

1.0 Reference and Address			
Report Number	105758562CRT-001	Original Issued: 21-Mar-2024	Revised: 18-May-2026
Standard(s)	Movable and Wall- or Ceiling-Hung Electric Room Heaters [ANSI/UL 1278:2014 Ed.4+R:08Mar2024]		
Applicant	Lasko Products LLC	Manufacturer 1	Guangdong Billion Plus Electrical Technology Limited
Address	820 Lincoln Avenue, West Chester PA 19380	Address	Building 1, Building 2, The Floor 1 -4 and Area 2 of Floor 6 of Building 3, Building 4, The Floor 2 -4 of Building 6, No. 28 Zone D, Sanshui Industrial Park, Foshan City, Guangdong Province, P. R.
Country	USA	Country	China
Contact	Parvathi Kodandaraman	Contact	Zou Yunli
Phone	610-719-8949	Phone	(86)757-87389266
FAX	610-692-9325	FAX	NA
Email	pkodandaraman@laskoproducts.com	Email	zyl@gdzjdg.com
Manufacturer 2	PT SUMA ARTHA PERKASA		
Address	JALAN MILLENIUM RAYA F 02/02, Desa/Kelurahan Peusar, Kec. Panongan, Kab. Tangerang, Provinsi Banten, Kode Pos: 15710		
Country	Indonesia		
Contact	Cain Chen		
Phone	(86)757-87389266		
FAX	NA		
Email	cain@gdzjdg.com		

2.0 Product Description	
Product	Electric Tower Heater
Brand name	Lasko
Description	The product covered by this report is a household, indoor use, cord connected table or floor heater.
Models	CT16450, CT16451, CT16558, CT16560, CT16670, CT16570, CT16650.
Model Similarity	Model CT16450 is manually switch controlled. Model CT16570 is a capacitive touch type. Model CT16560 is a capacitive touch type with a remote control Model CT16670 is similar to Model CT16558 except for control/display pcb, control panel graphics and remote control. Model CT16558 is Electronic controlled version with adjustable thermostat. Model CT16451 is Manually switch controlled Model CT16650 is a capacitive touch type, without a remote control. Model CT16451 is identical to Model CT16450 except for color. Model CT16650 is a capacitive touch type, without a remote control.
Ratings	120V, 12.5A or 1500W, 60Hz
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External front view of CT16670



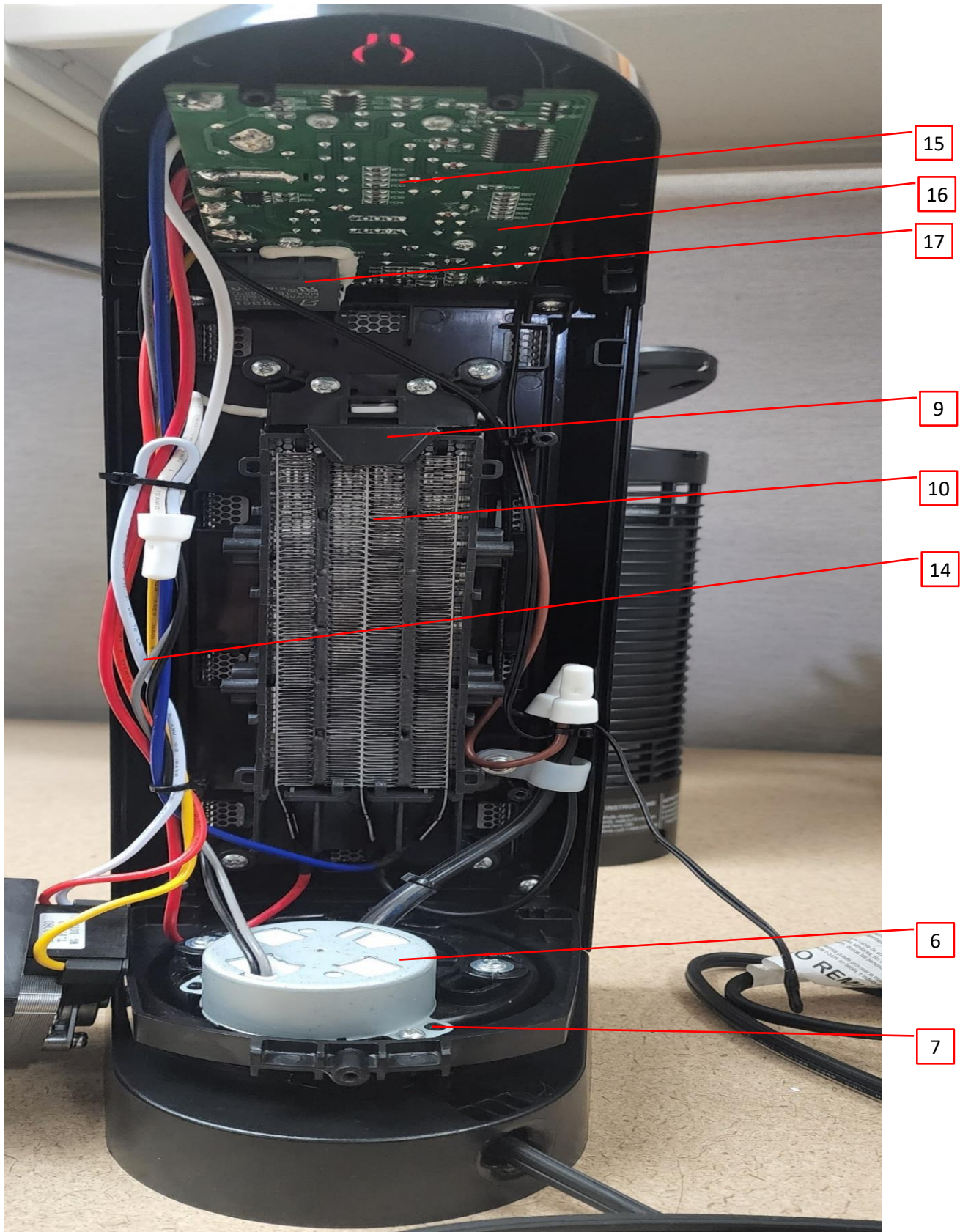
3.0 Product Photographs

Photo 2 - External rear view of CT16670



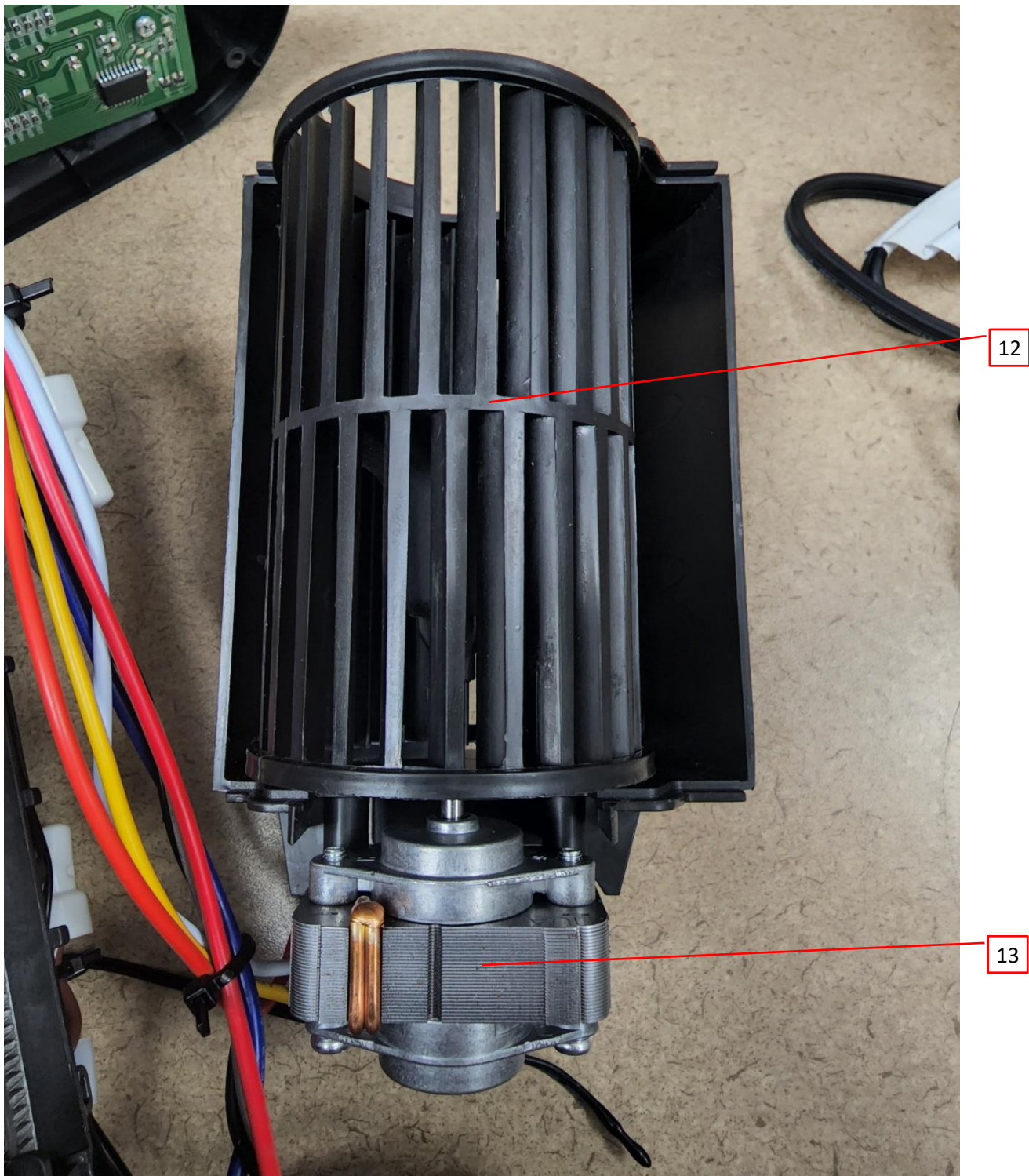
3.0 Product Photographs

Photo 3 - Internal components view



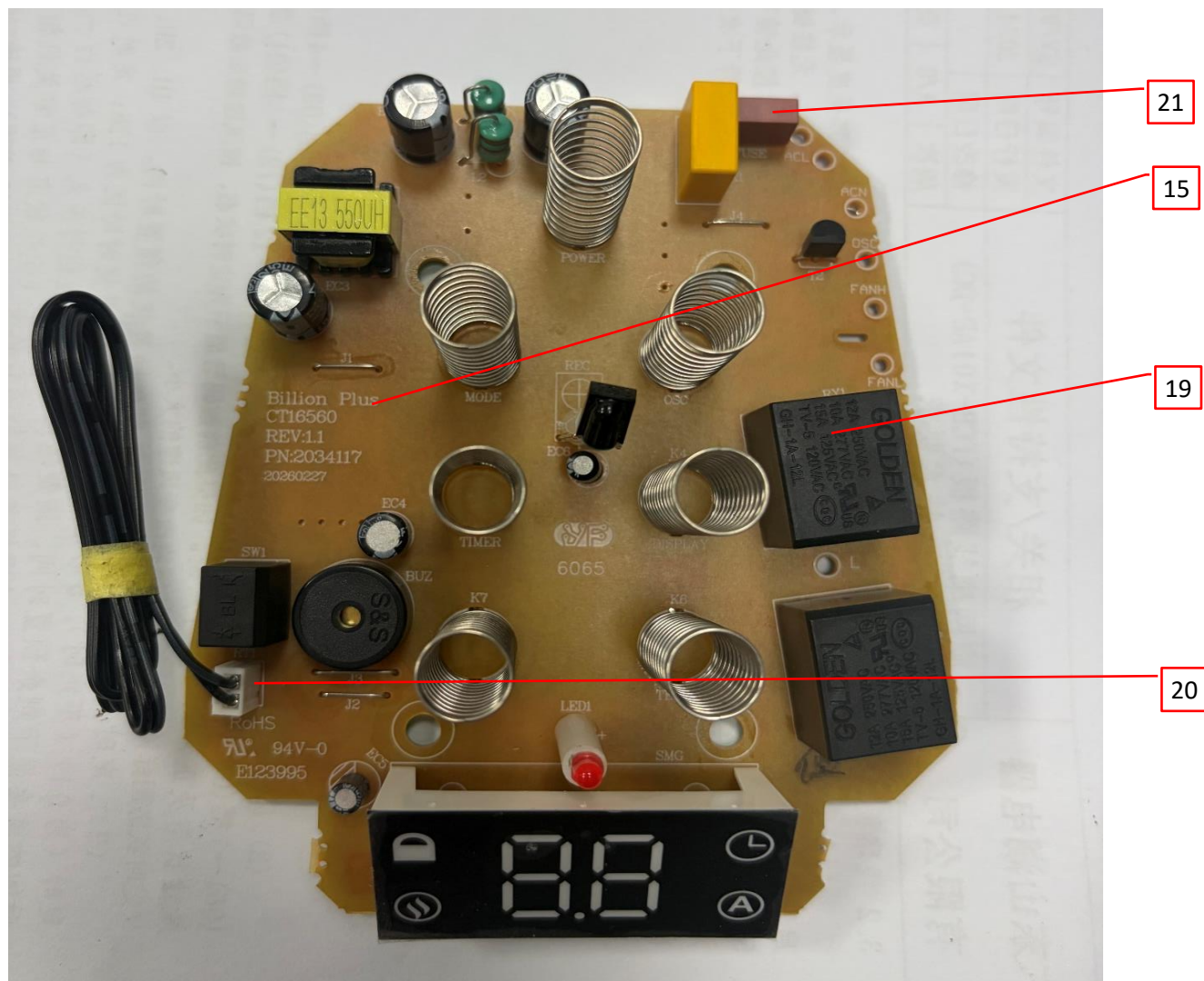
3.0 Product Photographs

Photo 4 - Motor assembly



3.0 Product Photographs

Photo 5 - PCB view, Model CT16560



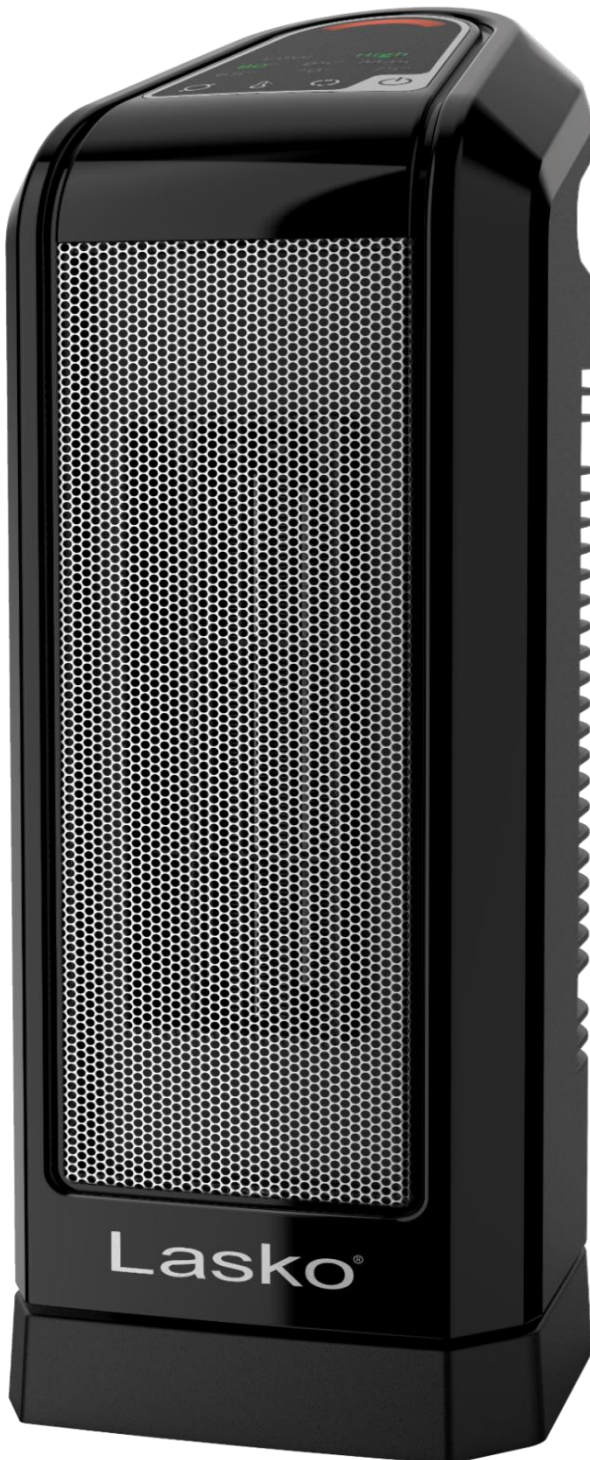
3.0 Product Photographs

Photo 6 - Model CT16650 External View



3.0 Product Photographs

Photo 7 - Model CT16558 External View



3.0 Product Photographs

Photo 7a - Model CT16560 External View



3.0 Product Photographs

Photo 8 - PCB 2033596, Sounds Electric Co. Ltd. Front View. Model CT16558

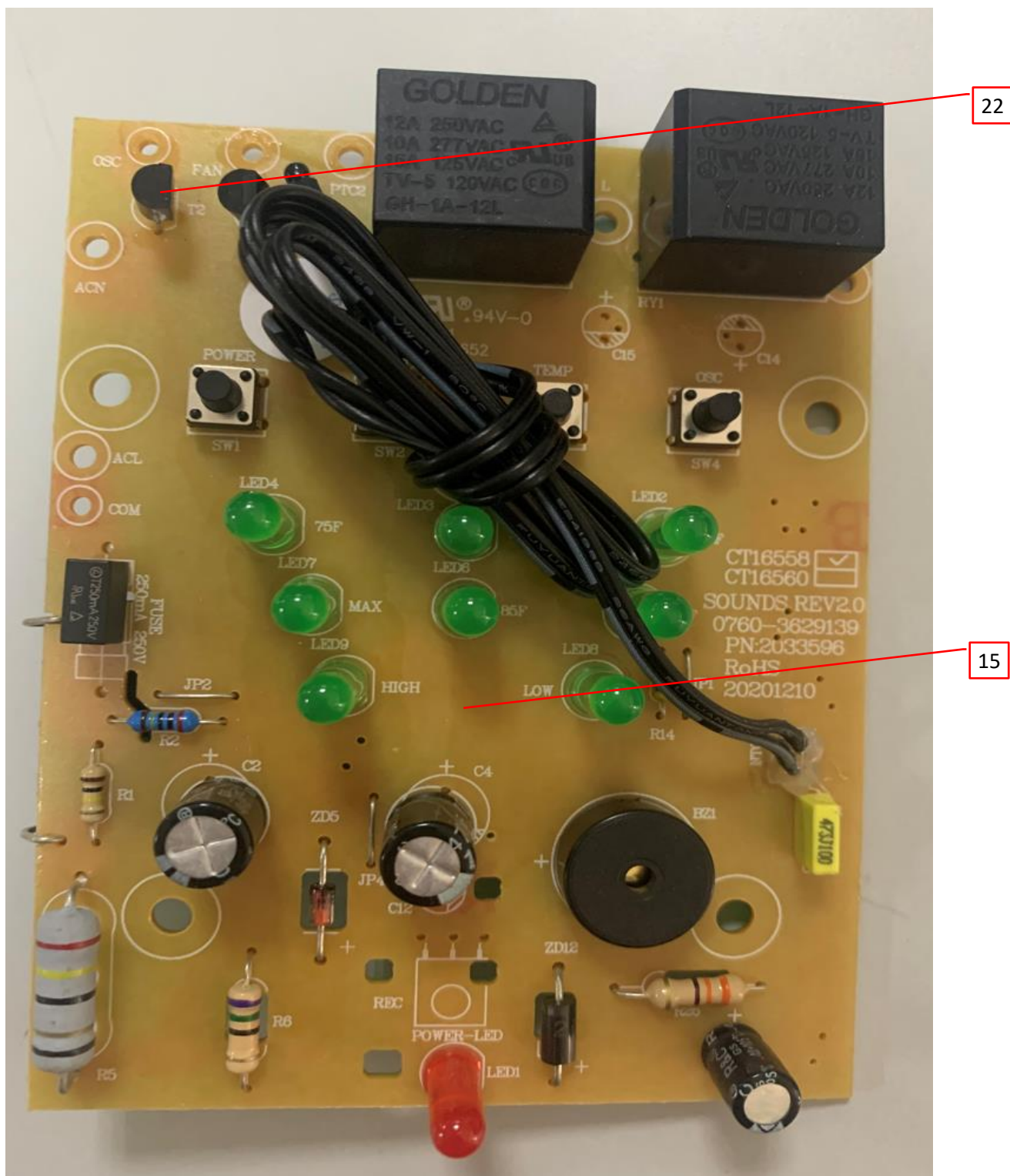


Photo 9 - PCB 2033596, Shenzhen Topace Technology Co. Ltd. Front View. Model CT16558.



3.0 Product Photographs

Photo 12 - Model CT16450 Control Area



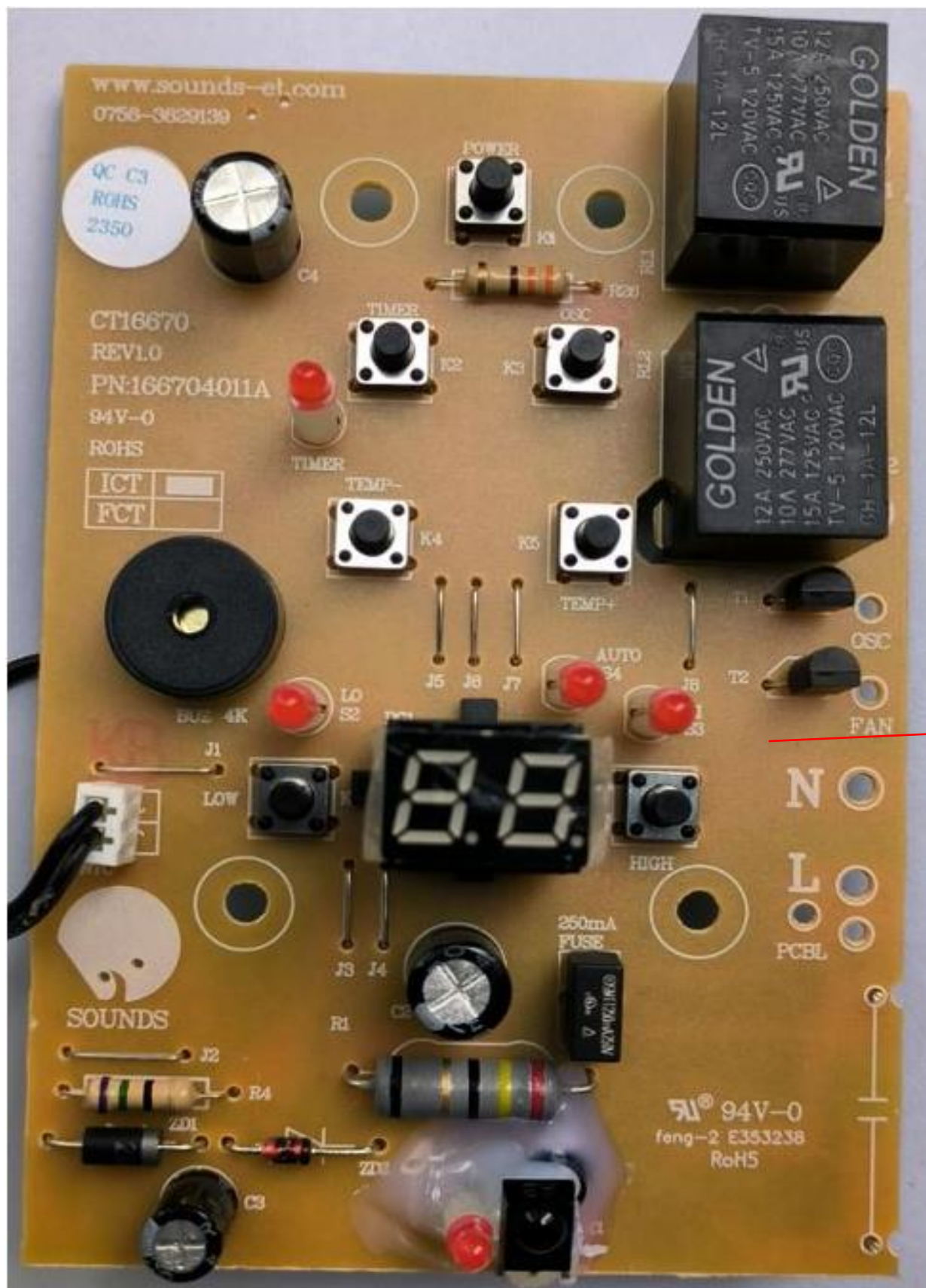
3.0 Product Photographs

Photo 13 - Model CT16558 Top View



3.0 Product Photographs

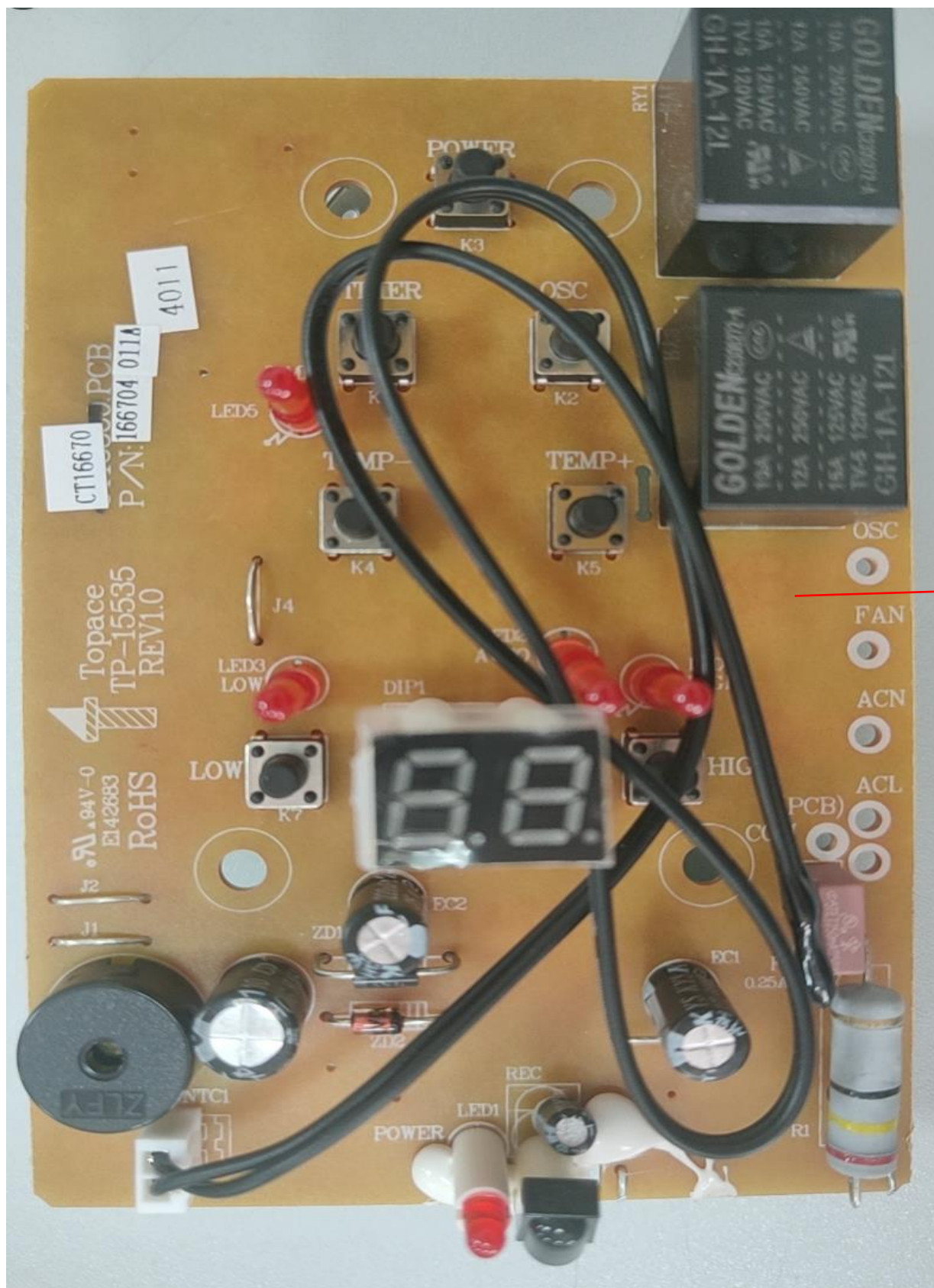
Photo 14 - PCB, Zhuhai Sounds Electric Co., LTD., Used in Model CT16670



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3.0 Product Photographs

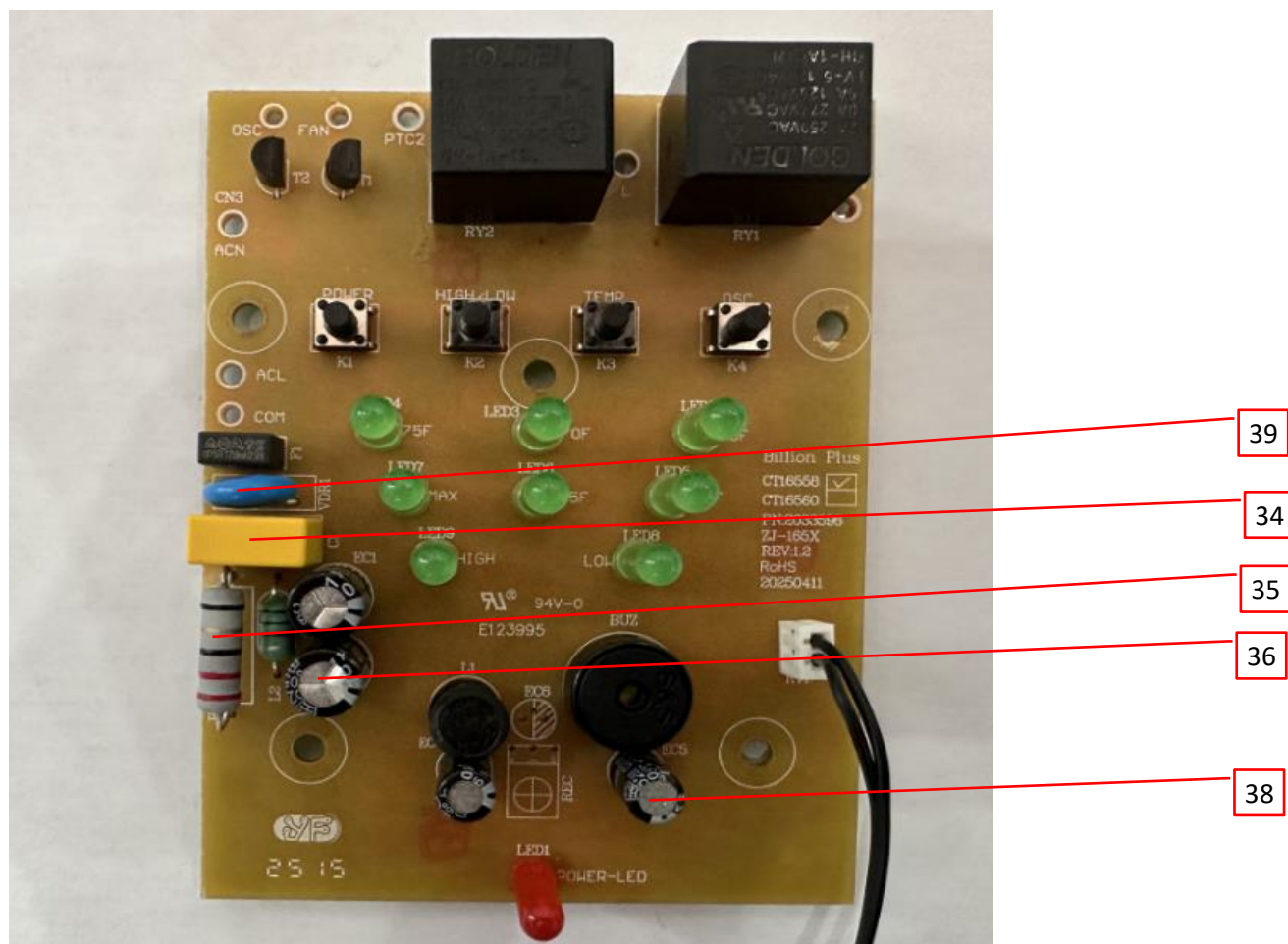
Photo 15 - PCB, Shenzhen Topace Technology Co. Ltd., Used in Model CT16670



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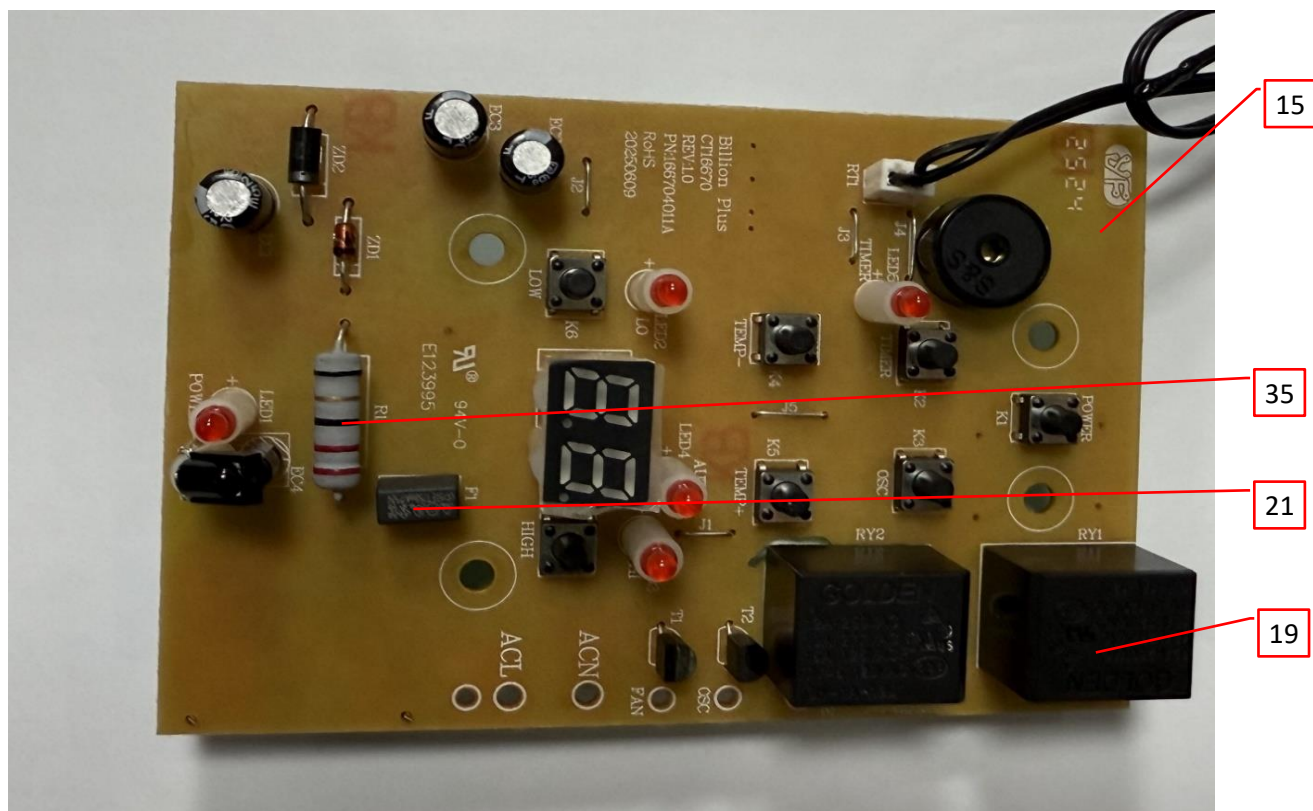
3.0 Product Photographs

Photo 17 - PCB, Guangdong Billion Plus, 2033596, Used in model CT16558



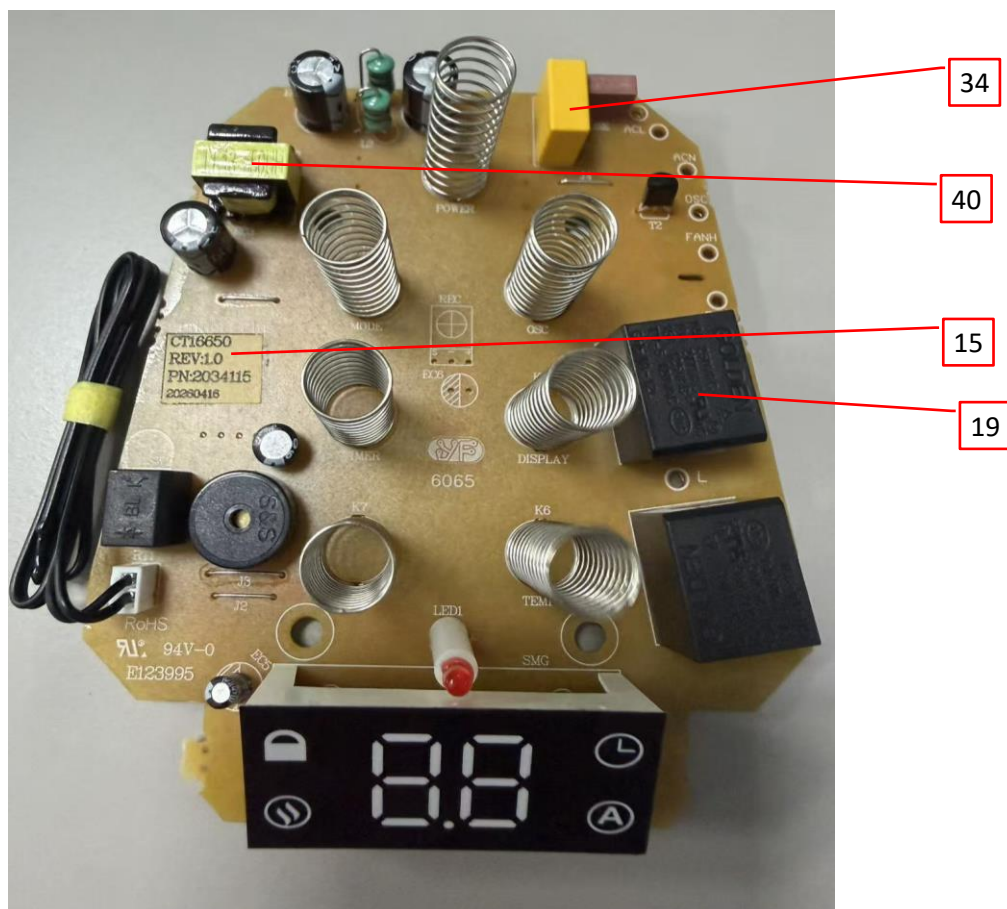
3.0 Product Photographs

Photo 18 - PCB, Guangdong Billion Plus, 166704011A, Used in model CT16670



3.0 Product Photographs

Photo 19 - PCB, Billion Plus, 2034115, Used in model CT16650



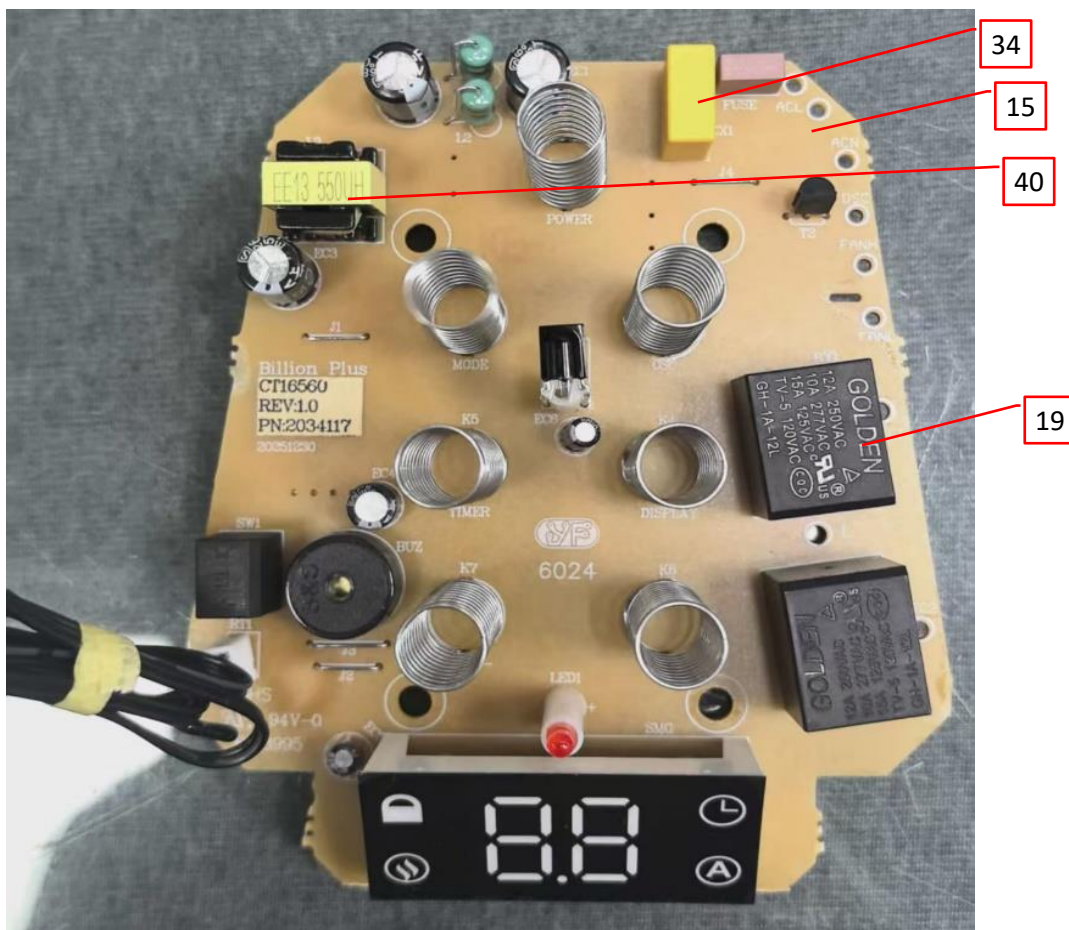
3.0 Product Photographs

Photo 20 - PCB, Billion Plus, 2034116, Used in model CT16570



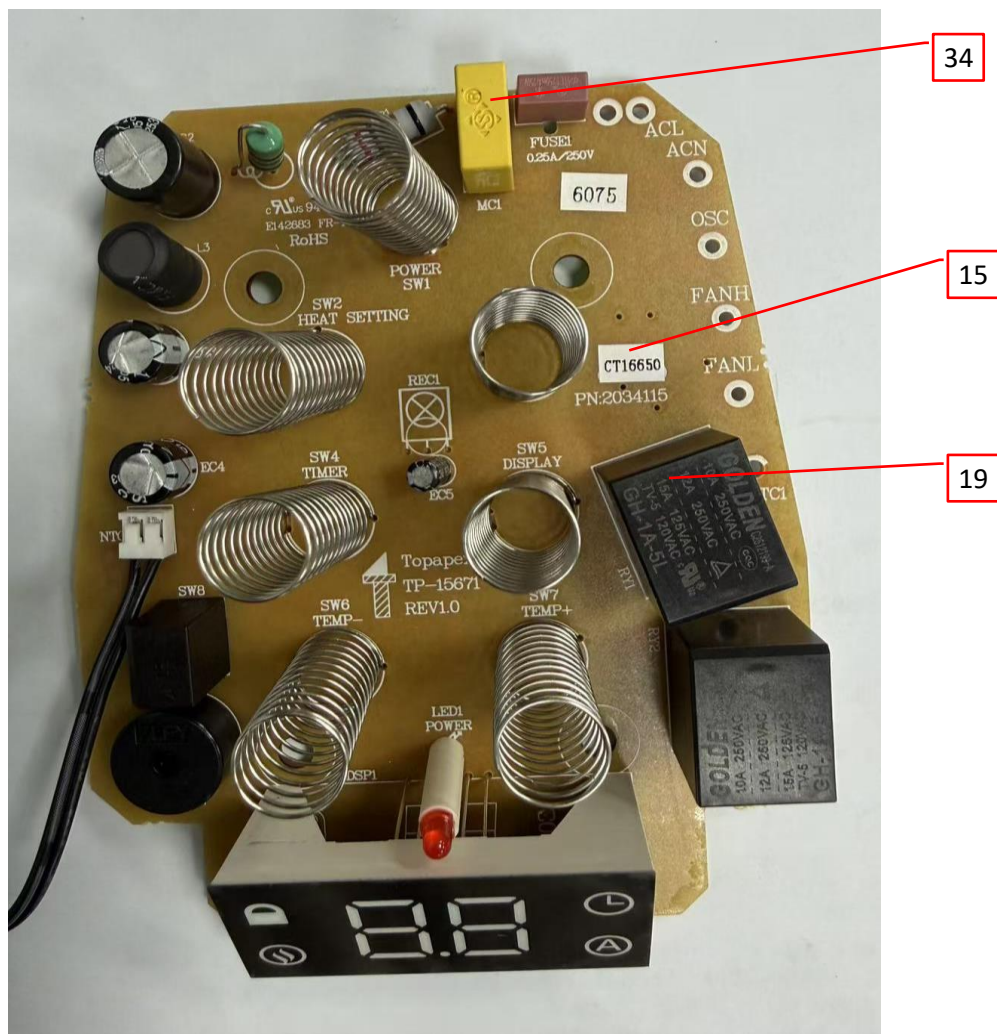
3.0 Product Photographs

Photo 21 - PCB, Billion Plus, 2034117, Used in model CT16560



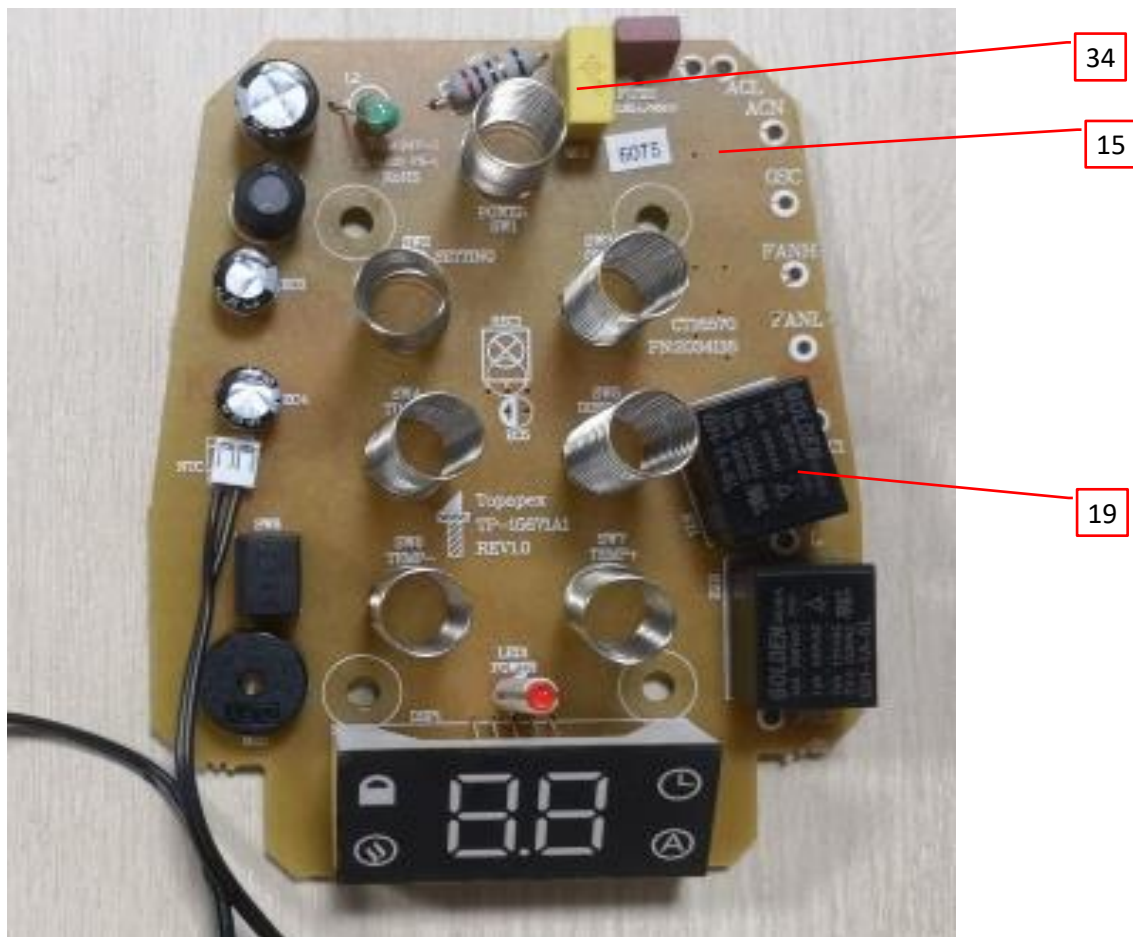
3.0 Product Photographs

Photo 22 - PCB, Topapex, 2034115, Used in model CT16650



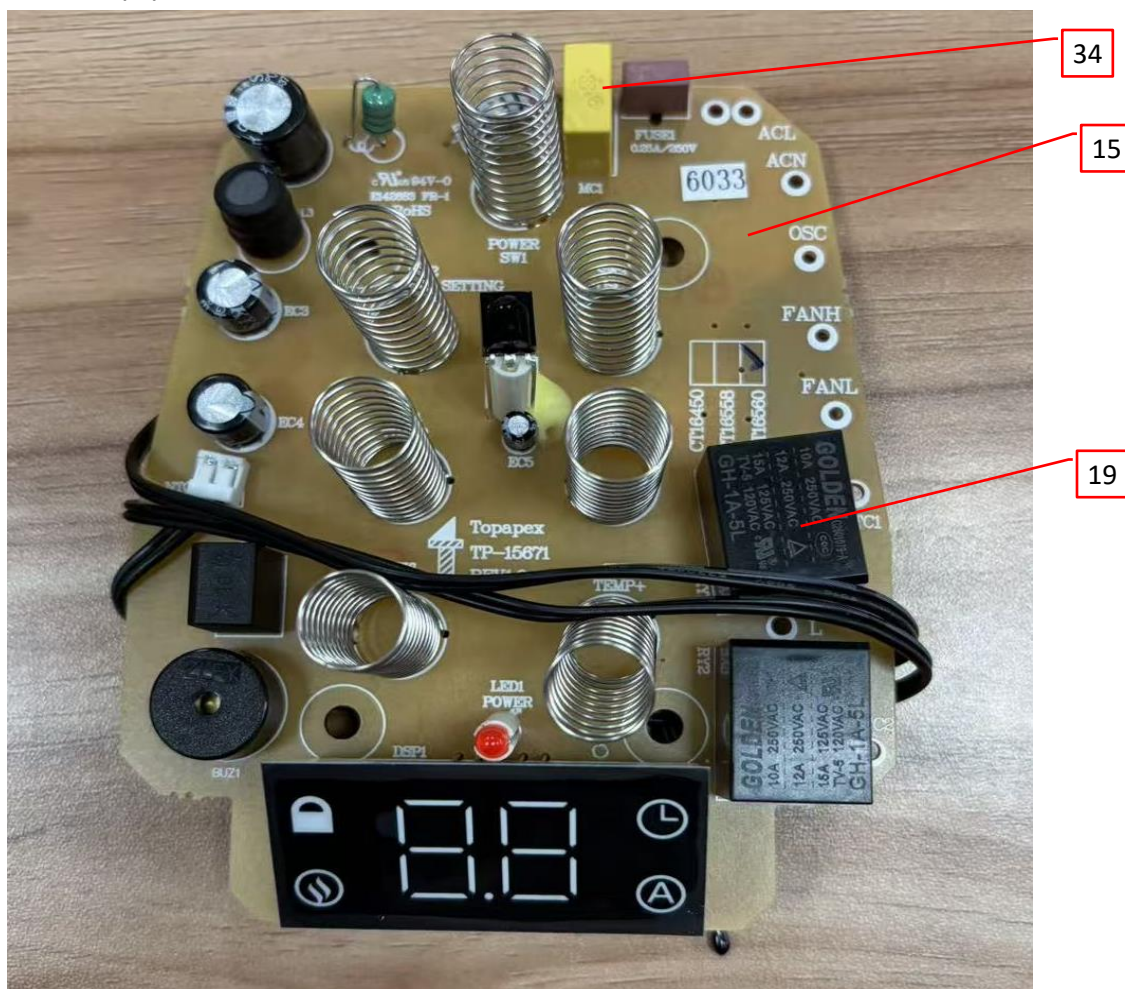
3.0 Product Photographs

Photo 23 - PCB, Topapex, 2034116, Used in model CT16570



3.0 Product Photographs

Photo 24 - PCB, Topapex, 2034117, Used in model CT16560



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	1	Metal Grill	Various	C.R.S.	Staggered holes, 9 per inch, Ø2.28mm min, Ø2.36mm max. Dimensions: 10 1/8" (L) x 3 1/4" (W), [257mm (L) x 82.7mm (W)]	NR
1	2	Front Body	LG Chem Huizhou Petrochemical Co., Ltd	AF312A	ABS, Rated 94V-0, 5VB, 85°C, min 2.0mm thickness. Front Body serves as a Front Grill Holder, with an opening of 10 1/8" (L) x 3 1/4" (W), [257mm (L) x 82.7mm (W)].	cURus
			LG Chem Ltd	AF305D	ABS, Rated 85°C, 94-V0, Min 1.5mm thick.	cURus
			Polyrocks Chemical Co., Ltd	7001(+)	ABS, Rated 60°C, 94-V0, Min 1.5mm thick.	cURus
2	3	Rear Body	LG Chem Huizhou Petrochemical Co., Ltd	AF312A	ABS, Rated 94V-0, 5VB, 85°C, min 2.0mm thickness. Dimensions: 13 1/2" (L) x 5" (W) Air intake holes 5.5mm (L) x 26mm (W)	cURus
			LG Chem Ltd	LUPOL GP1000F(#)	PP, 94V-0, 120°C max, min 1.5mm thick	cURus
			Kingfa Sci & Tech co., Ltd	PP-R0508	PP, 94V-0, 120°C max, min 1.5mm thick	cURus
			LG Chem Ltd	AF305D	ABS, Rated 85°C, 94-V0, Min 1.5mm thick.	cURus
			Polyrocks Chemical Co., Ltd	7001(+)	ABS, Rated 60°C, 94-V0, Min 1.5mm thick.	cURus
1	4	Base	LG Chem Huizhou Petrochemical Co., Ltd	AF312A	ABS, Rated 94V-0, 5VB, 85°C. min 2.0mm thickness. Dimensions: 6" (L) x 5" (W) x 1 1/4" (H)	cURus
			LG Chem Ltd	LUPOL GP1000F(#)	PP, 94V-0, 120°C max, min 1.5mm thick	cURus
			Kingfa Sci & Tech co., Ltd	PP-R0508	PP, 94V-0, 120°C max, min 1.5mm thick	cURus
			LG Chem Ltd	AF305D	ABS, Rated 85°C, 94-V0, Min 1.5mm thick.	cURus
			Polyrocks Chemical Co., Ltd	7001(+)	ABS, Rated 60°C, 94-V0, Min 1.5mm thick.	cURus
			Various	Various	With HPN-R, 16AWG/2C. Rated VW-1,300V 105°C provided with molded on 1-15P 2-pronged polarized attachment plug, rated 125V, 15A. Minimum cord length of 1.8m (6ft.) and a maximum cord length of 2.4m (8ft.).	cURus or cETLus Recognized

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
2	5	Cord Set	Win Hand Industry(HK) Co., Ltd	HPN-R	With HPN-R, 16AWG/2C. Rated VW-1,300V 105°C provided with molded on 1-15P 2-pronged polarized attachment plug, rated 125V, 15A. Minimum cord length of 1.8m (6ft.) and a maximum cord length of 2.4m (8ft.).	cETLus
			Unirise Electric Wire & Cable Co., Ltd	HPN-R	16AWG/2C. Rated VW-1,300V 105°C provided with molded on 1-15P 2-pronged polarized attachment plug, rated 125V, 15A. (UE-221)Minimum cord length of 1.8m (6ft.) and a maximum cord length of 2.4m (8ft.).	cULus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3	6	Oscillation Motor	Foshan Shunde Hengxing Micro Motor Co., Ltd	TYJ50-8A	Rated 120V, 60Hz, 4W, 3RPM	cURus
			Zhaoqing City Gaoyao District Hengjun Electrical Appliance Co., Ltd.	TY-50		UR
3	7	Oscillation Plate	LG Chem Huizhou Petrochemical	AF312A	ABS, Rated 75°C, 94-V0, Min 1.5mm thick.	cURus
			LG Chem Ltd	AF305D	ABS, Rated 85°C, 94-V0, Min 1.5mm thick.	
			Polyrocks Chemical Co., Ltd	7001(+)	ABS, Rated 60°C, 94-V0, Min 1.5mm thick.	
3	8	Bushing (Strain Relief) (Not Shown)	NAN YA PLASTICS CORP PLASTICS 3RD DIV	6410G5	PA66, Rated 94V-0, 130°C, min 0.75mm thickness.	cURus
			Kingfa SCI & Tech Co., Ltd	PA66-R11G30(##)	PA66, V0, 130°C, Min. thickness 0.75mm	cURus
3	9	TCO Holder	Kingfa SCI & Tech Co., Ltd	PBT-RG301(r1)	PBT, Rated 94V-0, 130°C, min 1.5mm thickness.	cURus
			NAN YA PLASTICS CORP PLASTICS 3RD DIV	1403G3		
			LG Chem (Tianjin) Engineering Plastics Co.,Ltd	LUPOX GP-2306F(#)	PBT, V0,140°C, Min thickness 1.5mm,	
3	10	Heating Element	Dongguan Longyang Electronic Technology Co. Ltd	LYB-120-1500	120VAC, 60Hz, 1500W.	cURus
			Kai Yi Electric Heating(M) SDN BND.	LYB-120-1500		
			Dongguan City Longkey Electronic Co Ltd	RFB-120-1500		

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3	11	Manual Reset TCO (Not Shown)	Auone Electronic Mfg Ltd	AUT-75-P	125VAC, 16A, 75°C	cURus
			Foshan Eagle Technology Co Ltd	AMT-P2		
			Consummate Electrical Co Ltd	A01P	125VAC, 15A, 75°C	cURus
4	12	Blower Wheel	Polyrocks Chemical Co. Ltd.	168(+)(f1)	PP, Rated 94V-0, 120°C, min 1.5mm thickness.	cURus
			LG Chem (Guangzhou) Engineering Plastics Co., Ltd	LUPOL GP1000F(#)	PP, Rated 94V-0, 120°C, min 0.75mm thickness.	
			LG Chem Ltd	LUPOL GP1000F(#)	PP, Rated 94V-0, 120°C, min 0.75mm thickness.	
4	13	Motor	Guangdong Billion Plus Electrical Technology Limited	2033080	120VAC 60Hz, 0.25A	See 5.0
			PT SUMA ARTHA PERKASA	2033080ID	120VAC 60Hz, 0.25A	See 5.0
			Guangdong Billion Plus Electrical Technology Limited	2033421	120VAC 60Hz, 0.25A	See 5.0
			PT SUMA ARTHA PERKASA	2033421ID	120VAC 60Hz, 0.25A	See 5.0
3	14	Internal Wiring	Various	1015	24-16AWG, 105°C. 600V	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3, 5, 8, 9, 10, 11, 14, 15, 18, 19, 20, 21, 22, 23, 24	15	Power Board	Sounds Electric Co. Ltd.	2033596	Consists of Items 16-25. Used in Model CT16558, 120V, 60Hz.	NR
			Guangdong Billion Plus Electrical Technology Limited		Consists of Items 16,19,20,21,22,34,35,36,38,39. Used in Model CT16558. 120V, 60Hz.	NR
			Shenzhen Topapex Technology Co. Ltd.		Consists of Items 16-21, 23, 26. Used in Model CT16558, 120V 60Hz	NR
			Sounds Electric Co. Ltd.	166704011A	94V0, 130°C, 215.9*155. 32/4, 1.6mm thick. Employs components 16-25, 27. Used in model CT16670	NR
			Guangdong Billion Plus Electrical Technology Limited		120V, 60Hz. No remote acceptance, Consists of Items 17,19,21,22,23,26,27,35. Used in Model CT16670.	NR
			Shenzhen Topapex Technology Co. Ltd.		120V, 60Hz. No remote acceptance, Consists of Items 16-21,23,24,27. Used in Model CT16670.	NR
			Guangdong Billion Plus Electrical Technology Limited	2034115	120V, 60Hz. No remote acceptance, Consists of Items 16, 19-22, 24, 27, 34, 37, 40-43. Used in Model CT16650.	NR
			Shenzhen Topapex Technology Co. Ltd.		120V, 60Hz. No remote acceptance, Consists of Items 16, 19-21, 23, 34, 36, 42, 43. Used in Model CT16650.	NR
			Guangdong Billion Plus Electrical Technology Limited	2034116	120V, 60Hz. No remote acceptance, Consists of Items 16, 19-22, 24, 27, 34, 37, 40-43. Used in Model CT16570.	NR
			Shenzhen Topapex Technology Co. Ltd.		120V, 60Hz. No remote acceptance, Consists of Items 16, 19-21, 23, 34, 36, 42, 43. Used in Model CT16570.	NR
			Guangdong Billion Plus Electrical Technology Limited	2034117	120V, 60Hz. No remote acceptance, Consists of Items 16, 19-22, 24, 27, 34, 37, 40-43. Used in Model CT16560.	NR
			Shenzhen Topapex Technology Co. Ltd.		120V, 60Hz. No remote acceptance, Consists of Items 16, 19-21, 23, 27, 34, 36, 42, 43. Used in Model CT16560.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3	16	PCB	Kingboard Laminates Holdings Ltd	KB series	94V-0, Min thickness 1.45mm, 130°C	UR
			Various	Various	Rated 94V-0, 130°C, 1.6mm thick	UR
3	17	Capacitor	Various	CBB61	250V, 3.0uF, T85°C Located on bottom of PCB (C1 or MC1)	UR
5, 18, 19, 20, 21, 22, 23, 24	19	Relay	Shenzhen Golden Electrical Appliances Co., Ltd	GH-1A-12L	15A, 125V / 10A, 277V	UR
			Zhongshan Xiaolan Guoke Relay Factory	GK3FF	15A, 125VAC	UR
			Shenzhen Golden Electrical Appliances Co., Ltd	GH-1A-5L	Switched ratings: 15A, 125V	cURus
			Sanyou Corporation Limited	SRD-S-105DM	Switched ratings: 15A, 125V	cURus
				SRD-S-112DM	Switched ratings: 15A, 125V	cURus
			Zhejiang Meishuo Electric Technology Co., Ltd	MPA-S-105-A	Switched ratings: 15A, 125V	cURus
5	20	Ribbon Wire	Various	2468	26AWG, 2P, 7×0.15mm	UR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
5, 18	21	Fuse	Various	Various	250mA, 250Vac, Slow blow style	UR
					1A, 250Vac, Slow blow style	
			Shenzhen Lanson Electronics Co., Ltd	SMT	250mA 250V	UR
					1A 250V	
			XC Electronics (Shenzhen) Corp Ltd	5TE	250mA 250V	UR
					1A 250V	
8	22	Triac	Shanghai Seefull Electronic Co. Ltd	T1M5F	TO-92, Rated 1A	NR
			Yixing Dongchen Electronics Tech Co Ltd	BT131		
			Advanced (Shenzhen) Electronics Co.,Ltd.	S1D80		
			Advanced Electronics Co.,Ltd.	ADS1D80	1A, 800V	NR
			Advanced (Shenzhen) Electronics Co.,Ltd.	ADS1D80	1A, 800V	NR
			Xiamen Tagore Electronic Technologies	TG-Z0607NA	1A, 800V	NR
			Jiejie Microelectronics Co., Ltd	JST132L-600D	1A, 800V	NR
			Jiangsu Goodcat Semiconductor Co., Ltd	97A6	1A, 800V	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
10	23	Electrolytic Capacitor	Various	Various	Rated 470uF, 16V, 105°C. Located at C4, EC3, or EC2	NR
10	24	Electrolytic Capacitor	Various	Various	Rated 470uF, 25V, 105°C. Located at C2 or EC3.	NR
10	25	Electrolytic Capacitor	Various	Various	Rated 100uF, 25V, 105°C. Located at C3 or EC3.	NR
9	26	Electrolytic Capacitor	Various	Various	Rated 220uF, 25V, 105°C. Located at EC1, EC2, EC3.	NR
11	27	Electrolytic Capacitor	Various	Various	Rated 47uF, 16V, 105°C. Located at C5, C12, EC4, EC5 or EC6.	NR
1	28	Cord Tag	Lasko	TYVEK L 1057D	Label with adhesive, Dragon-FC Ink imprinted on top of base material. Rated for use on HPNR cord 16AWG or larger. If the component does not bear the mark of conformity, refer to ETL report 100775497CRT-001 to inspect this.	ETLus Recognized
			Zhongshan Zhantu Printing Co., Ltd	ZT969-8	Label with adhesive, Ink imprinted on top of base material. Rated for use on HPN-R cord 16AWG or larger.	URus
12	29	Knob	LG Chem Huizhou Petrochemical Co., Ltd	AF312A	ABS Rated 94V-0 5VB 85°C min 2.0mm thickness. Used in Model CT16451 only	cURus
12	30	3-Way Rocker Switch	Guangzhou Taiheng Electric Appliance Co. Ltd	TH1	125VAC, 15A, Used in Model CT16450, CT16451 only.	cETLus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
12	31	2-Way Rocker Switch	Towei Electronics Co. Ltd	TRM1	120V, 15A, 60Hz. Used in Model CT16451 only.	cURus
			Guangzhou Taiheng Electric Appliance Co. Ltd	TH1	125VAC, 15A, Used in Model CT16451 only.	cETLus
1	32	Label (Not Shown)	Zhongshan Zhantu Printing Factory	ZT969-1	80°C, Located on back of Base	cURus
			Lecco (Kaiping) Adhesive Products Co Ltd	0743	80°C, Located on back of Base and 125°C, located on metal grill	UR
3	33	Thermostat (Not Shown)	Auone Electronic Mfg Ltd	901B	125Vac, 15A/250Vac, 10A(Resistive loading), Max Temp:260°C, Max ambient temp:T300°C. Used by CT16450 and CT16451	cURus
			Chung Shun Industrial Co	CH-002	16A, 250VAC, 15A,125VAC. Used by CT16450 and CT16451	
16, 17, 19, 20, 21, 22, 23, 24	34	Capacitor	Guangdong Fengming Electronic Tech Co., Ltd	MKP-X2	0.1uF, 250V, T105°C. Located on bottom of PCB (CX1) Used in models CT16560, CT16570, and CT16650.	cURus
					0.1uF, 250V, T105°C. Located on bottom of PCB (C1) Used in models CT16558.	
			Guangdong JURCC Electronics Co. LTD.	MPX Series	(224K)0.22uF 275V, T105°C/110°C. Located on bottom of PCB (MC1) Used in models CT16560, CT16570, and CT16650.	cURus
			Various	Various	0.1uF or (224K)0.22uF 275V, T105°C or T110°C. Located on bottom of PCB (CX1, MC1) Used in models CT16560, CT16570, and CT16650.	cURus
					0.1uF, 250V, T105°C. Located on bottom of PCB (C1) Used in models CT16558.	
16, 17, 18	35	Resistor	Various	Various	2W/22Ω(R1). Used in models CT16558 and CT16670.	NR
16, 17	36	Electrolytic Capacitor	Various	Various	Rated 4.7uF, 400V, 105°C. Located at EC1, EC2. Used in models CT16558.	NR
16, 17	37	Electrolytic Capacitor (not shown)	Various	Various	Rated 100uF, 16V 105°C. Located at EC6 or EC4. Used in model CT16560, CT16650, CT16570.	NR

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16, 17	38	Electrolytic Capacitor	Various	Various	Rated 220uF, 16V, 105°C. Located at EC5. Used in models CT16558.	NR
16, 17	39	Varistor	Various	Various	10K471 located at VDR1. Used in models CT16558.	NR
19, 20, 21	40	Inductor	Shenzhen Tong Kai Yuan Technology Co., Ltd	AL0510-332K	3.3mH±10%	NR
			Dongguan Kunhua Electronic Technology Co., Ltd	Various	1mH±10%	NR
			Shenzhen Tong Kai Yuan Technology Co., Ltd	EE13	550μH±10%	NR
			Shenzhen Tengqi Electronics Co., Ltd	Various	1mH±10%	NR
19, 20, 21, 22, 23, 24	41	Aluminum Electrolytic Capacitor (Not Shown)	NanTong TongRong Electronic Co.,LTD.	Various	10μF±20%, 250V max, 105°C max	NR
19, 20, 21, 22, 23, 24	42	Optical Tilt Switch	Dongguan Bailing Electron Co., Ltd	BL-3030X-45	5V, 10mA, 94V-0	NR
				BL-1250-45	5V, 10mA, 94V-0	NR
19, 20, 21, 22, 23, 24	43	NTC Cable	Zhongshan City Boyu Wire Co., Ltd	2468	26AWG, 300V max, 80°C max	cURus
			Dongguan Xiehe Wire Co. Ltd		26AWG, 300V max, 80°C max	
			Dongguan Zelongkang Wire Co., Ltd		26AWG, 300V max, 80°C max	
			Dongguan Wenchang Electronic Co,m Ltd		26AWG, 300V max, 80°C max	
			Various	Various	26AWG, 300V max, 80°C max	

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
19, 20, 21, 22, 23, 24	44	Triac	Jiangsu Goodcat Semiconductor Co., Ltd	LF1A80CA2	1A, 800V	NR
				97A6		
			Advanced (Shenzhen) Electronics Co., Ltd.	D1D80S	1A, 800V	NR
				ADS1D80		
			Xiamen Tagore Electronic Technologies	TG-Z0607NA	1A, 800V	NR
			Jiejie Microelectronics Co., Ltd	JST132L-600D	1A, 800V	NR
			Various	Various	1A, 800V	NR
NOTES: 1) Not all item numbers are indicated (called out) in the photos, as their location is obvious. 2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used. 3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.						

5.0 Critical Unlisted CEC Components

INSULATED COIL				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
4	13	Motor	Guangdong Billion Plus Electrical Technology Limited	2033080
Electrical Rating: 120V, 0.25A, 60Hz				Insulation class A
Component Standard used: UL 1004-1, UL 1004-3				
MATERIALS LIST (refer to illustrations 4 and 4a for assembly drawing)				
Component	Manufacturer	Type/model	Dimensions/thickness/assembly information	
Stator Core	Wuhan Iron and Steel (Group) Company	Steel	Steel, 0.25mm to 2.2mm Thick	
	Baoshan Iron and Steel Co., Ltd.			
Rotor	Foshan Nanhai Huaxing Electric Appliance	AL+Steel	12mm, Aluminum + Steel	
	Factory/Guangzhou Zhongdian Electric Co., Ltd.			
Coil	ZHAOQING GAOYAO LIXING INDUSTRIAL & TRADING CO LTD	UEW QA-2	155°C Ø0.19*1750	
	Shenzhen Dayang Industry Co. Ltd			
Lead Wire	Various	1015	18-20AWG, 105°C, 600V	
Thermal Fuse	ZHANGZHOU AUPO ELECTRONICS CO LTD	A2-F	Rated 250Vac, 2A, Tf=115.	
	XIAMEN SET ELECTRONICS CO LTD	K2		
Bobbin	TORAY INDUSTRIES INC	CM3004	PA66 0.75mm thick V-0 130°C	
Bobbin Cover	KINGFA SCI & TECH CO LTD	PA66-R11G30	PA66 0.75mm thick, Color: ALL V-0 130°C	
Sleeving	DONGGUAN LING FREE HARDWARE PLASTICS PRODUCT CO LTD	LFGS-001	600V VW-1	
Tape	3M Company Electrical Markets Div(EMD)	1350F-1	130°C, Recognized component	

5.0 Critical Unlisted CEC Components						
Bearing	Chanzhou Huifeng	cu	Ø4*9mm			
Cup	Chanzhou Huifeng	SECC	Galvanized Steel,0.2-0.5mm thick			
Washer	Zhejiang Hainan/foshan Junliang	Film,Rubber or Graphite	Ø4mm			
WINDING(S) RESISTANCE						
Winding Designation	Wire Size (mm ²)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Armature Stator	0.19	UEW	1750	120	0.25	77.9
VERIFICATION PROCESS						
Frequency: Annual	Test Site: CEC			Number of samples to test: 1		
Test Name		Test Parameters				
Winding resistance		See resistance per winding above.				
Dielectric Strength		Apply voltage Between		Test Voltage	Test Time	
		Primary to core		1240Vac	60s	
		Primary to secondary		--	--	
		Secondary to core		--	--	

5.0 Critical Unlisted CEC Components				
INSULATED COIL				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
4	13	Motor	PT SUMA ARTHA	2033080ID
Electrical Rating: 120VAC 60Hz, 0.25A				Insulation class A
Component Standard used: UL 1004-1, UL 1004-3				
MATERIALS LIST (refer to illustration 10 and 10a for assembly drawing)				
Component	Manufacturer	Type/model	Dimensions/thickness/assembly information	
Motor Bracket	Zhongshan Pengfei Electric Co., Ltd.	YZ4814	ADC12	
	Dongguan Maituo Hardware Products Co., LTD			
Stator Core	Wuhan Iron and Steel (Group) Company	Steel	Steel, 0.25mm to 2.2mm Thick	
	Baoshan Iron and Steel Co., Ltd.			
Rotor	Foshan Nanhai Huaxing Electric Appliance	AL+Steel	12mm, Aluminum + Steel	
	Factory/Guangzhou Zhongdian Electric Co., Ltd.			
Coil	ZHAOQING GAOYAO LIXING INDUSTRIAL &TRADING CO LTD	UEW QA-2	155°C Ø0.19*1750	
	Shenzhen Dayang Industry Co. Ltd			
Lead Wire	Various	1015	18-20AWG,105°C,600V	
Thermal Fuse	ZHANGZHOU AUPO ELECTRONICS CO LTD	A2-F	Rated 250Vac, 2A, Tf=115.	
	XIAMEN SET ELECTRONICS CO LTD	K2		
Wool	Permawick	Permawick	Permawick 284NP	
Bobbin	TORAY INDUSTRIES INC	CM3004	PA66 0.75mm thick V-0 130°C	
	KINGFA SCI & TECH CO LTD	PA66-R11G30(##)	PA66 0.75mm thick,Color:ALL V-0 130°C	

5.0 Critical Unlisted CEC Components			
Bobbin Cover	KINGFA SCI & TECH CO LTD	PA66-R11G30	PA66 0.75mm thick,Color:ALL V-0 130°C
	TORAY INDUSTRIES INC	CM3004	PA66 0.75mm thick V-0 130°C
Fiberglass Sleeving	DACHUN ELECTRON FACTORY	Fiberglass	600V 200°C VW-1
Tape	3M Company Electrical Markets Div(EMD)	1350F-1	130°C,Recognized component
Bearing	Chanzhou Huifeng	cu	Ø4*9mm
Cup	Chanzhou Huifeng	SECC	Galvanized Steel,0.2-0.5mm thick
Washer	Zhejiang Hainan/foshan Junliang	Film,Rubber or Graphite	Ø4mm

WINDING(S) RESISTANCE

Winding Designation	Wire Size (mm ²)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Armature Stator	0.19	UEW	1750	120	0.25	78.6

VERIFICATION PROCESS

Frequency: Annual	Test Site: CEC	Number of samples to test: 1	
Test Name	Test Parameters		
Winding resistance	See resistance per winding above.		
Dielectric Strength	Apply voltage Between	Test Voltage	Test Time
	Primary to core	1240Vac	60s
	Primary to secondary		
	Secondary to core		

INSULATED COIL

Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
4	13	Motor	Guangdong Billion Plus Electrical Technology Limited	2033421

Electrical Rating: 120VAC 60Hz, 0.25A Insulation class A

Component Standard used: UL 1004-1, UL 1004-3

MATERIALS LIST (refer to illustration 12 for assembly drawing)

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Stator Core	Wuhan Iron and Baoshan Iron and	Steel	Steel, 0.25mm to 2.2mm Thick
	Foshan Nanhai Factory/Guangzho		
Rotor	ZHAOQING	AL+Steel	12mm, Aluminum + Steel
Coil	Shenzhen Dayang Industry Co. Ltd	UEW QA-2	155°C Ø0.19*1750
	Various		
Lead Wire	Various	1015	18-20AWG,105°C,600V
Thermal Fuse	ZHANGZHOU AUPO	A2-F	Rated 250Vac, 2A, Tf=115.
	XIAMEN SET		

5.0 Critical Unlisted CEC Components						
	ELECTRONICS	PA66				
Bobbin	TORAY	CM3004	PA66 0.75mm thick V-0 130°C			
Bobbin Cover	KINGFA SCI &	PA66-R11G30	PA66 0.75mm thick,Color:ALL V-0 130°C			
Sleeving	DONGGUAN	LFGS-001	600V VW-1			
Tape	3M Company	1350F-1	130°C,Recognized component			
Bearing	Chanzhou Huifeng	cu	Ø4*9mm			
Cup	Chanzhou Huifeng	SECC	Galvanized Steel,0.2-0.5mm thick			
Washer	Zhejiang	Film,Rubber or	Ø4mm			
WINDING(S) RESISTANCE						
Winding Designation	Wire Size (mm ²)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Armature Stator	0.19	UEW	1750	120	0.25	78.6
VERIFICATION PROCESS						
Frequency: Annual	Test Site: CEC			Number of samples to test: 1		
Test Name		Test Parameters				
Winding resistance		See resistance per winding above.				
Dielectric Strength		Apply voltage Between		Test Voltage	Test Time	
		Primary to core		1240Vac	60s	
		Primary to secondary				
		Secondary to core				
INSULATED COIL						
Photo #	Item no.	Name	Manufacturer/Trademark		Type / model	
4	13	Motor	PT SUMA ARTHA PERKASA		2033421ID	
Electrical Rating: 120VAC 60Hz, 0.25A					Insulation class A	
Component Standard used: UL 1004-1, UL 1004-3						
MATERIALS LIST (refer to illustration 15 for assembly drawing)						
Component	Manufacturer	Type/model	Dimensions/thickness/assembly information			
Motor Bracket	Zhongshan Pengfei Electric Co., Ltd.	YZ4814	ADC12			
	Dongguan Maituo Hardware Products Co., LTD					
Stator Core	Wuhan Iron and Steel (Group) Company	Steel	Steel, 0.25mm to 2.2mm Thick			
	Baoshan Iron and Steel Co., Ltd.					
Rotor	Foshan Nanhai Huaxing Electric Appliance	AL+Steel	12mm, Aluminum + Steel			
	Factory/Guangzhou Zhongdian Electric Co., Ltd.					
Coil	ZHAOQING GAOYAO LIXING INDUSTRIAL &TRADING CO LTD	UEW QA-2	155°C Ø0.19*1750			
	Shenzhen Dayang					

5.0 Critical Unlisted CEC Components						
	Industry Co. Ltd					
Lead Wire	Various	1015	18-20AWG,105°C,600V			
Thermal Fuse	ZHANGZHOU AUPO ELECTRONICS CO LTD	A2-F	Rated 250Vac, 2A, Tf=115.			
	XIAMEN SET ELECTRONICS CO LTD	K2				
Wool	Permawick	Permawick	Permawick 284NP			
Bobbin	TORAY INDUSTRIES INC	CM3004	PA66 0.75mm thick V-0 130°C			
	KINGFA SCI & TECH CO LTD	PA66-R11G30(##)	PA66 0.75mm thick,Color:ALL V-0 130°C			
Bobbin Cover	KINGFA SCI & TECH CO LTD	PA66-R11G30	PA66 0.75mm thick,Color:ALL V-0 130°C			
	TORAY INDUSTRIES INC	CM3004	PA66 0.75mm thick V-0 130°C			
Fiberglass Sleeving	DACHUN ELECTRON FACTORY	Fiberglass	600V 200°C VW-1			
Tape	3M Company Electrical Markets Div(EMD)	1350F-1	130°C,Recognized component			
Bearing	Chanzhou Huifeng	cu	Ø4*9mm			
Cup	Chanzhou Huifeng	SECC	Galvanized Steel,0.2-0.5mm thick			
Washer	Zhejiang Hainan/foshan Junliang	Film,Rubber or Graphite	Ø4mm			
WINDING(S) RESISTANCE						
Winding Designation	Wire Size (mm ²)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Armature Stator	0.19	UEW	1750	120	0.25	78.6
VERIFICATION PROCESS						
Frequency: Annual	Test Site: CEC			Number of samples to test: 1		
Test Name		Test Parameters				
Winding resistance		See resistance per winding above.				
Dielectric Strength		Apply voltage Between		Test Voltage		Test Time
		Primary to core		1240Vac		60s
		Primary to secondary				
		Secondary to core				

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

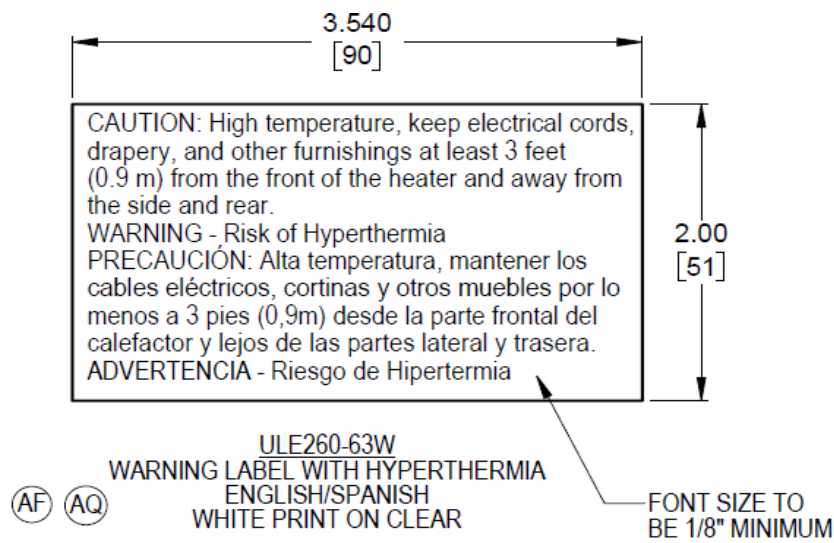
Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 1.6 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 2.4 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - This product is not provided with a means of grounding as it is not required to be grounded because it is intended to operate on a circuit with a potential less than 150 Volts to ground.
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. All wiring is minimum 26 AWG, with a minimum rating of 300V, 80°C.

6.0 Critical Features	
8. <u>Schematics</u> - Refer to Illustrations 5, 6, 7, 8, 9, and 11 for schematics requiring verification during Field Representative Inspection Audits.	
9. <u>Markings</u> - The product is marked on a labeling system as described in item no. 23 of Section 4.0 as follows: Applicant's name or Brand name, model number, date of manufacturer, electrical ratings. The following markings in French are required: none required.	
10. <u>Cautionary Markings</u> - The following are required: Refer to Illustrations 1, 2 and 3 for details.	
11. <u>Installation, Operating and Safety Instructions</u> - Instructions for installation and use of this product are provided by the manufacturer. Instruction manual for Model CT16558 revised on 02/2024. Instruction manual for all other models revised on 12/2023.	
12. Heater Carton Marking - WARNING Rated: 120 Volts AC, 12.5A, 60HZ Use only with a standard polarized 120V AC outlet. It is intended for use on the floor. Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip). This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when moving this heater. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, and curtains at least 3 feet (0.9m) from the front of the heater and keep them away from the sides and rear. The product is not to be used in bathrooms, laundry areas or other similar locations.	

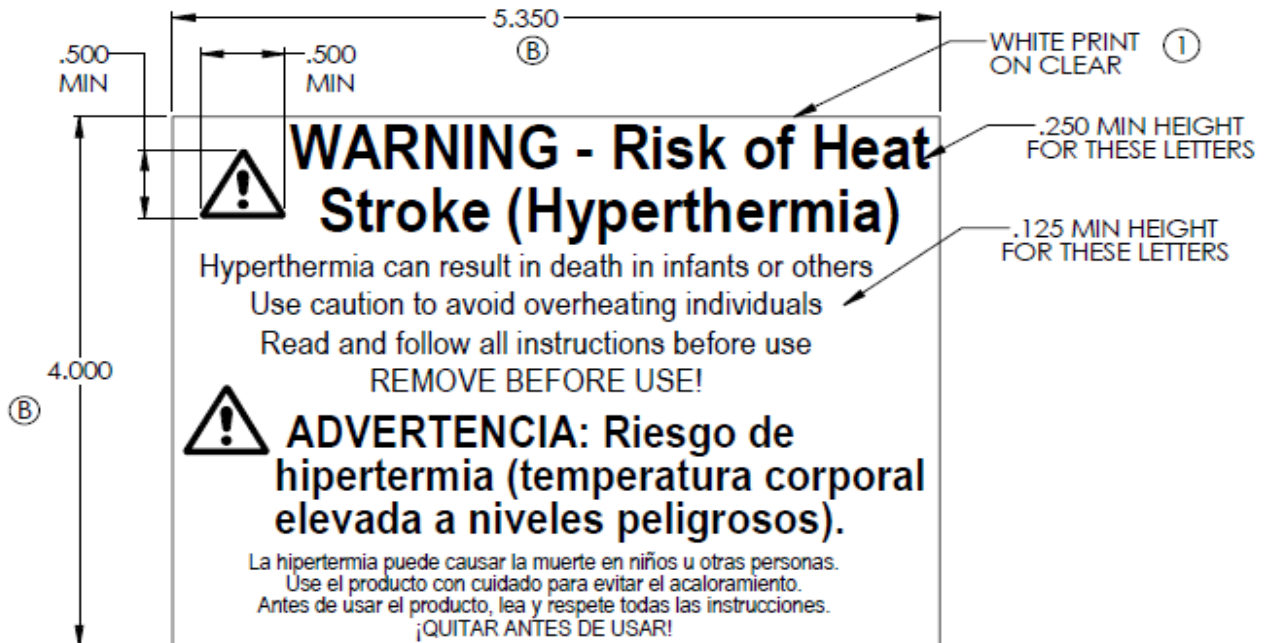
7.0 Illustrations

Illustration 1 - Caution Label



7.0 Illustrations

Illustration 2 - Warning/Hyperthermia label



ULB307-1W
SPANISH/ENGLISH
LOCATION: FRONT HOUSING
SEE MANUFACTURING BOOK

② ③

7.0 Illustrations

Illustration 3 - Cord Tag Label

The warning tag shall be permanently affixed to the power-supply cord, no more than 6 inches (152 mm) from the attachment plug and shall be made of substantial material (cardboard, cloth, plastic, or the equivalent) to provide mechanical strength and to prevent easy removal.

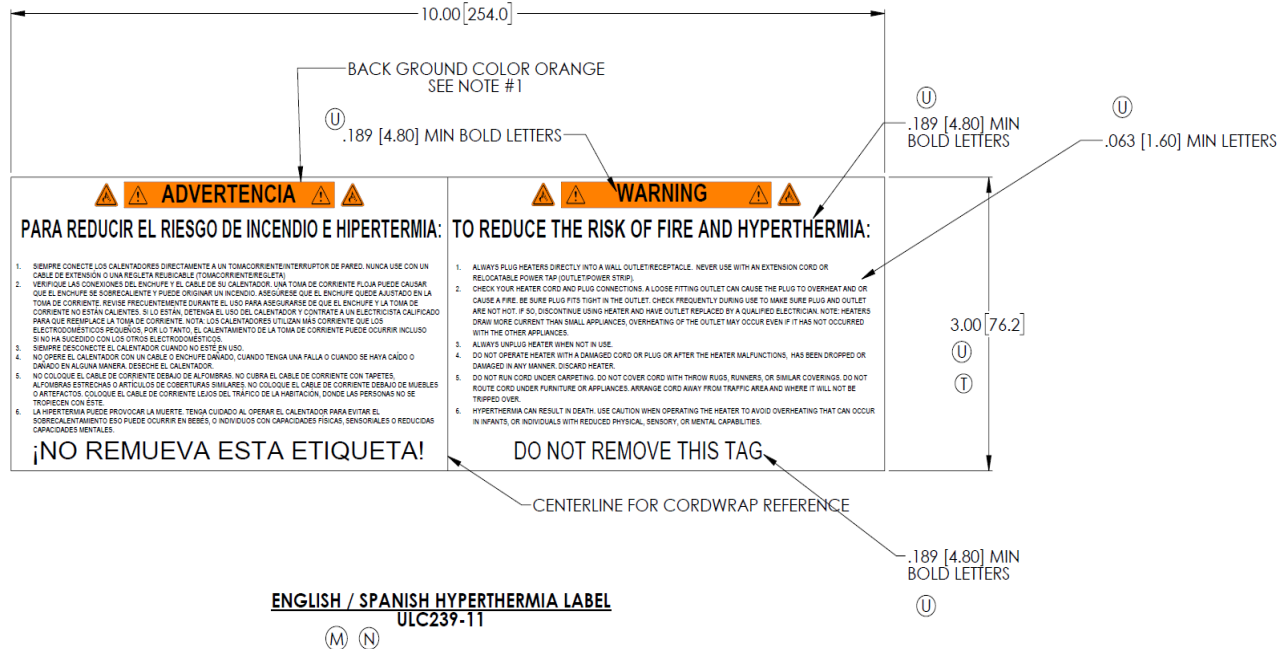
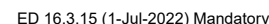
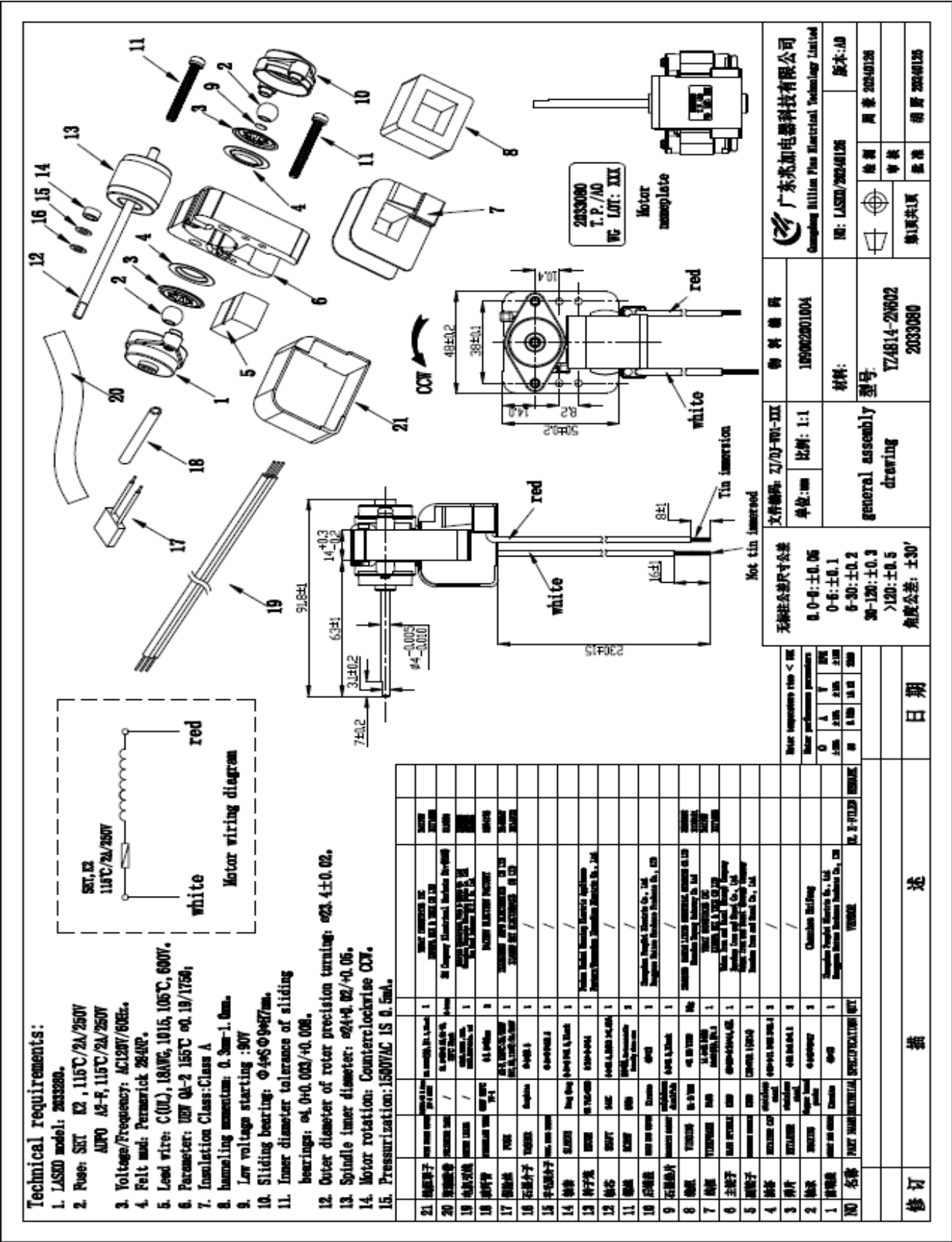


Illustration 4 - Motor assembly drawing for Models CT16560, CT16570, and CT16650



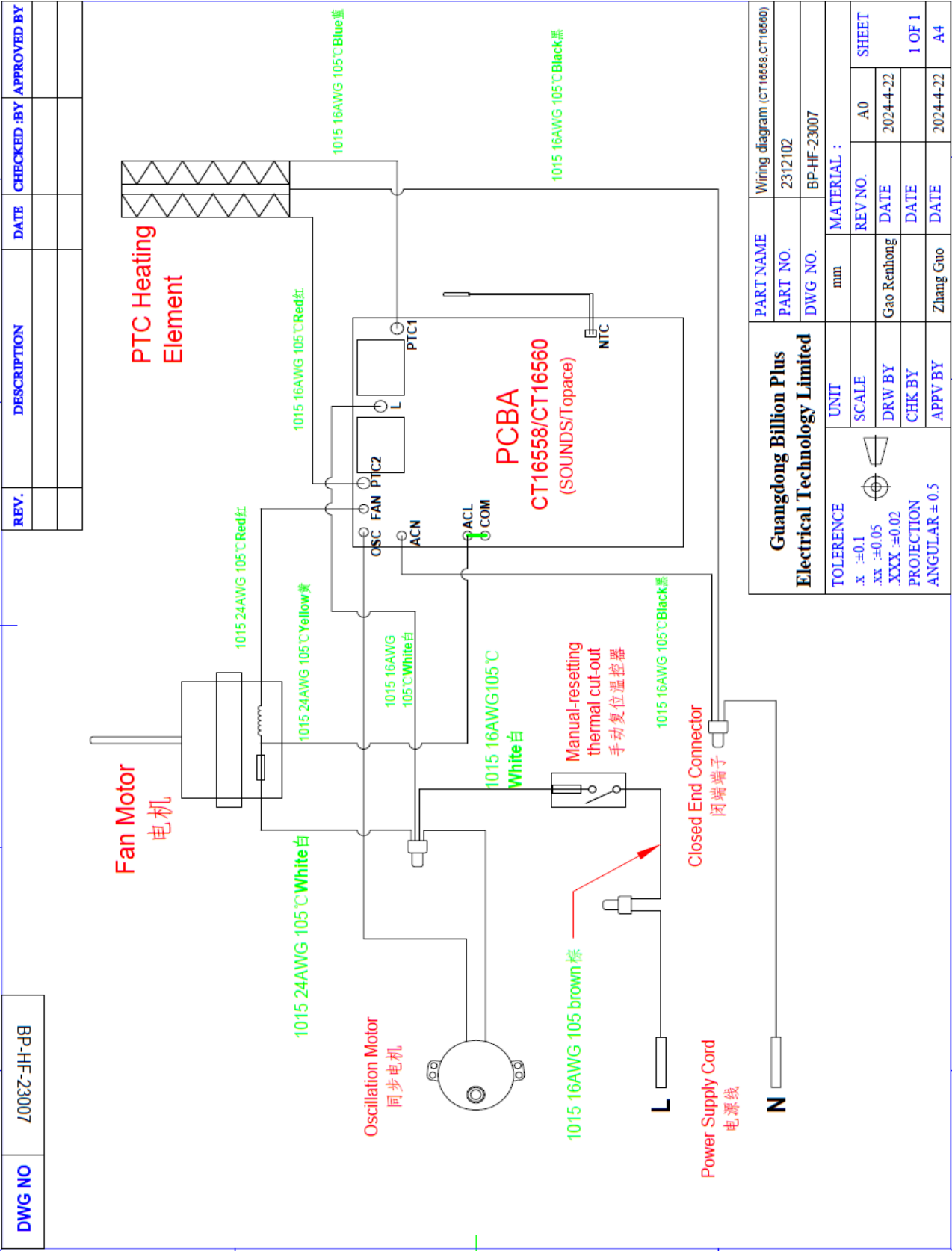
7.0 Illustrations

Illustration 4a - Motor assembly drawing for Model CT16451



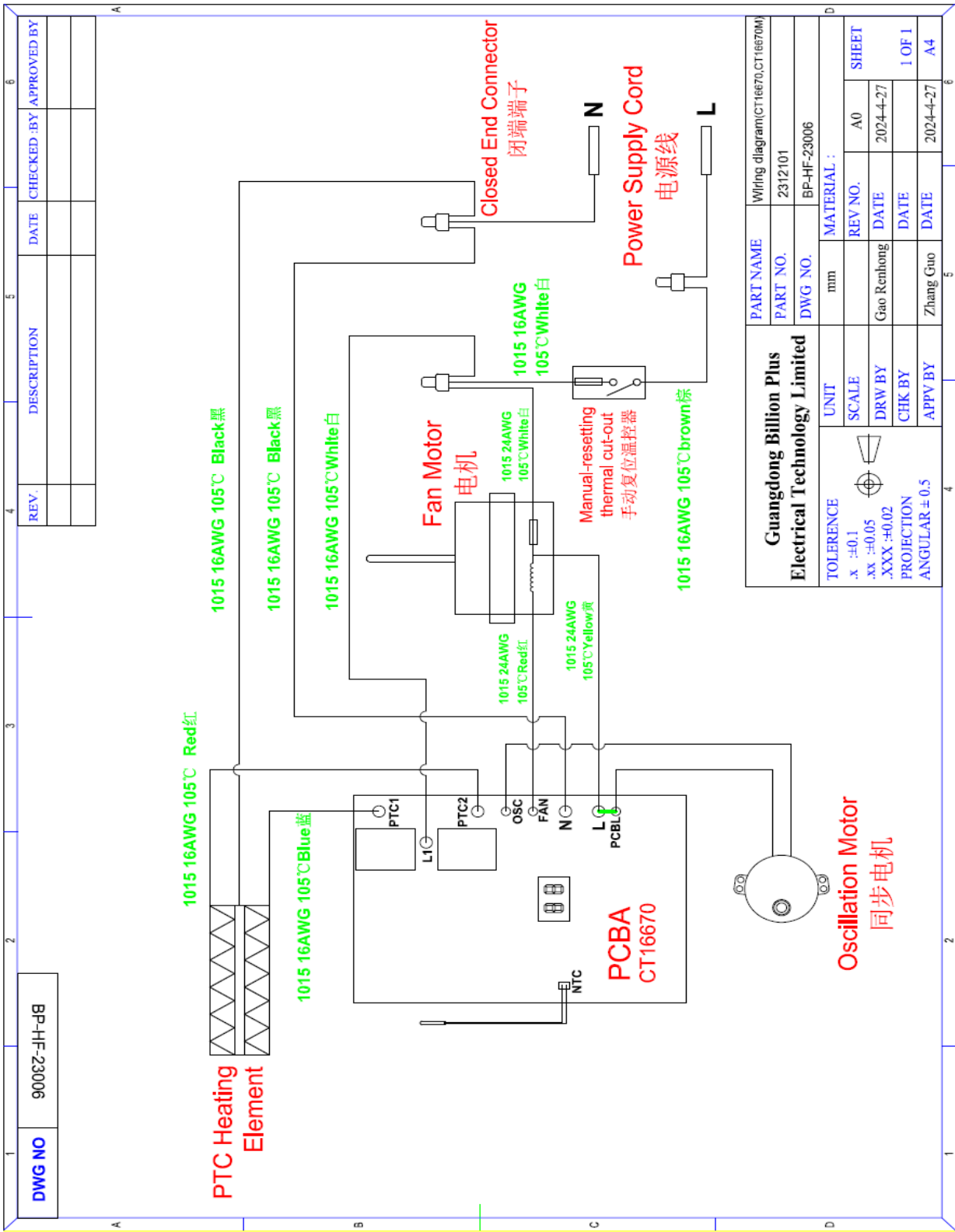
7.0 Illustrations

Illustration 5 - Schematic for Model CT16558



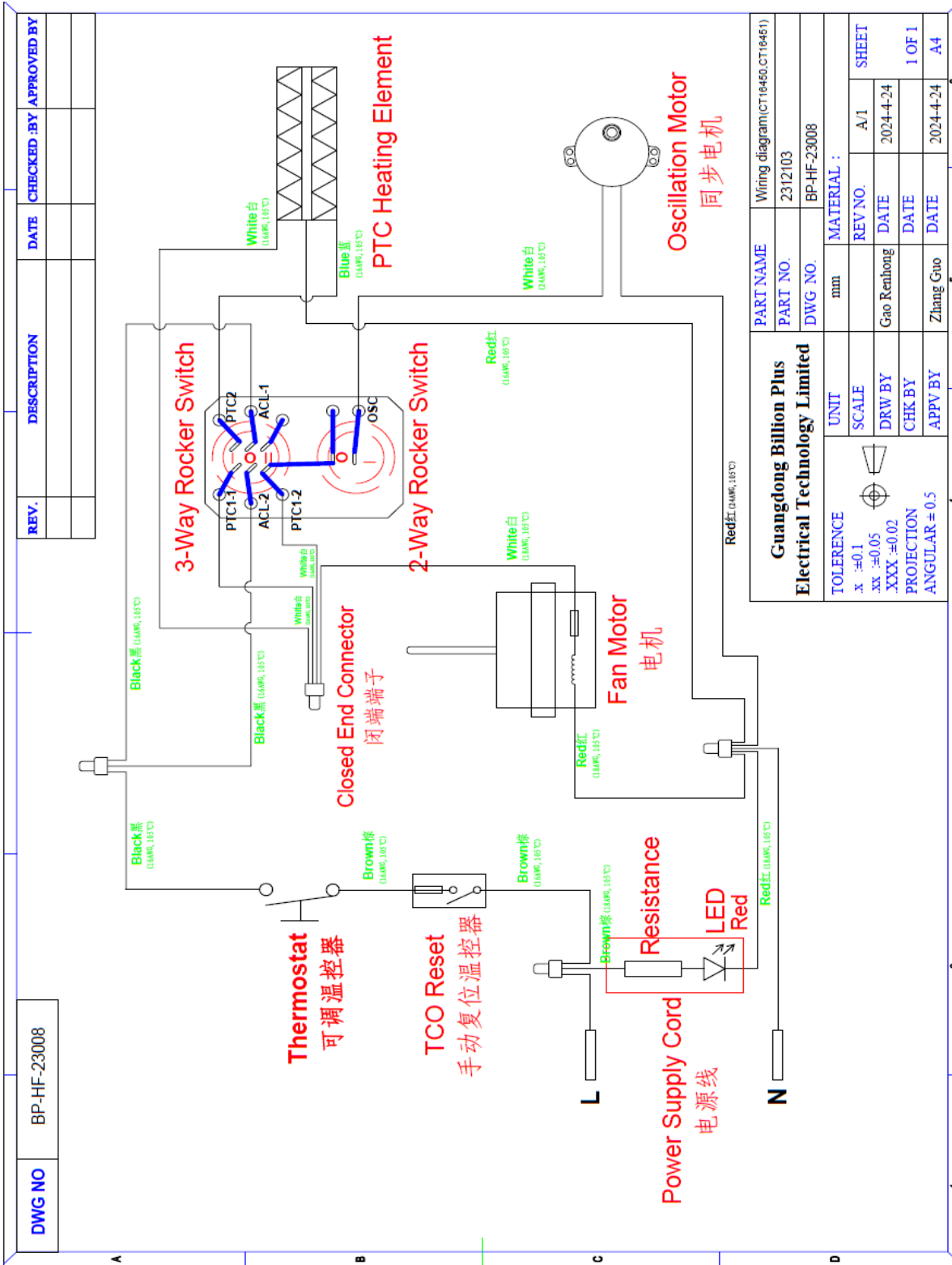
7.0 Illustrations

Illustration 6 - Schematic for Model CT16670



7.0 Illustrations

Illustration 7 - Schematic for Model CT16450, CT16451



7.0 Illustrations

Illustration 9 - Schematic for Guangdong Billion Plus, model CT16558

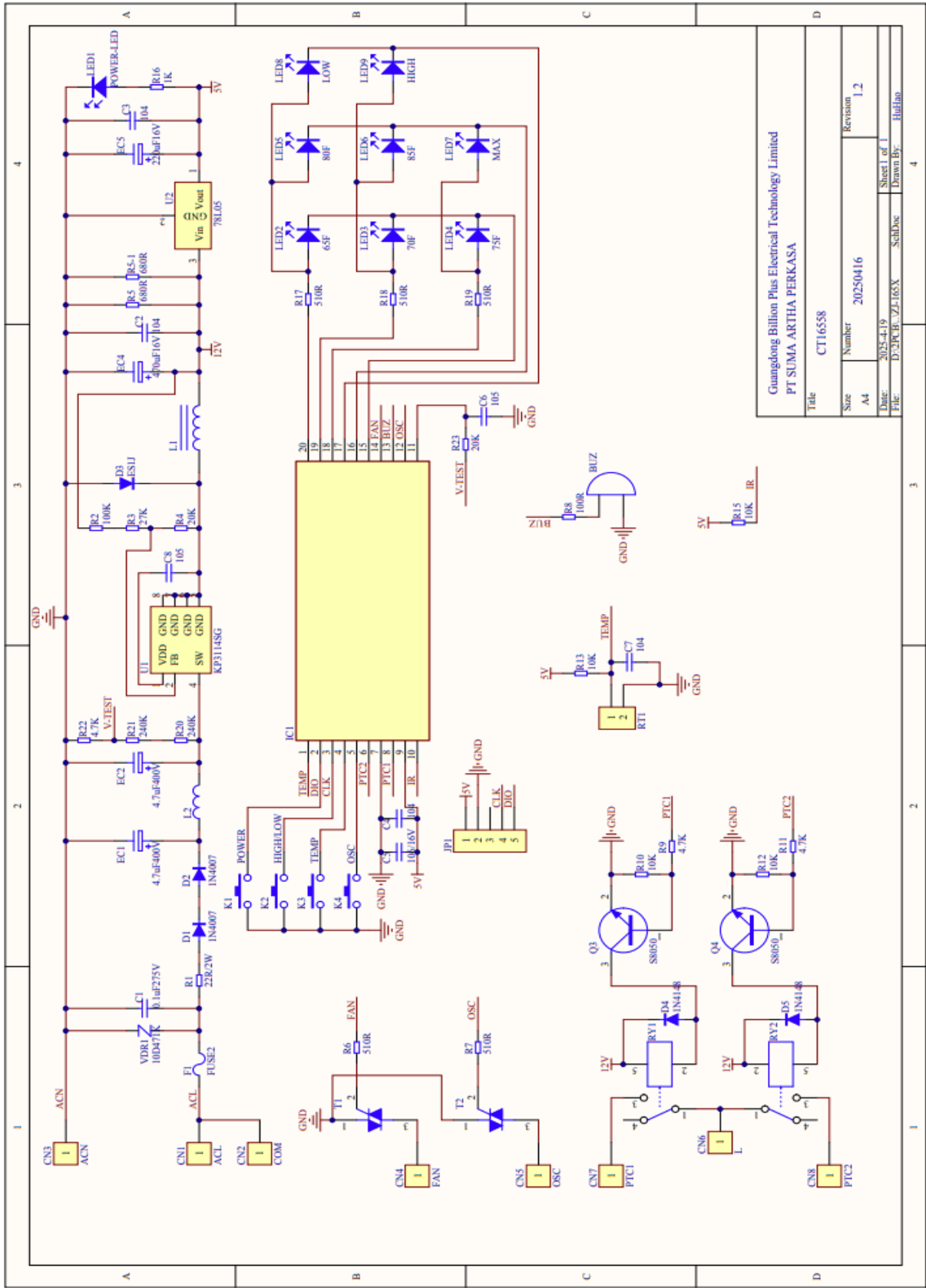


Illustration 10 - Motor Assembly Drawing, PT SUMA, 2033080ID, models CT16558 and CT16670

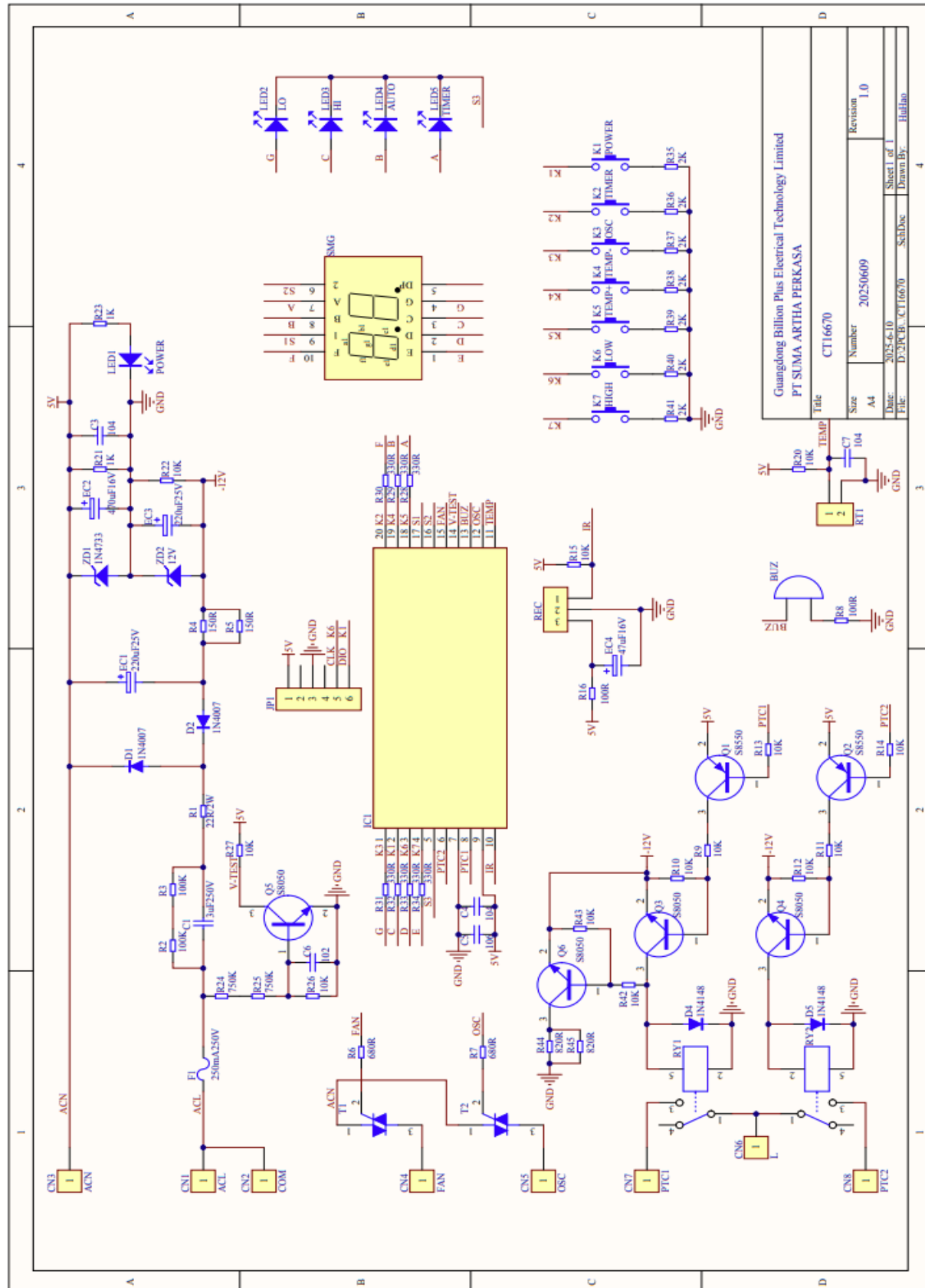
[illegible]

Illustration 10a - Motor Assembly Drawing, PT SUMA, 2033080ID, model CT16451

[illegible]

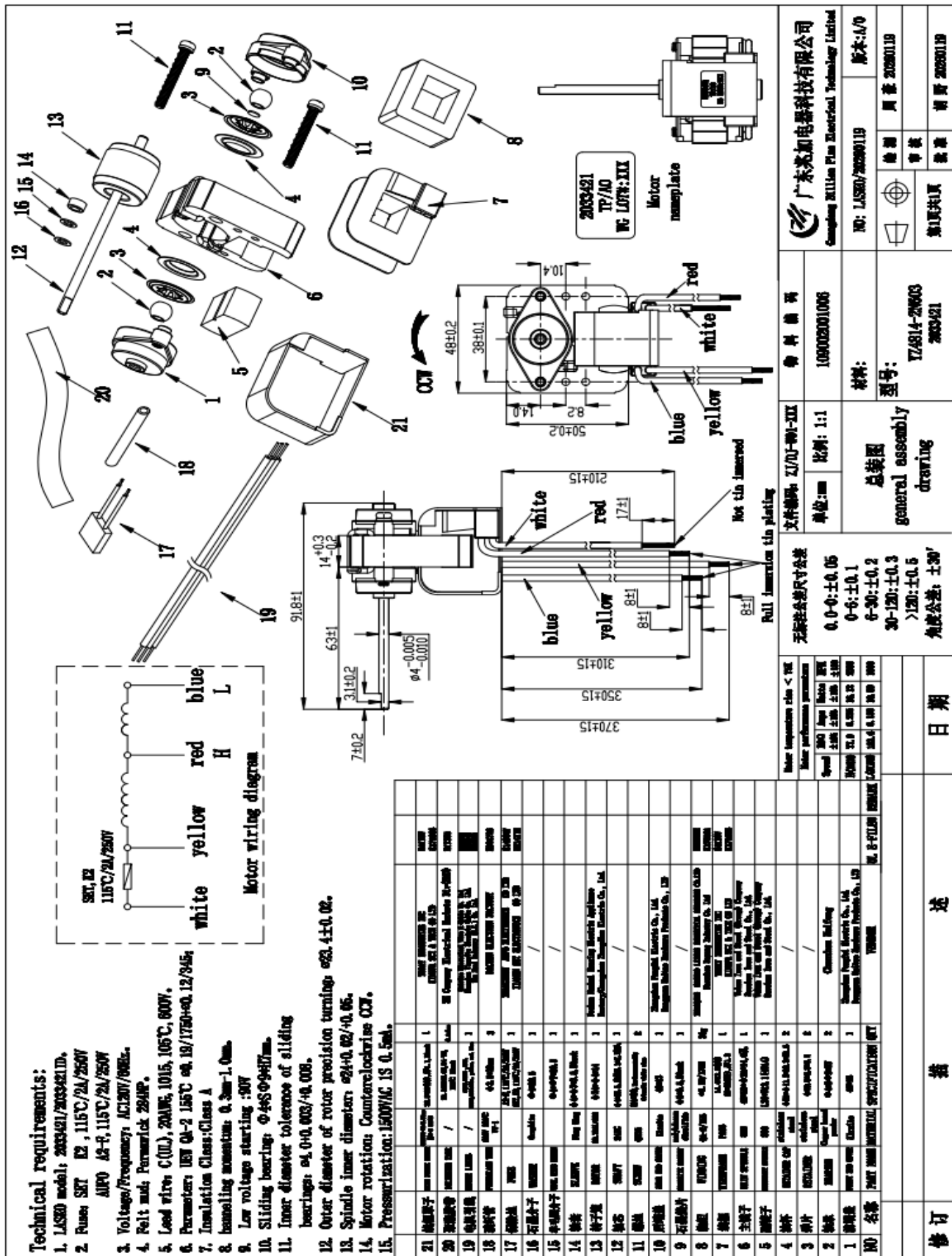
7.0 Illustrations

Illustration 11 - Schematic for Guangdong Billion Plus, model CT16670



7.0 Illustrations

Illustration 12 - Motor assembly drawing, Guangdong Billion Plus, 2033421



7.0 Illustrations

Illustration 13 - Schematic for Guangdong Billion Plus, model CT16560/CT16570/CT16650

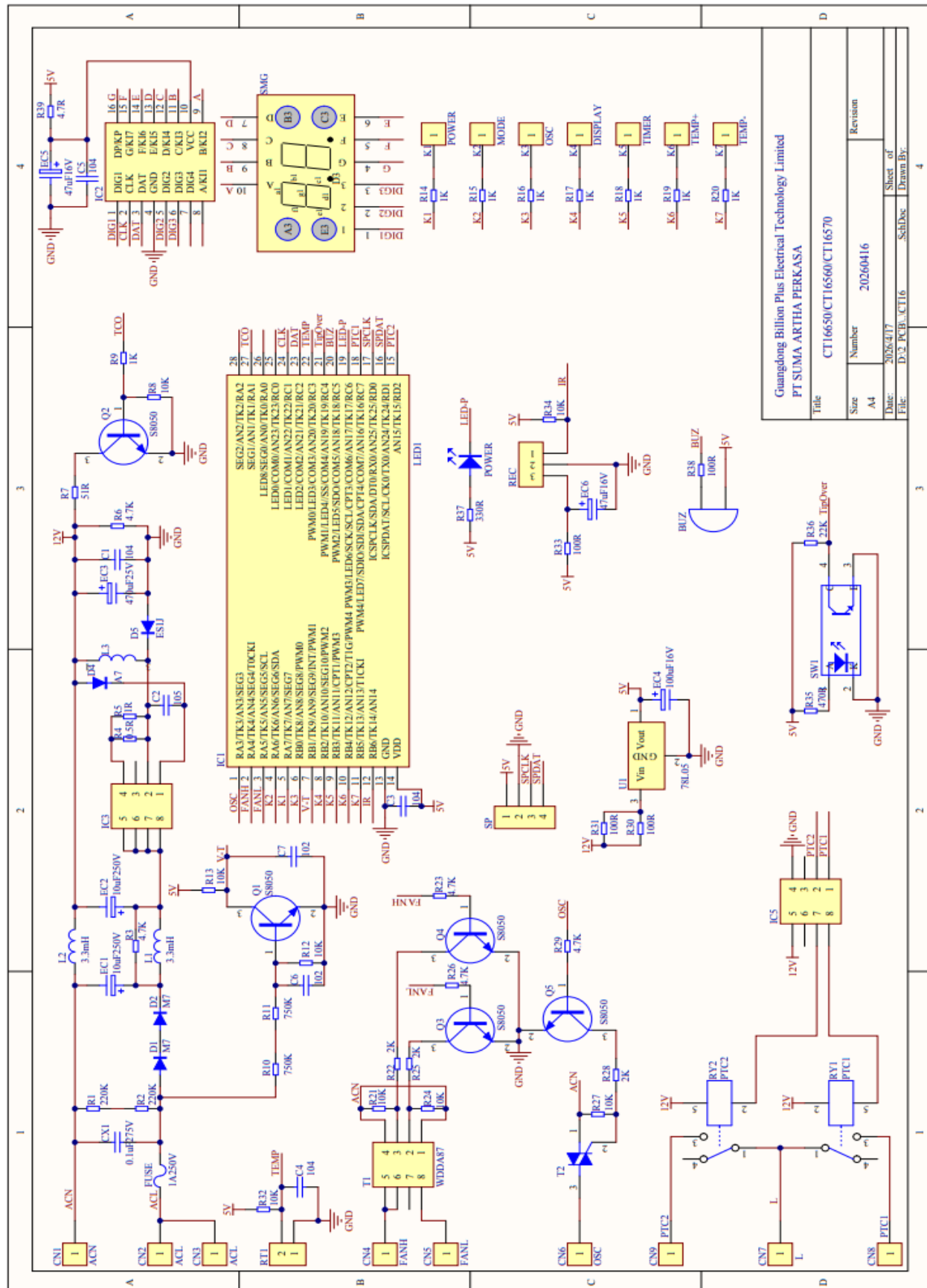


Illustration 14 - Schematic for Topapex, model CT16560/CT16570/CT16650

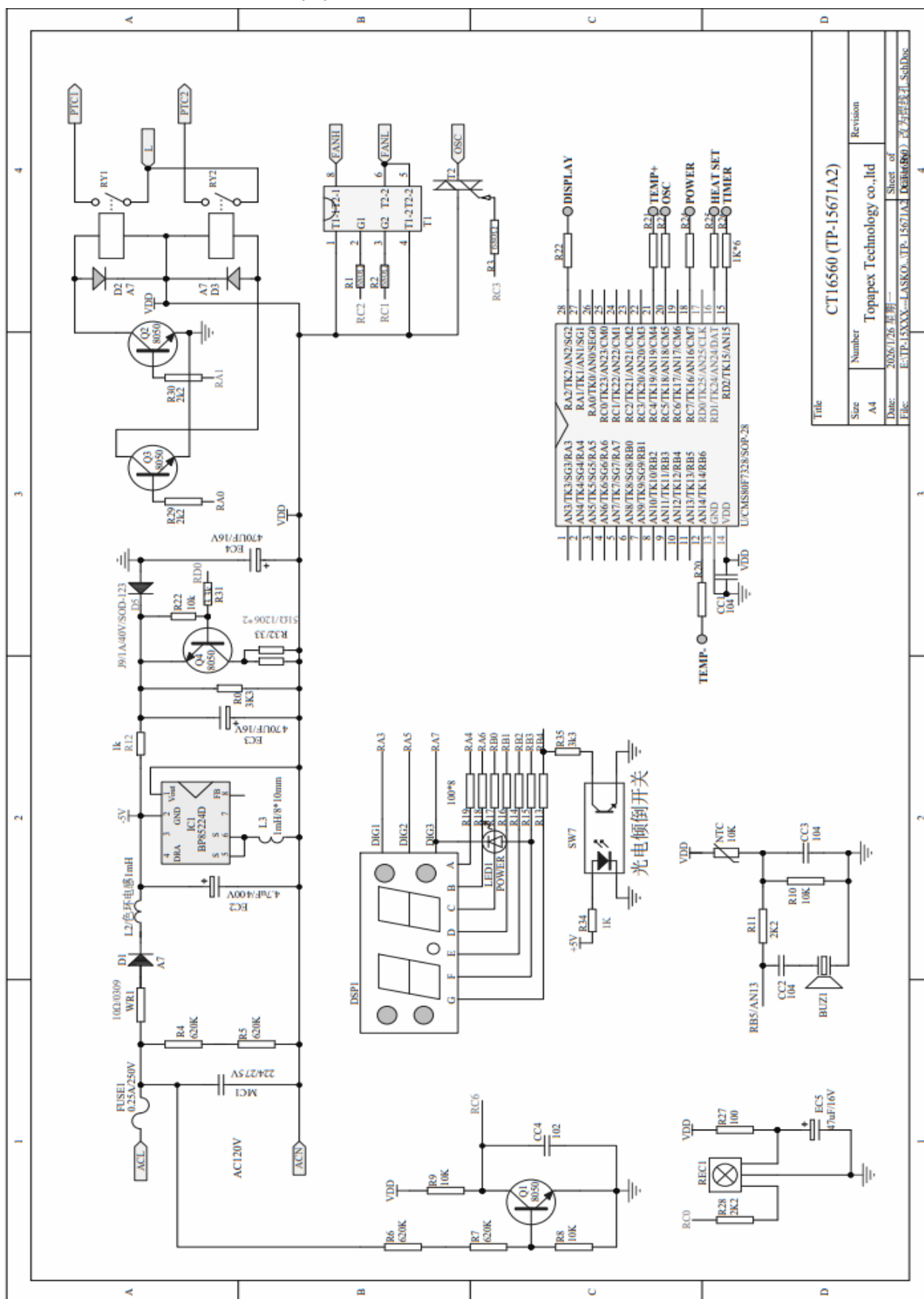
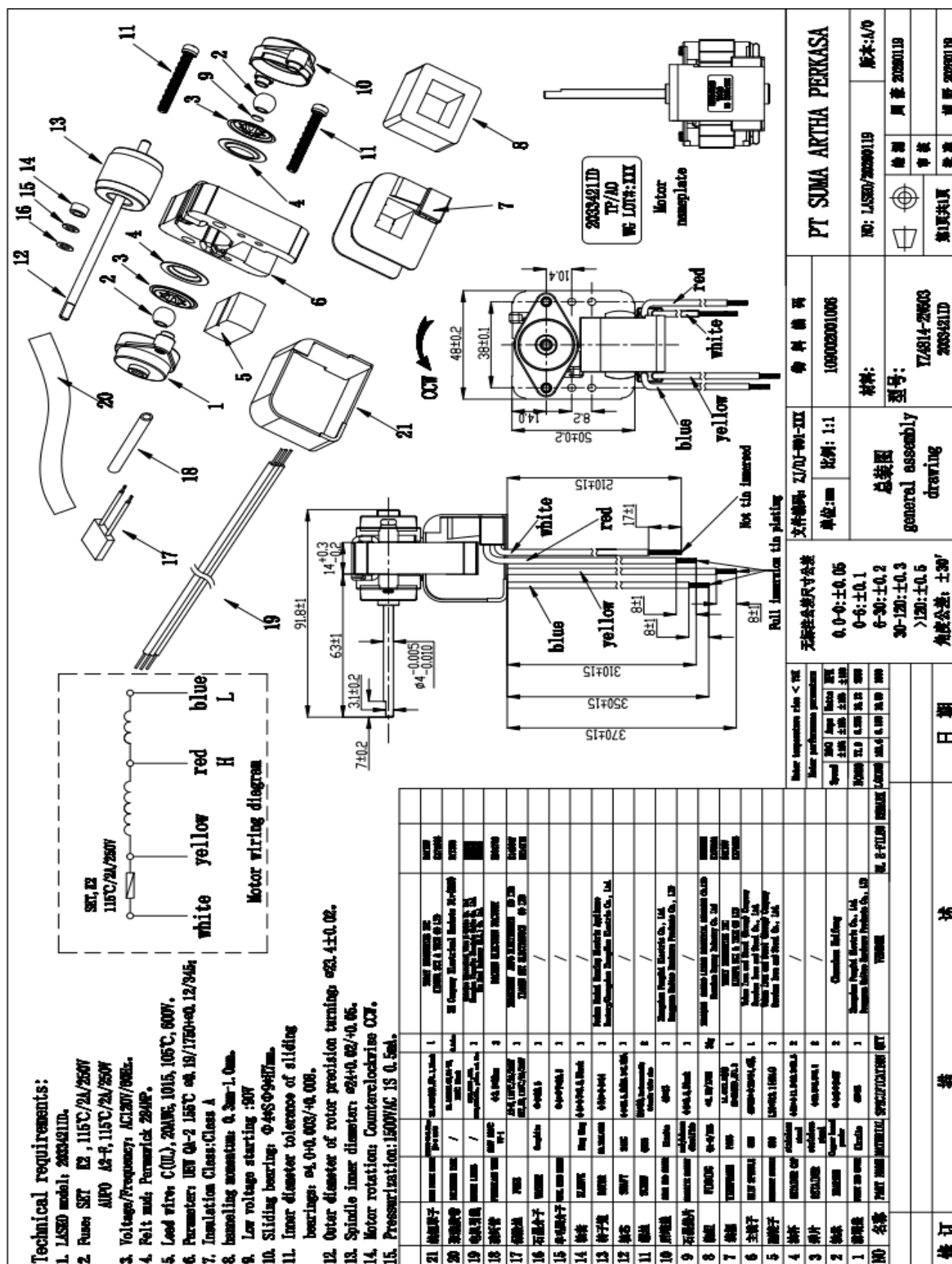
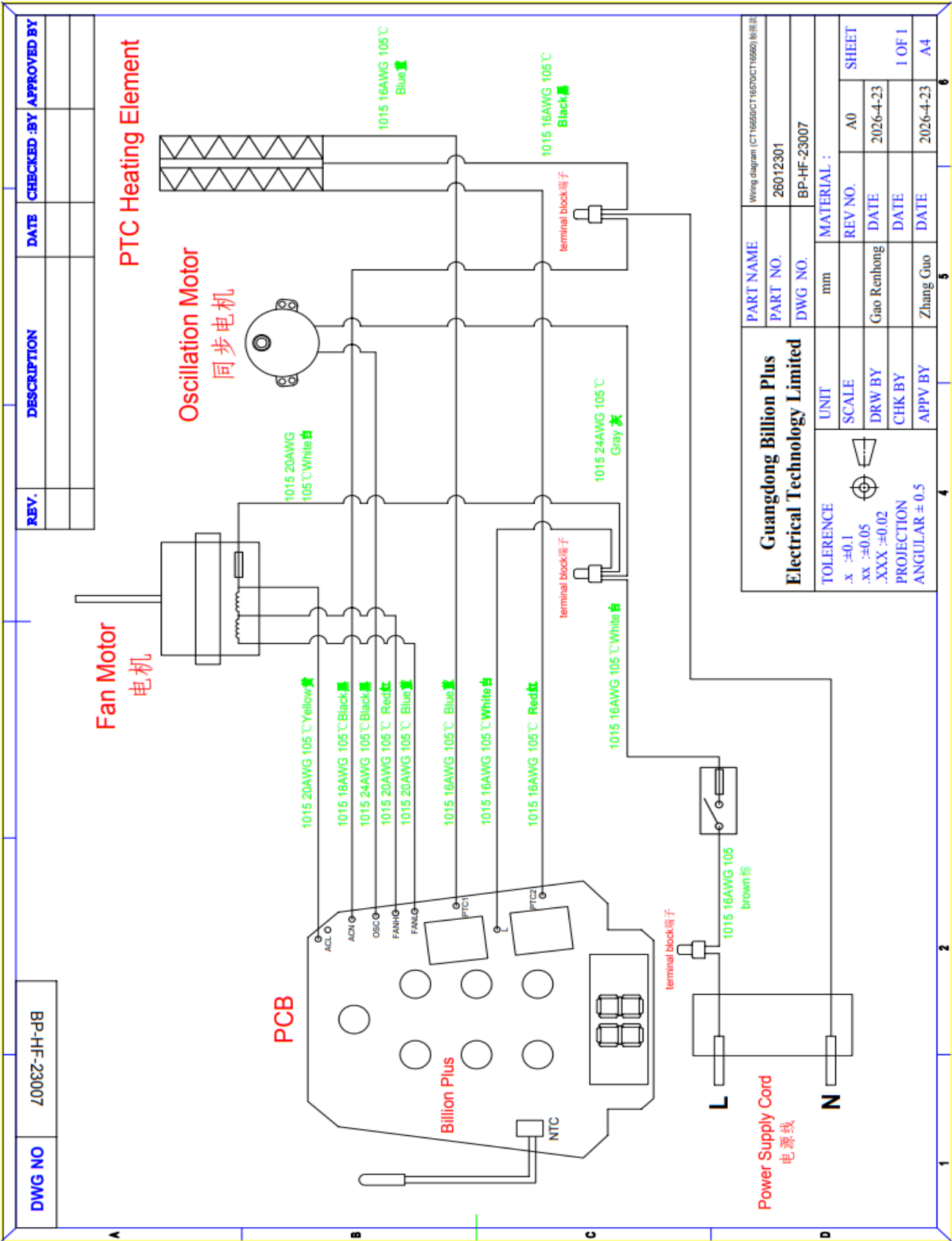


Illustration 15 - Motor Assembly Drawing, PT SUMA, 2033421ID



7.0 Illustrations

Illustration 16 - Schematic for CT16650/CT16570/CT16560



8.0 Test Summary					
Evaluation Period	03/08/2024 - 03/14/2024			Project No.	G105758562
Sample Rec. Date	7-Mar-2024	Condition	Production	Sample ID.	CRT2403061450-001
Test Location	Lasko Products LLC, 820 Lincoln Ave., West Chester, Pa 19380				
Test Procedure	Test Data Acceptance - Level 3				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
Due to the previous testing performed under Intertek Report 103931928CRT-001 only the following testing was performed:					
Test Description			UL 1278 Clause		
Input Test			38, SC6	--	--
Leakage Current Test			39	--	--
Normal Temperature Test			40, SC7	--	--
Abnormal Operation Test - Overvoltage			42.2	--	--
Abnormal Operation Test - Stalled Motor Test			42.3	--	--
Dielectric Voltage-Withstand Test			48	--	--

Evaluation Period	03/08/2024 - 03/14/2024			Project No.	G105758562
Sample Rec. Date	7-Mar-2024	Condition	Production	Sample ID.	CRT2403061450-001
Test Location	Lasko Products LLC, 820 Lincoln Ave., West Chester, Pa 19380				
Test Procedure	Test Data Acceptance - Level 3				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
Due to the previous testing performed under Intertek Report 103931928CRT-001 only the following testing was performed:					
Test Description			UL 1004-1 Clause	UL 1004-3 Clause	
Winding Resistance Test			--	--	--
Locked-Rotor Temperature Test: Thermal Cutoffs			--	8	--
Dielectric Voltage Withstand Test			37	--	--
Running Heating Temperature Test			--	10	--

Evaluation Period	03/08/2024 - 03/14/2024	Project No.	G105963537
Due to the previous testing performed above no additional testing was necessary to SUN Update to UL 1278:2014 Ed.4+R:08Mar2024.			

8.0 Test Summary			
Evaluation Period	04/10/2025 - 04/11/2025		Project No. G106170249
Sample Rec. Date	10-Apr-2025	Condition Production	Sample ID. CRT2504101131-001
Test Location	Lasko Products LLC, 820 Lincoln Ave., West Chester, Pa 19380		
Test Procedure	Test Data Acceptance - Level 3		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			

Due to the previous testing performed under Intertek Report 103931928CRT-001 only the following testing was performed:

Test Description	UL 1004-1 Clause	UL 1004-3 Clause	UL 1278 Clause
Winding Resistance Test	--	--	--
Locked-Rotor Temperature Test: Thermal Cutoffs	--	8	--
Dielectric Voltage Withstand Test	37	--	--
Running Heating Temperature Test	--	10	--
Power Input Test	--	--	38
Leakage Current Test	--	--	39
Normal Temperature Test	--	--	40
Abnormal Operation Test - Overvoltage	--	--	42.2
Abnormal Operation Test - Stalled Fan/Stalled Motor	--	--	42.3
Component Failure Test	--	--	47
Dielectric Voltage Withstand Test	--	--	48

Evaluation Period	10-Jul-25			Project No.	G106273538
Sample Rec. Date	10-Jul-2025	Condition	Production	Sample ID.	1
Test Location	Lasko Products LLC, 820 Lincoln Ave, West Chester, PA 19380 USA				
Test Procedure	Test Data Acceptance - Level 3				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					
Test Description			UL 1278 Clause		
Dielectric Voltage-Withstand			48	--	--

Evaluation Period	2/12/2026 - 2/20/2026			Project No.	G106508676
Sample Rec. Date	9-Feb-2026	Condition	Production	Sample ID.	1,4 and 2,3
Test Location	Lasko Products LLC, 820 Lincoln Ave, West Chester, PA 19380 USA				
Test Procedure	Test Data Acceptance - Level 3				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					
Test Description	UL 1278 Clause		UL 746C Clause		
Power Input Test	38, SC6		--		--
Normal Temperature Test	40, SC7		--		--
Dielectric Voltage-Withstand	48		--		--
Stability of Moveable Heaters Test	51		--		--
Impact Polymeric Materials Test	12.2		56		--
Strain Relief Test	59		29, 61.2		--
Push Back Strain Relief Test	16.13		29, 61.2		--
Mold Stress Relief Distortion Test	9.4		29, 61.2		--
Strain Relief Test Following Mold Stress Relief Distortion	59		29.1c, 61.2		--

8.0 Test Summary			
8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Brendan Pursoo	Reviewed by:	Russell Ransom
Title:	Engineer	Title:	Reviewer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	Lasko Products LLC
Address	820 Lincoln Avenue, West Chester PA 19380
Country	USA
Product	Electric Tower Heater

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:
Intertek Testing Services NA Inc.
ETL Component Evaluation Center
1717 Arlingate Ln.
Columbus, Ohio 43228 USA
Attn: CEC Safety

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests
The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:
Required Tests
Dielectric Voltage Withstand Test

11.1 Dielectric Voltage Withstand Test		
<u>Method</u> One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test. The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made. The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.		
<u>Test Equipment</u> The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown. The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA. If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either: 1 - a voltmeter in the primary circuit; 2 - a selector switch marked to indicate the test potential; or 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output. In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.		
Products Requiring Dielectric Voltage Withstand Test:		
Product	Test Voltage	Test Time
All products covered by this Report.	1240V	60 s
	or	
	1488V	1 s

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
24-May-2024	Omar Hernandez	4	11	Changed model number from: "AUT-80-P" to: "AUT-75-P"
G105830519CRT	Derrek Root			Changed technical data from: "125VAC, 16A, 80°C" to: "125VAC, 16A, 75°C"
11-Jul-2024	Omar Hernandez	-	-	This revision has been completed to resolve variances raised during the inspection dated 18-06-2024 under order number 5024796.
G105830519CRT	Russell Ransom	4	5	Updated Marks of Conformity from: "cURus" to: "cURus or cETLus Recognized" Added an additional line for an alternative power cord, model TA-001, along with all of its respective details.
26-Sep-2024	J. Polhamus	1	-	Revised standard from "Movable and Wall- or Ceiling-Hung Electric Room Heaters [ANSI/UL 1278:2014 Ed.4+R:21Feb2022]" to "Movable and Wall- or Ceiling-Hung Electric Room Heaters [ANSI/UL 1278:2014 Ed.4+R:08Mar2024]"
		4	5	Changed "HPN-R" Type to "Various", Added "With HPN-R" to Technical Data; Changed "TA-001" to "Various"
		4	28	Added "Guangdong Tianyue Printing Tech Co., Ltd" model "TY669A-125"
		4	28	Added "Lian Yi Printing Co. Ltd" model "LY-06"
G105963537CRT	R. Ransom	4	31	Corrected certification mark of TH1 from "cURus" to "cETLus"
		4	32	Change "Guangdong Tianyue Printing" to "Guangdong Tianyue Printing Tech Co., Ltd." Delete "TY867-150"
		5	13	Revise "Fiberglass sleeving" to "Sleeving" Change manufacture from "DACHUN ELECTRON FACTORY" to "DONGGUAN LING FREE HARDWARE PLASTICS PRODUCT CO LTD" Change Type/Model from "Fiberglass" to "LFGS-001"
		8	-	Added new Test Summary, Updated Signatures

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
21-Apr-2025	Omar Hernandez	1	—	Updated Manufacturer 1 address from: "Floor 1-5 of Comprehensive Building 2 & 1, Floor 1-4 of Workshop 1, Workshop 2, No. 28 Zone D, Sanshui Industrial Park, Foshan City, Guangdong Province, P.R. 528137" to: "Building 1, Building 2, The Floor 1 -4 and Area 2 of Floor 6 of Building 3, Building 4, The Floor 2 -4 of Building 6, No. 28 Zone D, Sanshui Industrial Park, Foshan City, Guangdong Province, P. R."
G106170249CRT	Derrek Root			Updated Manufacturer 1 email from: "zouyunli@126.com" to: "zyl@gdzjdg.com"
				Added Manufacturer 2, "PT SUMA ARTHA PERKASA"
		3	16	Added photo 16
			17	Added photo 17
		4	5	Added "Unirise Electric Wire & Cable Co., Ltd" model "HPN-R" Changed "Various" Type to "HPN-R" for Win Hand Industry(HK) Co., Ltd
			8	Corrected manufacturer name from: "Nan Ya Plastics (Huizhou) Corp Ltd" to: "NAN YA PLASTICS CORP PLASTICS 3RD DIV" Corrected model type from: "PA66-R11G30" to: "PA66-R11G30(##)" for manufacturer Kingfa SCI & Tech Co., Ltd Corrected technical data from: "Nylon, Rated 94V-0, 130°C, min 0.75mm thickness." to: "PA66, Rated 94V-0, 130°C, min 0.75mm thickness." for manufacturer NAN YA PLASTICS CORP PLASTICS 3RD DIV
			9	Corrected manufacturer name from: "Nan Ya Plastics (Huizhou) Corp Ltd" to: "NAN YA PLASTICS CORP PLASTICS 3RD DIV"
			10	Removed "Dongguan Longyang Electronic Technology Co. Ltd " model "LYB Series" Added "Dongguan Longyang Electronic Technology Co. Ltd" model "LYB-120-1500" and "Kai Yi Electric Heating(M) SDN BND." model LYB-120-1500"
			11	Added "Consummate Electrical Co Ltd" model "A01P"
			12	Added "LG Chem Ltd" model "LUPOL GP1000F(#)"
			13	Added "PT SUMA ARTHA PERKASA" model "2033080ID"
			15	Added "Guangdong Billion Plus Electrical Technology Limited" model "2033596"
				Added "Guangdong Billion Plus Electrical Technology Limited" model "2033870"
			21	Added "Shenzhen Lanson Electronics Co., Ltd" model "SMT"
				Added "XC Electronics (Shenzhen) Corp Ltd" model "5TE"
			22	Added "Advanced (Shenzhen) Electronics Co.,Ltd." model "S1D80" Updated mark of conformity from: "cURus" to: "NR"
			32	Removed "Guangdong Tianyue Printing Tech Co., Ltd." model "TY867-150" and "TY669A-125" Added "Lecco (Kaiping) Adhesive Products Co Ltd" model "0743"

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
			34	Added component "Capacitor"
			35	Added component "Resistor"
			36	Added component "Electrolytic Capacitor"
			37	Added component "Electrolytic Capacitor"
			38	Added component "Electrolytic Capacitor"
			39	Added component "Varistor"
		5	-	Added CEC table for insulated coil "PT SUMA ARTHA PERKASA" model "2033080ID"
		7	1	Updated "Illustration 1 - Caution Label" with the revised label.
			2	Updated "Illustration 2 - Warning/Hyperthermia label" with the revised label
			3	Updated "Illustration 3 - Cord Tag Label" with the revised label
			5	Updated "Illustration 5 - Schematic for Model CT16558 and CT16560" to newest schematic version with additional details
			6	Corrected name from: "Illustration 6 - Schematic for Zhuhai Sounds Electric Co., LTD., Model CT16670." to: "Illustration 6 - Schematic for Model CT16670" Updated to the newest schematic version with additional details
			7	Corrected name from: "Illustration 7 - Schematic for Shenzhen Topace Technology Co. Ltd., Model CT16670." to: "Illustration 7 - Schematic for Model CT16450, CT16451" Updated to the newest schematic version with additional details
			8	Added "Illustration 8 - Schematic for Guangdong Billion Plus, model CT16560"
			9	Added "Illustration 9 - Schematic for Guangdong Billion Plus, model CT16558"
			10	Added "Illustration 10 - Motor Assembly Drawing, PT SUMA, 2033080ID, models CT16558, CT16560 and CT16670 "
			10a	Added "Illustration 10a - Motor Assembly Drawing, PT SUMA, 2033080ID, models CT16450, CT16451"
		8	-	Added new test block.
		8.1	-	Replaced signatures from: "Justin Polhamus" and "Russ Ransom" to: "Omar Hernandez" and "Derrek Root"

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
29-Jul-2025	Omar Hernandez	3	18	Added photo 18
G106273538CRT	Russell Ransom	4	10	Corrected model from: "RFB Series" to: "RFB-120-1500"
			15	Added "Guangdong Billion Plus Electrical Technology Limited" model "166704011A"
			23	Updated technical data from: "Rated 470uF, 16V, 105°C. Located at C4 or EC3" to: "Rated 470uF, 16V, 105°C. Located at C4, EC3, or EC2"
			26	Updated technical data from: "Rated 220uF, 25V, 105°C. Located at EC1, EC2." to: "Rated 220uF, 25V, 105°C. Located at EC1, EC2, EC3."
			35	Updated technical data from: "2W/22Ω(R1). Used in models CT16558 and CT16560" to: "2W/22Ω(R1). Used in models CT16558, CT16560, and CT16670."
		6	-	Updated schematics from: "Refer to Illustrations 5, 6, and 7 for schematics requiring verification during Field Representative Inspection Audits." to: "Refer to Illustrations 5, 6, 7, 8, 9, and 11 for schematics requiring verification during Field Representative Inspection Audits."
		7	11	Added "Illustration 11 - Schematic for Guangdong Billion Plus, model CT16670"
		8	-	Added new test block.
		8.1	-	Replaced signatures from: "Omar Hernandez" and "Derrek Root" to: "Omar Hernandez" and "Russ Ransom"
				Added model: CT16570 and CT16650 Updated Model Similarity. From: Model CT16450 is Manually switch controlled. Model CT16558 is Electronic controlled version with adjustable thermostat. Model CT16560 is identical to CT16558 except for addition of Remote Control. Model CT16451 is identical to Model CT16450 except for color. Model CT16670 is identical to Model CT16560 except for control/display pcb, control panel graphics and remote

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		2	-	control/display pcb, control panel graphics and remote control. To: Model CT16450 is manually switch controlled. Model CT16570 is a capacitive touch type. Model CT16560 is a capacitive touch type with a remote control Model CT16670 is similar to Model CT16558 except for control/display pcb, control panel graphics and remote control. Model CT16558 is Electronic controlled version with adjustable thermostat.
		3	5	Updated photo 5
		3	6	Updated photo 6 and photo name. From: Model CT16450 External View To: Model CT16650 External View
		3	7	Updated photo name. From: Photo 7 - Models CT16558 and CT16560 External View To: Photo 7 - Model CT16558 External View
		3	7a	Added Photo 7a - Model CT16560 External View
		3	9	Updated model. From: LUPOX GP2306F To: LUPOX GP-2306F(#)
		3	10	Removed Photo
		3	11	Removed Photo
		3	16	Removed Photo
		3	19	Added photo 19 - PCB, Billion Plus, 2034115, Used in model CT16650
		3	20	Added photo 20 - PCB, Billion Plus, 2034116, Used in model CT16570
		3	21	Added photo 21 - PCB, Billion Plus, 2034117, Used in model CT16560
		3	22	Added photo 22 - PCB, Topapex, 2034115, Used in model CT16650
		3	23	Added photo 23 - PCB, Topapex, 2034116, Used in model CT16570
		3	24	Added photo 24 - PCB, Topapex, 2034117, Used in model CT16560
		4	2	Added alternative components
		4	3	Added alternative components
		4	4	Added alternative components
		4	7	Added alternative components
		4	13	Added alternate motor: 2033421 and 2033421ID
		4	15	Removed alternative component: 2033870 Added models 2034115, 2034116, and 2034117.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
18-May-2026	B.P. Brendan Pursoo	4	18	removed component
		4	19	Added alternative components
		4	21	Added alternative components
		4	22	Added alternative components
		4	28	Removed components. Guangdong Tianyue Printing Tech Co., Ltd Lian Yi Printing Co. Ltd Added alternative component. Zhongshan Zhantu Printing Co., Ltd
		4	34	Updated technical data. From: "0.1uF, 250V, T105°C. Located on bottom of PCB (C1) Used in models CT16558 and CT16560" To: "0.1uF, 250V, T105°C. Located on bottom of PCB (C1) Used in models CT16558." Added alternative models MPX Series and Various
		4	35	Updated technical data. From: "2W/22Ω(R1). Used in models CT16558, CT16560, and CT16670." To: "2W/22Ω(R1). Used in models CT16558 and CT16670."
		4	36	Updated technical data. From: "Rated 4.7uF, 400V, 105°C. Located at EC1, EC2. Used in models CT16558 and CT16560." To: "Rated 4.7uF, 400V, 105°C. Located at EC1, EC2. Used in models CT16558."
		4	38	Updated technical data. From: "Rated 220uF, 16V, 105°C. Located at EC5. Used in models CT16558 and CT16560." To: "Rated 220uF, 16V, 105°C. Located at EC5. Used in models CT16558"
		4	39	Updated technical data. From: "10K471 located at VDR1. Used in models CT16558 and CT16560." To: "10K471 located at VDR1. Used in models CT16558."
		4	40	Added component: Inductor
		4	41	Added component: Aluminum Electrolytic Capacitor
		4	42	Added component: Optical Tilt Switch
		4	43	Added component: NTC Cable
		4	44	Added component: Triac
		5	13	Added CEC table for insulated coil "Guangdong Billion Plus Electrical Technology Limited" model "2033421" and "PT SUMA ARTHA PERKASA" model "2033421ID" Updated lead wire for motors "2033080", "2033080ID", "2033421", and "2033421ID". From: 18AWG,105°C,600V To: 18-20AWG,105°C,600V

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		7	4	Updated Illustration. Updated illustration name. From: Illustration 4 - Motor assembly drawing for Models CT16558, CT16560, and CT16670 To: Illustration 4 - Motor assembly drawing for Models CT16560, CT16570, and CT16650"
		7	4a	Updated Illustration name. From: Illustration 4a - Motor assembly drawing for Models CT16450 and CT16451 To: Illustration 4a - Motor assembly drawing for Model CT16451
		7	5	Updated name. From: Illustration 5 - Schematic for Model CT16558 and CT16560 To: Illustration 5 - Schematic for Model CT16558
		7	8	Removed Illustration
		7	10	Updated name. From: Illustration 10 - Motor Assembly Drawing, PT SUMA, 2033080ID, models CT16558, CT16560 and CT16670 To: Illustration 10 - Motor Assembly Drawing, PT SUMA, 2033080ID, models CT16558 and CT16670
		7	10a	Updated name. From: Illustration 10a - Motor Assembly Drawing, PT SUMA, 2033080ID, models CT16450, CT16451 To: Illustration 10a - Motor Assembly Drawing, PT SUMA, 2033080ID, model CT16451
		7	12	Added Illustration 12 - Motor assembly drawing, Guangdong Billion Plus, 2033421
		7	13	Added Illustration 13 - Schematic for Guangdong Billion Plus, model CT16560/CT16570/CT16650
		7	14	Added Illustration 14 - Schematic for Topapex, model CT16560/CT16570/CT16650
		7	15	Added Illustration 15 - Motor Assembly Drawing, PT SUMA, 2033421ID
		7	16	Added Illustration 16 - Schematic for CT16650/CT16570/CT16560
		8	-	Added new test block
G106508676CRT	Russell Ransom <i>RJR</i>	8.1	-	Updated signature from Omar Hernandez to Brendan Pursoo