

[illegible]

Drawing NO.

HA-30~700
Main Circuit Diagram

HA-30~700-CE-230V-A-2

Standard	CF
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Totally 20 Pages

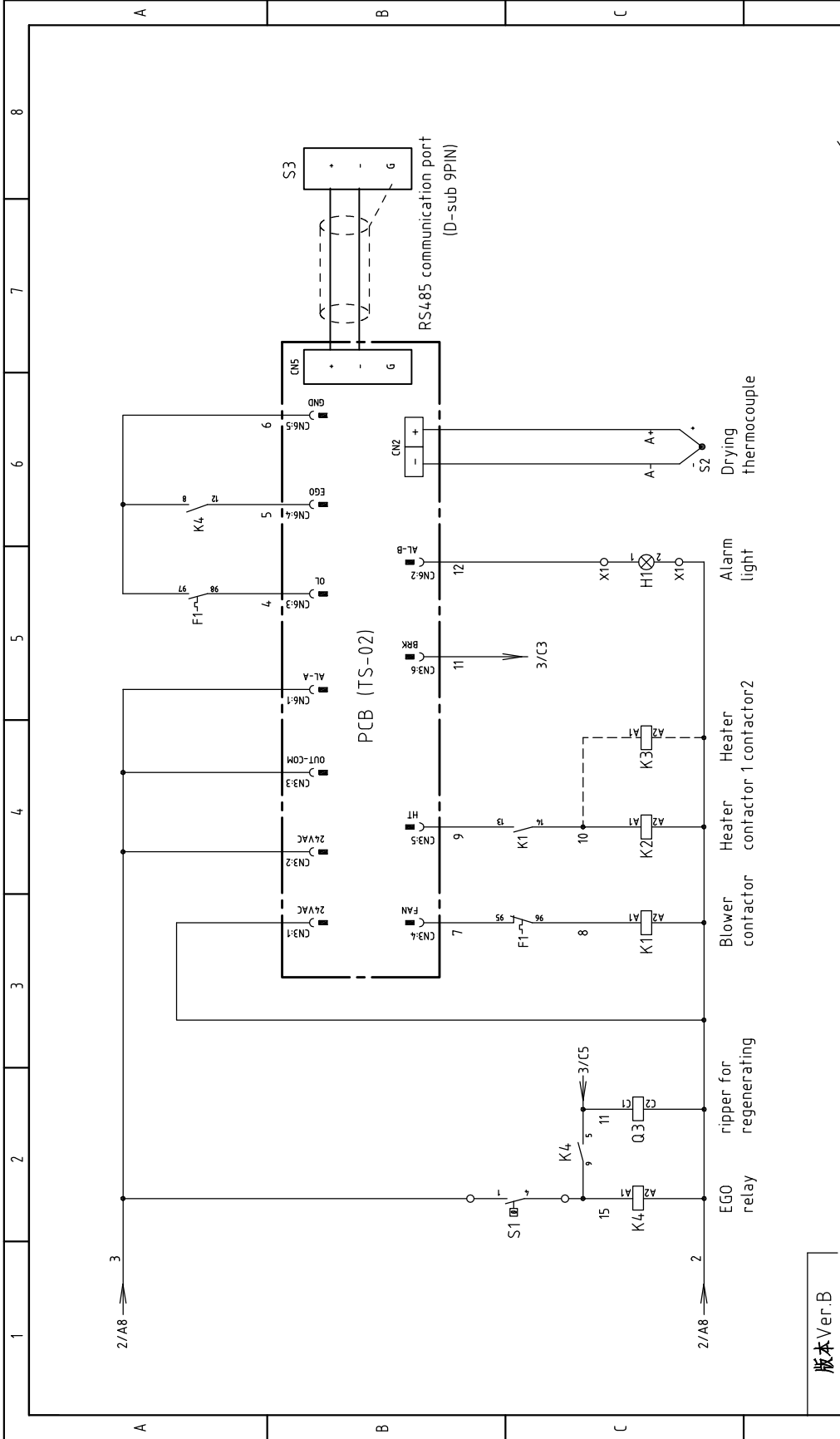
信易電熱機械股份有限公司
Shini Plastics Technologies, Inc.



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Shini Plastics Technologies, Inc.

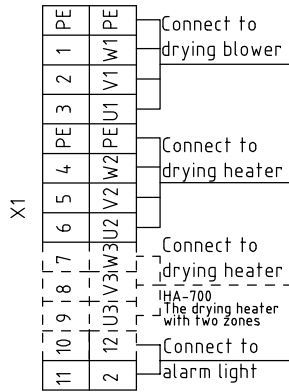
Frequency

50H7



版本 Ver.B

D		A		Version		Title		Drawing NO.		Scale		Page	
						HA-30~700		HA-30~700-CE-230V-A-3		Standard		3	
						Control Circuit Diagram				CE		Totally 20 Pages	
										Voltage		230V	
										Frequency		50Hz	



Panel

The main power lines directly connect to main power switch disconnect to terminal board.

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1		2		3		4		5		6		7		8					
NO.		Symbol		Name		Manufacturer		Type		Specification		Number		Material number		Remark			
1		Q1		Main power switch		EATON		TO-2-1/EA/SVB/16A		16A 3P		1		YE10021160000					
2		Q3		Circuit-breaker		TECO		BM-63C/3010S		10A 3P		1		YE40301003000					
3				Excitation release		CHINT		MX		24V 50/60Hz		1		YE40024000000		A			
4		Q2		Circuit-breaker		TECO		BM-63C/3006S		6A 3P		1		YE40300603000					
5		K1		Contactor		SIEMENS		3RT6015-1AB01		7A 3P 1NO 24V 50/60Hz		1		YE00601502500					
6		K2		Contactor		SIEMENS		3RT6016-1AB01		9A 3P 24V 50/60Hz		1		YE00601602500					
7		K4		Middle relay		HONEYWELL		GR-2C-AC24V		24V 50/60Hz		1		YE03022400300					
8		F1		Overload relay		SIEMENS		3RU6116-0EB0		0.28-0.4A		1		YE01161280000					
9		FU1		Fuse base		CHINT		RT28-32		2P		1		YE41032200000					
10				Fuse core		CHINT		10x38 500V		2A		2		YE46002000100					
11		FU2		Fuse		YINDA		FS-10		6x30mm 2A 250V		1		YE41001000000		B			
12		T		Transformer		BAIYUN		--		IN=230V OUT=24V 80VA		1		YE70023005900					
13		PCB		PCB/SSMD(SHD-40U-C-02) ABS+PC(30%)				TS-02(24VAC)(含通讯)		24V 50/60Hz		1		YE80000101200/YR40400200000					
14				Lamp cover(SIC-015)								1		YR90441300000					
15				Panel for HA105.5x84.5MM2016 Version sickness-65N/ Pressing plate of display screen SHD-80U-A-43(88x53+0.3x1.010)								1		YR01105506600/YR900000003300					
16		S1		Temperature protector		EGO		--		115-320 °C		1		BH90115000150					
17		S2		Thermocouple		SHINI		K TYPE		--		1		----		(1)			
18		H1		Alarm light		SHINI		LED-3051		24V 50/60Hz		1		YE83305100900					
19		X1		Terminal		HOLLEYWELL		--		4mm ²		6		YE600000403200		C			
20										4mm ² PE		2		YE600000403500					
21										2.5mm ²		2		YE60002503200					
22		M1		Blower		--		--		0.05kW		1		----		(1)			
23		EH1		Heater		SHINI		--		2.2kW		1		----		(1)			
24		S3		D 9-pin communication port (Equipped with screw)		--		--		--		1		YE9004.8501200					
25				Shell RS485(SAL-700G-A-19)0		--		--		--		1		YR4004.8500000					
版本 Ver.B		Notes: (1)Means it's not the material inside the control box.																	
D						Drawer		Version		A		Title		Drawing NO.		Scale		Page	
						Designer		Approved by				HA-30		HA-30~700-CE-230V-A-5		Standard		Totaly	
						Proofread by						Electrical Components list 1				Voltage		20	
						Checked by		Date		20170908		SHINI		信易電熱機械股份有限公司 Shini Plastics Technologies, Inc.		Frequency		230V	
Mark		Before modification		After modification		Modified by		Modify date										50Hz	
1		2		3		4		5		6		7		8					

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1		2		3		4		5		6		7		8							
No.	Symbol	Name	Manufacturer		Type	Specification	Number	Material number	Remark												
1	Q1	Main power switch	EATON		TO-2-1/EA/SVB/16A	16A 3P	1	YE1002160000													
2	Q3	Circuit-breaker	TECO		BM-63C/3016S	16A 3P	1	YE40301603000													
3		Excitation release	CHINT		MX	24V 50/60Hz	1	YE40024000000	A												
4	Q2	Circuit-breaker	TECO		BM-63C/3006S	6A 3P	1	YE40300603000													
5	K1	Contacto	SIEMENS		3RT6015-1AB01	7A 3P 1NO 24V 50/60Hz	1	YE00601502500													
6	K2	Contacto	SIEMENS		3RT6017-1AB01	12A 3P 24V 50/60Hz	1	YE00601702500													
7	K4	Middle relay	HONEYWELL		GR-2C-AC24V	24V 50/60Hz	1	YE03022400300													
8	F1	Overload relay	SIEMENS		3RU6116-0GB0	0.45-0.63A 690V 50/60Hz	1	YE01161450000													
9	FU1	Fuse base	CHINT		RT28-32	2P	1	YE41032200000													
10		Fuse core	CHINT		10x38 500V	2A	2	YE46002000100													
11	FU2	Fuse	YINDA		FS-10	6x30mm 2A 250V	1	YE41001000000	B												
12	T	Transformer	BAIYUN		--	IN=230V OUT=24V 80VA	1	YE70023005900													
13	PCB	PCB/SSMD(SHD-40U-C-02) ABS+PC(30%)			TS-02(24VAC)(含通讯)	24V 50/60Hz	1	YE80000101200/YR40400200000													
14		Lamp cover(SIC-015)					1	YR90441300000													
15		Panel for HA1055x84.5MM2016 Version sickness-65N/ Pressing plate of display screen SHD-80U-A-43(88x53+0.3x1.0)					1	YR01105506600/YR900000003300													
16	S1	Temperature protector	EGO		--	115-320 °C	1	BH901150000150													
17	S2	Thermocouple	SHINI		K TYPE	--	1	----	(1)												
18	H1	Alarm light	SHINI		LED-3051	230V 50/60Hz	1	YE83305100900													
19	X1	Terminal	HOLLEYWELL		--	4mm ²	6	YE600000403200	C												
20						4mm ² PE	2	YE600000403500													
21						2.5mm ²	2	YE60002503200													
22	M1	Blower	--		--	0.12kW	1	----	(1)												
23	EH1	Heater	SHINI		--	3.0kW	1	----	(1)												
24	S3	D 9-pin communication port (Equipped with screw)	--		--	--	1	YE90048501200													
25		Shell RS485(SAL-700G-A-1910)	--		--	--	1	YR40048500000													
版本 Ver.B											Notes: (1)Means it's not the material inside the control box.										
						Drawer		Version		A		Title		Drawing NO.		Scale		Page		7	
						Designer		Approved by				HA-40		HA-30~700-CE-230V-A-7		Standard		CE		Totaly 20 Pages	
						Proofread by						Electrical Components List 1				Voltage		230V			
Mark		Before modification		After modification		Modified by		Modify date		Date		20170908				Frequency		50Hz			
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1		2		3		4		5		6		7		8	
N0.	Symbol	Name	Manufacturer	Type	Specification	Number	Material number	Remark							
1	Q1	Main power switch	EATON	TO-2-1/EA/SVB/16A	16A 3P	1	YE10021160000								
2	Q3	Circuit-breaker	TECO	BM-63C/3016S	16A 3P	1	YE40301603000								
3		Excitation release	CHINT	MX	24V 50/60Hz	1	YE40024000000		A						
4	Q2	Circuit-breaker	TECO	BM-63C/3006S	6A 3P	1	YE40300603000								
5	K1	Contactor	SIEMENS	3RT6015-1AB01	7A 3P 1NO 24V 50/60Hz	1	YE00601502500								
6	K2	Contactor	SIEMENS	3RT6018-1AB01	16A 3P 24V 50/60Hz	1	YE00601802500								
7	K4	Middle relay	HONEYWELL	GR-2C-AC24V	24V 50/60Hz	1	YE03022400300								
8	F1	Overload relay	SIEMENS	3RU6116-0GB0	0.45-0.63A 690V 50/60Hz	1	YE01161450000								
9	FU1	Fuse base	CHINT	RT28-32	2P	1	YE41032200000								
10		Fuse core	CHINT	10x38 500V	2A	2	YE46002000100								
11	FU2	Fuse	YINDA	FS-10	6x30mm 2A 250V	1	YE41001000000		B						
12	T	Transformer	BAIYUN	--	IN=230V OUT=24V 80VA	1	YE70023005900								
13	PCB	PCB/SSMD(SHD-40U-C-02) ABS+PC(30%)		TS-02(24VAC)(含通讯)	24V 50/60Hz	1	YE80000101200/YR40400200000								
14		Lamp cover(SIC-015)				1	YR90441300000								
15		Panel for HA1055x84.5MM2016 Version sickness=65N/ Pressing plate of display screen SHD-80U-A-43188x53±0.3x1.010				1	YR011055066600/YR900000003300								
16	S1	Temperature protector	EGO	--	115-320 °C	1	BH90115000150								
17	S2	Thermocouple	SHINI	K TYPE	--	1	----	(1)							
18	H1	Alarm light	SHINI	LED-3051	24V 50/60Hz	1	YE83305100900								
19	X1	Terminal	HOLLEYWELL	--	4mm ²	6	YE60000403200		C						
20					4mm ² PE	2	YE60000403500								
21					2.5mm ²	2	YE60002503200								
22	M1	Blower	--	--	0.12kW	1	----	(1)							
23	EH1	Heater	SHINI	--	3.9kW	1	----	(1)							
24	S3	D 9-pin communication port (Equipped with screw)	--	--	--	1	YE90048501200								
25		Shell RS485(SAL-700G-A-19)10	--	--	--	1	YR40048500000								
版本 Ver.B									Notes: (1)Means it's not the material inside the control box.						
						Drawing NO.		HA-30~700-CE-230V-A-9		Scale		Page		9	
						Title		HA-60		Standard		CE		Totally 20 Pages	
						Electrical Components List 1				Voltage				230V	
						Approved by				Frequency				50Hz	
Mark		Before modification		After modification		Date		20170908							
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N0.	Symbol	Name	Manufacturer	Type	Specification	Number	Material number	Remark
26		Terminal block E/GKseries(honeywell)			PCS	5	YE60000003900	
A								A
B								B
C								C
D								D
Notes: (1)Means it's not the material inside the control box.								
版本 Ver.B				Title HA-60 Electrical Components List 2	Drawing NO. HA-30~700-CE-230V-A-10		Scale Standard	Page Totally 20 Pages
			Designer	Version	A		Voltage Frequency	230V 50Hz
			Proofread by	Approved by				
Mark	Before modification	After modification	Modify date	Date	20170908			

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1		2		3		4		5		6		7		8			
NO.		Symbol		Name		Manufacturer		Type		Specification		Number		Material number		Remark	
1		Q1		Main power switch		EATON		P3-63/EA/SVB 63A		63A 3P		1		YE10636300000			
2		Q3		Circuit-breaker		TECO		BM-63C/3040S		40A 3P		1		YE40304003000			
3				Excitation release		CHINT		MX		24V 50/60Hz		1		YE40024000000		A	
4		Q2		Circuit-breaker		TECO		BM-63C/3006S		6A 3P		1		YE403006003000			
5		K1		Contactor		SIEMENS		3RT6015-1AB01		7A 3P 1NO 24V 50/60Hz		1		YE00601502500			
6		K2		Contactor		SIEMENS		3RT6028-1AC20		38A 3P 24V 50/60Hz		1		YE00602802600			
7		K4		Middle relay		HONEYWELL		GR-2C-AC24V		24V 50/60Hz		1		YE03022400300			
8		F1		Overload relay		SIEMENS		3RU6116-1AB0		11-11.6A 690V 50/60Hz		1		YE01160110000			
9		FU1		Fuse base		CHINT		RT28-32		2P		1		YE41032200000			
10				Fuse core		CHINT		10x38 500V		2A		2		YE46002000100			
11		FU2		Fuse		YINDA		FS-10		6x30mm 3A 250V		1		YE41001000000/YE46530500200		B	
12		T		Transformer		BAIYUN		--		IN=230V OUT=24V 80VA		1		YE70023005900			
13		PCB		PCB/SSMD(SHD-40U-C-02) ABS+PC(30%)				TS-02(24VAC)(含通讯)		24V 50/60Hz		1		YE80000101200/YR40400200000			
14				Lamp cover(SIC-015)								1		YR90441300000			
15				Panel for HA105.5x84.5MM2016 Version sickness-65N/ Pressing plate of display screen SHD-80U-A-43(88x53+0.3x1.0)								1		YR0105506600/YR900000003300			
16		S1		Temperature protector		EGO		--		115-320 °C		1		BH90115000150			
17		S2		Thermocouple		SHINI		K TYPE		--		1		----		(1)	
18		H1		Alarm light		SHINI		LED-3051		24V 50/60Hz		1		YE83305100900			
19		X1		Terminal		HOLLEYWELL		--		10mm ²		3		YE60001003200		C	
20										10mm ² PE		1		YE60001003500			
21								--		4mm ²		3		YE60000403200			
22										4mm ² PE		1		YE60000403500			
23										2.5mm ²		2		YE60002503200			
24		M1		Blower		--		--		0.25kW		1		----		(1)	
25		EH1		Heater		SHINI		--		12kW		1		----		(1)	
版本 Ver.B		Notes: (1)Means it's not the material inside the control box.															
						Drawer		Version		A		Title		Drawing NO.		D	
						Designer		Approved by				HA-200		HA-30~700-CE-230V-A-13		Page 13	
						Proofread by						Electrical Components List 1		Standard		CE	
Mark		Before modification		After modification		Modified by		Modify date		Date		20170908		Voltage		230V	
														Frequency		50Hz	

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1		2		3		4		5		6		7		8	
NO.		Symbol		Name		Manufacturer		Type		Specification		Number		Material number	
1		Q1		Main power switch		EATON		P3-63/EA/SVB 63A		63A 3P		1		YE10636300000	
2		Q3		Circuit-breaker		TECO		BM-63C/3063S		63A 3P		1		YE40306303000	
3				Excitation release		CHINT		MX		24V 50/60Hz		1		YE40024000000	
4		Q2		Circuit-breaker		TECO		BM-63C/3010S		10A 3P		1		YE40301003000	
5		K1		Contact		SIEMENS		3RT6016-1AB01		9A 3P 1NO 24V 50/60Hz		1		YE00601602500	
6		K2		Contact		SIEMENS		3RT5044-1AC20		65A 3P 24V 50/60Hz		1		YE00504402600	
7		K4		Middle relay		HONEYWELL		GR-2C-AC24V		24V 50/60Hz		1		YE03022400300	
8		F1		Overload relay		SIEMENS		3RU6116-1EB0		2.8-4.0A 690V 50/60Hz		1		YE01160280000	
9		FU1		Fuse base		CHINT		RT28-32		2P		1		YE41032200000	
10				Fuse core		CHINT		10×38 500V		2A		2		YE46002000100	
11		FU2		Fuse		YINDA		FS-10		6×30mm 5A 250V		1		YE41001000000/YE46630500100	
12		T		Transformer		BAIYUN		--		IN=230V OUT=24V 120VA		1		YE70023005500	
13		PCB		PCB/SSMD(SHD-40U-C-02) ABS+PC(30%)				TS-02(24VAC)(含通讯)		24V 50/60Hz		1		YE80000101200/YR40400200000	
14				Lamp cover(SIC-015)								1		YR90441300000	
15				Panel for HA105.5x84.5MM2016 Version sickness>65N/ Pressing plate of display screen SHD-80U-A-43(88x53±0.3x1.0)								1		YR01105506600/YR900000003300	
16		S1		Temperature protector		EGO		--		115-320 °C		1		BH90115000150	
17		S2		Thermocouple		SHINI		K TYPE		--		1		---- (1)	
18		H1		Alarm light		SHINI		LED-3051		24V 50/60Hz		1		YE83305100900	
19		X1		Terminal		HOLLEYWELL		--		16mm ²		3		YE60001603200	
20										16mm ² PE		1		YE60001603500	
21										4mm ²		3		YE600000403200	
22										4mm ² PE		1		YE600000403500	
23										2.5mm ²		2		YE60002503200	
24		M1		Blower		--		--		0.55kW		1		---- (1)	
25		EH1		Heater		SHINI		--		18kW		1		---- (1)	
版本 Ver.B		Notes: (1)Means it's not the material inside the control box.													
						Drawer		Version		Title		Drawing NO.		Scale	
						Designer		Approved by		HA-400		HA-30~700-CE-230V-A-15		CE	
						Proofread by				Electrical Components List 1				Voltage	
						Checked by		Date		20170908				Frequency	
Mark		Before modification		After modification		Modified by		Modify date						230V	
														50Hz	
D										5		6		7	
										SHINI		信易電熱機械股份有限公司 Shini Plastics Technologies, Inc.		Page 15	
														Totally 20 Pages	
														230V	
														50Hz	

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1		2		3		4		5		6		7		8							
No.	Symbol	Name			Manufacturer	Type	Specification	Number	Material number	Remark											
1	Q1	Main power switch			EATON	P3-63/EA/SVB 63A	63A 3P	1	YE10636300000												
2	Q3	Circuit-breaker			TECO	BM-63C/3063S	63A 3P	1	YE40306303000												
3		Excitation release			CHINT	MX	24V 50/60Hz	1	YE40024000000	A											
4	Q2	Circuit-breaker			TECO	BM-63C/3010S	10A 3P	1	YE40301003000												
5	K1	Contacto			SIEMENS	3RT6016-1AB01	9A 3P INO 24V 50/60Hz	1	YE00601602500												
6	K2	Contacto			SIEMENS	3RT5044-1AC20	65A 3P 24 V 50/60Hz	1	YE00504402600												
7	K4	Middle relay			HONEYWELL	GR-2C-AC24V	24V 50/60Hz	1	YE03022400300												
8	F1	Overload relay			SIEMENS	3RU6116-1EB0	2.8-4.0A 690V 50/60Hz	1	YE01160280000												
9	FU1	Fuse base			CHINT	RT28-32	2P	1	YE41032200000												
10		Fuse core			CHINT	10x38 500V	2A	2	YE46002000100												
11	FU2	Fuse			YINDA	FS-10	6x30mm 5A 250V	1	YE41001000000/YE4630500100	B											
12	T	Transformer			BAIYUN	--	IN=230V OUT=24V 120VA	1	YE70023005500												
13	PCB	PCB/SSMD(SHD-40U-C-02) ABS+PC(30%)				TS-02(24VAC)(含通讯)	24V 50/60Hz	1	YE80000101200/YR40400200000												
14		Lamp cover(SIC-015)						1	YR90441300000												
15		Panel for HA105.5x84.5MM2016 Version sickness-65N/ Pressing plate of display screen SHD-80U-A-43(88x53±0.3x1010						1	YR01105506600/YR900000003300												
16	S1	Temperature protector			EGO	--	115-320 °C	1	BH901150000150												
17	S2	Thermocouple			SHINI	K TYPE	--	1	----	(1)											
18	H1	Alarm light			SHINI	LED-3051	24V 50/60Hz	1	YE83305100900												
19	X1	Terminal			HOLLEYWELL	--	16mm ²	3	YE60001603200												
20							16mm ² PE	1	YE600001603500												
21						--	4mm ²	3	YE60000403200												
22							4mm ² PE	1	YE60000403500												
23							2.5mm ²	2	YE60002503200												
24	M1	Blower			--	--	0.55kW	1	----	(1)											
25	EH1	Heater			SHINI	--	18kW	1	----	(1)											
版本 Ver.B											Notes: (1)Means it's not the material inside the control box.										
						Drawer		Version		Title		Drawing NO.		Scale		Page 17					
						Designer		Approved by		HA-600		HA-30-700-CE-230V-A-17		Standard		Totally 20 Pages					
						Proofread by				Electrical Components List 1				Voltage		230V					
Mark		Before modification		After modification		Modified by		Modify date		Date		20170908		Frequency		50Hz					
D											信易電熱機械股份有限公司 Shini Plastics Technologies, Inc.										
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1		2		3		4		5		6		7		8	
NO.	Symbol	Name	Manufacturer	Type	Specification	Number	Material number	Remark							
1	Q1	Main power switch	EATON	P3-100/EA/SVB100A	100A 3P	1	YE10010000000								
2	Q3	Circuit-breaker	TECO	BM-100D/3080S	80A 3P	1	YE40308003000								
3		Excitation release	CHINT	MX	24V 50/60Hz	1	YE40024.000000		A						
4	Q2	Circuit-breaker	TECO	BM-63C/3010S	10A 3P	1	YE40301003000								
5	K1	Contact	SIEMENS	3RT6016-1AB01	9A 3P 1NO 24V 50/60Hz	1	YE00601602500								
6	K2 K3	Contact	SIEMENS	3RT6028-1AC20	38A 3P 24V 50/60Hz	2	YE00602802600								
7	K4	Middle relay	HONEYWELL	GR-2C-AC24 V	24V 50/60Hz	1	YE030224.003000								
8	F1	Overload relay	SIEMENS	3RU6116-1FB0	3.5-5A 690V 50/60Hz	1	YE01160350000								
9	FU1	Fuse base	CHINT	RT28-32	2P	1	YE41032200000								
10		Fuse core	CHINT	10x38 500V	2A	2	YE46002000100								
11	FU2	Fuse	YINDA	FS-10	6x30mm 5A 250V	1	YE41001000000/YE46630500100		B						
12	T	Transformer	BAIYUN	--	IN=230V OUT=24V 120VA	1	YE70023005500								
13	PCB	PCB/SSMD(SHD-40U-C-02) ABS+PC(30%)		TS-02(24VAC)(含通讯)	24V 50/60Hz	1	YE80000101200/YR404.00200000								
14		Lamp cover(SIC-015)				1	YR904.41300000								
15		Panel for HA105.5x84.5MM2016 Version sickness>65N/ Pressing plate of display screen SHD-80U-A-3(88x53x0.3x1010				1	YR0105506600/YR900000003300								
16	S1	Temperature protector	EGO	--	115-320 °C	1	BH90115000150								
17	S2	Thermocouple	SHINI	K TYPE	--	1	----	(1)							
18	H1	Alarm light	SHINI	LED-3051	24V 50/60Hz	1	YE83305100900								
19	X1	Terminal	HOLLEYWELL	--	10mm ²	6	YE60001003200		C						
20					10mm ² PE	2	YE60001003500								
21				--	4mm ²	3	YE600004.03200								
22					4mm ² PE	1	YE600004.03500								
23					2.5mm ²	2	YE60002503200								
24	M1	Blower	--	--	230V 50/60Hz 1.1kW	1	----	(1)							
25	EH1	Heater	SHINI	--	230V 50/60Hz 24kW	1	----	(1)							
版本 Ver.B		Notes: (1)Means it's not the material inside the control box.													
				Version	Title		Drawing NO.		Scale		Page		D		
					HA-700		HA-30~700-CE-230V-A-19		Standard		19				
				Approved by	Electrical Components List 1				CE		20		Pages		
				Proofread by					Voltage		230V				
				Checked by	20170908				Frequency		50Hz				
Mark	Before modification	After modification	Modified by	Modify date	Date										
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