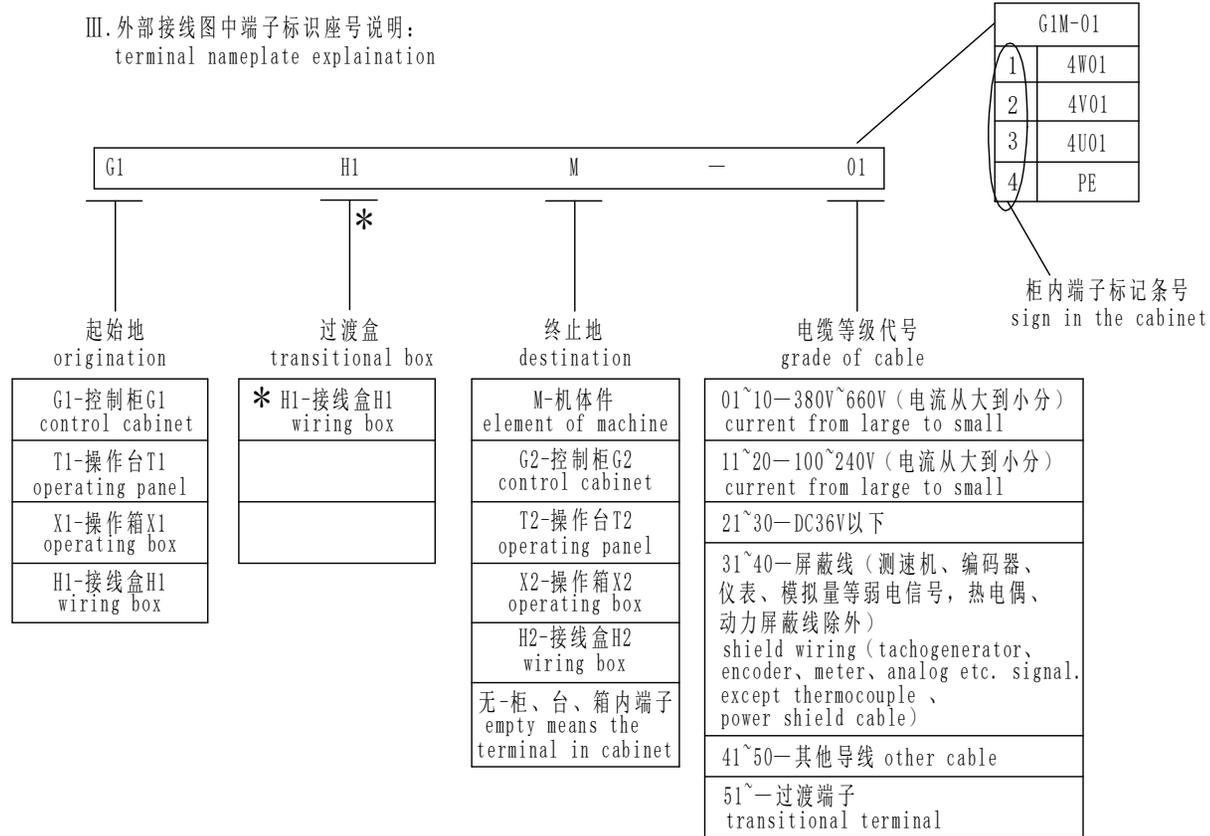
大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.		电气原理图 (PLC) Principle diagram of electric system	MBDYXM17	第 8/8 页	共 8 页 总第 16 页 Total Sheet
	批准/Ratify		校对/Check		审定/Confirm				Page	
			审核/Appr.		日期/Date	2025.3			Total	

1	2	3	4	5	6	7	8
序号	符号 Mark	型号或代号 Model	名称 Name	技术规格 Specification	数量 Q'ty	备注 Remark	
1	1U01	IS580T080-R1C1	伺服驱动器/Driver		1		
2							
3		S58-P10-30	编码器线/Cable		1		
4							
5	1Q01	EZD160E3160N	断路器/Breaker		1		
6	1K01 1K02 8K01 8K02	RXG23BD+RGZE1S48M	继电器/Relay	DC24V	4		
7	2H01	XB2BVM1LC	指示灯/Pilot lamp	AC220V 白色(WH)	1		
8	2K01 2K04	LC1-D09M7C	交流接触器/AC Contactor	AC220V	2		
9	3Q01	OSMC32N2D6	断路器/Breaker	6A	1		
10	3SX01	YBLXW-6/11CDL	微动开关/Limit switch		1		
11	3E01	ZPT4-20W	日光灯/Daylight lamp	AC220V	1		
12	3A01	EC15HDNC1G	空调/Contioner	1.5kW	1		
13	3Q02	OSMC32N1C10	断路器/Breaker	10A	1		
14	3SL01		插座/Outlet	3相两用/Three-phase dual-use	1		
15	3Q03	OSMC32N2D10	断路器/Breaker	10A	1		
16	4Q01	OSMC32N3D6	断路器/Breaker	6A	1		
17	4T01	GDK-1KVAAC380/220	变压器/Transfomer	1000VA AC380V/220V	1		
18	4F01	RT18-32X/10	熔断器/Breaker	10A	1		
19	4A01	MQR240-24C	稳压电源/Switching power supply	10A DC24V	1		
20	4Q02	OSMC32N2C2	断路器/Breaker	2A	1		
21	7Q01 7Q04	OSMC32N2D2+OF	断路器/Breaker	2A	2		
22							
23	8Q01	EZD100E375N	断路器/Breaker		1		
24	8U01	IS580T050-R1C1	伺服驱动器/Driver		1		
25							
26		S58-P10-30	编码器线/Cable		1		
27	13F01-13F04 15F01 15F02	RT18-32X/2	熔断器/Breaker	2A	6		
28	11Q01	OSMC32N1C3	断路器/Breaker	3A	1		
29	11A01	FX5U-32MR/ES	CPU		1		
30	11A02	GS2107-WTBD	触摸屏/HMI	7英寸 DC24V	1		
31			接头头/Enthernet connector		4		

大连橡胶塑料机械股份有限公司 DALIAN RUBBER & PLASTICS MACHINERY CO., LTD.	修改/Modify		设计/Design		标审/Std.	电气原理图明细 List of electric system	MBDYXM17	第 1/2 页	
	批准/Ratify		校对/Check		审定/Confirm			共 2 页	总第 1 页
			审核/Appr.		日期/Date			2025.3	Total

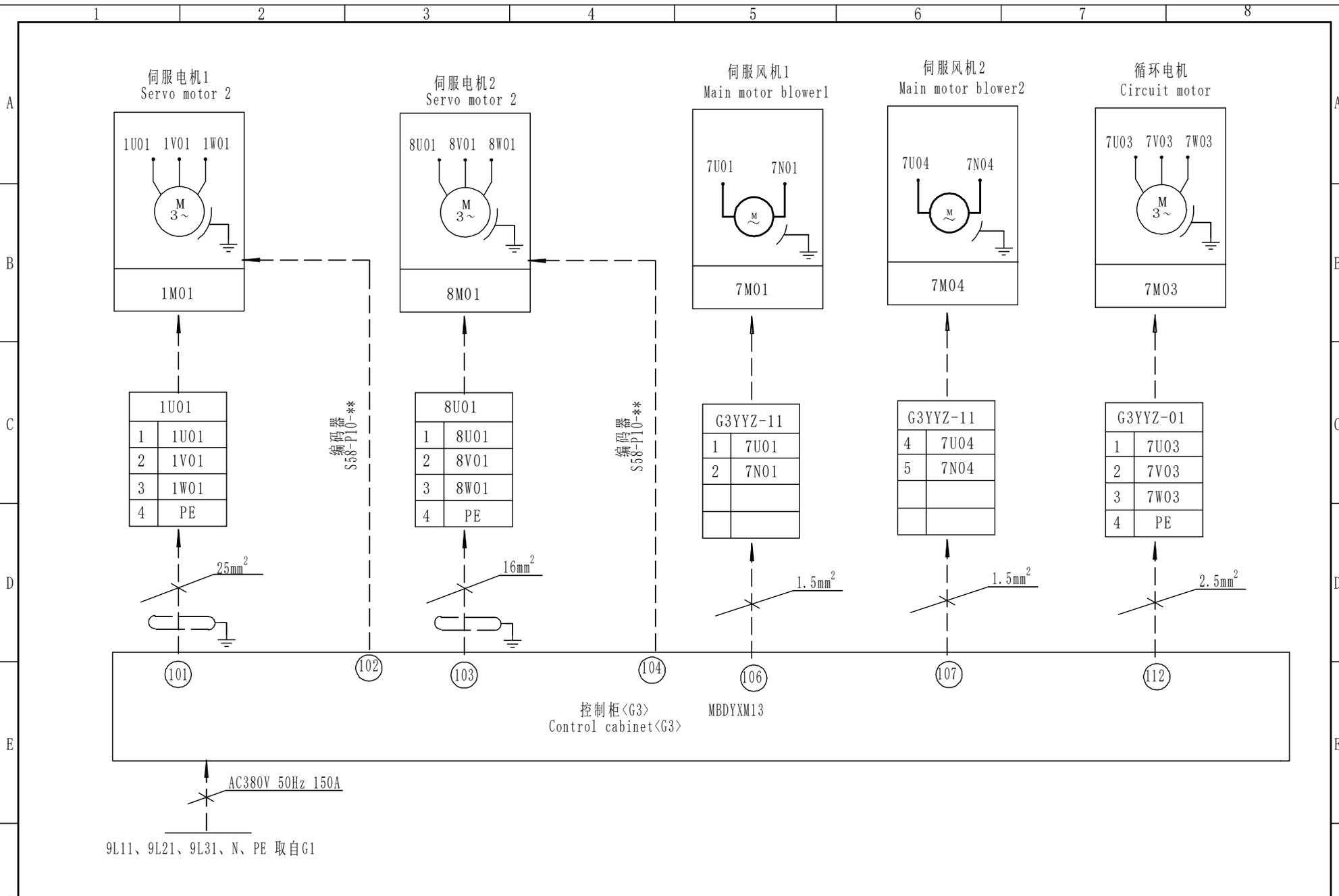
	1	2	3	4	5	6	7	8		
A	<p>I. 外部接线图说明： The explanation of wiring:</p> <p>1. 未标注线径按10A，电机接线推荐最小线径为1.5mm² The diameter isn't marked could be 10A, recommend wiring diameter of motor is at least 1.5mm²</p> <p>2. 图中虚线为用户自备线 The broken line in these diagrams are prepared by customer.</p> <p>3. 外接线仅供参考 The wiring is only for reference</p>									
B										
C	<p>II. 配线注意： Wiring attention:</p> <p>1. 每台电机、控制柜、台、箱内必须保证可靠接地。 Each motor, control cabinet, operation table and box must be ensured the earthing.</p>									
D	<p>2. 信号电缆和动力电缆必须相互分开布线(避免耦合干扰)，至少应保持20cm 的间距。 信号电缆包括：模拟信号电缆和通讯电缆。 The signal cable and power cable must be divided (to avoid coupling interfere). They must keep their distance at least 20cm .The signal cable include:analog signal cable and communication cable.</p>									
E	<p>3. 热电偶配线需用屏蔽补偿导线，建议用户直接接入操作盘仪表上，不中断。 The wiring of thermocouple must use shield compensation, recommend userconnect it to meter directly, don't interrupt.</p> <p>4. 网线使用超五类双屏蔽网线,网络水晶头使用超五类屏蔽水晶头。 Internet cable use twist-pair shield cable,crystal head use metal shield crystal head.</p>									
F	<p>5. 通讯电缆需选用专用的网络通讯电缆。 Communication cable must use special cable.</p> <p>6. 配线完毕，需保持原控制柜、操作台、操作箱、电机、接线盒等的防护等级。 After the wiring finished, the user must hold defend grade of control cabinet,operating panel, operating box, motor and wiring box.</p>									
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	1	2	3	4	5	6	7	8		

III. 外部接线图中端子标识座号说明:
terminal nameplate explanation

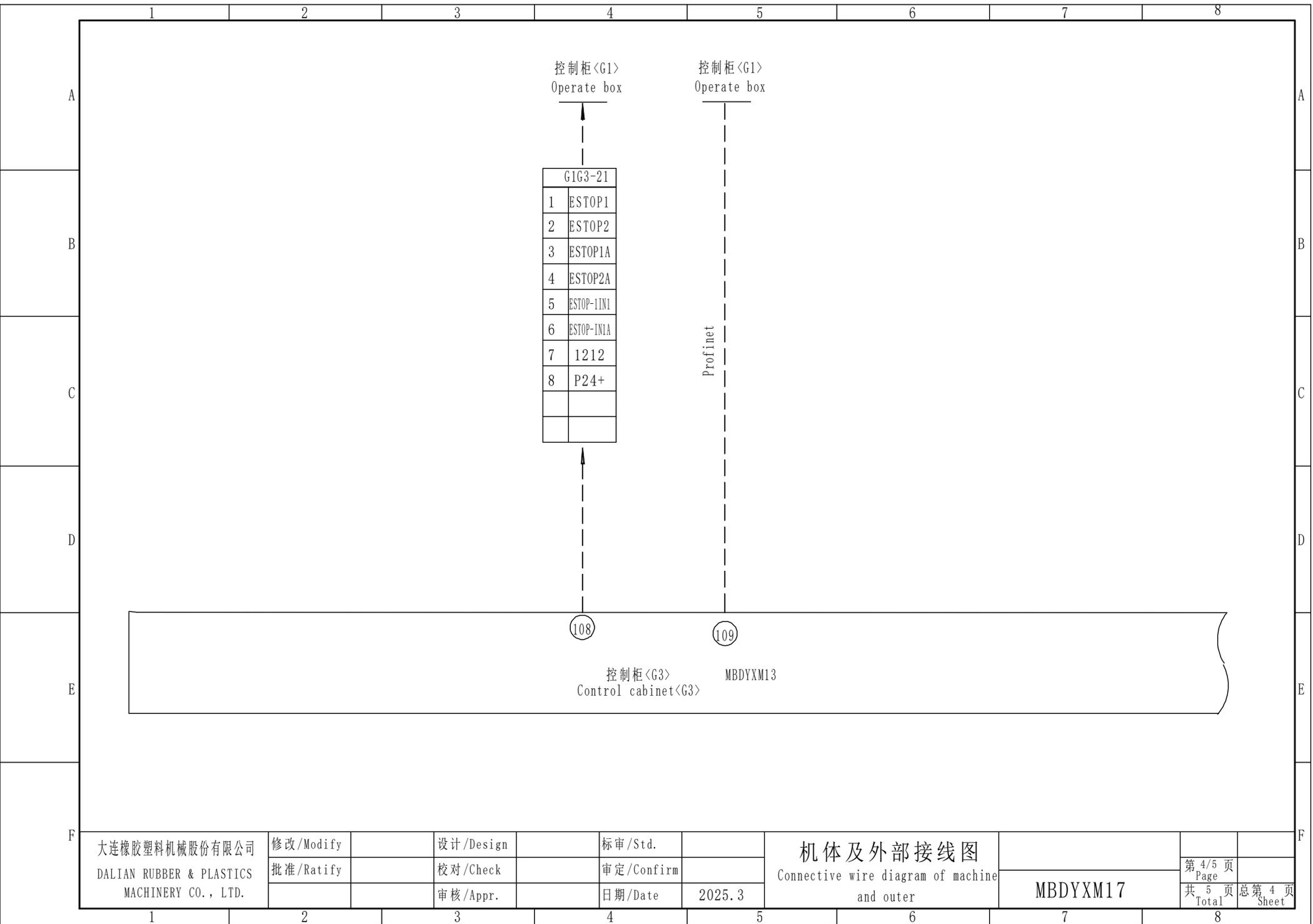


* 通常此部分没有, 特殊情况有过渡接线盒时增加此过渡接线盒标识号。例如G1H1H5-21, H1即过渡接线盒。
This part with * mark isn't exist normally, except it has transitional box. Such as G1H1H5-21, H1 is transitional box.

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控制柜<G1>
Operate box

控制柜<G1>
Operate box

GIG3-21	
1	ESTOP1
2	ESTOP2
3	ESTOP1A
4	ESTOP2A
5	ESTOP-1IN1
6	ESTOP-IN1A
7	1212
8	P24+

Profinet

108

109

控制柜<G3>
Control cabinet<G3>

MBDYXM13

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机体及外部接线图
Connective wire diagram of machine
and outer

MBDYXM17

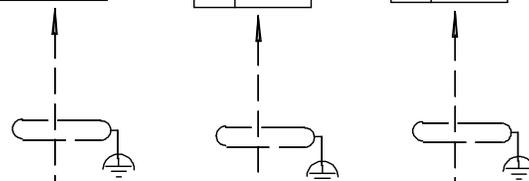
液压站<YYZ>
Operate box

G3YYZ-21				
1	1YV01	11	2YV07	21
2	1YV02	12	2YV08	22
3	1YV04	13	2YV09	23
4	1YV05	14	2YV10	24
5	1YV06	15	12SL05	25
6	1YV07	16	12SL06	26
7	1YV08	17	12SL07	27
8	1YV09	18	12SL08	28
9	2YV01	19	12SL09	29
10	2YV02	20	12SL10	

G3YYZ-31	
1	SP2+
2	SP3+
3	SP5+
4	
5	
6	
7	
8	
9	
10	

G3YYZ-32	
1	SP8+
2	SP9+
3	SP10+
4	SP11+
5	P24+
6	P24-
7	
8	
9	
10	

G3YYZ-33	
1	1YV10+
2	1YV10-
3	P24+
4	P24-
5	
6	
7	
8	
9	
10	



①10

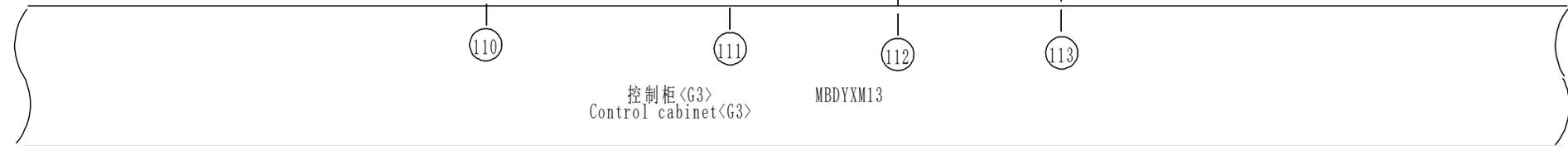
①11

①12

①13

控制柜<G3>
Control cabinet<G3>

MBDYXM13



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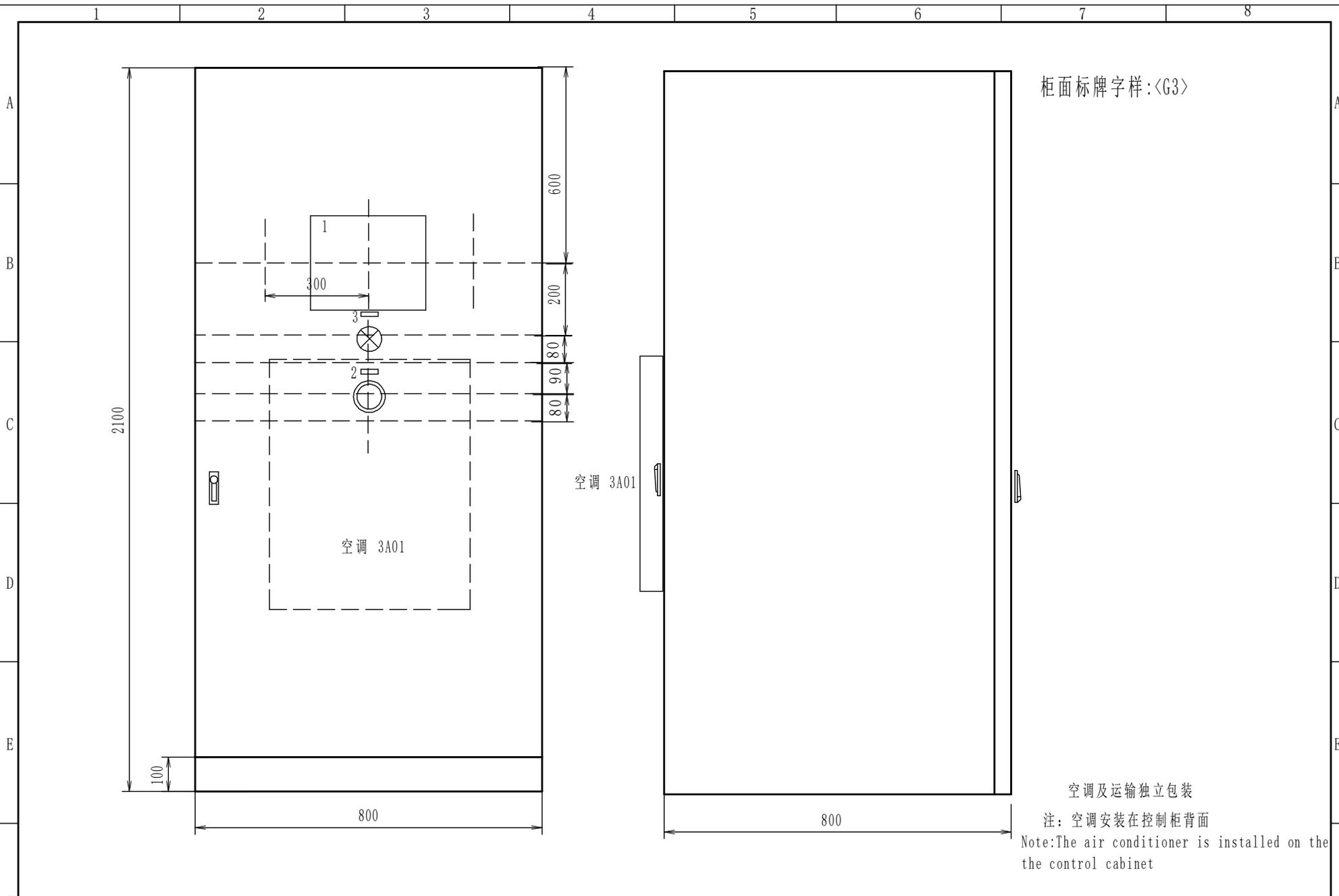
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机体及外部接线图
Connective wire diagram of machine
and outer

MBDYXM17

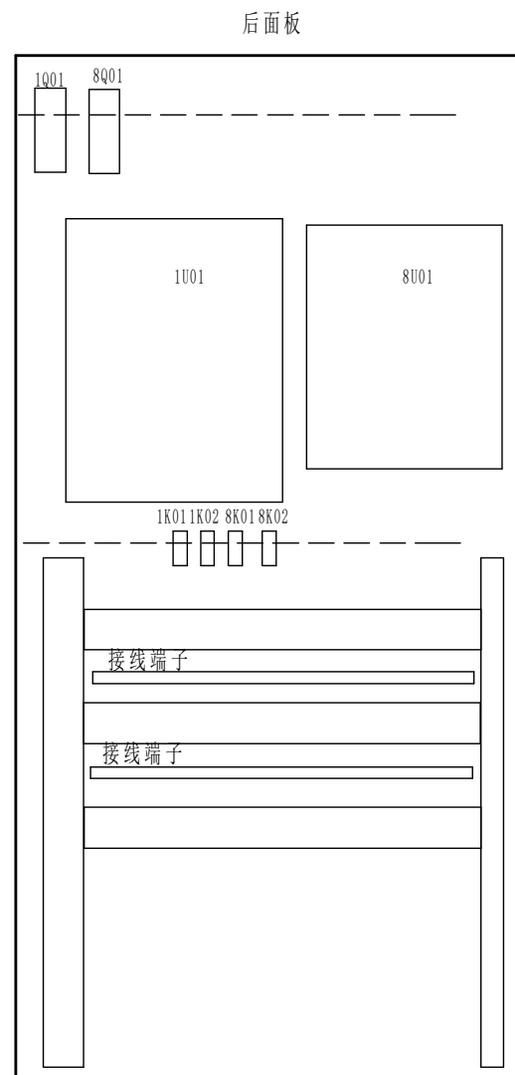
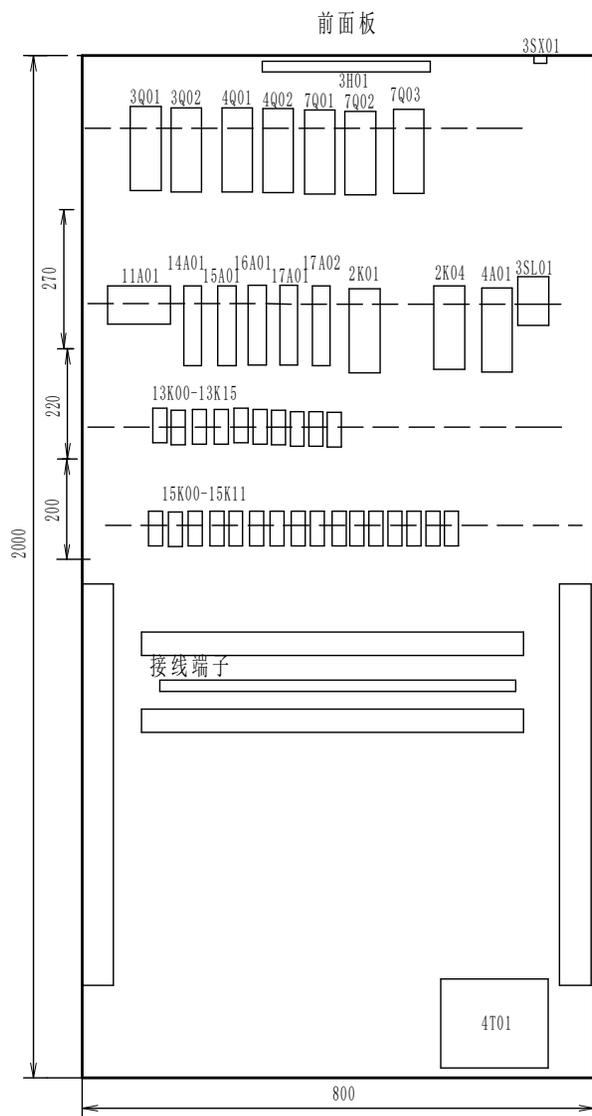
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Note: The air conditioner is installed on the the control cabinet

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注：柜内侧配可折叠电脑支架。
 注：柜内下端装有接地PE铜排,前后开门。
 注：电控柜配线时，应将以太网交换机固定在控制柜内，并且将PLC与交换机及触摸屏与交换机之间的以太网线配线完成。

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序号 No.	代号 Code	标牌字样 Nameplate	序号 No.	代号 Code	标牌字样 Nameplate
1	11A02	触摸屏 HMI	12		
2	12S11	急停 EMERGENCY STOP	13		
3	2H01	控制电源 CONTROL POWER	14		
4			15		
5			16		
6			17		
7			18		
8			19		
9			20		
10			21		
11			22		

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AC380V 150A

1	9L11
2	9L21
3	9L31
4	PE
5	N

G3YYZ-01 AC380V 10A

1	7U03
2	7V03
3	7W03
4	PE

G3YYZ-11 AC220V 10A

1	7U01
2	7N01
3	7U04
4	7N04

G3YYZ-21 DC24V 10A

1	1YV01	11	2YV07	21	
2	1YV02	12	2YV08	22	P24+
3	1YV04	13	2YV09	23	P24-
4	1YV05	14	2YV10	24	2YV03
5	1YV06	15	12SL05	25	2YV04
6	1YV07	16	12SL06	26	2YV05
7	1YV08	17	12SL07	27	2YV06
8	1YV09	18	12SL08	28	1YV11
9	2YV01	19	12SL09	29	1YV12
10	2YV02	20	12SL10		

G3YYZ-31 DC24V 10A

屏蔽线	
1	SP2+
2	SP3+
3	SP5+
4	16A8+
5	16B8+
6	16b8+
7	1YV10+
8	1YV10-
9	P24+
10	P24-

G3YYZ-32 DC24V 10A

屏蔽线	
1	SP8+
2	SP9+
3	SP10+
4	SP11+
5	P24+
6	P24-
7	
8	
9	
10	

G1G3-21 DC24V 10A

1	ESTOP1
2	ESTOP2
3	ESTOP1A
4	ESTOP2A
5	ESTOP-1N1
6	ESTOP-1N1A
7	1212
8	P24+

G3-21 DC24V 10A

1	1700
2	1701
3	1702
4	1703
5	1704
6	1705
7	1706
8	1707
9	
10	

G3-11 AC220V 10A

1	401
2	401
3	401
4	401
5	401
6	402
7	402
8	402
9	402
10	402

G3-21 DC24V 10A

1	P24+
2	P24+
3	P24+
4	P24+
5	P24+
6	P24+
7	P24+
8	P24+
9	P24+
10	P24+

11	P24+
12	P24+
13	P24+
14	P24+
15	P24+
16	P24-
17	P24-
18	P24-
19	P24-
20	P24-

31	P24-
32	P24-
33	P24-
34	P24-
35	P24-
36	P24-
37	P24-
38	P24-
39	P24-
40	P24-

G3-31 DC24V 10A

屏蔽线

1	16I3+	11	P24+
2	16I4+	12	P24-
3	16I6+	13	
4	16I7+	14	
5	1401	15	
6	1402	16	
7	1404	17	
8	1405	18	
9	1406	19	
10	1407	20	

本操作箱制作要求:防护等级IP54

箱内同号相连

端子条标识座号、端子标记条号必须和线号一一对应;

如有同一端子条分开在两排接线端子上,应在断开处增加此端子条标识座号。

动力线和控制线分槽走线,交流控制线与直流控制线尽量分开

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控制柜<G3>

Control cabinet <G3>

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