

Certificate No. S 50623113 0001 Our Reference ZC10-GW-50230899 006 Appendix No. 1

Constructional Data Form (CDF) for Electrical Appliances

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License holder : Ningbo AAA Group Electric Appliance Co.,Ltd
No.158 Kaifa Road (East), Zhouxiang Town Cixi 315324 Zhejiang P.R.
China

Factory : Ningbo AAA Group Electric Appliance Co.,Ltd
No.158 Kaifa Road (East), Zhouxiang Town Cixi 315324 Zhejiang P.R.
China

Type of Appliance : Espresso coffee-maker

Type Designation : 3A-C279

Rating : AC 220-240V; 50/60Hz, 1200W, Class I

Protection Class : Class I

Supply connection : ☒ fixed power cord
☐ permanent connection
☐ appliance inlet
☐ direct plug in
☐ battery operated

Please tick above box ☒ when applicable

Additional information :

Critical Components

Material: e.g. external enclosure, PCB, closed-end connector, sleeves, cord anchorage etc

Components with winding: e.g. motor, transformer, magnetic coil etc.

Other components: e.g. switch, thermostat, heater, plug, internal wire, capacitor, relay, varistor etc.

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Power Plug	Ningbo Light-Heavy Electronics Technology Co.,Ltd	FE-03P	AC250V, 16A	DIN VDE 0620-1	VDE 40021547
Alternative	Phino Electric Co.Ltd.	PHP-206 PHP-206s	AC250V, 16A	DIN VDE 0620-1	VDE 40013375
Alternative	Yuyao Anlian Electronics Science & Technology Co.,Ltd.	AL-13	AC250V, 16A	DIN VDE 0620-1	VDE 40028609
Alternative	Patelec(Ningbo)Elec tric Company Ltd.	422U	AC250V; 16A	DIN VDE 0620-1	VDE 40014666
Alternative	Ningbo Liansheng Wire&Cable Co.,Ltd.	LS03	AC 250 V 16A	DIN VDE 0620-1	VDE 40034732

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Comptsonen with winding: e.g. motor, transformer, magnetic coil etc.

Other components: e.g. switch, thermostat, heater, plug, internal wire, capacitor, relay, varistor etc.

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Alternative	CIXI WANNENG ELECTRON CO.,LTD	D003	AC 250V 16A	DIN VDE 0620-2-1	VDE 40044952
Alternative	Yuyao Yunbiao Electronics Co.,Ltd.	YB003	AC 250V 16A	DIN VDE 0620-1	VDE 40004738
Plug for Switzerland	Friendship Enterprises International Ltd.	FE-119P	AC250V, 10A	IEC 60884-1 SEV 1011:2009	SWISS 19.0047
Alternative	Phino Electric Co.,Ltd	PHP 311	AC 250V, 10A	IEC 60884-1 SEV 1011:2009	SWISS 16.0497
Alternative	Ningbo Qiaopu Electric Co., Ltd	D13	AC250V, 10A	IEC 60884-1 SEV 1011: 2009	SWISS 17.0974
Alternative	Patelec(Ningbo)Ele ctric Company Ltd.	701	AC250V, 10A	IEC 60884-1 SEV 1011:2009	SWISS IK-3018
Plug for U.K.	Friendship Enterprises International Ltd	FE-130P	AC250V, 10A/13A	BS1363-1	ASTA/1307
Alternative	Phino Electric Co.,Ltd	PHP-318	AC250V, 10A /13A	BS1363-1	BSI/ KM69214
Alternative	Patelec Cords and Cables S.r.l.	2343	AC250V, 10A/13A	BS1363-1	BSI/KM56645
Alternative	Friendship Enterprises International Ltd	FE-130P-B	AC250V, 10A/13A	BS1363-1	ASTA/1309
Alternative	Ningbo Qiaopu Electric Co., Ltd	D09, D09A	AC250V, 10A/13A	BS1363-1	ASTA*/ 930
Alternative	Cixi Wanneng Electron Co.,Ltd.	WN401	AC250V, 10A/13A	BS1363-1	Certificate number:35- 106932
Fuse in U.K. plug	Dongguan Cooper Electronics Co., Ltd.	TDC 180	240V, 10A/13A	BS 1362	ASTA/ 658
Alternative	Group Talents Limited	SEM 11	240V 10A/13A	BS 1362	BSI/KM21062
Alternative	Group Talents Limited	SEM11	240V; 10A/13A	BS 1362	ASTA/500

TÜV Rheinland Group

2024.03.18

William Gui



Date

Name

Signature

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Comptsonen with winding: e.g. motor, transformer, magnetic coil etc.

Other components: e.g. switch, thermostat, heater, plug, internal wire, capacitor, relay, varistor etc.

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Alternative	Ningbo Weiyun Electronic Co.,Ltd	SAFE	240V; 10A/13A	BS 1362	ASTA/ 854
Alternative	Zhongshan City Huangpu Town Xinghui Electrical	SUM8001	240V; 10A/13A	BS 1362	ASTA/1244
Power Cord	Ningbo Light-Heavy Electronics Technology Co., Ltd.	H05VV-F	3G0,75mm ² 3G1,0mm ² (length less tan 2m)	DIN EN 50525-2-11	VDE/ 40035166
Alternative	Phino Electric Co.,Ltd	H05VV-F	3G0,75mm ² 3G1,0mm ² (length less tan 2m)	DIN EN 50525-2-11	VDE /113841
Alternative	Yuyao Anlian Electronics Science & Technology Co., Ltd.	H05VV-F	3G0,75mm ² 3G1,0mm ² (length less tan 2m)	DIN EN 50525-2-11	VDE/40027992
Alternative	Patelec(Ningbo)Ele ctric Company Ltd	H05VV-F	3G0,75mm ² 3G1,0mm ² (length less tan 2m)	DIN EN 50525-2-11	VDE/40010748
Alternative	Ningbo Liansheng Wire&Cable Co.,Ltd.	H05VV-F	3G0,75mm ² 3G1,0mm ² (length less tan 2m)	DIN EN 50525-2-11	VDE 40022054
Alternative	CIXI WANNENG ELECTRON CO.,LTD	H05VV-F	3G0,75mm ² 3G1,0mm ² (length less tan 2m)	DIN EN 50525-2-11	VDE 40044024
Alternative	Yuyao Yunbiao Electronics Co.,Ltd.	H05VV-F	3G0,75mm ² 3G1,0mm ² (length less tan 2m)	DIN EN 50525-2-11	VDE 138242
Internal wire (others)	Jiang Yin Tianqi Silicone Rubber Products Co., Ltd.	H05S-K/ H05SJ-K	1x0,5 mm ² or 1x0,75mm ² ,T180	DIN EN 50525-2-41	VDE/ 40017265
Alternative	Cixi Sanhe CABLE Co.,Ltd	H05S-K/ H05SJ-K	1x0,5 mm ² or 1x0,75mm ² ,T180	DIN EN 50525-2-41	VDE/40023284
Internal wire (Teflon wire for NTC)	Boley Dongguan Cit y Electric Co., Ltd	Black teflon wire	UL1332 26AWG TS 200°C 300V	EN 60335-1 EN 60335-2-15	UL(E305164)Test with appliance

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Critical Components

Material: e.g. external enclosure, PCB, closed-end connector, sleeves, cord anchorage etc

Comptsonen with winding: e.g. motor, transformer, magnetic coil etc.

Other components: e.g. switch, thermostat, heater, plug, internal wire, capacitor, relay, varistor etc.

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Alternative	HONG SHUN WIRE & CABLE FLUOROPLASTICS FACTORY	Black teflon wire	UL1332 26AWG TS 200°C 300V	EN 60335-1 EN 60335-2-15	UL(E238396)Test with appliance
Internal wire (internal wire connect to control PCB and Display)	DONGGUAN CITY JUNBAO ELECTRONIC CO.,LTD	UL1007	24AWG 300V,80°C	EN 60335-1 EN 60335-2-15	UL E474250 UL E477101 Test with appliance
Alternative	ZHEJIANG TOFFCONN ELECTRIC COMPONENT CO.,LTD	UL1007	24AWG 300V,80°C	EN 60335-1 EN 60335-2-15	UL E478707 Test with appliance
Alternative	GUANGDONG YONG ROI CABLE TECHNOLOGY CO LTD	UL1007	24AWG 300V,80°C	EN 60335-1 EN 60335-2-15	UL (E204893) Test with appliance
Alternative	KELIN WIRE CO LTD (DONGGUAN)	UL1007	24AWG 300V,80°C	EN 60335-1 EN 60335-2-15	UL (E250866) Test with appliance
Alternative	ZHONGSHAN DONGFENG ZHOUHISHENLO NG ELECTRONIC WIRE CO LTD	UL1007	24AWG 300V,80°C	EN 60335-1 EN 60335-2-15	UL (E250866) Test with appliance
Solenoid Valve	NINGBO JLT ELECTRTC CO.,LTD	SV(X)TPxTy z (JLT)	AC 220- 240V;50/60Hz; 9- 13.5VA; T120, Max operating Pressure:2.0Mpa	EN 60730-1 EN 60335-1 EN 60335-2-15	TUV R 50326329 and test with appliance
Alternative	Ningbo Jiayin Electro Mechanical Technology Co., Ltd.	JYZ-3E* JYZ-3F*	AC 230V;50Hz; T120, Max operating Pressure:2.0Mpa	EN 60730-1 EN 60335-1 EN 60335-2-15	TUV R 50287196 and test with appliance
Flower Meter	DIGMESA AG	974-9501-B	DC 5V	EN 60335-1 EN 60335-2-15	Test with appliance

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Material: e.g. external enclosure, PCB, closed-end connector, sleeves, cord anchorage etc

Comptsonen with winding: e.g. motor, transformer, magnetic coil etc.

Other components: e.g. switch, thermostat, heater, plug, internal wire, capacitor, relay, varistor etc.

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Alternative	Sanhua Aweco Appliance Systems GmbH	CFM	DC 5V	EN 60730-1 EN 60335-1 EN 60335-2-15	VDE 40026761 and test with appliance
Alternative	ODE (HK) Company Limited	AK66	DC 5V	EN 60335-1 EN 60335-2-15	Test with appliance
Thermal link	NEC SCHOTT Components Corporation	SF139R0	AC 250V, 15A, Tf142	EN 60691	VDE/ 40035880
Alternative	NEC SCHOTT Components Corporation	SF 139 E	AC 250V, 10A, Tf142	EN 60691	VDE/ 40006568
Alternative	Aupo Electronics Ltd.	BF142	AC 250V, 10A, Tf142	EN 60691	VDE/ 40005418
Alternative	Aupo Electronics Ltd.	BF 142X	AC 250V, 16A, Tf142	EN 60691	VDE/ 40005418
Alternative	Hollyland Company Limited	TH142	AC 250V, 10A, Tf142	EN 60691	VDE/ 40015969
Alternative	Shanghai Xinyuan Electronic Co.,Ltd.	RY142	AC 250V, 10A, Tf142	EN 60691	TUV R 50056552
Alternative	Shanghai Xinyuan Electronic Co.,Ltd.	RY141	AC 250V, 16A, Tf141	EN 60691	TUV R 50156808
Pump	CEME Spa	EP4	AC 230V, 48W, Class II, Class 155	EN 60335-2-41 EN 60335-2-15	VDE/ 40038656
Alternative	CEME Spa	EP4	AC 220V,50- 60Hz ,48W, Class II, Class 155	EN 60335-2-15 EN 60335-1	Test with appliance
Alternative	CEME Spa	EP4FM	AC 230V, 40W, Class II, Class 155	EN 60335-2-41 EN 60335-2-15	VDE/ 40038656
Protector for pump	Foshan Ji Hui Electrical Appliance Co.,Ltd.	BW - ** S	AC250V, T150, Tf120	EN 60730-2-2 EN 60730-1	VDE*/ 40019595
Alternative	Jiangsu Changsheng Electric Appliance Co., Ltd.	BR-B5D***	AC250V, T150, Tf120	EN 60730-2-2 EN 60730-1	VDE*/ 40015984
Wire connector	Heavy Power Co., Ltd.	CE2/ CE5	300V 150°C	EN60335-1 EN60335-2-15	UL(E113650)Test with appliance

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Comptsonen with winding: e.g. motor, transformer, magnetic coil etc.

Other components: e.g. switch, thermostat, heater, plug, internal wire, capacitor, relay, varistor etc.

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
NTC	Shenzhen AMPRON Sensitive Components Co.,Ltd.	----	100kΩ (25°C)	EN60335-1 EN60335-2-15	Test with appliance
Alternative	ZiGong YiNuo Technology Co.,Ltd.	----	100kΩ (25°C)	EN60335-1 EN60335-2-15	Test with appliance
Alternative	Ningbo Sanhui sensor Co. Ltd.	----	100kΩ (25°C)	EN60335-1 EN60335-2-15	Test with appliance
Alternative	SHENZHEN KUKI ELECT.CO.,LTD	----	100kΩ (25°C)	EN60335-1 EN60335-2-15	Test with appliance
Alternative	Shenzhen Minjie Electrical Technology CO.,LTD	----	100kΩ (25°C)	EN60335-1 EN60335-2-15	Test with appliance
Insulation of thermal link, Internal wire	JIANGYIN HUAQIANG RUBBERS & PLASTICS Co.,Ltd.	SRG-514	300V, 200°C	EN60335-1 EN60335-2-15	UL(E231589)Test with appliance
Alternative	SHENZHEN WAHCHANGWEI INDUSTRIAL Co.,Ltd.	SGS-40	300V, 200°C	EN60335-1 EN60335-2-15	UL(E233804)Test with appliance
Heat shrinkage tube	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL Co.,Ltd.	RSFR-H	600V, 125°C	EN60335-1 EN60335-2-15	UL (E203950) Test with appliance
Alternative	DONGGUAN SALIPT Co.,Ltd.	SALIPT S-901-600	600V, 125°C	EN60335-1 EN60335-2-15	UL (E209436) Test with appliance
Sealing rings	TAI XIN MOULD (KUNSHAN) Co.,Ltd.	Silicon	Min. thickness 1,0mm	EN60335-1 EN60335-2-15	Test with appliance
Alternative	SHENZHEN CANWIN TECHNOLOGY Co.,Ltd.	Silicon	Min. thickness 1,0mm	EN60335-1 EN60335-2-15	Test with appliance

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Comptsonen with winding: e.g. motor, transformer, magnetic coil etc.

Other components: e.g. switch, thermostat, heater, plug, internal wire, capacitor, relay, varistor etc.

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Alternative	Cixi hengrui Sujiao Zhipin Chang	Silicon	Min. thickness 1,0mm	EN60335-1 EN60335-2-15	Test with appliance
Alternative	Cixi City Xinkai Hardware Fittings Factory	Silicon	Min. thickness 1,0mm	EN60335-1 EN60335-2-15	Test with appliance
Water inlet tube	YUYAO YOUCHUANG RUBBER & PLASTIC Co.,Ltd.	Silicon	Min. thickness 1,0mm	EN60335-1 EN60335-2-15	Test with appliance
Alternative	Cixi hengrui Sujiao Zhipin Chang	Silicon	Min. thickness 1,0mm	EN60335-1 EN60335-2-15	Test with appliance
Water outlet tube	FLUO- TECH INDUSTRIAL (HUIZHOU) Co.,Ltd.	TPFE	Ø4,0mm, Min. thickness 0.5mm	E EN60335-1 EN60335-2-15	Test with appliance
Alternative	Jiangyin huanyu rub ber and plastic co., L TD	TPFE	Ø4,0mm, Min. thickness 0.5mm	EN60335-1 EN60335-2-15	Test with appliance
Alternative	Wujiang Sanlian Shengfeng Electronic Materials Co.,Ltd.	TPFE	Ø4,0mm, Min. thickness 0.5mm	EN60335-1 EN60335-2-15	Test with appliance
Heating element For coffee	Ningbo AAA Group Electric Appliance Co.,Ltd.	C232	220-240V, 1150W	EN60335-1 EN60335-2-15	Test with appliance
Pressure-relief valve	Ningbo AAA Group Electric Appliance Co., Ltd.	C201-2	Min. thickness 1,5mm. Operated pressure: 1,7-2,1 Mpa.	EN 60335-1 EN 60335-2-15	Test with appliance
Alternative	CEME Spa	S3	Min. thickness 1,5mm. Operated pressure: 1,7-2,1 Mpa.	EN60335-1 EN60335-2-15	Test with appliance
Boiler stander / brewing bracket / PCB cover / Button bracket / PCB box	Dupont Trading (Shanghai) Co., Ltd.	PA+30%GF	Min. thickness 1.5mm	EN60335-1 EN60335-2-15	Test with appliance

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Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Alternative	Nanjing Lihua Engineering Plastic CO., Ltd	PA+30%GF	Min. thickness: 1,5 mm	EN60335-1 EN60335-2-15	Test with appliance
Alternative	BASF (China) Co., Ltd.	PA+30%GF	Min. thickness: 1,5 mm	EN60335-1 EN60335-2-15	Test with appliance
Water tank	INEOS GROUP HOLDINGS	SMMA	Min. thickness 2,0mm. LFGB	EN60335-1 EN60335-2-15	Test with appliance
Water tank cover	Shanghai Jinshan petrochemical ()	PP	Min. thickness 1,0mm. LFGB	EN60335-1 EN60335-2-15	Test with appliance
Enclosure / drip tray/ capsule box	Chi Mei Corporation Kotec Corp. (Ningbo AAA Group Electric Appliance Co., Ltd.)	ABS	Min. thickness 2.0mm.	EN60335-1 EN60335-2-15	Test with appliance
Button panel	Chi Mei Corporation Kotec Corp. (Ningbo AAA Group Electric Appliance Co., Ltd.)	ABS	Min. thickness 2.0mm. Color: black	EN60335-1 EN60335-2-15	Test with appliance
PCB Material	KINGBOARD LAMINATES Holdings LTD.	KB-6160 KB-6160A KB-6164F KB-616(X)	FR-4 T=1.6mm or 1.2mm 94V-0	EN60335-1 EN60335-2-15	UL (E123995) Test with appliance
Alternative	GOLDENMAX INTERNATIONAL TECHNOLOGY (ZHUHAI) LTD	ILM-R1	FR-4; T=1.6mm or T=1.2mm; 94V-0	EN60335-1 EN60335-2-15	UL (E330731) Test with appliance
Alternative	FOSHAN XINKEYUAN ELECTRONIC CO LTD	XKY-2	FR-4; T=1.6mm or T=1.2mm; 94V-0	EN60335-1 EN60335-2-15	UL (E477680) Test with appliance
Alternative	DONGGUAN HUATUO ELECTRONIC CO LTD	AF-003	FR-4 1.6mm or 1.2mm 94V-0	EN60335-1 EN60335-2-15	UL (E347659) Test with appliance
Alternative	GOLDENMAX INTERNATIONAL TECHNOLOGY LTD.	GDM-R1	FR-4.0 T=1.4mm 94V-0	EN60335-1 EN60335-2-15	UL (E224772) Test with appliance

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Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Fuse	1. XC Electronics(Shen Zhen) Corp.Ltd.	3T-Serie(s)	AC250V; 5A	EN 60127	VDE 40019614
Alternative	2. Dongguan Better Electronic Technology Co.,Ltd	332	AC250V; 5A	EN 60127	TUV 50158950
Alternative	3.Shenzhen Lanson Electronics Co.Ltd.	3KT5A250V	AC250V; 5A	EN 60127	VDE 40010682
Alternative	XC Electronics(Shen Zhen) Corp.Ltd.	5TE	T3.15A 250V	EN 60127	VDE 40029550
Alternative	DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932	T3.15A 250V	EN 60127	VDE 40033369
X2 Capacitor	Guangdong Fengming Electronic Tech. Co., Ltd.	MKP-X2	0.22uF/0.33uF; 275VAC; 40/105/21	EN 60384-14	VDE 40025702
Alternative	Foshan Shunde Chuang Ge Electronic Industrial Co., Ltd.	MKP-X2	0.22uF/0.33uF; 275VAC; 40/105/21	EN 60384-14	VDE 40008922
Alternative	Shantou City Youying Electronic Technology Co., Ltd.	MKP	0.22uF/0.33uF; 275VAC; 310VAC 40/100/56/B	EN 60384-14	VDE 40041469
Varistor	Thinking Electronic Industrial Co.,Ltd.	TVR 10471	AC50-465V 40/85/56	IEC 61051	VDE 5944
Alternative	Fenghua Adv. Tech. (Holding) Co., Ltd.	FNR-10K471	AC 50V-550V 40/085/56	IEC 61051	VDE 40008242
Alternative	Guangxi New Future Information Industry Co.Ltd.	NFC 10D471K	AC 50-420V 40/85/21	IEC 61051	VDE 40030322
Alternative	Dongguan QinHong Electrical Technology Co. Ltd.	QNR 10D471	AC 50V-550V 40/085/56	IEC 61051	VDE 40049044

“*” mean this component was tested with appliance