



# Constructional Data Form for Electrical Products

Certificate # CU 72227695 03

File # CN225P6Z 003

**License Holder** : **Hardshell Technology (Foshan) Co., Ltd.**  
6 Zhongjian Road, Zhongchong Village, Leliu, Shunde, Foshan, Guangdong, P.R. China

**Factory** : **Hardshell Technology (Foshan) Co., Ltd.**  
6 Zhongjian Road, Zhongchong Village, Leliu, Shunde, Foshan, Guangdong, P.R. China

**Type of Product** : **Coffee Maker**

**Model Number** : CM1633, 3700 PRO, GCF20FM, CM1663, 3700 GENSE, GCF20F, CM1662, 3700 ESSENTIAL, CM1635, CM1665B, 4700 GENSE, CM1638A, GCF20FA, CM1670A, CM1666

**Ratings** : 120V~, 60Hz, 1350W


Remark:

Declared operating ambient temperature: N/A.

Protection class: N/A

**General product information:**

- The product covered by this report are coffee makers, having a rating of AC 120V, 60Hz, 1350W, provided with a non-detachable power supply cord terminated in a 2-wire polarized plug. It's intended to be indoor used only.
- Models GCF20FM and 3700 PRO are identical to model CM1633 except model name; models 3700 GENSE and GCF20F are identical to model CM1663 except model name.
- The model CM1662 has one less pressure gauge than model CM1663, and the other structures are exactly the same.
- The model CM1662 and 3700 ESSENTIAL are completely the same, except for model name.
- The structures of model CM1665B and CM1663 are completely the same, except for the control PCB and appearance control parts.
- The structures of CM1635 and CM1633 are completely the same, except for the control PCB, main PCB and appearance control parts.
- The appearance, power board, control board, solenoid valve, and water pump of CM1638A and CM1635 are different, and CM1638A has an additional mechanical switch structure than CM1635, and the other structures are exactly the same.
- CM1638A and GCF20FA are completely the same, except for model name.
- The appearance, power board, control board, and solenoid valve of CM1670A and CM1663 are different, and CM1670A has an additional left hot water pipe and mechanical switch structure compared to CM1663, and the other structures are exactly the same.
- CM1670A and 4700 GENSE are completely the same, except for model name.
- The appearance, power board and control board of CM1666 and CM1663 are different, and the other structure are exactly the same.

	(Place) Foshan	(Date) 2023-10-30
	 (Stamp and signature of applicant)	

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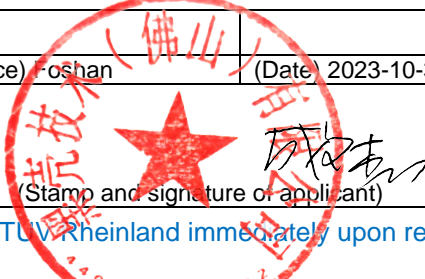


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**List of Critical Components:**

Item No.	Object/part no.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity
1.	Plug	Sheng Yi Electrical Factory	SY-11	AC 125V, 13A	UL 817, CSA C22.2 No. 21	ETL 4006319
2.	(Alternative)	Various	Various	AC125V, 13A	UL 817, CSA C22.2 No. 21	ETL
3.	Power cord	Sheng Yi Electrical Factory	SPT-2	2X16AWG, 300V, 105°C	UL 62, CSA C22.2 No. 49	ETL 4006319
4.	(Alternative)	Various	SPT-2	2X16AWG, 300V, 105°C	UL 62, CSA C22.2 No. 49	ETL
5.	Micro switch (For models CM1633, 3700 PRO, GCF20FM, CM1635, CM1638A, GCF20FA only)	Tongde Electronics Electric Appliances Co.,Ltd	KW-16	125V, 16A, T125°C, 3E4 cycles	UL 61058-1, CSA C22.2 No. 61058-1	ETL 4007690
6.	(Alternative)	ZHEJIANG GUANBAO ELECTRONIC CO LTD	XCK-010	Rated: 125-250Vac, 1hp, 16GP(4)A, T125, 10E3 cycles	UL 1054, CSA-C22.2 No. 55	UL E238776

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7.	Micro switch (For models CM1663, 3700 GENSE, GCF20F, CM1662, CM1665B, 3700 ESSENTIAL, CM1670A, 4700 GENSE, CM1666 only)	Tongde Electronics Electric Appliances Co.,Ltd	KW-5A	125V, 5A, T125°C, 3E4	UL 61058-1, CSA C22.2 No. 61058- 1	ETL 4007690
8.	(Alternative)	ZHEJIANG GUANBAO ELECTRONIC CO LTD	XCK-009	Rated: 125V/10.1GPA, 250V/6GPA, 50/60Hz, T125, 10E3 cycles	UL 1054, CSA- C22.2 No. 55	UL E238776
9.	Function switch (For model CM1638A, GCF20FA, CM 1670A, 4700 GENSE)	Tongde Electric Appliance Co., Ltd.	KDC-A04	AC 125V, 13A, T105, 1E4 cycles	UL 61058-1, CSA C22.2 No.61058-1	ETL 4007690
10.	(Alternative)	ZHEJIANG GUANBAO ELECTRONIC CO LTD	XCK-012	AC 110-130V, 16A, T125, 3/4HP	UL 1054, CSA- C22.2 No. 55	UL E238776
11.	(Alternative)	ZHEJIANG GUANBAO ELECTRONIC CO LTD	XCK-017	AC 125V, 10A, T125, 10000 cycles	UL 1054, CSA- C22.2 No. 55	UL E238776
12.	(Alternative)	Tongde Electric Appliance Co., Ltd.	KDC-A05	AC 125V, 13A, T105, 10000 cycles	UL 61058-1, CSA C22.2 No.61058-1	ETL 4007690

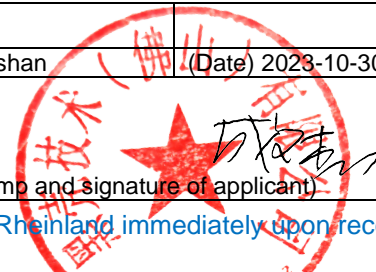
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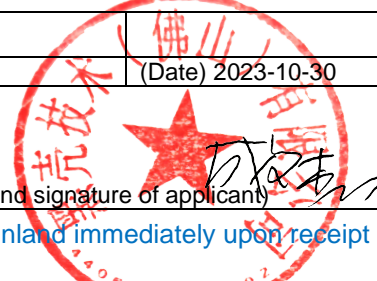
13.	(Alternative)	ZHEJIANG JIALONG ELECTRON CO LTD	KCD3	AC 125-250V, 20A, T125, 10000 cycles	UL 61058-1, CSA C22.2 No.61058-1	UL E317967
14.	Boiler	Hardshell Technology (Foshan) Co., Ltd.	CM1663	120 V, 1300 W	UL 1082, CSA C22.2 No. 64	Tested with appliance
15.	Steam Boiler (For models CM1633, 3700 PRO, GCF20FM, CM1635, CM1638A, GCF20FA only)	Hardshell Technology (Foshan) Co., Ltd.	CM1633	120 V, 1000 W	UL 1082, CSA C22.2 No. 64	Tested with appliance
16.	Thermal link	DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	BTT 192C 15A	AC 250V, 15A, Tf:192 °C	UL 60691, CSA E60691	UL E346843
17.	(Alternative)	Shanghai Xinyuan Electronics Corporation	RY192	AC 125V, 15A, Tf: 192°C,	UL 60691, CSA E60691	UL E362696
18.	(Alternative)	A.R. Electric Co., Ltd.	F00192C	AC 125 V, 15A, Tf: 192°C,	UL 60691, CSA E60691	UL E332658

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19.	Solenoid valve (For models CM1633, 3700 PRO, GCF20FM, CM1635, CM1638A, GCF20FA, CM 1670A, 4700 GENSE only)	NINGBO JIAYIN ELECTRO MECHANICAL TECHNOLOGY CO LTD	JYZ-3	AC 110-120V, 60Hz, 12VA, TA=120°C, TF=140°C, Class H	UL 429, CSA-C22.2 No. 139	UL E321645
20.	(Alternative)	NINGBO JIAYIN ELECTRO MECHANICAL TECHNOLOGY CO LTD	JYZ-3E	DC 110V, 12W, TA=120°C, TF=140°C, Class H	UL 429, CSA-C22.2 No. 139	UL E321645
21.	Water pump	CEME S.p.A. a Socio Unico	Model EFM; Type EP4FM	AC 120V, 60 Hz, 46 W, Class F	UL 778, CSA C22.2 No. 108	UL E151204
22.	(Alternative)	NINGBO JIAYIN ELECTRO MECHANICAL TECHNOLOGY CO LTD	JYPC-506	AC 110-127V, 60Hz, 55W, Class H	UL 778, CSA C22.2 No. 108	UL E322457
23.	Internal wire to heating element and others	GUANGDONG YONGROI CABLE TECHNOLOGY CO LTD	3122	300V, 200°C, 18-22 AWG	UL 758, CSA C22.2 No. 210	UL E204893
24.	(Alternative)	Zhongshan Pingwang Electric Co Ltd	3122	300V, 200°C, 18-22 AWG	UL 758, CSA C22.2 No. 210	UL E516112

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25.	(Alternative)	FOSHAN CITY SHUNDE ZHENGLANG METALWARE ELECTRIC APPARATUS CO LTD	3122	300V, 200°C, 18-22 AWG	UL 758, CSA C22.2 No. 210	UL E313243
26.	(Alternative)	KELIN WIRE CO LTD (DONGGUAN)	3122	300V, 200°C, 18-22 AWG	UL 758, CSA C22.2 No. 210	UL E250866
27.	(Alternative)	ZHONGSHAN CITY DINGXIANG ELECTRICAL CO LTD	3122	300V, 200°C, 18-22 AWG	UL 758, CSA C22.2 No. 210	UL E354487
28.	(Alternative)	various	3122	300V, 200°C, 18-22AWG	UL 758, CSA C22.2 No. 210	UL
29.	The leads of the NTC	KELIN WIRE CO LTD (DONGGUAN)	10362	600V, 250°C, 24-26AWG	UL 758, CSA C22.2 No. 210	UL E250866
30.	(Alternative)	KELIN WIRE CO LTD (DONGGUAN)	1332	300V, 200°C, 24-26AWG	UL 758, CSA C22.2 No. 210	UL E250866
31.	(Alternative)	various	1332	300V, 200°C, 24-26AWG	UL 758, CSA C22.2 No. 210	UL
32.	(Alternative)	various	10362	600V, 250°C, 24-26AWG	UL 758, CSA C22.2 No. 210	UL

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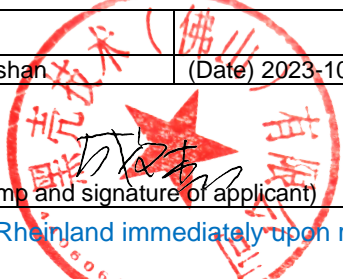
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33.	Internal wire to control PCB (For models CM1663, 3700 GENSE, GCF20F, CM1662, CM1665B, 3700 ESSENTIAL, CM1670A, 4700 GENSE, CM1666 only)	ZHONGSHAN YUXUAN ELECTRONIC CO LTD	2468	300V, 80°C, 24-28AWG	UL 758, CSA C22.2 No. 210	UL E316286
34.	(Alternative)	various	2468	300V, 80°C, 24-28AWG	UL 758, CSA C22.2 No. 210	UL
35.	Internal wire to control PCB (For models CM1633, 3700 PRO, GCF20FM, CM1635, CM1638A, GCF20FA only)	ZHONGSHAN FUYUANTONG WIRE & CABLE CO LTD	2651	300V, 105°C, 24-28AWG	UL 758, CSA C22.2 No. 210	UL E241989
36.	(Alternative)	ZHONGSHAN DONGFENG ZHOUSHISHENLONG ELECTRONIC WIRE CO LTD	2651	300V, 105°C, 24-28AWG	UL 758, CSA C22.2 No. 210	UL E257280


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37.	(Alternative)	DONGGUAN WENCHANG ELECTRONIC CO LTD	2651	300V, 105°C, 24-28AWG	UL 758, CSA C22.2 No. 210	UL E214500
38.	(Alternative)	GUANGDONG ZHIHE WIRE & CABLE CO LTD	2651	300V, 105°C, 24-28AWG	UL 758, CSA C22.2 No. 210	LU E251728
39.	(Alternative)	ZHONGSHAN CITY BOYU WIRE CO LTD	2651	300V, 105°C, 24-28AWG	UL 758, CSA C22.2 No. 210	UL E314089
40.	(Alternative)	GUANGDONG XIN LONG ENTERPRISE CO	2651	300V, 105°C, 24-28AWG	UL 758, CSA C22.2 No. 210	UL E207567
41.	(Alternative)	various	2651	300V, 105°C, 24-28AWG	UL 758, CSA C22.2 No. 210	UL
42.	Enclosure	NINGBO LG YONGXING CHEMICAL CO LTD	HI-121H	ABS, HB, 90°C, HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick.	UL 94, UL 746B, CSA C22.2 No. 0.17	UL E203955
43.	Bottom cover	HANWHA TOTAL PETROCHEMICAL CO LTD	HJ730	PP, HB, 115°C, HWI=2, HAI=0, CTI=0. Min. 1.5 mm thick.	UL 94, UL 746C, CSA C22.2 No. 0.17	UL E140331
44.	Boiler Support	KINGFA SCI & TECH CO LTD	PA66-R41G25(##)(f1)	PA66, V-0, 150°C, HWI=0, HAI=0, CTI=0, Min. 1.5mm	UL 94, UL 746C, CSA C22.2 No. 0.17	UL E171666
45.	LED PCB Bracket	Covestro Deutschland AG [PC Resins]	2858 + (z)(f1)	PC. V-2, 115°C. Min. 1.5 mm thick.	UL 94, UL 746C, CSA C22.2 No. 0.17	UL E41613
46.	PCB	GOLDEN ELITE TECHNOLOGY (SHEN ZHEN) LTD	GE-2	V-0, 130°C	UL 796, CSA-C22.2 NO. 0.17	UL E307069

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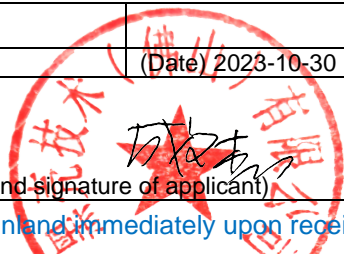




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47.	(Alternative)	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	V-0, 130°C	UL 796, CSA-C22.2 NO. 0.17	UL E173873
48.	(Alternative)	various	Various	V-0, 130°C	UL 796, CSA-C22.2 NO. 0.17	UL
49.	Thermal Link Sleeving	SHENZHEN WAHCHANGWEI INDUSTRIAL CO LTD	SRS-70	Rated 600V, 200°C	UL 1441, CSA-C22.2 No. 198.3	UL E233803
50.	(Alternative)	various	Various	Rated 600V, 200°C	UL 1441, CSA-C22.2 No. 198.3	UL
51.	Knob	KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750	ABS. Rated HB, HWI=4, HAI=0, CTI=0, Min. 1.5 mm thick.	UL 94, UL 746C, CSA C22.2 No. 0.17	UL E65424
52.	Slicing wire Connector	Zhejiang Lianhe Electronic Co., Ltd	XHBD-4P	T85, 250V, 3A	UL 1977, CSA-C22.2 No. 182.3	UL E364711
53.	(Alternative)	Yueqing Jiade Electronics Co., Ltd	SM-4P	T85, 250V, 3A	UL 1977, CSA-C22.2 No. 182.3	UL E241222
54.	Quick connector	Various	Various	Suitable for scale of wire	UL 310, CSA C22.2 No.153	UL

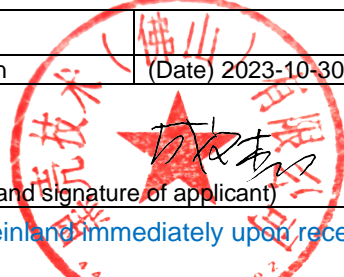
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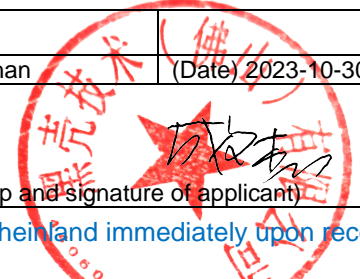
55.	X capacitor (For models CM1663, 3700 GENSE, GCF20F, CM1662, CM1665B, 3700 ESSENTIAL, CM1670A, 4700 GENSE, CM1666 only)	Dain Electronics Co., Ltd	MPX	X2, 0.22µF, 275VAC, T100	UL 60384-14	UL E147776
56.	(Alternative)	Foshan shunde Beijiao Hua Da Electric Industrial Co., Ltd	HD, HD MKP	X2, 0.22µF, 275VAC, T85 or T105 or T110	UL 60384-14, CSA E60384-14	UL E227157
57.	(Alternative)	various	Various	X2, 0.22µF, 275VAC, T85 or T105 or T110	UL 60384-14, CSA E60384-14	UL
58.	X capacitor (For models CM1633, 3700 PRO, GCF20FM, CM1635, CM1638A, GCF20FA only)	Tenta Electric Industrial Co. Ltd.	MEX	275VAC, 0.1µF, T100	UL 60384-14, CSA E60384-14	UL E222911
59.	(Alternative)	FOSHAN SHUNDE CHUANGGE ELECTRONIC INDUSTRIAL CO LTD	MKP-X2	275VAC, 0.1µF, T105	UL 60384-14, CSA E60384-14	UL E308832

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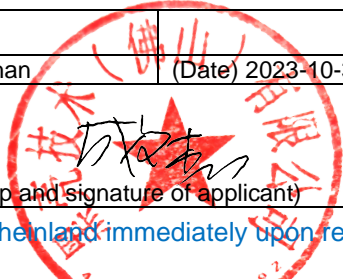
60.	(Alternative)	GUANGDONG FENGMING ELECTRONIC TECH CO LTD	MKP-X2	275VAC, 0.1μF, , T85 or T105 or T110	UL 60384-14, CSA E60384-14	UL E345487
61.	(Alternative)	various	various	275VAC, 0.1μF, , T85 or T105 or T110	UL 60384-14, CSA E60384-14	UL
62.	Relay (For models CM1663, 3700 GENSE, GCF20F, CM1662, CM1665B, 3700 ESSENTIAL, CM1670A, 4700 GENSE, CM1666 only)	SHENZHEN ZHUOHONG ELECTRONICS CO LTD	Z3F-05-1AS	5VDC, VDC Max.=3.75V; VDC Min.=0.25V; 10E4; T105	UL 508, CSA C22.2 No.14-10	UL E502082
63.	(Alternative)	ZHONGSHAN XIAOLAN GUOKE RELAY FACTORY	GK3FF- 6VDC-S-A	Coil voltage: 6VDC; Rated voltage: 125Vac; Rating current: 12A; 10E4; T105	UL 508, CSA C22.2 No.14-10	UL E359350
64.	(Alternative)	SANYOU CORPORATION LIMITED	SRD-S- 112DM	15A/120V,10A/2 50V, T105, 6000 cycles	UL 508, CSA C22.2 No.14-10	UL E190598
65.	(Alternative)	NINGBO TIANBO GANGLIAN ELECTRONICS CO LTD	HJR-3FF-S- H-12VDC	10A/240V, 12A/120V, T105, 30000 cycles	UL 508, CSA C22.2 No.14-10	UL E173485
66.	(Alternative)	WANGRONG ELECTRONICS (SHENZHEN) CO LTD	RD-112DM	15A/125V, 10A/277V, T105, 100000 cycles	UL 508, CSA C22.2 No.14-10	UL E345228

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67.	(Alternative)	NINGBO YINZHOU YONGLIN ELECTRICAL EQUIPMENT CO LTD	YL303H-S- 12VDC-1H	10A/250VAC, 12A/125VAC, T105, 20000 cycles	UL 508, CSA C22.2 No.14-10	UL E233840
68.	Varistor (For models CM1663, 3700 GENSE, GCF20F, CM1662, CM1665B, 3700 ESSENTIAL, CM1670A, 4700 GENSE, CM1666 only)	Guangxi New Future informaton Industry Co., Ltd.	10D471K	470V, T125	UL 1449, CSA C22.2 No. 269	UL E323753
69.	Varistor (For models CM1670A, 4700 GENSE, CM1666 only)	HAOHUA ELECTRONIC CO.	HVR10K561	560V, T85	UL 1449, CSA C22.2 No. 269	UL E332662
70.	(Alternative)	XIAN XIWUER ELECTRONIC & INFORMATION CO LTD	MYG3- 10K360	560V, T85	UL 1449, CSA C22.2 No. 269	UL E321175
71.	(Alternative)	THINKING ELECTRONIC INDUSTRIAL COLTD	TVR10561	AC560V, T105	UL 1449, CSA C22.2 No. 269	UL E314979
72.	(Alternative)	XIANGTAI ELECTRONIC(SH ENZHEN) COLTD	MYD- 10K561	AC560V, T85	UL 1449, CSA C22.2 No. 269	UL E472470

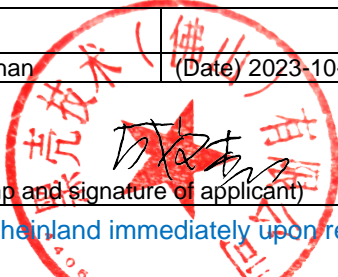
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73.	Varistor (For models CM1633, 3700 PRO, GCF20FM, CM1635, CM1638A, GCF20FA only)	HONGZHI ENTERPRISES LTD	HEL10D271 K	AC175V, T105	UL 1449, CSA C22.2 No. 269	UL E324904
74.	(Alternative)	CERGLASS MFG INC	10D271K	AC175V, T105	UL 1449, CSA C22.2 No. 269	UL E317616
75.	NTC on 1000W boiler	Shenzhen Kependa Electronic Co., Ltd	NTC-104-395-58	Tmoa=300°C; Class C4	UL 60730-1, UL 60730-2-9, CSA E60730-1, CSA E60730-2-9	UL E256966
76.	NTC on 1300W boiler	ANHUI EAGLE ELECTRON CO LTD	MF58-104X3950Y A	Tmoa=200°C; Class C4	UL 60730-1, UL 60730-2-9, CSA E60730-1, CSA E60730-2-9	UL E502983
77.	Current fuse (For models CM1633, 3700 PRO, GCF20FM, CM1635, CM1638A, GCF20FA only)	XC ELECTRONICS(SHENZHEN) CORP LTD	5H	AC250V, T16A	UL 248-1, UL 248-14, CSA C22.2 No. 284.1, CSA C22.2 No. 248.14	UL E249609
78.	(Alternative)	DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	524	AC125V, T16A	UL 248-1, UL 248-14, CSA C22.2 No. 284.1, CSA C22.2 No. 248.14	UL E300003

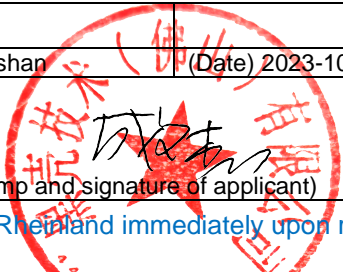
	(Place) Foshan	(Date) 2023-10-30
 (Stamp and signature of applicant)		
<p><b>Note: Any errors or omissions in the CDF shall be reported to TUV Rheinland immediately upon receipt by the applicant.</b></p>		



# Constructional Data Form for Electrical Products

Certificate # CU 72227695 03      File # CN225P6Z 003

79.	Fusing resistor (For models CM1663, 3700 GENSE, GCF20F, CM1662, CM1665B, 3700 ESSENTIAL, CM1670A, 4700 GENSE, CM1666 only)	Foshan Shunde Huduoyi Electronics Co., Ltd	TYPE-2W	2W, 39ohm	UL 1082, CSA C22.2 No. 64	Tested with appliance
80.	(Alternative)	GuangZhou XieYuan Electronics Technology Co., Ltd.	KNP2W	2W, 39ohm	UL 1082, CSA C22.2 No. 64	Tested with appliance
81.	(Alternative)	Shenzhen Dongyitai Electronics Co., Ltd.	KNP2W	2W, 39ohm	UL 1082, CSA C22.2 No. 64	Tested with appliance
82.	Current fuse (For models CM1670A, 4700 GENSE, CM1666 only)	XC ELECTRONICS (SHENZHEN) CORP LTD	5TE	T2A/250V	UL 248-1, UL 248-14, CSA C22.2 No. 284.1, CSA C22.2 No. 248.14	UL E249609
83.	(Alternative)	HONGHU BLUELIGHT ELECTRONIC CO LTD	6ET	2A/250V	UL 248-1, UL 248-14, CSA C22.2 No. 284.1, CSA C22.2 No. 248.14	UL E324232

	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">                 (Place) Foshan      (Date) 2023-10-30             </div> <div style="text-align: center;">  <p>(Stamp and signature of applicant)</p> </div>
<p><b>Note:</b> Any errors or omissions in the CDF shall be reported to TUV Rheinland immediately upon receipt by the applicant.</p>	



# Constructional Data Form for Electrical Products

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84.	(Alternative)	Dongguan Hongda Electronic Technology Co., Ltd	2009	2A/125V	UL 248-1, UL 248-14, CSA C22.2 No. 284.1, CSA C22.2 No. 248.14	UL E318938
85.	Thermal cut out (for model 1635, 1633, 3700 PRO, GCF20FM, CM1638A, GCF20FA (optional))	Foshan Shunde Xingtian Zhongbao Thermostat Co., Ltd.	KSD301-C	AC 125V, 10A, Tf:160°C, 100000 cycles	UL 873, CSA C22.2 No. 24	UL E213536
86.	(Alternative)	Foshan Kehua Electric Appliance Co., Ltd.	KSD301-G	AC 125V, 10A, Tf:160°C, 100000 cycles	UL 60730-1, CSA-E60730-1	UL E344510
87.	(Alternative)	Foshan Shunde Chengji Electronics Co., Ltd.	KSD301D	AC 125V, 12A, Tf:160°C, 100000 cycles	UL 60730-1, CSA-E60730-1	UL E306201
88.	Label	various	Approved type	Min. 60°C, suitable for applied surface	UL 969	UL

**Routine Safety Testing:**

Required:

Not Required:

Reason:

Class III product:

**Test Details:**

Dielectric Strength:

Function test:

Other:

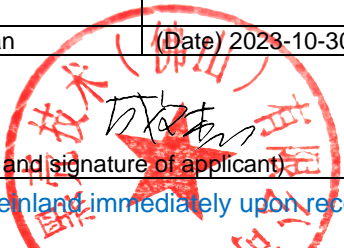
**Test Points:**

- Between primary to accessible parts

- The correct functioning of the appliance should be checked

**Test Values**

1200Vac, 1s

	(Place) Foshan	(Date) 2023-10-30
 (Stamp and signature of applicant)		
<p>Note: Any errors or omissions in the CDF shall be reported to TUV Rheinland immediately upon receipt by the applicant.</p>		