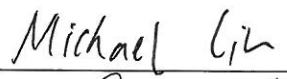





<p>TEST REPORT IEC 60335-2-9 Safety of household and similar electrical appliances Part 2: Particular requirements for grills, toasters and similar cooking appliances</p>	
Report Number	EFSH15030095-IE-01-L01-A3
Date of issue	2015-03-16, Amendment 3: 2017-08-18
Total number of pages	10 pages
Applicant's name	Cixi Tianma Electrical Appliance Co., Ltd.
Address	No. 483 Zhenxi Road, Zhouxiang Town, Cixi City, Ningbo, 315324, P.R.C
Test specification:	
Standard	<input checked="" type="checkbox"/> EN 60335-2-9: 2003 + A1: 2004 + A2: 2006 + A12: 2007 + A13: 2010 <input checked="" type="checkbox"/> EN 60335-1: 2012 + A11: 2014 <input checked="" type="checkbox"/> EN 62233: 2008
Test procedure	GS + CE-LVD
Non-standard test method	N/A
Test Report Form No.	IEC60335_2_9H
Test Report Form(s) Originator	LCIE
Master TRF	Dated 2012-10
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Test item description	Toaster
Trade Mark	--
Manufacturer.....	Cixi Tianma Electrical Appliance Co., Ltd.
Model/Type reference	TM-2001, TM-2001J, TM-2001F, TM-2001FJ, TM-2001T, TM-2001JT, TM-2001FT, TM-2001FJT, TM-2005, TM-2005J, TM-2005F, TM-2005FJ, TM-2005T, TM-2005JT, TM-2005FT, TM-2005FJT, TM-2006, TM-2006J, TM-2006F, TM-2006FJ, TM-2006T, TM-2006JT, TM-2006FT, TM-2006FJT, TM-2009F, TM-2009FJ, TM-2015T, TM-2016T, TM-2019, TM-2019T, TM-2019TJ, TM-2020, TM-2020T, TM-2020TJ
Ratings	220-240V~, 50/60Hz, Class I for all models TM-2001, TM-2001J, TM-2001F, TM-2001FJ, TM-2001T, TM-2001JT, TM-2001FT, TM-2001FJT: 600-700W, TM-2005, TM-2005J, TM-2005F, TM-2005FJ, TM-2005T, TM-2005JT, TM-2005FT, TM-2005FJT, TM-2006, TM-2006J, TM-2006F, TM-2006FJ, TM-2006T, TM-2006JT, TM-2006FT, TM-2006FJT: 700-800W; TM-2009F, TM-2009FJ: 1100-1300W; TM-2015T, TM-2019, TM-2019T, TM-2019TJ, TM-2020, TM-2020T, TM-2020TJ: 650-750W; TM-2016T: 1280-1480W

Testing procedure and testing location:		
<input checked="" type="checkbox"/>	Testing Laboratory:	Eurofins Product Testing Service (Shanghai) Co., Ltd.
Testing location/ address.....:		No. 395 West Jiangchang Road, Jing'an District, Shanghai, China
<input type="checkbox"/>	Associated CB Laboratory:	N/A
Testing location/ address.....:		N/A
Tested by (name + signature).....:		Michael Liu (Project Engineer) 
Approved by (name + signature):		Sean Shi (Project Supervisor) 
<input type="checkbox"/>	Testing procedure: TMP	
Testing location/ address.....:		N/A
Tested by (name + signature).....:		N/A
Approved by (name + signature)..:		N/A
<input type="checkbox"/>	Testing procedure: WMT	
Testing location/ address.....:		N/A
Tested by (name + signature).....:		N/A
Witnessed by (name + signature):		N/A
Approved by (name + signature):		N/A
<input type="checkbox"/>	Testing procedure: SMT	
Testing location/ address.....:		N/A
Tested by (name + signature)....:		N/A
Approved by (name + signature):.		N/A
Supervised by (name + signature).....:		N/A
<input type="checkbox"/>	Testing procedure: RMT	
Testing location/ address.....:		N/A
Tested by (name + signature) :		N/A
Approved by (name + signature):		N/A
Supervised by (name + signature):		N/A

List of Attachments (including a total number of pages in each attachment):

None.

Summary of testing: From the result of our inspection and tests on the submitted samples, we conclude they comply with the requirements of the standards.**Tests performed (name of test and test clause):** Cl.11 Heating**Testing location:**

Eurofins Product Testing Service (Shanghai) Co., Ltd.

No. 395 West Jiangchang Road, Jing'an District, Shanghai, China

Summary of compliance with National Differences**List of countries addressed: European Group Differences, Germany and U.K.**

Copy of marking plate (representative, may differ with model No. and rated power input)

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Toaster

TM-2001

220-240V~, 50/60Hz, 600-700W, Class I



Cixi Tianma Electrical Appliance Co., Ltd.
No. 483 Zhenxi Road, Zhouxiang Town, Cixi City, Ningbo, 315324, P.R.
China

Imported by:

(Full Name of the EU importer)

(Full EU Address of the importer)

Series number: xxxx – xxxx

Test item particulars	
Classification of installation and use	Household indoor use only
Supply Connection	Type Y
Possible test case verdicts:	
- test case does not apply to the test object.....	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement.....	F (Fail)
Testing	
Date of receipt of test item	2017-08-17
Date (s) of performance of tests	2017-08-17 to 2017-08-18
General remarks:	
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator. The related applicable CTL/OSM decisions have been considered and the requirements found fulfilled. Determination of the test result includes consideration of measurement uncertainty from the test equipment and methods. For GS approval, EK1 601-15e Rev1, EK1 AG2 Rev 9, EK1 222-04 and EK1 527-12 Rev2 were considered.</p>	
Manufacturer's Declaration per sub-clause 6.2.5 of IEC60335-2-9H:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)	Same as the applicant

General product information:

The appliances covered by this report are toasters for household and indoor use only.

The detail differences are as below:

Model	Type of shelf	Type of PCB	Type of bread supportor
TM-2001	Movable type	Type A1	No bread supportor
TM-2001J			Type A
TM-2001F	Fixed type		No bread supportor
TM-2001FJ			Type A
TM-2001T	Movable type	Type B1	No bread supportor
TM-2001JT			Type A
TM-2001FT	Fixed type		No bread supportor
TM-2001FJT			Type A
TM-2005	Movable type	Type A2	No bread supportor
TM-2005J			Type A
TM-2005F	Fixed type		No bread supportor
TM-2005FJ			Type A
TM-2005T	Movable type	Type B2	No bread supportor
TM-2005JT			Type A
TM-2005FT	Fixed type		No bread supportor
TM-2005FJT			Type A
TM-2006	Movable type	Type A3	No bread supportor
TM-2006J			Type A
TM-2006F	Fixed type		No bread supportor
TM-2006FJ			Type A
TM-2006T	Movable type	Type B3	No bread supportor
TM-2006JT			Type A
TM-2006FT	Fixed type		No bread supportor
TM-2006FJT			Type A
TM-2009F	Fixed type	Type A1	No bread supportor
TM-2009FJ			Type B

After review, TM-2001FJ, TM-2001JT, TM-2005FJ, TM-2005JT, TM-2006FJ, TM-2006JT and TM-2009FJ were subjected to full tests and the most unfavourable data was recorded.

Amendment 1:

The original test report ref. No. EFSH15030095-IE-01-L01, dated 2015-03-16, was modified on 2016-08-29 to include the following changes and/or additions:

1. Update EK 1 decision to EK1 601-15e Rev1.
2. Two new models: TM-2015T and TM-2016T were added.
3. Compared with original model, TM-2015T and TM-2001T share similar construction except appearance and PCB with other models.
4. TM-2016T has different construction, appearance and PCB.

After review, Cl.8, Cl.10, Cl.11, Cl.13, Cl.15, Cl.16, Cl.19, Cl.20, Cl.21, Cl.22, Cl.23, Cl.29 and Cl.30 (Cl.30.1&Cl.30.2.4) were considered on TM-2016T. Cl.8, Cl.10, Cl.13, Cl.15, Cl.16, Cl.19.11, Cl.29 and Cl.30 (Cl.30.1&Cl.30.2.4) were considered on TM-2015T.

Amendment 2:

The original test report ref. No. EFSH15030095-IE-01-L01, dated 2015-03-16, ref. No. EFSH15030095-IE-01-L01-A1, dated 2016-08-29 was modified on 2017-07-28 to include the following changes and/or additions:

1. Six new models: TM-2019, TM-2019T, TM-2019TJ, TM-2020, TM-2020T and TM-2020TJ were added. The detail differences are as below:

Model	Type of Resistance	With/without bread supportor
TM-2019	Mechanical temperature sensing resistor	Without bread supportor
TM-2019T	Thermistor	Without bread supportor
TM-2019TJ		With bread supportor
TM-2020	Mechanical temperature sensing resistor	Without bread supportor
TM-2020T	Thermistor	Without bread supportor
TM-2020TJ		With bread supportor

2. Compared with original model, TM-2019 series and TM-2006 series share similar construction except appearance and PCB with other models. TM-2020 series and TM-2005 series share similar construction except appearance and PCB with other models.
3. Update the CDF file.

After review, Cl.8, Cl.10, Cl.11, Cl.13, Cl.15, Cl.16, Cl.19, Cl.20, Cl.21, Cl.22, Cl.23, Cl.24, Cl.29 and Cl.30 (Cl.30.1&Cl.30.2.4) were performed on both TM-2019 and TM-2020T as representative.

Amendment 3:

The original test report ref. No. EFSH15030095-IE-01-L01, dated 2015-03-16, ref. No. EFSH15030095-IE-01-L01-A1, dated 2016-08-29, ref. No. EFSH15030095-IE-01-L01-A2, dated 2017-07-28 was modified on 2017-08-18 to include the following changes and/or additions:

1. Retested the temperature rising of magnetic coil winding.

After review, Cl.11.8(winding measurement) was considered on TM-2019 and TM-2020T.

This report is only valid in conjunction with the original test report: EFSH15030095-IE-01-L01, EFSH15030095-IE-01-L01-A1 and EFSH15030095-IE-01-L01-A2.

IEC 60335-2-9			
Clause	Requirement - Test	Result - Remark	Verdict
11	HEATING		--
11.2	The appliance is held, placed or fixed in position as described	Away from the walls	P
11.3	Temperature rises, other than of windings, determined by thermocouples		N/A
	Temperature rises of windings determined by resistance method, unless		P
	the windings are non-uniform or it is difficult to make the necessary connections		N/A
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	(see appended table)	P
	If the temperature rise of a motor winding exceeds the value of table 3, or		N/A
	if there is doubt with regard to classification of insulation,		N/A
	tests of Annex C are carried out		N/A
	Sealing compound does not flow out		P
	Protective devices do not operate, except		P
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4		N/A
	For radiant grills, rotary grills and raclette grills, hotplates and cookers, temperature rise of the wall of the test corner not exceed 75 K (IEC 60335-2-9)		N/A
	When an appliance connector incorporates a thermostat, the temperature rise limit for the pins of the inlet does not apply (IEC 60335-2-9)		N/A
	The temperature rise limits of motors, transformers, components of electronic circuit and parts directly influenced by them may be exceeded when the appliance is operated at 1,15 times rated power input (IEC 60335-2-9)		N/A
	Cheese used in sandwich toasting attachments doesn't flow into places where it can give rise to a hazard, such as reducing clearances or creepage distances below the values specified in Clause 29 (IEC 60335-2-9).		N/A

IEC60335_2_9H ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

11.8	TABLE: Heating test, resistance method (TM-2019)					P
	Test voltage (V)				254,4	—
	Ambient, t ₁ (°C)				24,2	—
	Ambient, t ₂ (°C)				24,2	—
Temperature rise of winding		R ₁ (Ω)	R ₂ (Ω)	dT (K)	Max. dT (K)	Insulation class
Magnetic coil winding		69,4	86,6	64,2	90	120

11.8	TABLE: Heating test, resistance method (TM-2020T)					P
	Test voltage (V)				254,4	—
	Ambient, t ₁ (°C)				22,2	—
	Ambient, t ₂ (°C)				22,2	—
Temperature rise of winding		R ₁ (Ω)	R ₂ (Ω)	dT (K)	Max. dT (K)	Insulation class
Magnetic coil winding		70,1	91,8	83,4	90	120