

A	B	C	D
1	2	3	8
4	5	6	7
B		C	

Panel A: Shows a top-level control panel with various electrical symbols and labels: K1-K6, Q1-Q3, F1-F3, S1-S2, and Q1.

Panel A Detail: Detailed internal circuit diagram for the components shown in Panel A.

Panel B: Shows a top-level control panel with components K1-K4, Q1-Q4, F1-F3, and S1-S2.

Panel B Detail: Detailed internal circuit diagram for the components shown in Panel B.

Panel C: Shows a top-level control panel with components X1-X2, X3-X4, and X5-X6.

Panel C Detail: Detailed internal circuit diagram for the components shown in Panel C.

Panel D: Shows a top-level control panel with components X1-X2, X3-X4, and X5-X6.

Panel D Detail: Detailed internal circuit diagram for the components shown in Panel D.

X1:

- 15 14 13 PE/12 11 10 PE 9 8 7 PE 6 5 4 PE 3 2 1 PE
- U1 V1 W1 PE U2 V2 W2 PE U3 V3 W3 PE U4 V4 W4 PE L1 L2 L3 PE
- Connect to power lines a
- Connect to drying heater
- Connect to discharging motor
- Connect to mixing motor
- Connect to drying blower

X2:

- 9 8 7 6 5 4 3 2 1 PE
- 4 3 2 2 4 8 17 18 2
- Connect to heating EGO
- Connect to material level motor
- Connect to alarm light
- Connect to negative pressure switch

X3:

- 2 1 PE
- 2 4 PE
- Connect to fan

D:

Mark	Before modification	After modification	Modified by	Modified date	Checked by	Approved by	Drawer	Version	Title	Electrical Components Layout	Drawing NO.	Scale	Page
									SCR-160U	SCR-160U-CE-400V-D-4	Standard	C	Totaly 6 Pages
											Voltage	400V	
											Frequency	50Hz	

D:

Ver.B	1	2	3	4	5	6	7	8

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Shini Plastics Technologies, Inc.**

1	2	3	4	5	6	7	8
No.	Symbol	Name	Manufacturer	Type	Specification	Number	Material number
1	Q1	Main power switch	MOELLER	P1-25/EA/SVB	25A	1	YE10125250000
2	Q2	Circuit breakers	TECO	BM-63C	25A	1	YE4002503000
A	3	Excitation release	CHINT	MX	230VAC	1	YE40023560000
4	Q3 Q4 Q5	Circuit breakers	TECO	BM-63C	6A	3	YE40030603000
5	K1	Contactors	SIEMENS	3RT6016-1AN21	230V 50/60Hz	1	YE00601621000
6	K2	Contactors	SIEMENS	3RT6016-1AN21	230V 50/60Hz	1	YE00601621000
7	K3	Contactors	SIEMENS	3RT6016-1AN21	230V 50/60Hz	1	YE00601621000
B	8	Contactors	SIEMENS	3RT6027-1AN20	230V 50/60Hz	1	YE00602722000
9	K5 K6	Temperature controller	OMRON	E5EZ	100-240V 50/60Hz	2	YE85005000000
10	K7 K8 K9	Middle relay	WEIDMULLER	DRM270730LT	230V 50/60Hz	3	YE03270700000
11	K10 K11	Timer relay	OMRON	H3BA-NBH	230VAC 0-300h	2	YE86300800000
12	F1	Thermo overload relay	SIEMENS	3RU6116-0BB0	1.4-2A	1	YE01160140000
13	F2	Thermo overload relay	SIEMENS	3RU6116-0JB0	0.7-1A	1	YE01160700000
14	F3	Thermo overload relay	SIEMENS	3RU6116-1AB0	1.1-1.6A	1	YE011611.10000
C	FU1	Fuse base	CHINT	RT18-32	2P	1	YE4032200000
16	Fuse core	CHINT	10x38 500V	2A		2	YE46002000100
17	FU2	Fuse**	YINDA	F5-10	2A	1	YE41001000000
18	T	Transformer*	BAIYUN	IN=400V OUT=230V	500mA	1	YE70402300800
19	PC	PCB	YUYUN	AA-01	230VAC 50/60Hz	1	YE8000100000
20	S1 S2	Alternative switch	REAB	T120-55	4P WH	2	YE10210400000
21	MS	Material level motor	SIPAI	SR-80-T	230VAC	1	YE15009200000
22	S4	Thermal protector	EGO	---	250V 5A	1	YE21503000000
23	S5	Negative pressure switch	---	---	---	1	---
24	S6 S7	Thermocouple	SHINI	---	K	2	---
25	FIM1	Fan	SUNON	DP200A	230V 50/60Hz	1	YM60121200400
Ver.B	Note:	* Means not part of control box. ** means possible broken parts. *** means easy broken parts. and spare backup is suggested.					
D			Drawer	Title	SCR-160U	Drawing No.	5
			Version	D	Electrical Components List 1	Standard CE	Totaly 6 Pages
Mark	Before modification	After modification	Approved by	Modified date	Date	Voltage	4.00V
				3	20150422	Frequency	50Hz
	1	2		4		7	8

Note: [1] Means not part of control box / means possible broken Dart. ** means easy broken Dart and spare Dart is suggested. Please confirm the version of manual

before it can be used in a circuit. It is also important to note that the current through a diode is proportional to the voltage across it.

Title			Drawing No.
			-
			-
			-
			-

سازمان اسناد و کتابخانه ملی
جمهوری اسلامی ایران

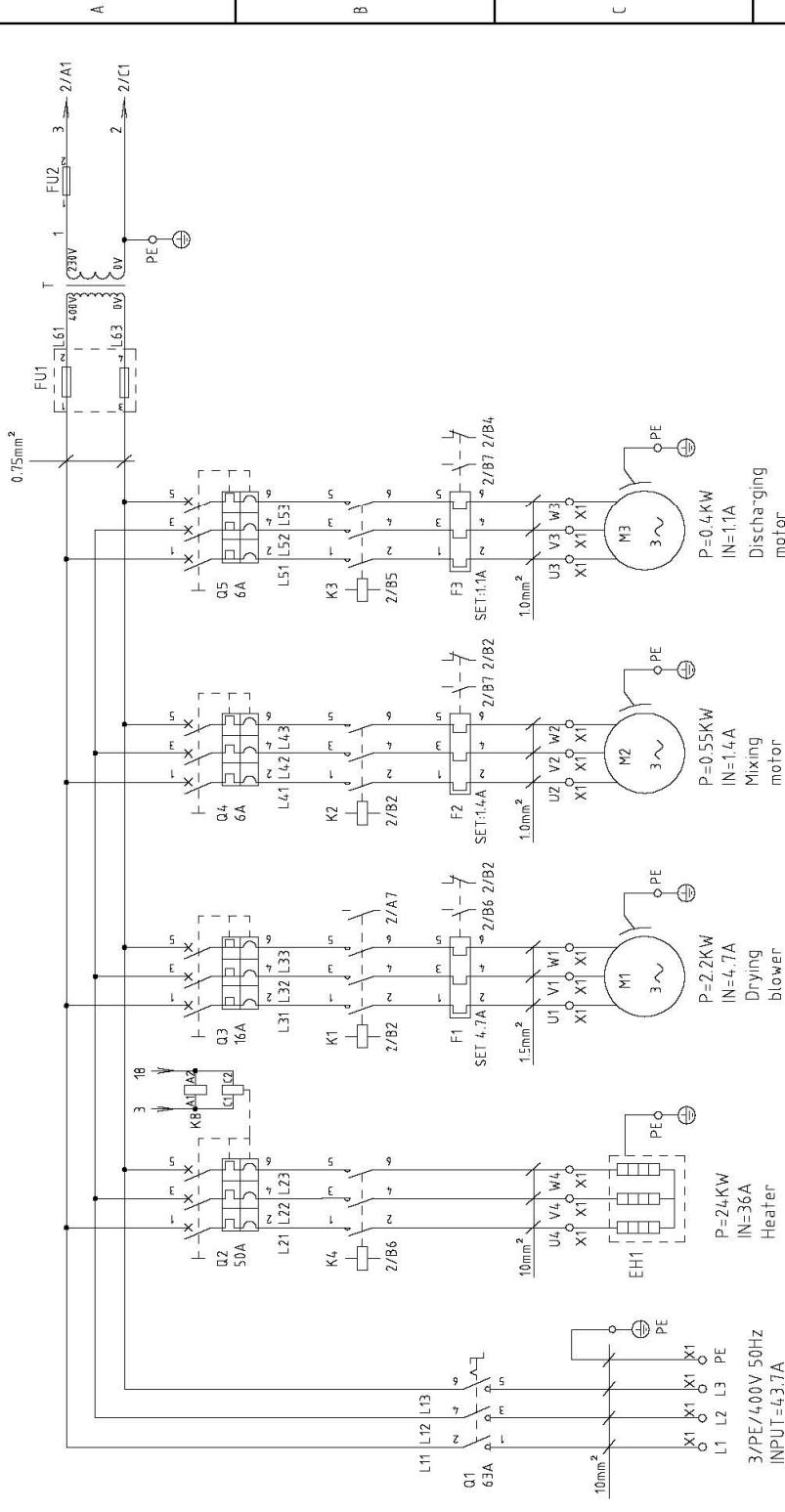
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Wavelength
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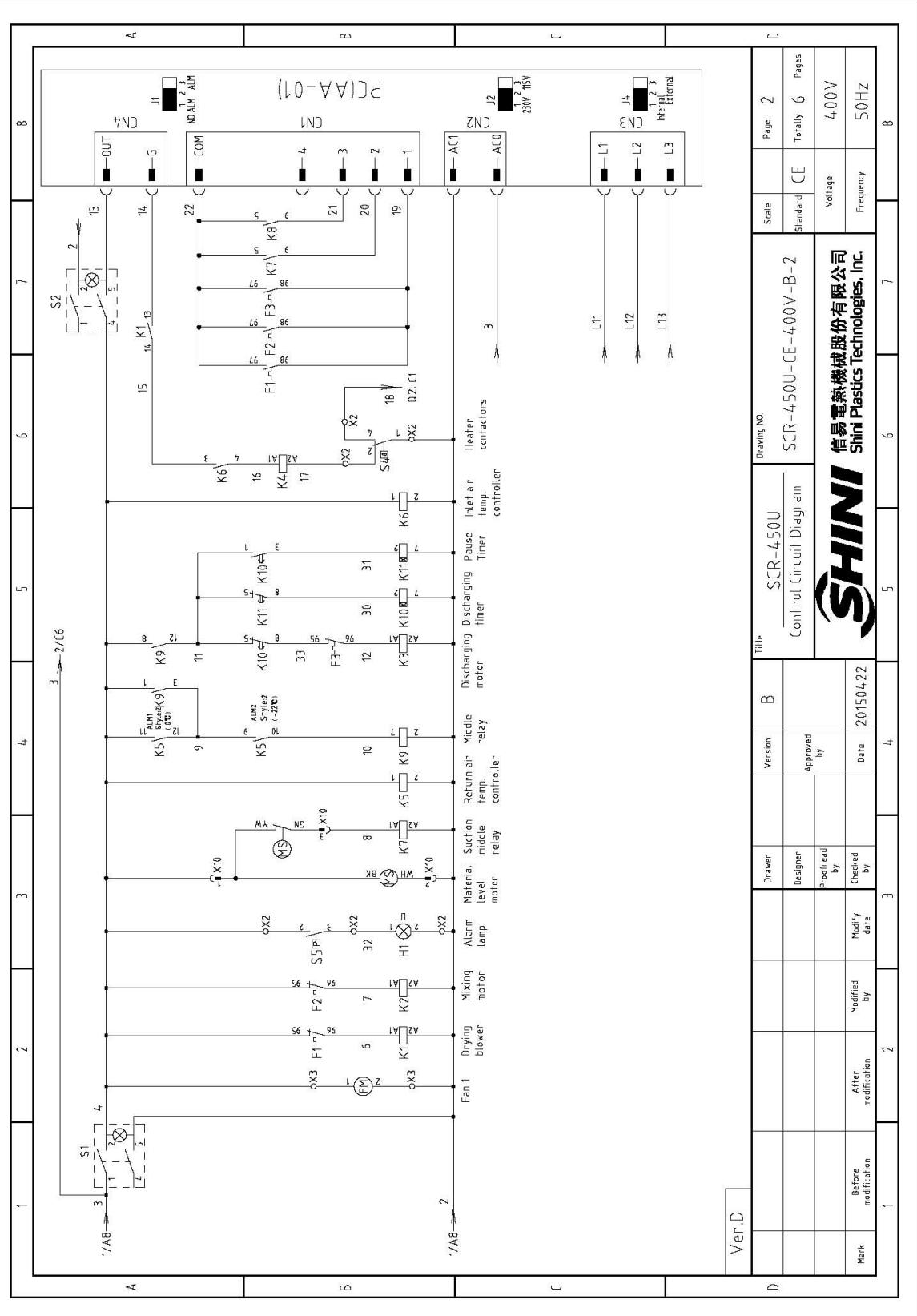
信易電氣機械股份有限公司
+VUV

50Hz **Frequency**
Siemens Technologies, Inc.

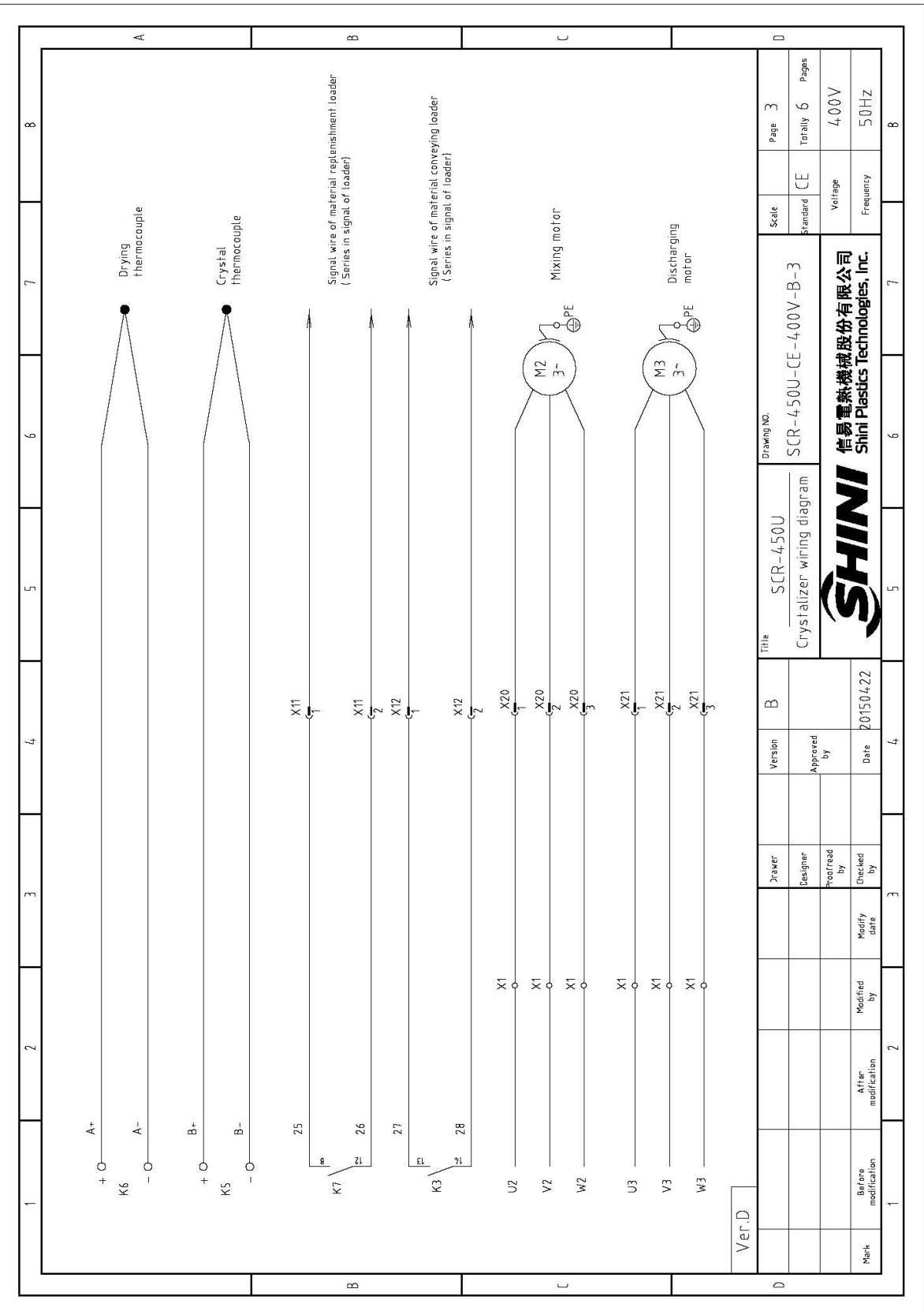
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7(33)



8(33)



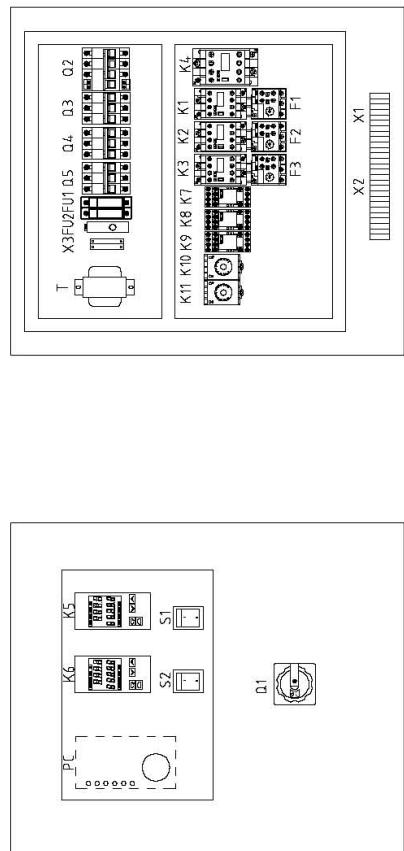
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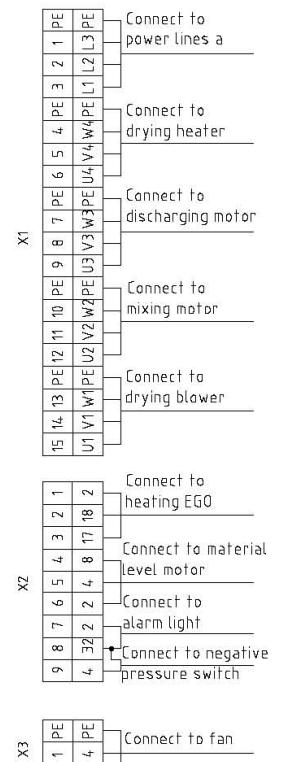
B

C

D



B



C

Ver.D

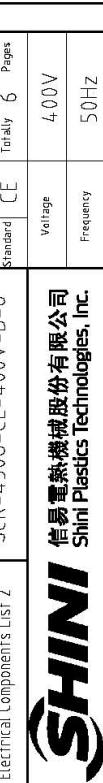
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								SCR-450U-CE-4.00V-B-4		Standard	CE	Totaly 6 Pages
										Voltage 4.00V		Frequency 50Hz
	1	2	3	4	5	6	7					8

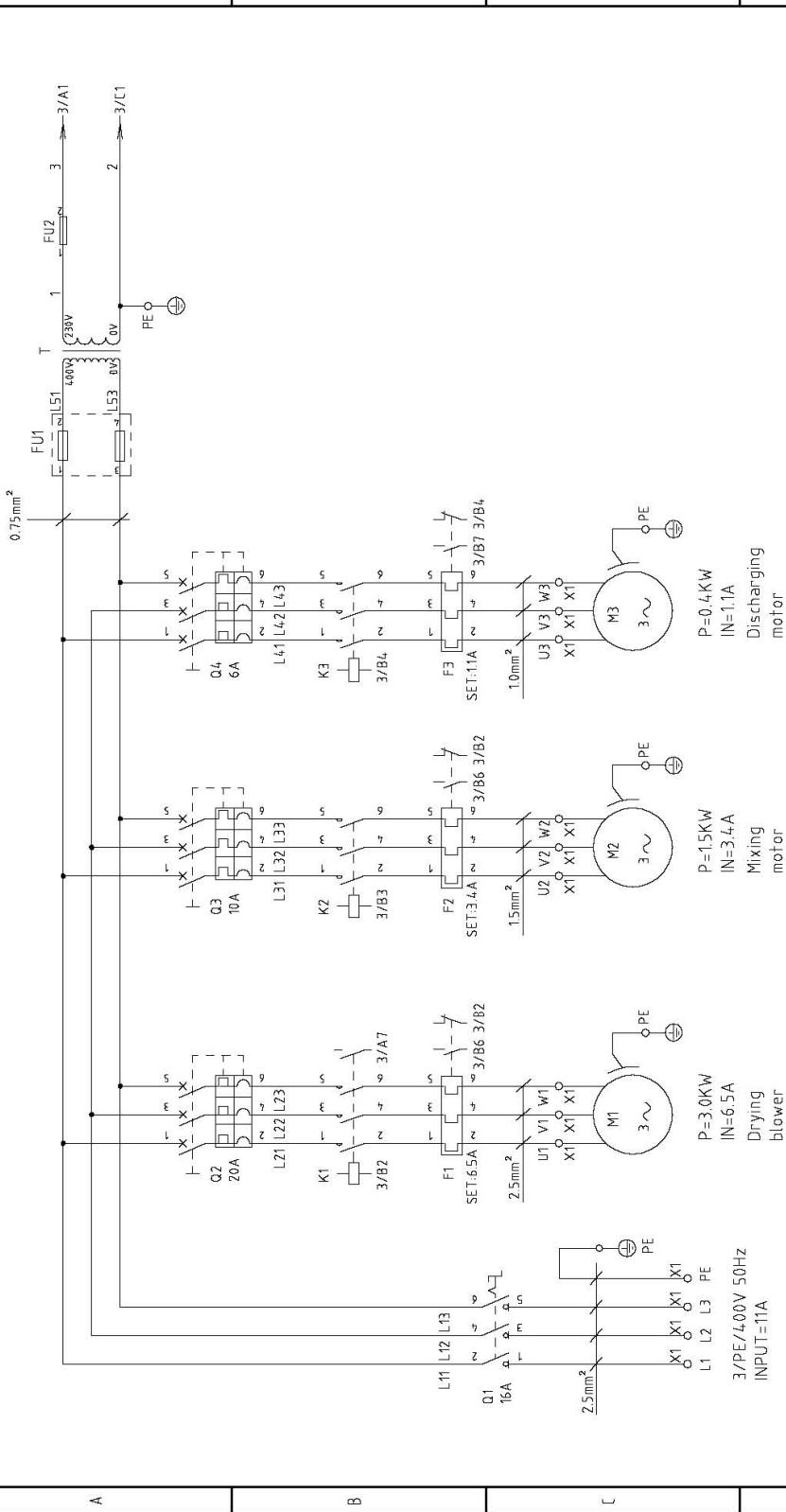
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No.	Symbol	Name	Manufacturer	Type	Specification	Number	Material number
1	Q1	Main power switch	MOELLER	P3-63/EA/SVB	63A	1	YE10636300000
2	Q2	Circuit breakers	TECO	BM-63C	50A	1	YE40305003000
A	3	Excitation release	CHINT	MX	230VAC	1	YE4023560000
4	Q3	Circuit breakers	TECO	BM-63C	16A	1	YE40301603000
5	Q4 Q5	Circuit breakers	TECO	BM-63C	6A	2	YE40300603000
6	K1 K2 K3	Contactors	SIEMENS	3RT6016-1AN21	230V 50/60Hz	3	YE005601621000
7	K4	Contactors	SIEMENS	3RT5036-1AN20	230V 50/60Hz	1	YE00503600000
B	8	K5 K6	Temperature controller	OMRON	E5EZ	100-240V 50/60Hz	2
9	K7 K8 K9	Middle relay	WEIDMULLER	DINR270/30LT	230V 50/60Hz	3	YE02270700000
10	K10 K11	Timer relay	OMRON	H3RA-N8H	230VAC 0-300h	2	YE86300800000
11	F1	Thermo overload relay	SIEMENS	3RU6116-1GB0	4,5-6.3A	1	YE01160450000
12	F2	Thermo overload relay	SIEMENS	3RU6116-1BB0	1.4-2.0A	1	YE01160140000
13	F3	Thermo overload relay	SIEMENS	3RU6116-1AB0	1.1-1.6A	1	YE01160110000
14	FU1	Fuse base	CHINT	RT18-32	2P	1	YE41032200000
15		Fuse core	CHINT	10x38 500V	2A	2	YE46002000100
16	FU2	Fuses*	YINDA	FS-10	2A	1	YE41001000000
17	T	Transformer*	BAIYUN	IN=400V OUT=230V	500mA	1	YE70402300800
18	PC	PCB	YUYUN	AA-01	230VAC 50/60Hz	1	YE80000100000
C	19	S1 S2	Alternative switch	REAB	4P WH	2	YE02021040000
20	MS	Material level motor	SIPAI	SR-80-T	230VAC	1	YE15000200000
21	S4	Thermal protector	EGO	----	250V 5A	1	YE21503000000
22	S5	Negative pressure switch	---	----	----	1	----
23	S6 S7	Thermocouple	SHINI	----	K	2	----
24	FMT	Fan	SUNON	DP200A	230V 50/60Hz	1	YM60121200400
25	H1	Pulse indicator	---	LED-3051	230VAC 50Hz	1	YE83305100200
Ver.D	Note:	{1} Means not part of control box. / * means possible broken parts. ** means easy broken part. and spare backup is suggested.					
D					SCR-450U Title Electrical Components List 1	Scale Standard CE	Page 5 Totally 6 Pages
					SCR-450U CE-400V-B-5		
Mark	Before modification	After modification	Modified by	Approved by	Date	20150422	Voltage 4.00V Frequency 50Hz
	1	2	3	4	5	6	7
							8

	1	2	3	4	5	6	7	8
No.	Symbol	Name	Manufacturer	Type	Specification	Number	Material number	Remark
26	X1	Terminal board	PHOENIX	10mm ²	76A	6	YE611000000000	
27				10mm ² PE		2	YE610350000000	
A 28		Terminal board	PHOENIX	2.5mm ²	41A	6	YE612500400000	
29				2.5mm ² PE		2	YE612350000000	
30		Terminal board	PHOENIX	2.5mm ²	32A	3	YE612500400000	
31				2.5mm ² PE		1	YE612350000000	
32	X2	Terminal board	PHOENIX	2.5mm ²	32A	9	YE612500400000	
B 33	X3	Terminal board	PHOENIX	2.5mm ²	32A	2	YE612350000000	
34				2.5mm ² PE		1	YE612350000000	
35	X10	Heavy duty connector	SIBAS	HDC-HE-04	400V 5A	1	YE680410000000/YE680410001000	{1}
36	X11 X12	Metal Tie in	---	DFE25-3	-----	2	YE68023300200	{1}
37	X20 X21	Waterproof connectors	CEE	RS-314	4,00V 16A	2	YE633141000000	{1}
38	M1	Blower	SHINI	-----	2.2kW 400V 50Hz	1	-----	{1}
39	M2	Motor	SHINI	-----	0.55kW 400V 50Hz	1	-----	{1}
40	M3	Motor	SHINI	-----	0.4kW 400V 50Hz	1	-----	{1}
41	EH1	Heater**	SHINI	-----	24kW 400V 50Hz	1	-----	{1}
C								
D	Ver.D	before placing the purchase order to guarantee that the item number of the spare part is in accordance with the real object	Drawer	Version	B	Title	Scale	Page
			Designer	Approved by		SCR-450U Electrical Components List 2	Standard CE	Totally 6 Pages
			Proofread by	Modified date	Date	SCR-450U-CE-400V-B-6		
Mark	Before modification	After modification			20150422	Voltage 4,00V	Frequency 50Hz	
	1	2	3	4	5	6	7	8

Note: {1} Means not part of control box / * means possible broken part, ** means easy broken part, and spare backup is suggested Please confirm the version of manual

D	Ver.D	before placing the purchase order to guarantee that the item number of the spare part is in accordance with the real object	Drawer	Version	B	Title	Scale	Page
			Designer	Approved by		SCR-450U Electrical Components List 2	Standard CE	Totally 6 Pages
			Proofread by	Modified date	Date	SCR-450U-CE-400V-B-6		
						Voltage 4,00V		
						Frequency 50Hz		
	1	2	3	4	5	6	7	8

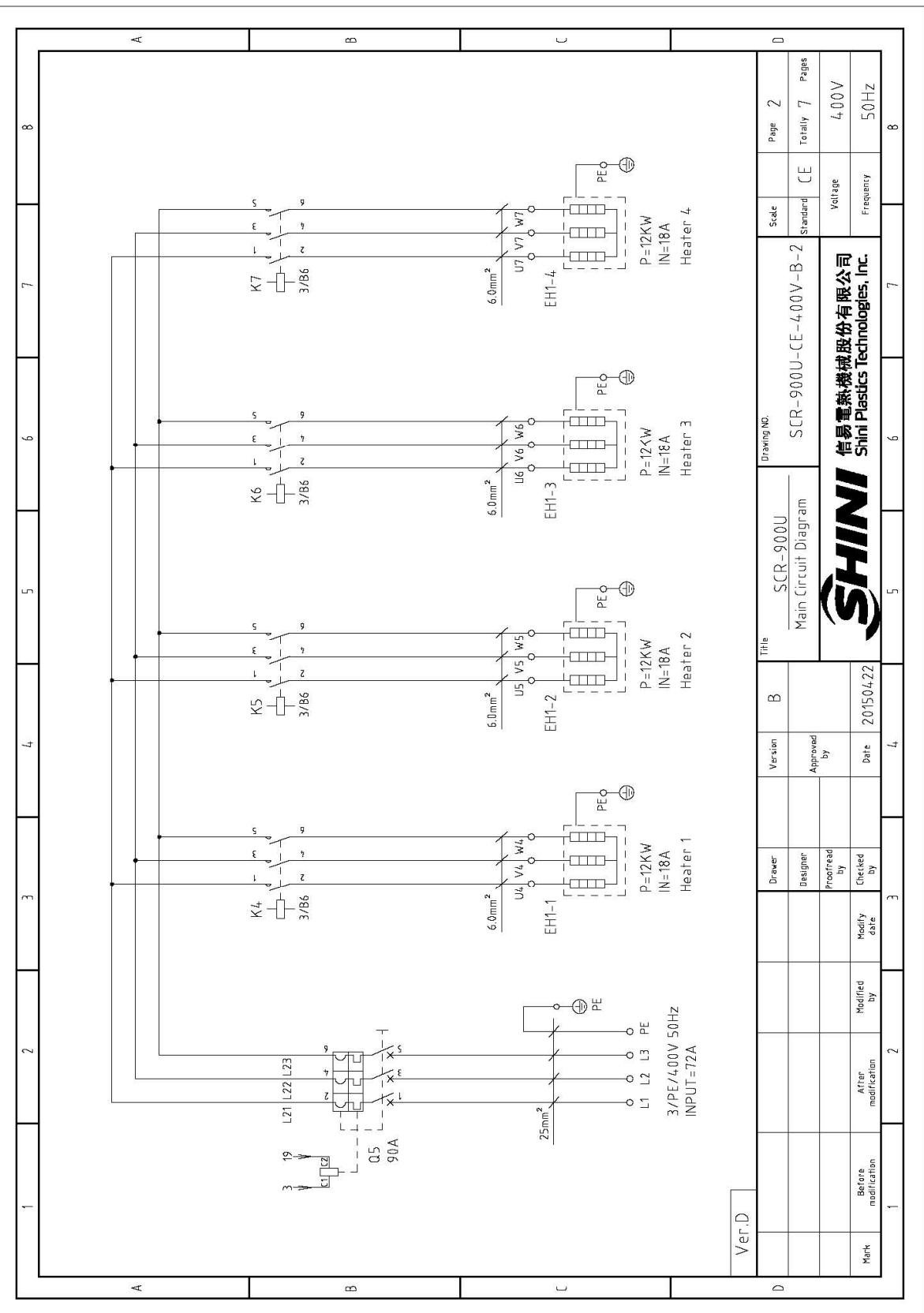


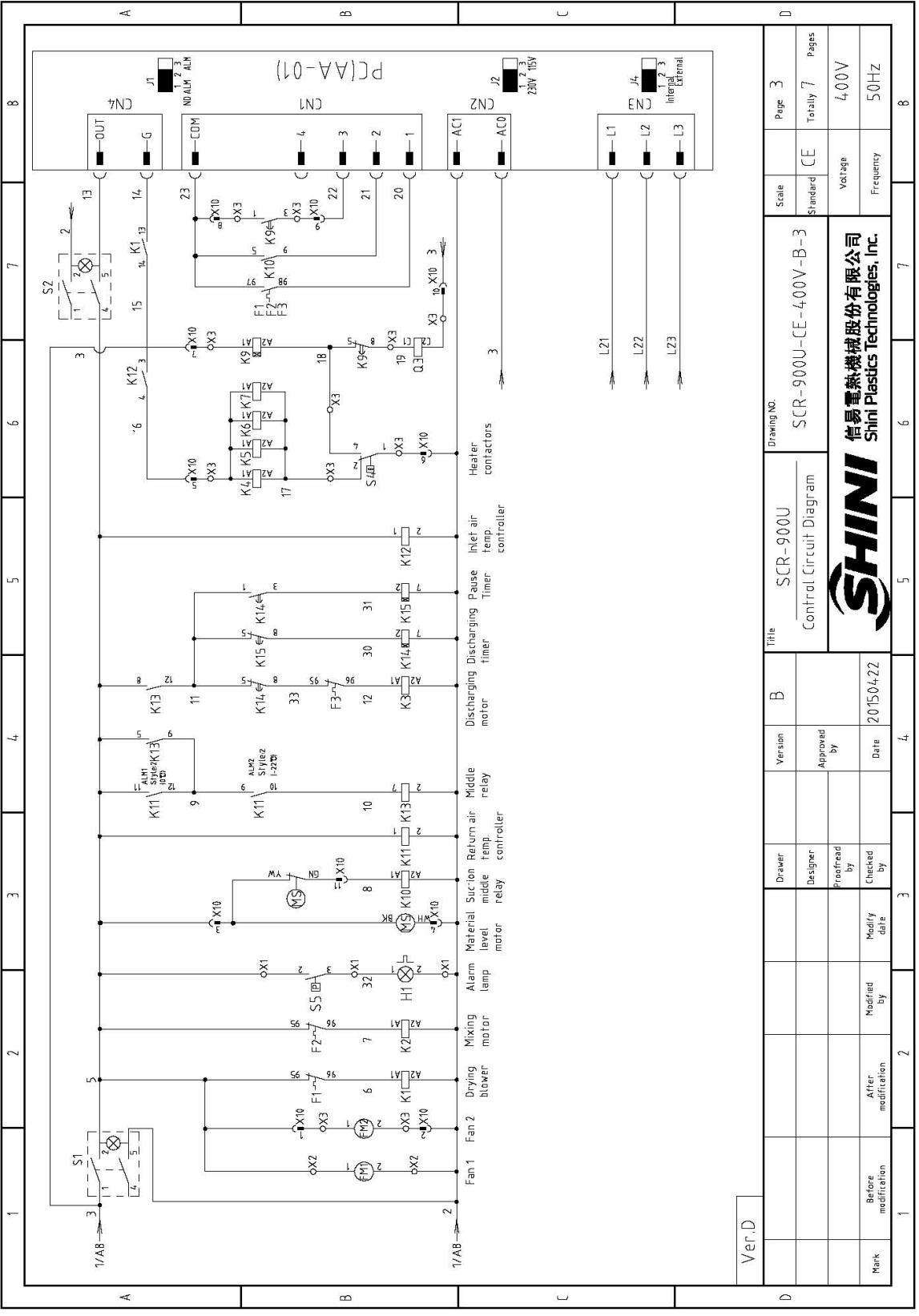


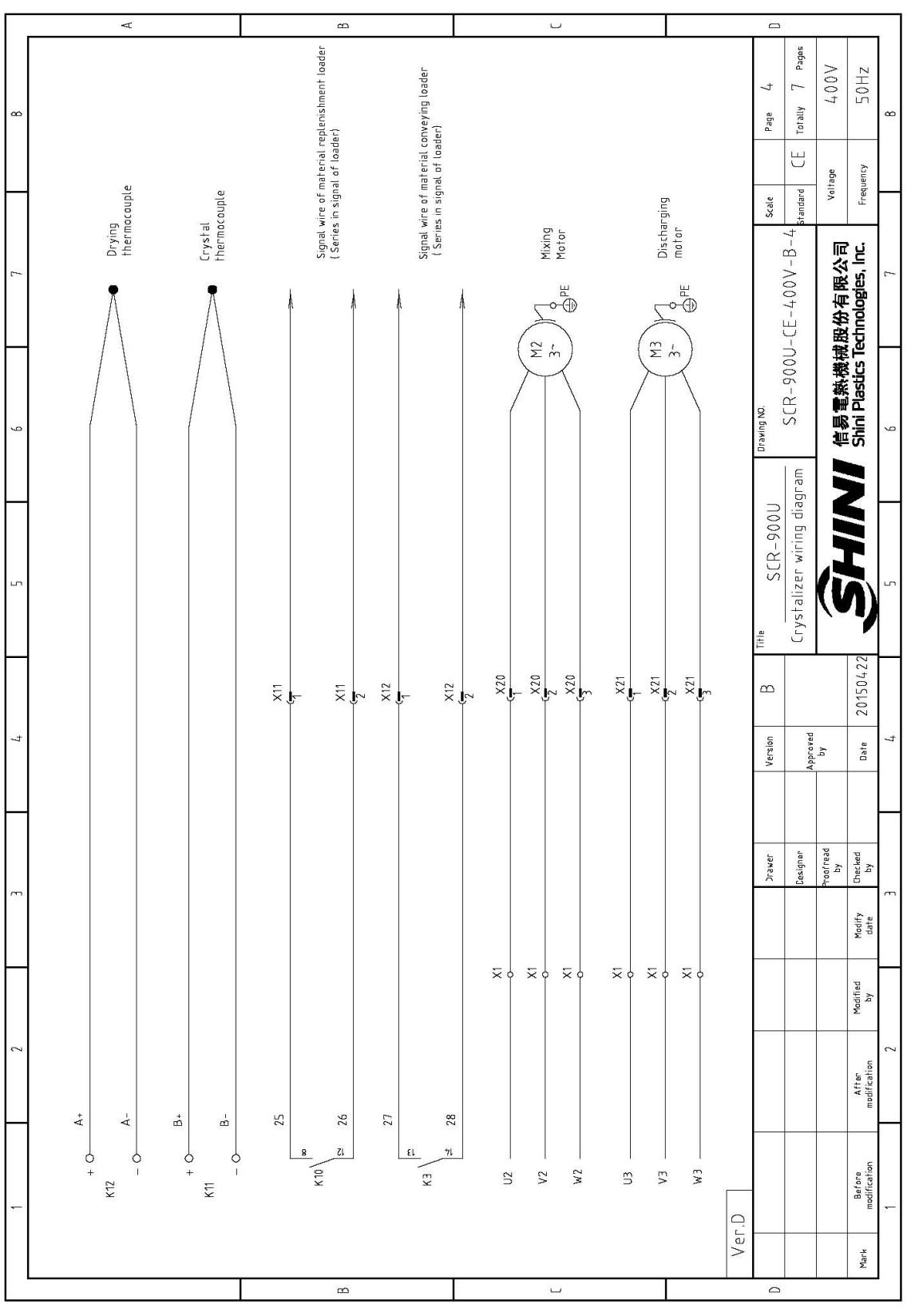
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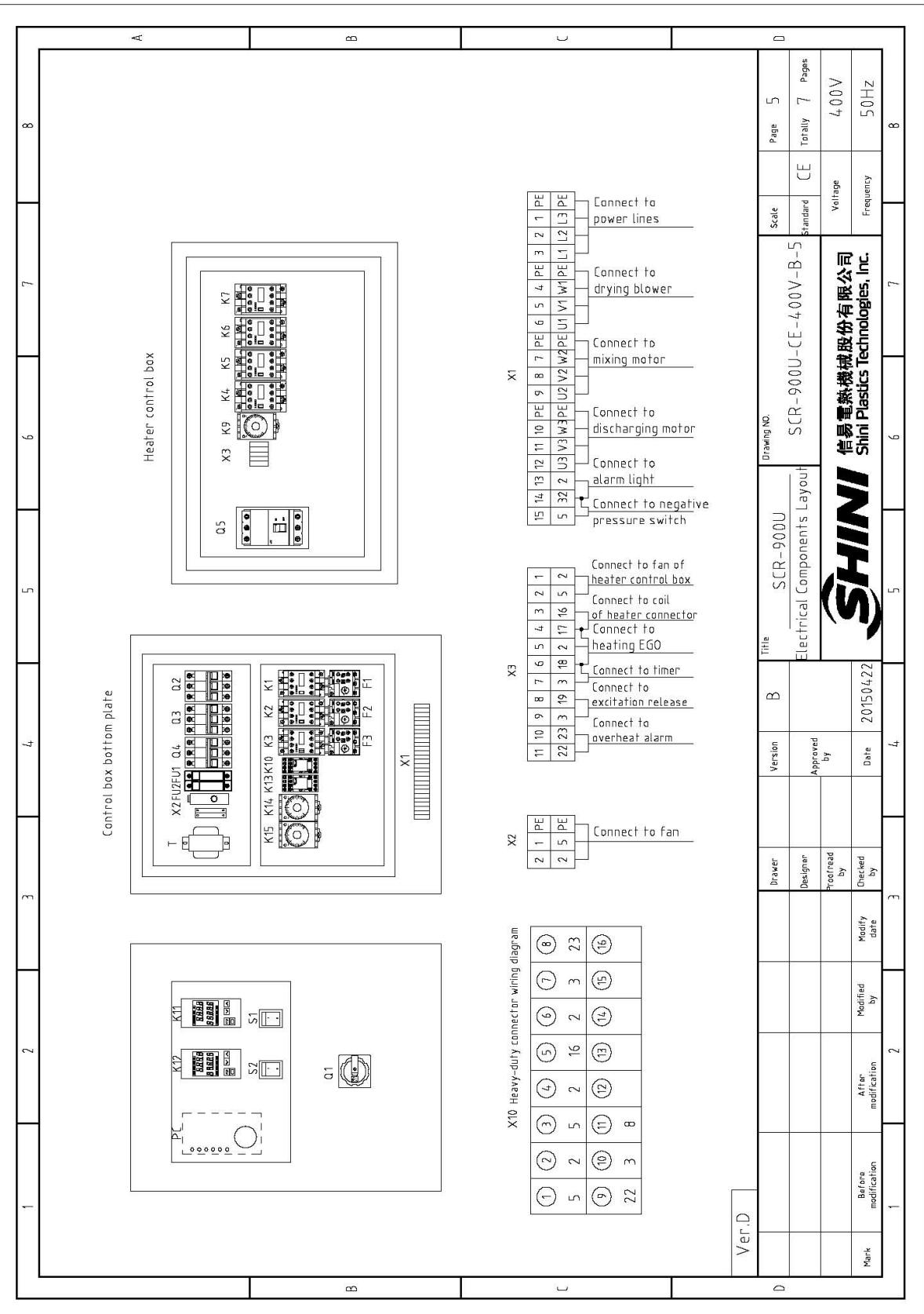
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SHINI 信易電熱機械股份有限公司 Shini Plastics Technologies, Inc.	Voltage	400V	Page	1
Frequency	50Hz	Totality	7 Pages	





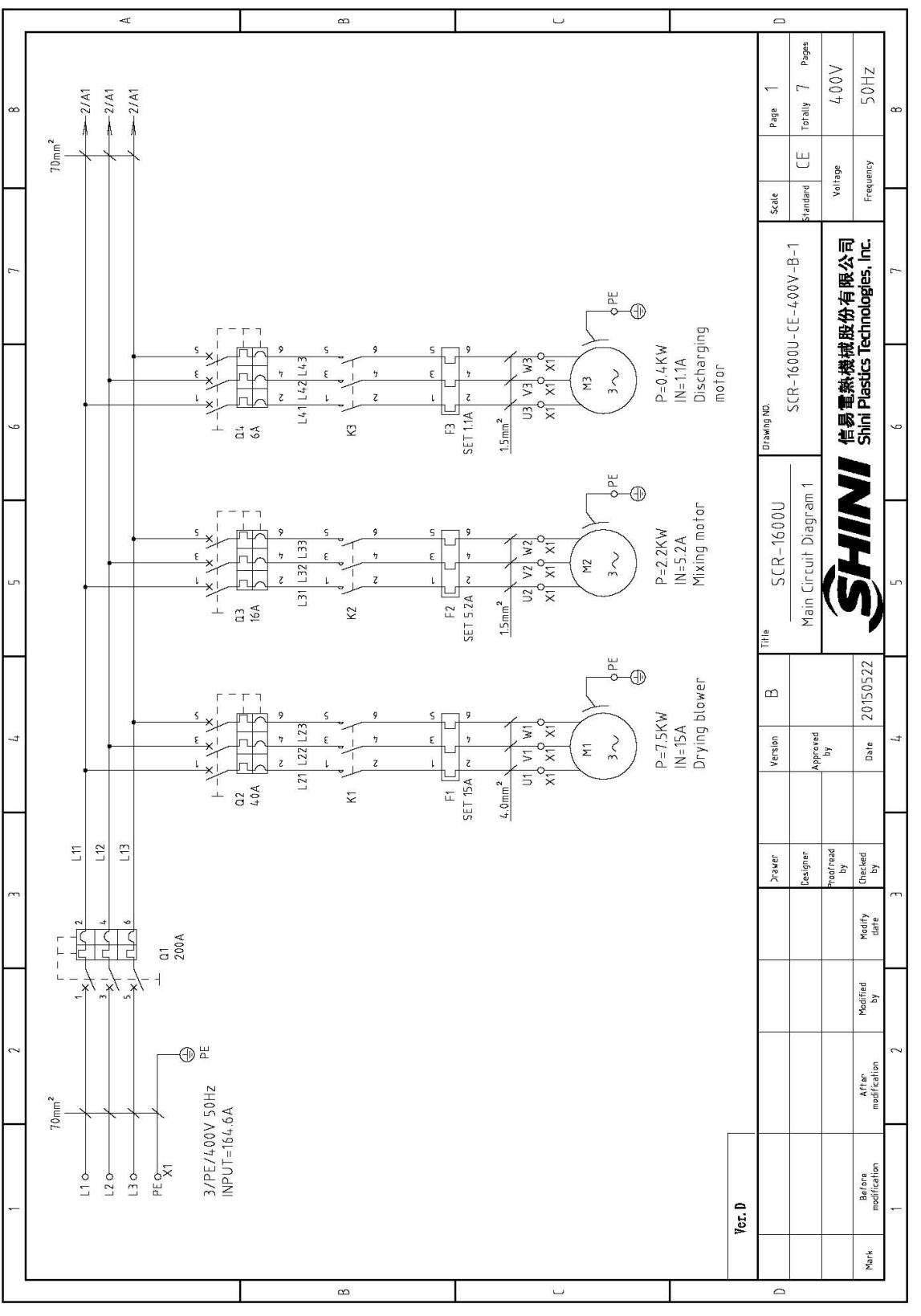


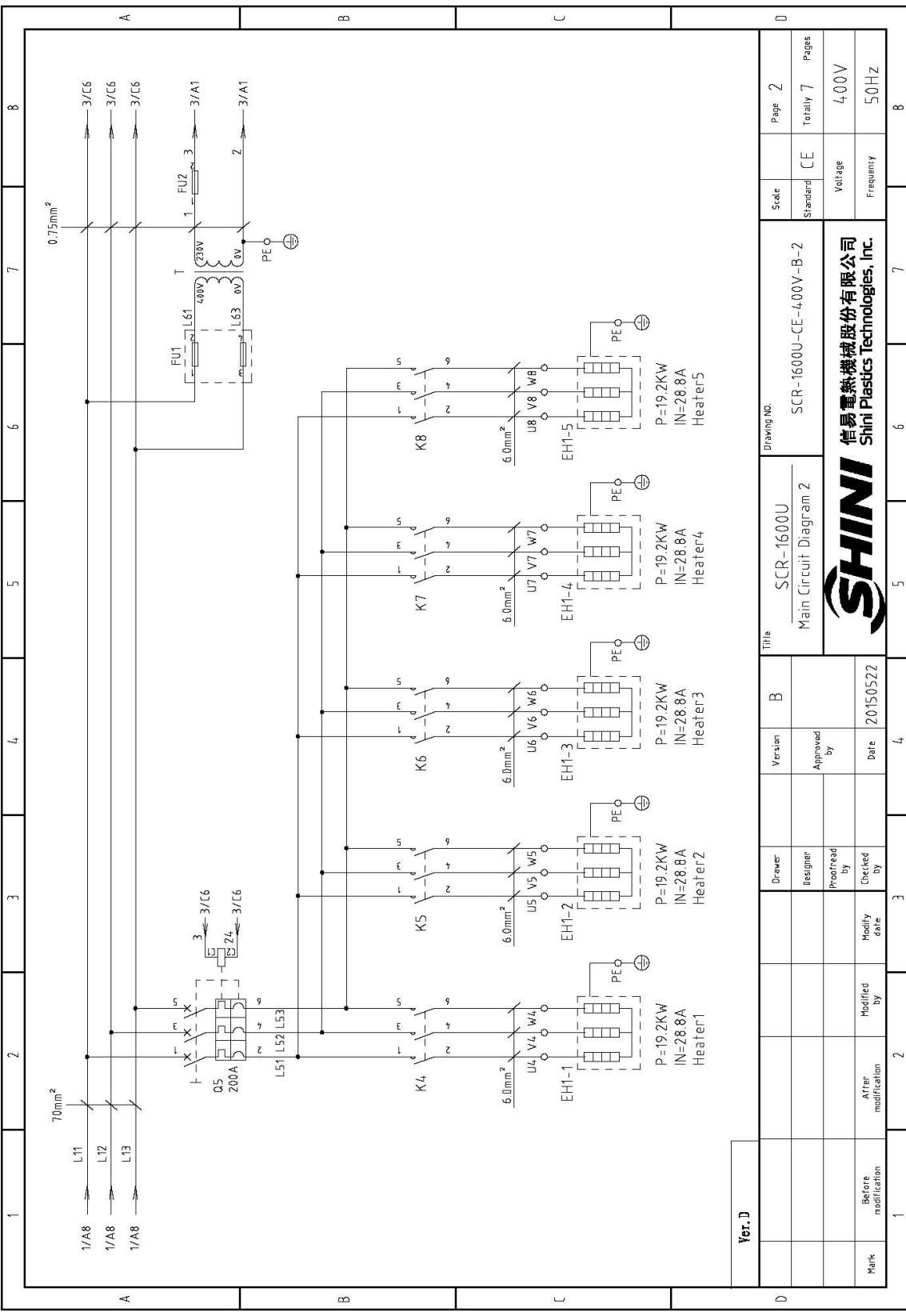


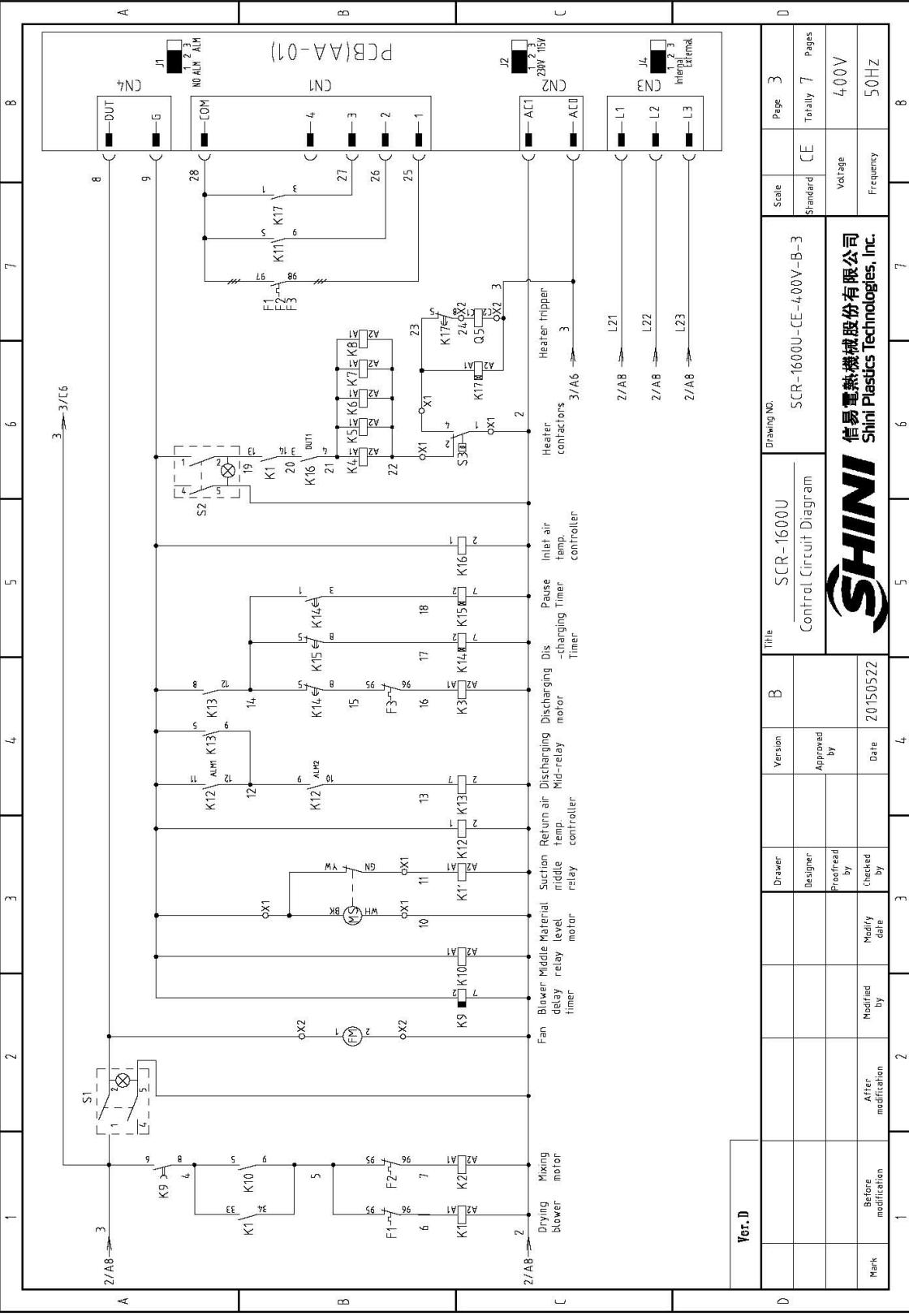
1	2	3	4	5	6	7	8
No.	Symbol	Name	Manufacturer	Type	Specification	Number	Material number
1	Q1	Main power switch	MOELLER	T0-2-1/EA/SV/B	16A	1	YE10021160000
2	Q2	Circuit breakers	TECO	BM-63C	20A	1	YE430200300
A	3	Circuit breakers	TECO	BM-63C	10A	1	YE4301003000
4	Q4	Circuit breakers	TECO	BM-63C	6A	1	YE430060300
5	Q5	Breaker interlock	ABB	ATA725-TMF-90	90A	1	YE41109200000
6		Excitation release	ABB	SDR-C	230VAC	1	YE40101600000
7	K1 K2 K3	Contractors	SIEMENS	3RT6016-1AN21	230V 50/60Hz	3	YE00601621000
8	K4 K5 K6 K7	Contractors	SIEMENS	3RT6027-1AN20	230V 50/60Hz	4	YE00602722000
B	K9	Timer relay	YUYUN	TH3M-NAB	35~60V 230VAC	1	YE86300300000
10	K10 K13	Middle relay	WEIDMULLER	DRM2707301T	230V 50/60Hz	2	YE03270700000
11	K11 K12	Temperature controller	OMRON	E5EZ	100~240V 50/60Hz	2	YE85005000000
12	K14 K15	Timer relay	YUYUN	TH3M-NAB	35~60V 230VAC	2	YE86300300000
13	F1	Thermo overload relay	SIEMENS	3RU6116-1HB0	5.5-8A	1	YE01160550000
14	F2	Thermo overload relay	SIEMENS	3RU6116-1FB0	3.5-5A	1	YE01160350000
15	F3	Thermo overload relay	SIEMENS	3RU6116-1AB0	1.1-1.6A	1	YE01160110000
16	FU1	Fuse base	CHINT	RT18-32	2P	1	YE41032200000
17	FU2	Fuse care	CHINT	10×38 500V	2A	2	YE46002000100
18	FU2	Fuses**	YINDA	F5-10	2A	1	YE41010100000
C	T	Transformer*	BAIYUN	IN=4.0V OUT=230V	800mA	1	YE70402300900
20	PC	PCB	YUYUN	AA-01	230V 50/60Hz	1	YE80000100000
21	S1 S2	Alternative switch	REAB	T120-55	4P WH	2	YE10210400000
22	MS	Material level motor	SIPAI	SR-B0-T	250VAC	1	YE15000200000
23	S4	Thermal protector	EFO	----	250V 5A	1	YE21503000000
24	S5	Negative pressure switch	----	----	----	1	----
25	S6 S7	Thermocouple	SHINI	----	K	2	----
Ver.D	Note: (1) Means not part of control box. /* means possible broken parts. **means easy broken part. and spare backup is suggested.						
D					Title SQR-900U Electrical Components List 1	Drawing No. SQR-900U-C-E-400V-B-6	Page 6
Mark	Before modification	After modification	Drawer Modified by	Version Approved by	Designer Proofread by	Standard Checked by	Totaly 7 Pages
					Date 20150422	Date 20150422	Voltage 4,00V
							Frequency 50Hz
	1		2	3	4	5	7

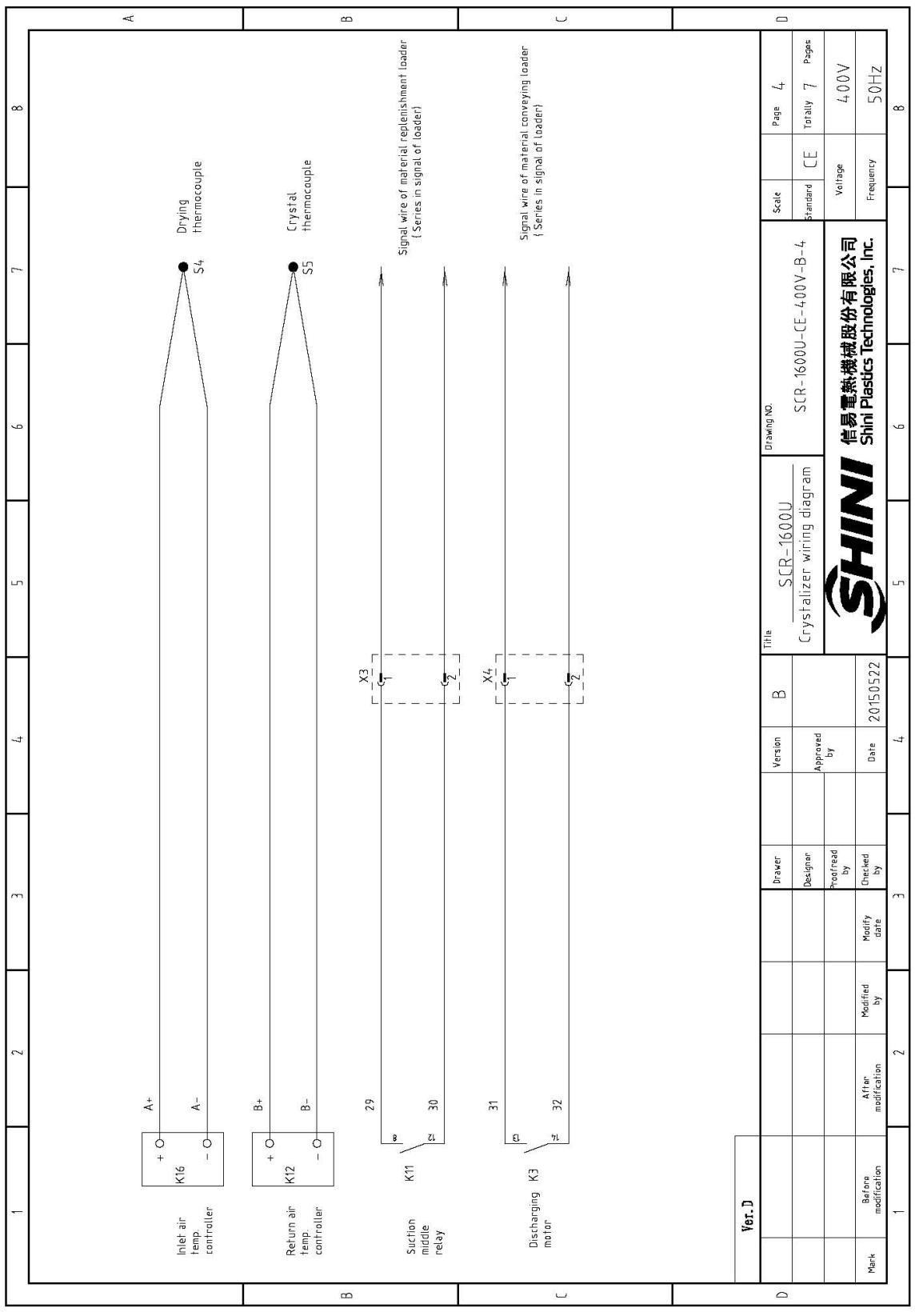
18(33)

1		2		3		4		5		6		7		8	
NO.	Symbol	Name		Manufacturer	Type			Specification		Number		Material number	Remark		
26	FM1 FM2	Fan		SUNON	DP200A	230V 50/60Hz		2		YN60121200400		{1}			
27	H1	Pulse indicator		-----	LED-3051	230VAC 50Hz		1		YE83305100200		{1}			
A	X1	Terminal board		PHOENIX	2.5mm ²	32A		15		YE61250040000					
29					2.5mm ² PE	32A		4		YE61253500000					
30	X2	Terminal board		PHOENIX	2.5mm ²	32A		2		YE6125014.0000					
31					2.5mm ² PE	32A		1		YE61253500000					
32	X3	Terminal board		PHOENIX	2.5mm ²	32A		11		YE6125004.0000					
33	X10	Heavy duty connector		SIBAS	HDC-HE-16	4,00V 5A		1		YE68161600000		{1}			
34	X11 X12	Metal tie in		-----	DF25-3	-----		2		YE68025300200		{1}			
35	X20 X21	Waterproof connectors		CEE	RS-314	4,00V 16A		2		YE633314.00000		{1}			
B	M1	Blower		SHINI	-----	3KW 400V 50Hz		1		-----		{1}			
37	M2	Motor		SHINI	-----	1.5KW 4,00V 50Hz		1		-----		{1}			
38	M3	Motor		SHINI	-----	0.4KW 4,00V 50Hz		1		-----		{1}			
39	EH1-EH4	Heater**		SHINI	-----	12KW 4,00V 50Hz		4		-----		{1}			
C															

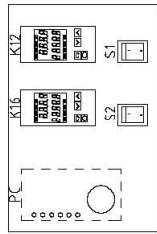
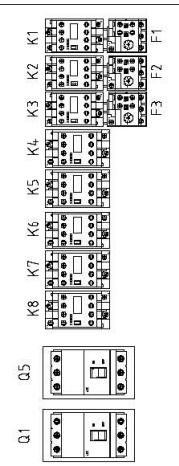




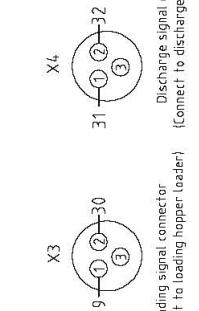
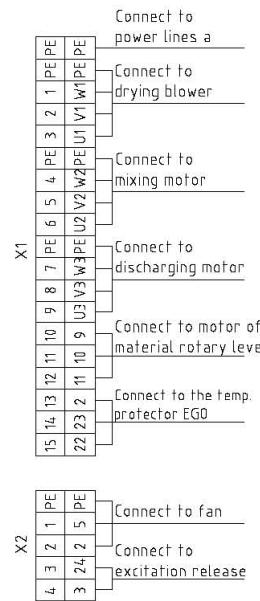




1 2 3 4 5 6 7 8



A B C



C

Ver.	1	2	3	4	5	6	7	8
Mark								
Before modification								
After modification								

D	Drawer	Version	B	Title	Drawing NO.	Scale	Page
	Designer	Approved		SCR-1600U	SCR-1600U-CE-400V-B-5	Standard	5
	Proceded by	Modified by		Electrical Components Layout		Totality	7 Pages
			Date	20150522		Voltage	400V
						Frequency	50Hz

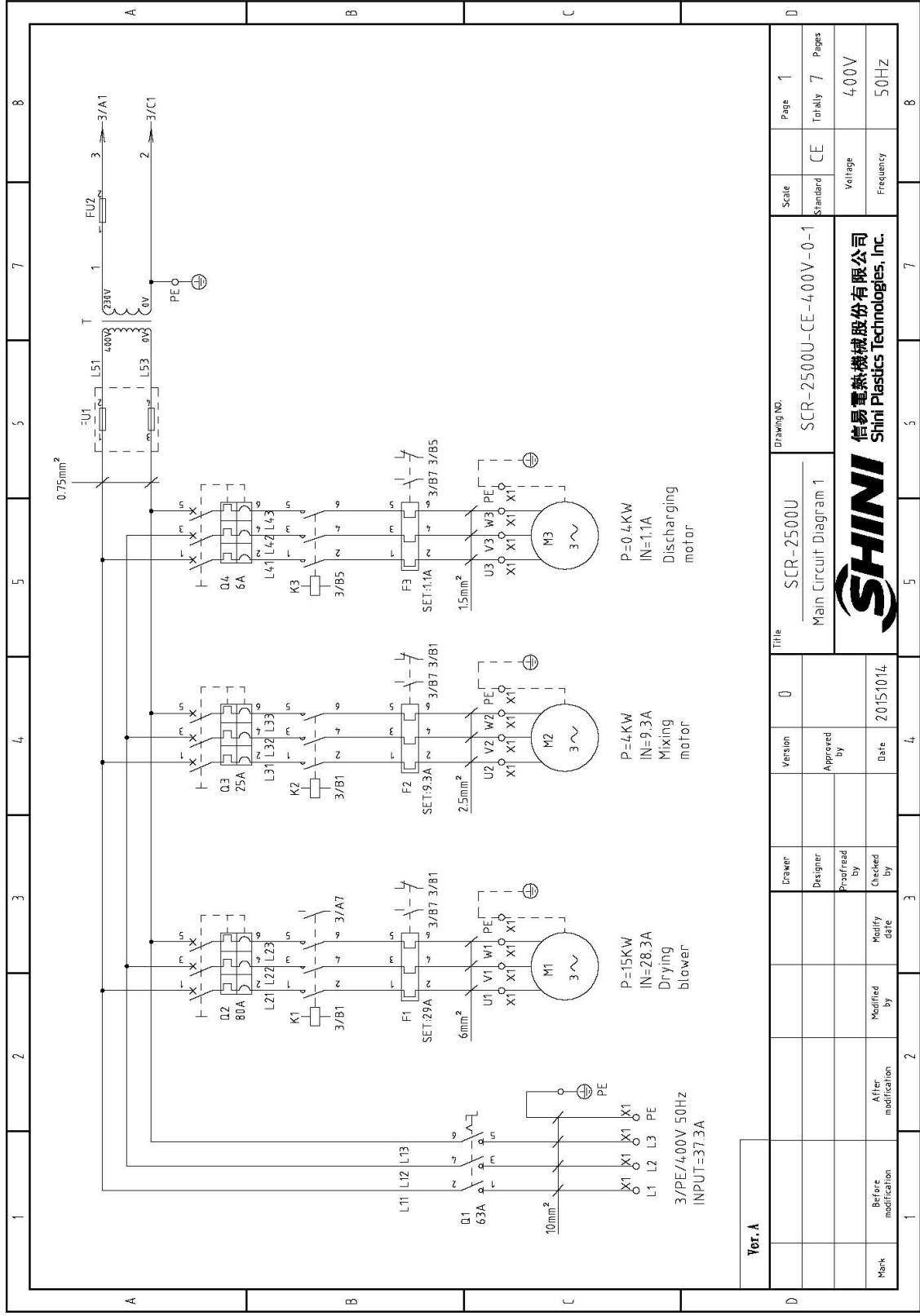
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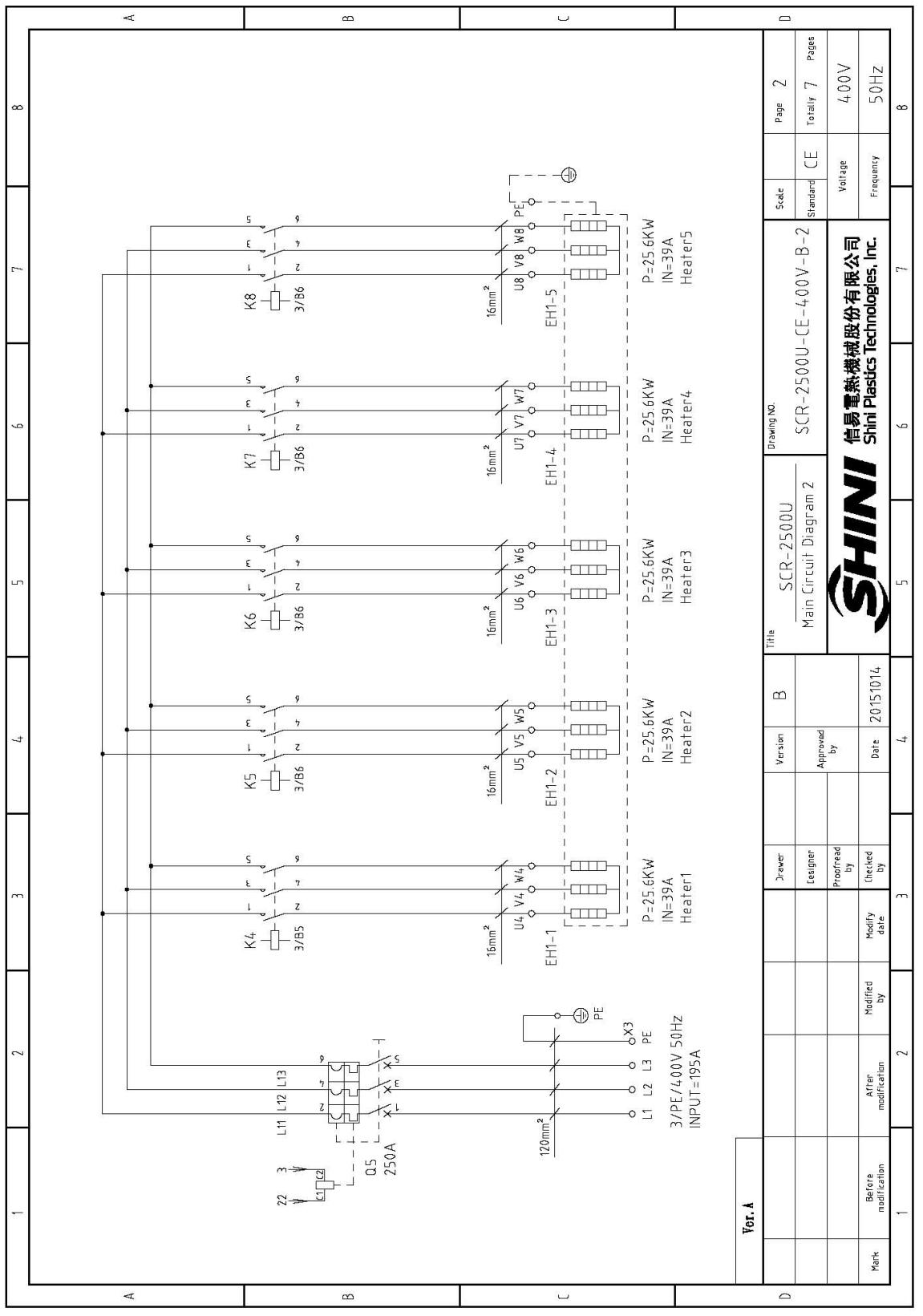
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1		2		3		4		5		6		7		8						
No.	Symbol	Name		Manufacturer		Type		Specification		Number		Material number		Remark						
1	Q1	Breakers interlock		ABB	A2B2501MF200/20003PFF	200A		1		YE4252200000		A								
2	Q2	Circuit breakers			TECO	BM-63C/3040S		40A		1										
A	Q3	Circuit breakers			TECO	BM-63C/3016S		16A		1										
4	Q4	Circuit breakers			TECO	BM-63C/3006S		6A		1										
5	Q5	Breakers interlock			ABB	A2B2501MF200/20003PFF	200A		1		YE4252200000									
6		Excitation release		ABB	SCR-C	230VAC		1		YE4012160000		B								
7	K1	Contactors			SIEMENS	3RT6026-1AN20		230V 50/60Hz		1										
8	K2	Contactors			SIEMENS	3RT6016-1AN21		230V 50/60Hz		1										
9	K3	Contactors			SIEMENS	3RT6036-1AN20		230V 50/60Hz		5										
10	K4 K5 K6 K7 K8	Contactors			YUYUN	TRF-N 3M		230VAC		1										
B	K9	Timer relay		WEIDMULLER	DRM210730LT	230V 50/60Hz		3		YE00601621000		C								
12	K10 K11 K13	Middle relay			OMRON	E5EC-RR2ASM-8001#R		100~240V 50/60Hz		2										
13	K12 K16	Temperature controller			YUYUN	TH3M-NAB		35~60M 230VAC		3										
14	K14 K15 K17	Timer relay			SIEMENS	3RU6126-4BB0		14...20A		1										
15	F1	Thermo overload relay			SIEMENS	3RU6116-1GB0		4.5...6.3A		1										
16	F2	Thermo overload relay		SIEMENS	SIEMENS	3RU6116-1AB0		1.1...1.6A		1										
17	F3	Thermo overload relay			CHINT	32A/2P		----		1										
18	FU1	Fuse**			CHINT	10~38 500V		1A		2										
C	19	Fuse core			YINDA	FS-10		2A		1										
20	FU2	Fuse**			BAIYUN	IN=4.00V OUT=230V		1000mA		1										
21	T	Transformer*		PCB	YUYUN	AA-01		230V 50/60Hz		1										
22	PCB	Alternative switch			---	T120-55		4P WH		2										
23	S1 S2	Overheat protector			TONGBAO	ZA300		250V 5A		1										
24	S3	Thermocouple			SHINI	----		K		2										
25	S4 S5	Thermocouple				----		----		----										
D	Note: (1) Means not part of control box. * means possible broken parts. ** means easy broken parts. and spare backup is suggested.																			
D									Title SCR-1600U		Drawing No. SCR-1600U-CE-4.00V-B-6		Scale Standard		Page 6					
D									Electrical Components List 1				CE		Totally 7					
D															Pages 6					
D															4.00V					
D															50Hz					
D															8					

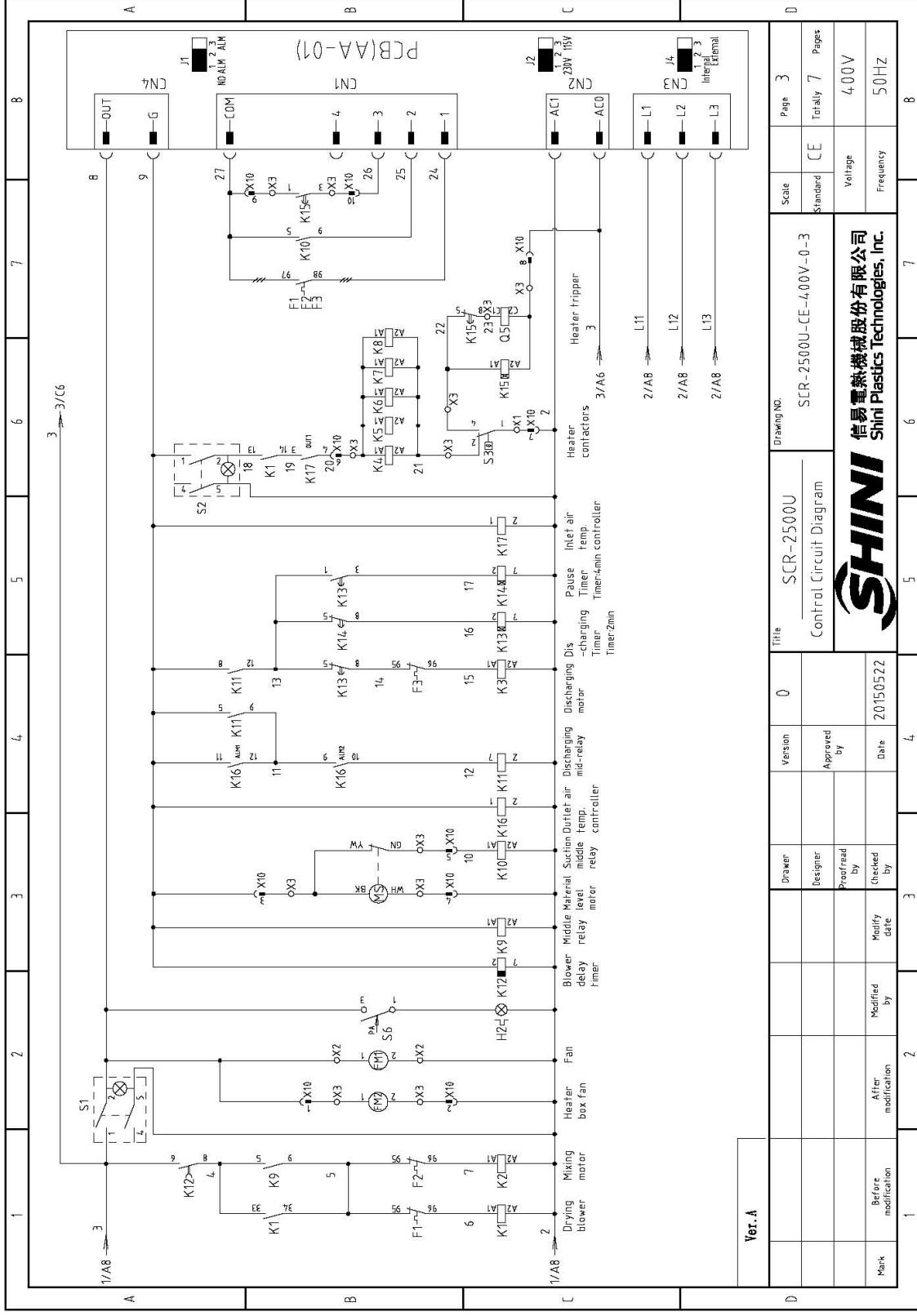
Note: {1} Means not part of control box. * means possible broken parts. ** means easy broken part. and spared backup is suggested.

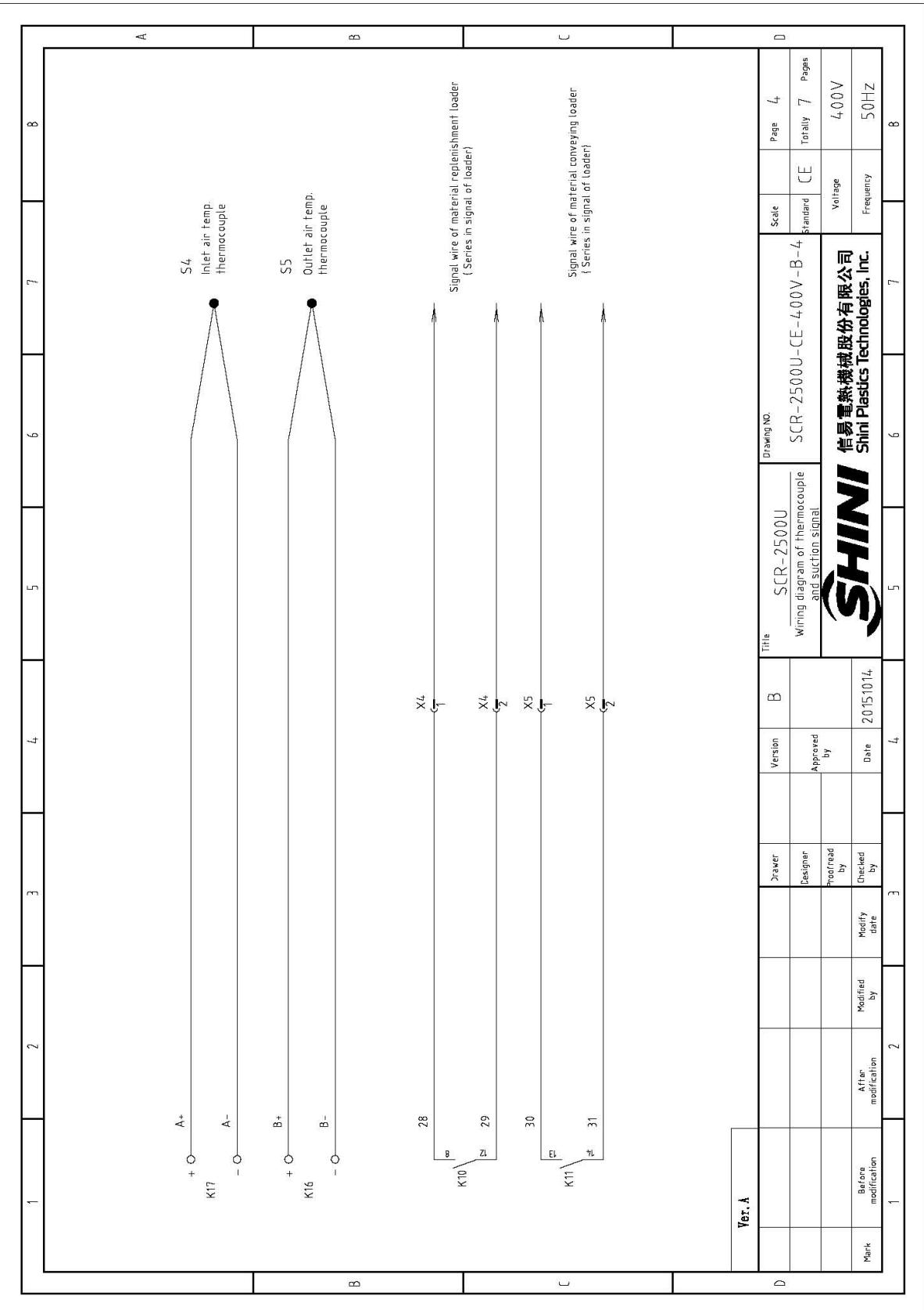
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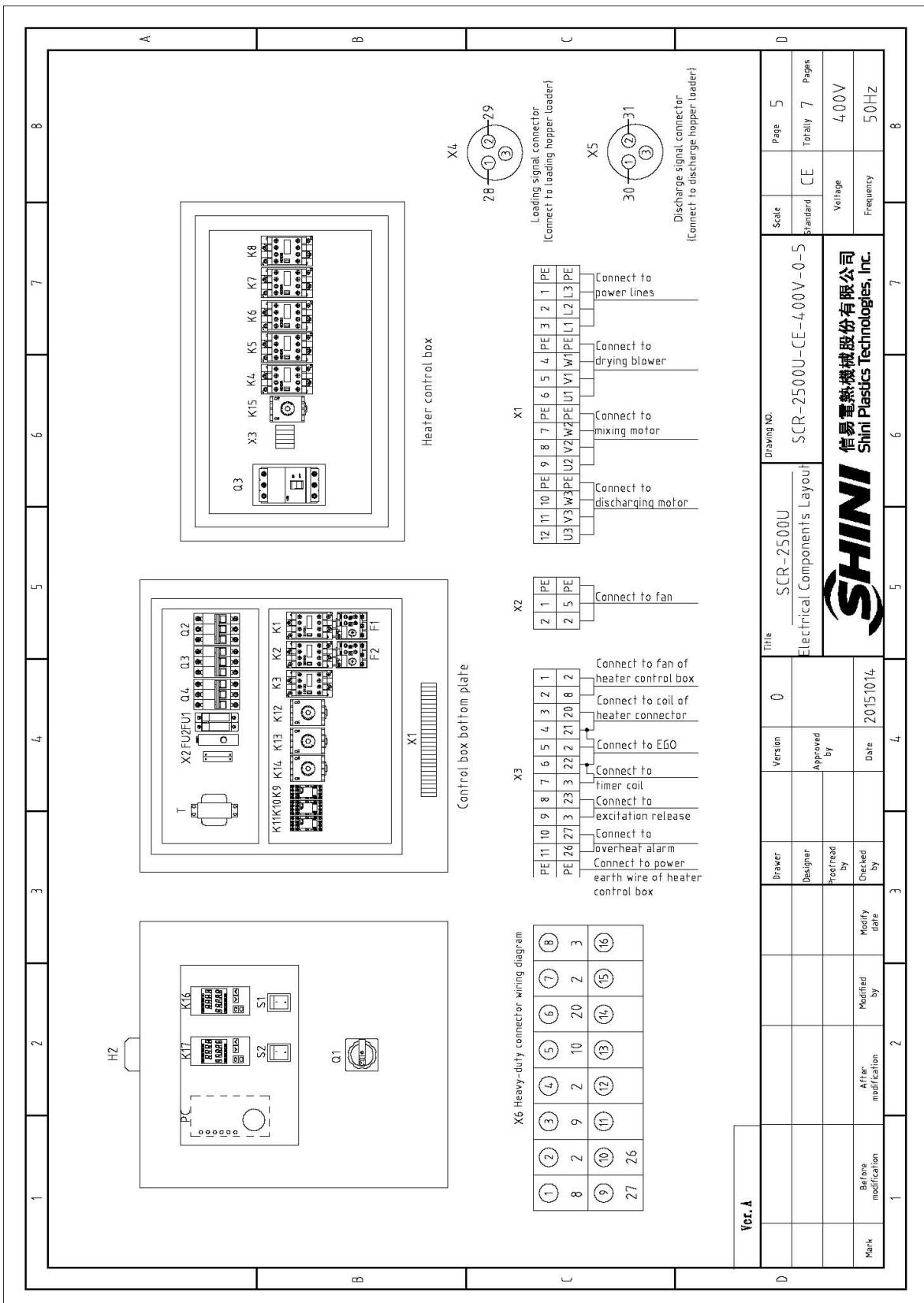




28(33)







1	2	3	4	5	6	7	8	
No.	Symbol	Name	Manufacturer	Type	Specification	Number	Material number	Remark
1	Q1	Main power switch	SIEMENS	3LD20	63A	1	YE10250400000	A
2	Q2	Circuit breakers	TECO	BM-100D	80A	1	YE40308003000	
A 3	Q3	Circuit breakers	TECO	BM-63C	25A	1	YE40302503000	
4	Q4	Circuit breakers	TECO	BM-63C	6A	1	YE403010603000	
5	QS5	Breakers interlock	ABB	A2B2501MF250	250A	1	YE41252800000	
6		Excitation release	ABB	SDB-C	230VAC	1	YE40121600000	B
7	K1	Contactors	SIEMENS	3RT16028-1AN20	230V 50/60Hz	1	YE006028222000	
8	K2	Contactors	SIEMENS	3RT16017-1AN21	230V 50/60Hz	1	YE006017121000	
9	K3	Contactors	SIEMENS	3RT16016-1AN21	230V 50/60Hz	1	YE00601621000	
10	K4 K5 K6 K7 K8	Contactors	SIEMENS	3RT15044-1AN20	230V 50/60Hz	5	YE00504400000	
B 11	K9 K10 K11	Middle relay	WEIDMULLER	DRM270730LT	230V 50/60Hz	3	YE03270700000	C
12	K12	Timer relay	YUYUN	TRI-N 3M	230VAC	1	YE86322000000	
13	K13 K14 K15	Timer relay	YUYUN	TH3M-NAB	3S~60M 230VAC	3	YE86300300000	
14	K16 K17	Temperature controller	OMRON	E5EC	10~240V 50/60Hz	2	YE8505000000	
15	F1	Thermo overload relay	SIEMENS	3RU6126-4EB0	27-32A	1	YE01612600600	
16	F2	Thermo overload relay	SIEMENS	3RU6116-1KB0	9-12.5A	1	YE0169125000	D
17	F3	Thermo overload relay	SIEMENS	3RU6116-0KB0	0.9-1.25A	1	YE0169000000	
18	FU1	Fuse base	CHINT	RTTB-32	2P	1	YE41032200000	
C 19	Fuse**		CHINT	10x38 500V	2A	1	YE46002000100	
20	FU2	Fuse**	YINDA	FS-10	2A	1	YE41001000000	E
21	T	Transformer*	BAIYUN	IN=4.00V OUT=230V	150mA	1	YE70402300300	
22	PC	PCB	YUYUN	AA-01	230V 50/60Hz	1	YE80000100000	
23	S1 S2	Alternative switch	REAB	T120-55	4P WH	2	YE10210400000	
24	S3	Overheat protector	EGO	ZA300	230V 5A	1	---	{1}
25	S4 S5	Thermocouple	SHINI	-----	K TYPE	2	----	{1}
Ver. A Note: {1} Means not part of control box * means possible broken parts ** means easy broken part. and spare backup is suggested.								
D			Drawer	Version 0	Title SCR-2500U	Drawing No. SCR-2500U-CE-400V-0-6	Page 6	D
			Designer	Approved by	Electrical Components List 1	CE Standard	Page 7	
			Proofread by	Modified by	Date 2015/01/14	Voltage 4,00V	Pages	
Mark	Before modification	After modification	Modified date	Checked by	Date	Frequency 50Hz		E
1	2	3	4	5	6	7	8	

Note: (1) Means not part of control box. * means possible broken parts. **means easy broken part, and soare breakid is suggested

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SCR-2500U

SCLR-25000U-C-E-400V-0 Electrical Components List 2 Designer

Approved _____

PROOFREAD BY

信易電氣機械股份有限公司

Shin Plastics Technologies, Inc.
Date 20151014

III. DRAFTS FOR THE PUBLICATION OF THE HISTORICAL RECORDS

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