

# Foshan Shunde Shinechef Electric Appliance Co., Ltd.

## TEST REPORT

### SCOPE OF WORK

EMC TESTING—REFER TO PAGE 2

### REPORT NUMBER

191029181GZU-001

### ISSUE DATE

18 November 2019

### [REVISED DATE]

[-----]

### PAGES

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### DOCUMENT CONTROL NUMBER

EN 55014:2017 (Without electronics)-a  
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## TEST REPORT

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Applicant Name & : Foshan Shunde Shinechef Electric Appliance Co., Ltd.  
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Manufacturing Site : Same as applicant  
Intertek Report No: 191029181GZU-001

### Test standards

EN 55014-1:2017  
EN 61000-3-2:2014  
EN 61000-3-3:2013  
EN 55014-2:2015

### Sample Description

Product : Multifunction Stand Mixer  
Model No. : SC-232W, SC-232WA, SC-232WB, SC-232WD, SC-205A, SC-205  
Electrical Rating : 220 – 240 V, 50 - 60 Hz, Class II;  
SC-232WA: 1000 W (Mixer), 300 W (Mincer)  
SC-232WB: 1000 W (Mixer), 1000 W (Blender)  
SC-232WD: 1000 W (Mixer), 1000 W (Blender), 300 W (Mincer)  
SC-232W, SC-205A, SC-205: 1000 W (Mixer)  
Serial No. : Not Labeled  
Date Received : 1 November 2019  
Date Test : 1 November 2019 - 13 November 2019  
Conducted

Prepared and Checked By

Approved By:



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Intertek Guangzhou



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## TEST REPORT

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## TEST REPORT

### 1. TEST RESULTS SUMMARY

Test Item	Standard	Result
Continuous conducted disturbance voltage	EN 55014-1:2017	Pass
Conducted Disturbance at wired network ports	EN 55014-1:2017	N/A
Discontinuous conducted disturbance voltage	EN 55014-1:2017	N/A
Radiated disturbance(9kHz-30MHz)	EN 55014-1:2017	N/A
Radiated disturbance power	EN 55014-1:2017	Pass
Radiated disturbance(30MHz-1000MHz)	EN 55014-1:2017	N/A
Harmonic of current	EN 61000-3-2:2014	Pass
Flicker	EN 61000-3-3:2013	Pass
ESD immunity	EN 55014-2: 2015 Reference: EN 61000-4-2:2009	N/A
Radiated EM field immunity	EN 55014-2:2015 Reference: EN 61000-4-3:2006 +A1:2008+A2:2010	N/A
EFT immunity	EN 55014-2:2015 Reference: EN 61000-4-4:2012	N/A
Surge immunity	EN 55014-2:2015 Reference: EN 61000-4-5:2014	N/A
Inject current immunity	EN 55014-2:2015 Reference: EN 61000-4-6:2014	N/A
Voltage dips and interruption immunity	EN 55014-2:2015 Reference: EN 61000-4-11: 2004	N/A

**Remark:**

1. The symbol "N/A" in above table means Not Applicable.
2. When determining the test results, measurement uncertainty of tests has been considered.

## TEST REPORT

### 2. EMC RESULTS CONCLUSION



RE: EMC Testing Pursuant to EMC Directive 2014/30/EU Performed on the Multifunction Stand Mixer,  
Models: SC-232W, SC-232WA, SC-232WB, SC-232WD, SC-205A, SC-205.

#### Model list:

All models are identical except for different appearance, functions, accessory and metal bowl, detail see below table:

Model name	Mixer function	Blender function	Mincer function	Metal bowl
<b>SC-232WD</b> 	Y	Y	Y	
<b>SC-232WA</b> 	Y	--	Y	
<b>SC-232WB</b> 	Y	Y	--	
<b>SC-232W</b> 	Y	--	--	
<b>SC-205A</b> 	Y	--	--	

## TEST REPORT

SC-205 	Y	--	--	
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Based on engineering judgement, full tests shall be performed on model SC-232WD.

We tested the Multifunction Stand Mixer, Model: SC-232WD, to determine if it was in compliance with the relevant EN standards as marked on the Test Results Summary. We found that the unit met the requirements of EN 55014-1, EN 61000-3-2, EN 61000-3-3 standards when tested as received. The worst case's test data was presented in this test report.

The production units are required to conform to the initial sample as received when the units are placed on the market.

Standards against which no testing has been conducted of the captioned model and the engineering judgement is stated as follows:

EN55014-2: This product contains no electronic control circuitry. It is classified to Category I of the standard and is therefore deemed to fulfil the relevant immunity requirements without testing.

## TEST REPORT

### 3. LABORATORY MEASUREMENTS

#### Configuration Information

Support Equipment:	N/A
Rated Voltage and frequency under test:	230 V~; 50 Hz
Condition of Environment:	Temperature: 22~28°C Relative Humidity:35~60% Atmosphere Pressure:86~106kPa

#### Notes:

1. The EMI measurements had been made in the operating mode produced the largest emission in the frequency band being investigated consistent with normal applications. An attempt had been made to maximize the emission by varying the configuration of the EUT.

#### 2. Test Location:

All tests were performed at:

Foshan shunde guoce testing technology Co.,LTD.

Add:No.3 East Desheng Road, Shunde Daliang, Foshan, Guangdong, China

## TEST REPORT

### 4. EQUIPMENT USED DURING TEST

#### For Conducted Disturbance Test

NO.	Model No.	Manufacturer	Equipment	Serial No.	Cal. due date
201744CK0025	ESR3	Rohde & Schwarz	EMI receiver	102371	2019.12.26
201044CK0121	ESH2-Z5	Rohde & Schwarz	LISN	3385219.53-100298-HS	2020.07.31
1244BK0003SD	PLA-10N	Compliance Direction	10dB Pulse Limiter	110525-010-0030	2020.07.31
201044CK0128-1	NP-HJ2	Changzhou Nanping	shielding room	1#	2019.12.27

#### For Disturbance Power Test

NO.	Model No.	Manufacturer	Equipment	Serial No.	Cal. due date
201744CK0025	ESR3	Rohde & Schwarz	EMI receiver	102371	2019.12.26
201144CK0065	MDS-21	Rohde & Schwarz	Power absorbing Clamp	100443	2020.01.01
201044CK0128-1	NP-HJ2	Changzhou Nanping	shielding room	1#	2019.12.27

#### For Harmonic Test, For Flicker Test

NO.	Model No.	Manufacturer	Equipment	Serial No.	Cal. due date
201044CK0067	15003iX	California Instruments	Programmable ac source	59862/59863/59864	2020.08.01
201044CK0068	PACS-3	California Instruments	Harmonic and flicker analyzer	72812	2020.08.01



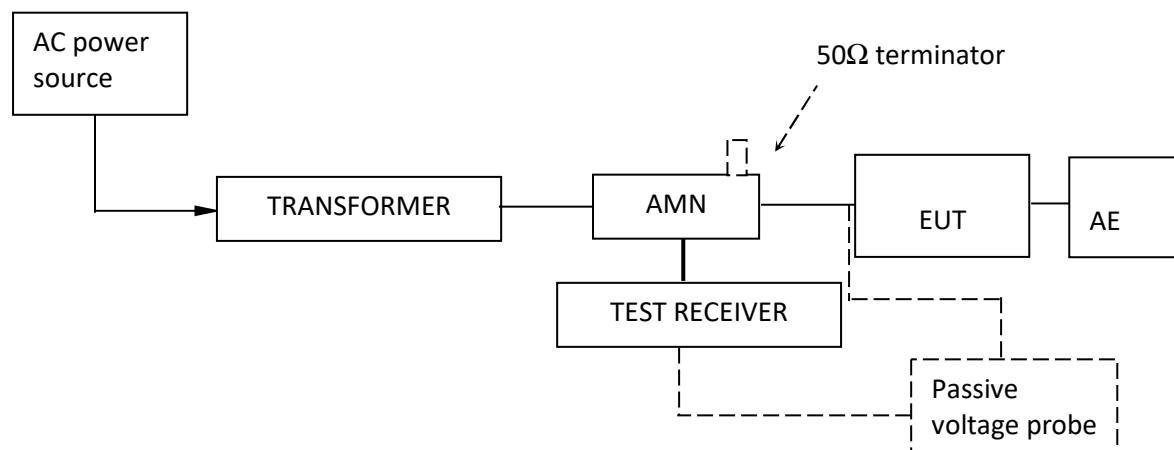
## TEST REPORT

### 5. EMI TEST

#### 5.1 EN 55014-1 Continuous Conducted Disturbance Voltage Test

**Test Result: Pass**

##### 5.1.1 Block Diagram of Test Setup



##### 5.1.2 Test Setup and Procedure

The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50Ω linear impedance. Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.4m high non-metallic table above earthed ground plane (Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.

When measurements of disturbance are being made, the appliance shall be operated under the conditions defined in Annex A.

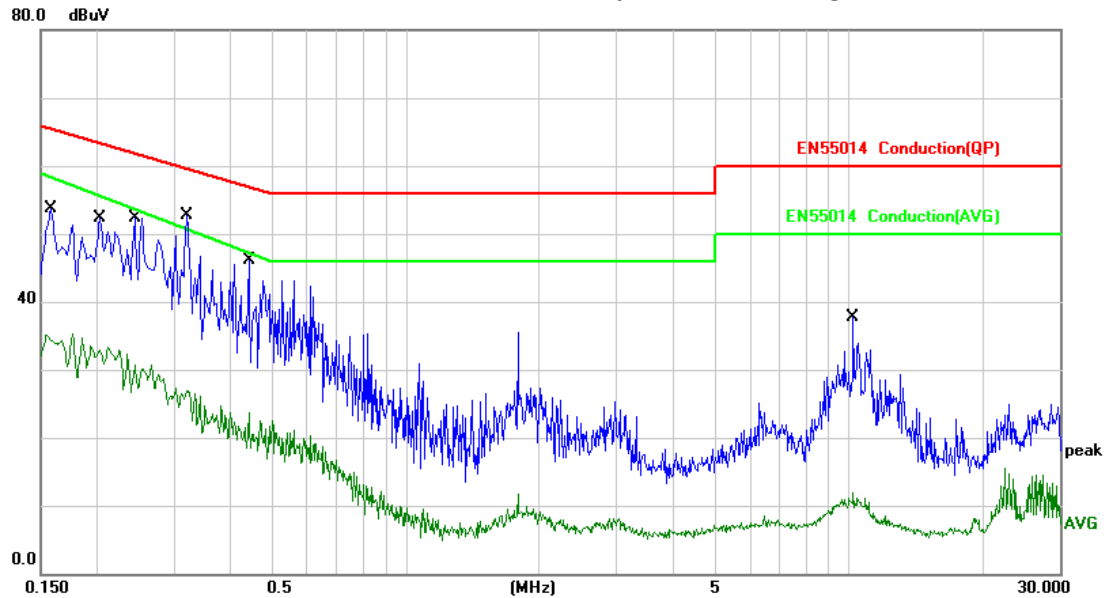
## TEST REPORT

### 5.1.3 Test Data and curve

At mains terminal:

Tested Wire: Live

Operation Mode: 6 gears



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1590	9.80	36.87	46.67	65.52	-18.85	QP	P
2	0.1590	9.80	23.25	33.05	58.37	-25.32	AVG	P
3	0.2040	9.83	34.90	44.73	63.45	-18.72	QP	P
4	0.2040	9.83	20.64	30.47	55.68	-25.21	AVG	P
5	0.2445	9.86	31.60	41.46	61.94	-20.48	QP	P
6	0.2445	9.86	17.68	27.54	53.72	-26.18	AVG	P
7	0.3209	9.91	27.93	37.84	59.68	-21.84	QP	P
8	0.3209	9.91	13.14	23.05	50.79	-27.74	AVG	P
9	0.4425	9.98	23.05	33.03	57.01	-23.98	QP	P
10	0.4425	9.98	8.47	18.45	47.32	-28.87	AVG	P
11	10.2435	10.29	10.36	20.65	60.00	-39.35	QP	P
12	10.2435	10.29	-1.51	8.78	50.00	-41.22	AVG	P

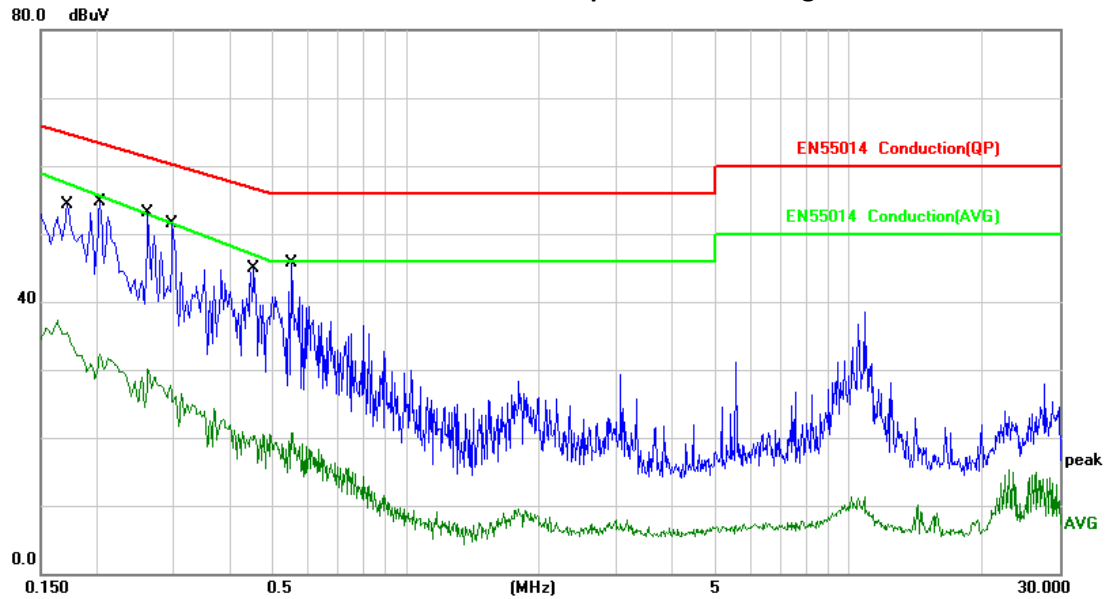
Remark:

1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. (dB) + Read Level (dBuV)
3. Delta Limit (dB) = Level (dBuV)-Limit (dBuV)

## TEST REPORT

Tested Wire: Neutral

Operation Mode: 6 gears



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1725	9.81	35.53	45.34	64.84	-19.50	QP	P
2	0.1725	9.81	21.36	31.17	57.49	-26.32	AVG	P
3	0.2040	9.83	32.62	42.45	63.45	-21.00	QP	P
4	0.2040	9.83	19.07	28.90	55.68	-26.78	AVG	P
5	0.2625	9.87	28.05	37.92	61.35	-23.43	QP	P
6	0.2625	9.87	16.06	25.93	52.96	-27.03	AVG	P
7	0.2985	9.90	26.85	36.75	60.28	-23.53	QP	P
8	0.2985	9.90	14.18	24.08	51.57	-27.49	AVG	P
9	0.4560	9.99	24.34	34.33	56.77	-22.44	QP	P
10	0.4560	9.99	8.42	18.41	46.99	-28.58	AVG	P
11	0.5550	10.03	21.58	31.61	56.00	-24.39	QP	P
12	0.5550	10.03	7.43	17.46	46.00	-28.54	AVG	P

At load/control terminal:

Not Applicable.

## TEST REPORT

### 5.2 EN 55014-1 Conducted Common Mode (Asymmetric Mode) Disturbance at wired network Ports

**Test Result: Not Applicable**

Remark: The test only applies to balanced unscreened ports intended for connection to unscreened balanced pairs.

### 5.3 EN 55014-1 Discontinuous Conducted Disturbance Voltage

**Test Result: Not Applicable.**

### 5.4 EN 55014-1 Radiated Disturbance (9 kHz-30 MHz)- Magnetic field induced current method

**Test Result: Not Applicable**

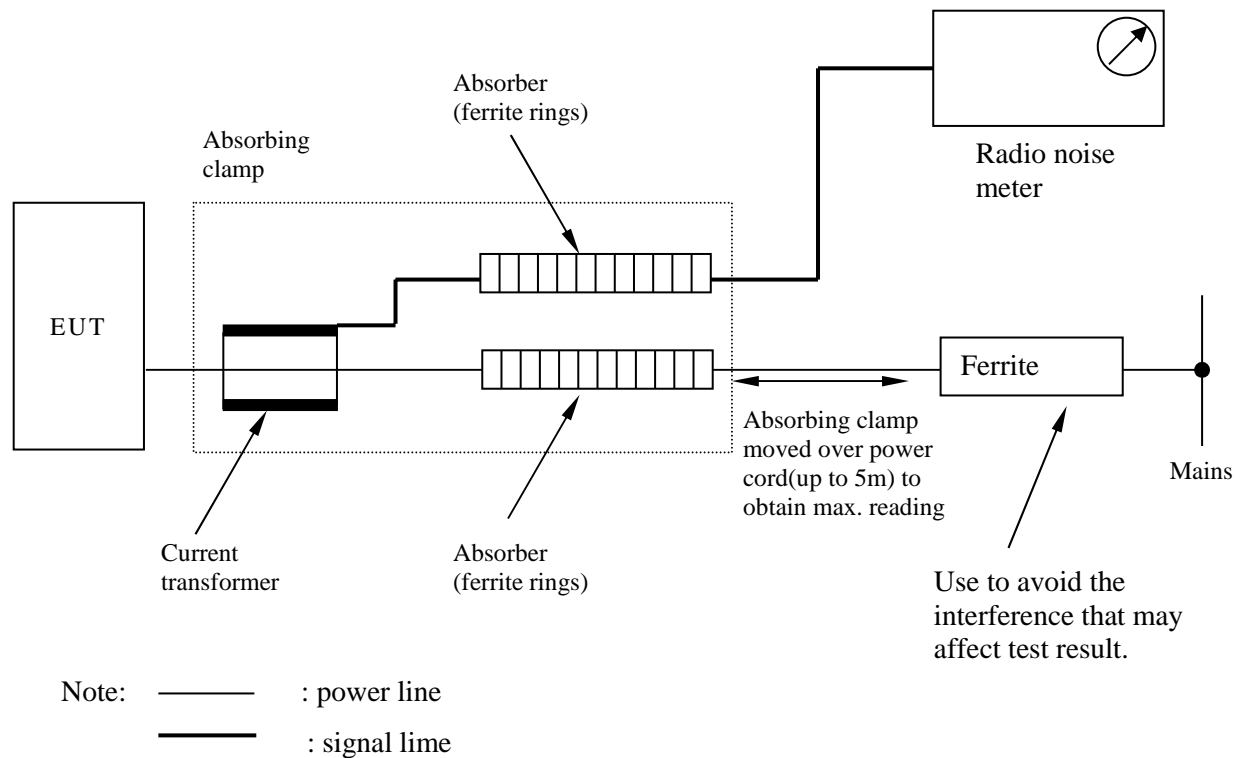
Remark: The test only applies to induction cooking appliances.

## TEST REPORT

### 5.5 EN 55014-1 Radiated Disturbance Power

**Test Result: Pass**

#### 5.5.1 Block Diagram of Test Setup



## TEST REPORT

### 5.5.2 Test Setup and Procedure

The disturbance power was measured with the EUT in a shielded room. The height of the table shall be  $0,1\text{ m} \pm 0,025\text{ m}$  for appliances primarily intended to be positioned on the floor in normal use, and  $0,8\text{ m} \pm 0,05\text{ m}$  for other appliances. The EUT was placed on a non-metallic table at least 0.8m from other metallic surface and the mains lead of EUT was extended to about 6m long. The auxiliary lead longer than 0.25m but shorter than twice length of absorbing clamp was extend to twice length of clamp and those longer than twice length was extend to 6 meters.

The absorbing clamp was moved along the lead to obtain maximum disturbance. The EUT was set to achieve the maximum emission level, and for each point which appears a relevant high emission level, the absorbing clamp was moved around the lead to get the maximum disturbance value.

The bandwidth of test receiver was set at 120 kHz. The frequency range from 30MHz to 300MHz was checked.

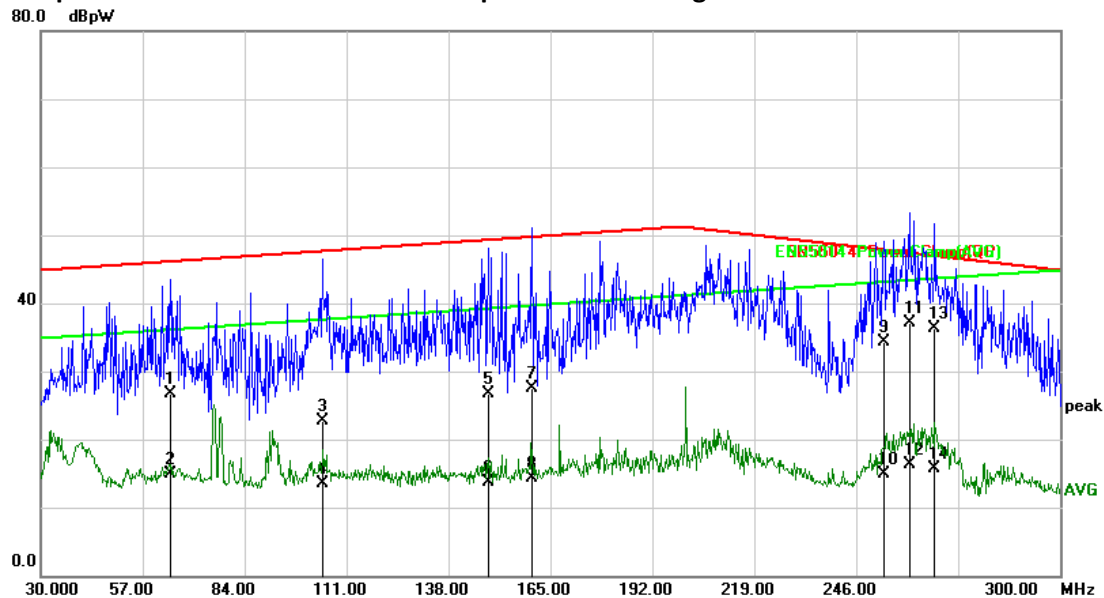
When measurements of disturbance are being made, the appliance shall be operated under the conditions defined in Annex A.

## TEST REPORT

### 5.5.3 Test Data and curve

Test port: Mains

Operation Mode: 3 gears



No.	Frequency (MHz)	Factor (dB)	Reading (dBpW)	Level (dBpW)	Limit (dBpW)	Margin (dB)	Detector	P/F
1	64.5000	7.29	19.51	26.80	46.28	-19.48	QP	P
2	64.5000	7.29	7.71	15.00	36.28	-21.28	AVG	P
3	104.7600	5.88	16.92	22.80	47.77	-24.97	QP	P
4	104.7600	5.88	7.72	13.60	37.77	-24.17	AVG	P
5	148.5600	5.90	20.90	26.80	49.39	-22.59	QP	P
6	148.5600	5.90	7.75	13.65	39.39	-25.74	AVG	P
7	160.2000	5.10	22.40	27.50	49.82	-22.32	QP	P
8	160.2000	5.10	9.30	14.40	39.82	-25.42	AVG	P
9	253.5000	4.64	29.66	34.30	47.93	-13.63	QP	P
10	253.5000	4.64	10.26	14.90	43.28	-28.38	AVG	P
11	260.2200	5.09	32.11	37.20	47.51	-10.31	QP	P
12	260.2200	5.09	11.21	16.30	43.53	-27.23	AVG	P
13	266.8200	4.90	31.50	36.40	47.09	-10.69	QP	P
14	266.8200	4.90	10.90	15.80	43.77	-27.97	AVG	P

The measurement quasi-peak data of disturbance power is lower than applicable limit reduced by the margin (0 to 10dB) at frequency range 200 to 300 MHz and the maximum clock frequency is less than 30MHz

## TEST REPORT

### 5.6 EN 55014-1 Radiated Disturbance(30MHz-1000MHz)

#### Test Result: Not Applicable

Remark:

☒ Radiated disturbance shall not be conducted, if the measurement quasi-peak data of disturbance power is lower than applicable limit reduced by the margin (0 to 10dB) at frequency range 200 to 300 MHz and the maximum clock frequency is less than 30MHz,.

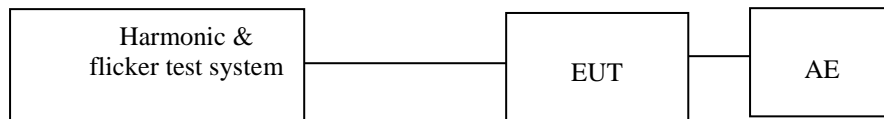


## TEST REPORT

### 6 Harmonics of current

**Test Result: Pass**

#### 6.1 Block Diagram of Test Setup



#### 6.2 Test Setup and Procedure

Harmonics of the fundamental current were measured up to 40 order harmonics using a digital power meter with an analogue output and frequency analyser which was integrated in the harmonic & flicker test system. The measurements were carried out under steady conditions.

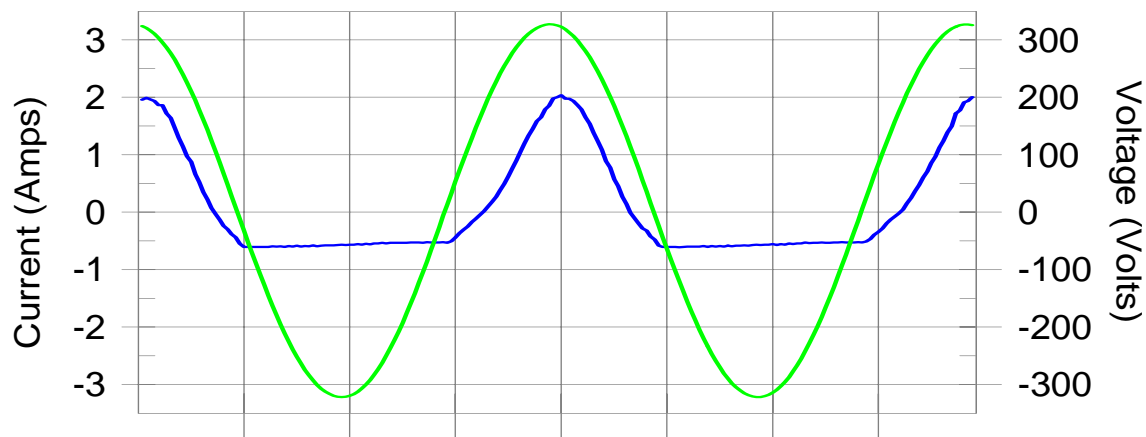
## TEST REPORT

### 6.3 Test Data

Harmonics – Class-A per Ed. 4.0 (incl. inter-harmonics)

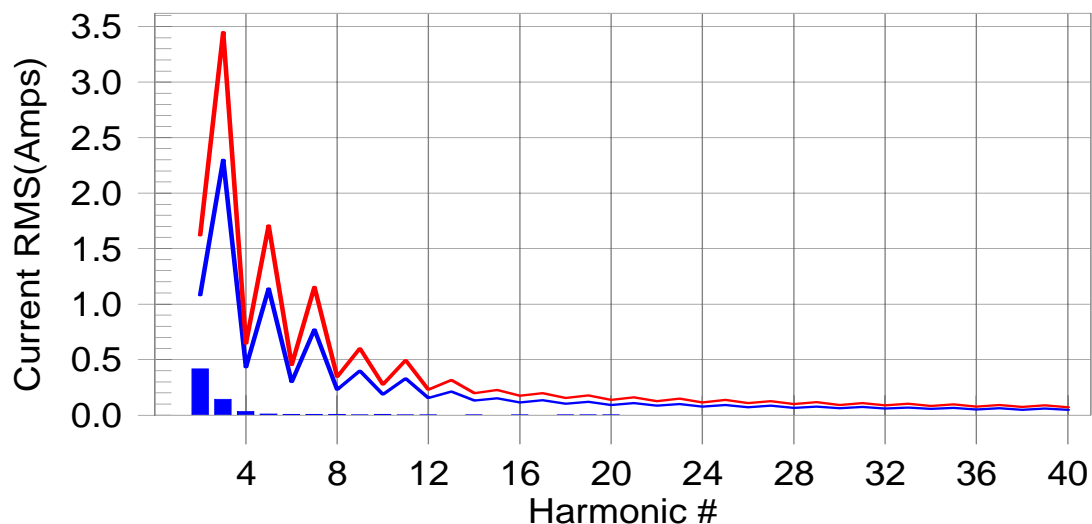
Test Result: Pass Source qualification: Normal

#### Current & voltage waveforms



#### Harmonics and Class A limit line

#### European Limits



Test result: Pass Worst harmonics H2-26.2% of 150% limit, H2-38.5% of 100% limit

## TEST REPORT

Test Result: Pass Source qualification: Normal  
THC(A): 0.441 I-THD(%): 58.5 POHC(A): 0.004 POHC Limit(A): 0.251

### Highest parameter values during test:

V_RMS (Volts):	229.65	Frequency(Hz):	50.00
I_Peak (Amps):	2.114	I_RMS (Amps):	0.884
I_Fund (Amps):	0.754	Crest Factor:	2.454
Power (Watts):	172.1	Power Factor:	0.854

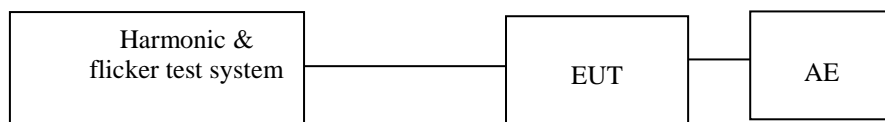
Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.416	1.080	38.5	0.424	1.620	26.2	Pass
3	0.144	2.300	6.2	0.147	3.450	4.3	Pass
4	0.033	0.430	7.6	0.036	0.645	5.5	Pass
5	0.009	1.140	0.8	0.010	1.710	0.6	Pass
6	0.008	0.300	2.6	0.009	0.450	2.0	Pass
7	0.006	0.770	0.8	0.007	1.155	0.6	Pass
8	0.007	0.230	3.1	0.007	0.345	2.1	Pass
9	0.004	0.400	N/A	0.007	0.600	N/A	Pass
10	0.006	0.184	3.2	0.008	0.276	2.9	Pass
11	0.003	0.330	N/A	0.003	0.495	N/A	Pass
12	0.004	0.153	N/A	0.005	0.230	N/A	Pass
13	0.002	0.210	N/A	0.003	0.315	N/A	Pass
14	0.003	0.131	N/A	0.004	0.197	N/A	Pass
15	0.002	0.150	N/A	0.002	0.225	N/A	Pass
16	0.002	0.115	N/A	0.002	0.173	N/A	Pass
17	0.002	0.132	N/A	0.002	0.198	N/A	Pass
18	0.003	0.102	N/A	0.003	0.153	N/A	Pass
19	0.003	0.118	N/A	0.003	0.178	N/A	Pass
20	0.003	0.092	N/A	0.003	0.138	N/A	Pass
21	0.002	0.107	N/A	0.002	0.161	N/A	Pass
22	0.002	0.084	N/A	0.002	0.125	N/A	Pass
23	0.001	0.098	N/A	0.002	0.147	N/A	Pass
24	0.001	0.077	N/A	0.002	0.115	N/A	Pass
25	0.001	0.090	N/A	0.002	0.135	N/A	Pass
26	0.001	0.071	N/A	0.001	0.107	N/A	Pass
27	0.001	0.083	N/A	0.002	0.125	N/A	Pass
28	0.001	0.066	N/A	0.002	0.099	N/A	Pass
29	0.001	0.078	N/A	0.001	0.116	N/A	Pass
30	0.001	0.061	N/A	0.001	0.092	N/A	Pass
31	0.001	0.073	N/A	0.001	0.109	N/A	Pass
32	0.001	0.058	N/A	0.001	0.086	N/A	Pass
33	0.001	0.068	N/A	0.001	0.102	N/A	Pass
34	0.001	0.054	N/A	0.001	0.081	N/A	Pass
35	0.001	0.064	N/A	0.001	0.096	N/A	Pass
36	0.001	0.051	N/A	0.001	0.077	N/A	Pass
37	0.001	0.061	N/A	0.001	0.091	N/A	Pass
38	0.001	0.048	N/A	0.002	0.073	N/A	Pass
39	0.001	0.058	N/A	0.002	0.087	N/A	Pass
40	0.001	0.046	N/A	0.001	0.069	N/A	Pass

## TEST REPORT

### 7 Flicker

**Test Result: Pass**

#### 7.1 Block Diagram of Test Setup



#### 7.2 Test Setup and Procedure

##### 7.2.1 Definition

Flicker:	impression of unsteadiness of visual sensation induced by a lighting stimulus whose luminance or spectral distribution fluctuates with time.
Pst:	Short-term flicker indicator The flicker severity evaluated over a short period (in minutes); Pst=1 is the conventional threshold of irritability
Plt:	long-term flicker indicator; the flicker severity evaluated over a long period (a few hours). Using successive Pst valuse.
dc:	the relative steady-state voltage change
dmax:	the maximum relative voltage change
d(t):	the value during a voltage change

##### 7.2.2 Test condition

The EUT was set to produce the most unfavourable sequence of voltage changes.

☒ This product is unlikely to produce significant voltage fluctuations and flicker by examination of the circuit diagram and specification of it. Therefore, it is deemed to fulfill the relevant standard without testing.

## TEST REPORT

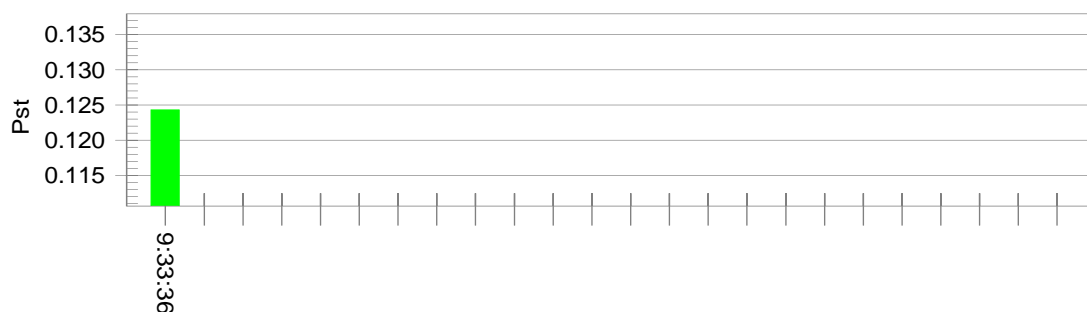
### 7.3 Test Data

Flicker Test Summary (Run time)

Test Result: Pass Status: Test Completed

Pst<sub>i</sub> and limit line

European Limits



Time is too short for Plt plot

Parameter values recorded during the test:

Parameter values recorded during the test:

Vrms at the end of test (Volt):229.63

T-max (mS):	0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.02	Test limit (%):	3.30	Pass
Highest dmax (%):	0.92	Test limit (%):	7.00	Pass

## TEST REPORT

### 8 APPENDIX I - PHOTOS OF TEST SETUP

Conducted Emission



Radiated Power



## TEST REPORT

Harmonics and Flicker





## TEST REPORT

### 9 APPENDIX II – PHOTOS OF EUT

Appearance of model SC-232WD:



Remark: The three functions can not be used at the same time. They are operated separately.

Appearance of model SC-232WD:





## TEST REPORT

Appearance of model SC-232WD:



Appearance of model SC-232WD:



## TEST REPORT

Appearance of model SC-232WD:



Appearance of model SC-232WD:

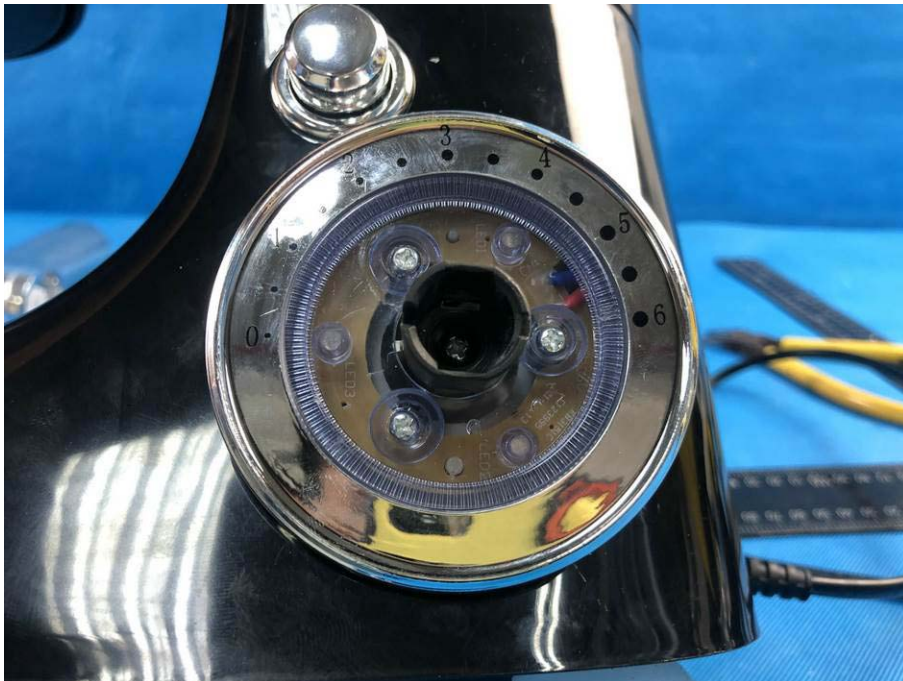


## TEST REPORT

Control panel:



Control panel:





## TEST REPORT

Control panel (inner):



Blender function:



## TEST REPORT

Blender cup:



Mincer function:

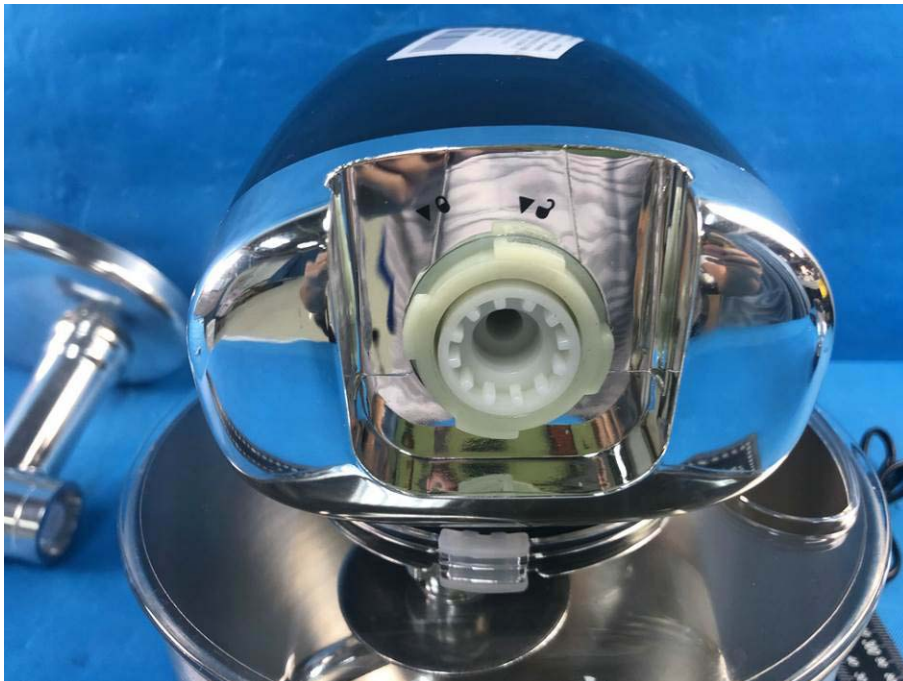


## TEST REPORT

Feed inlet:



Mincer function:





## TEST REPORT

Internal view:

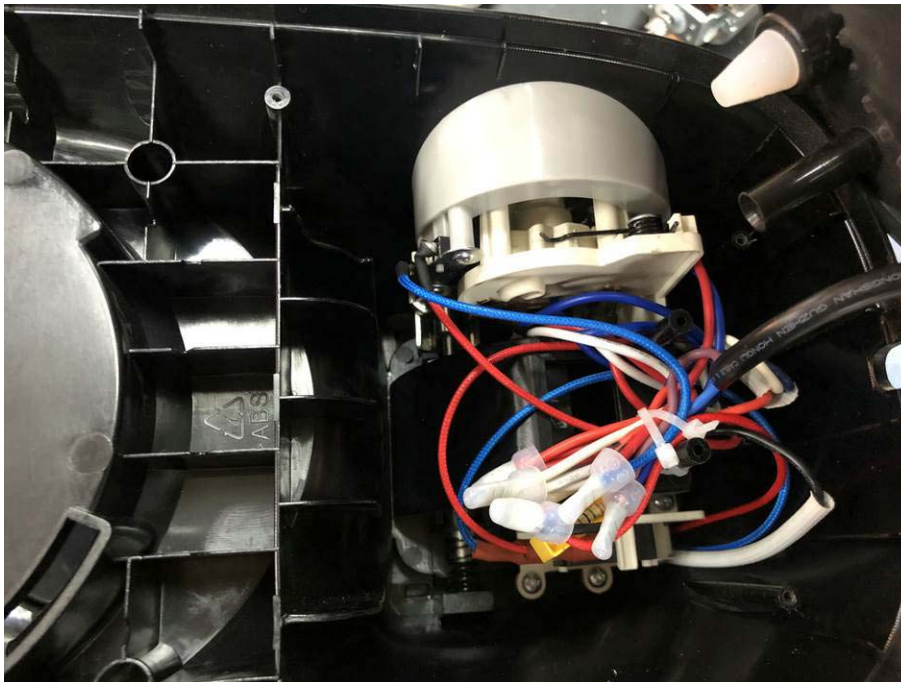


Internal view:

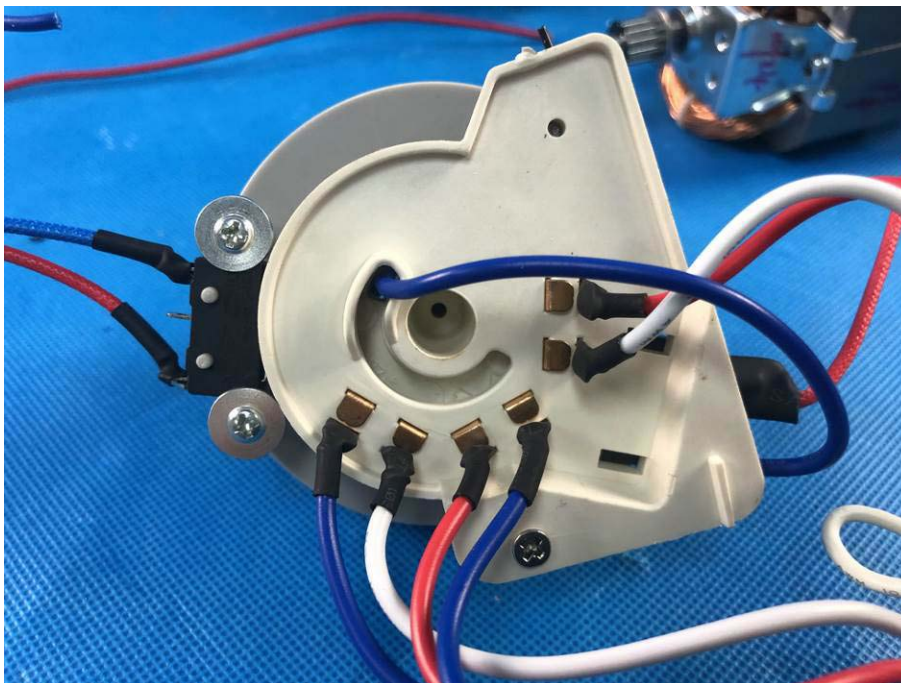


## TEST REPORT

Internal view:



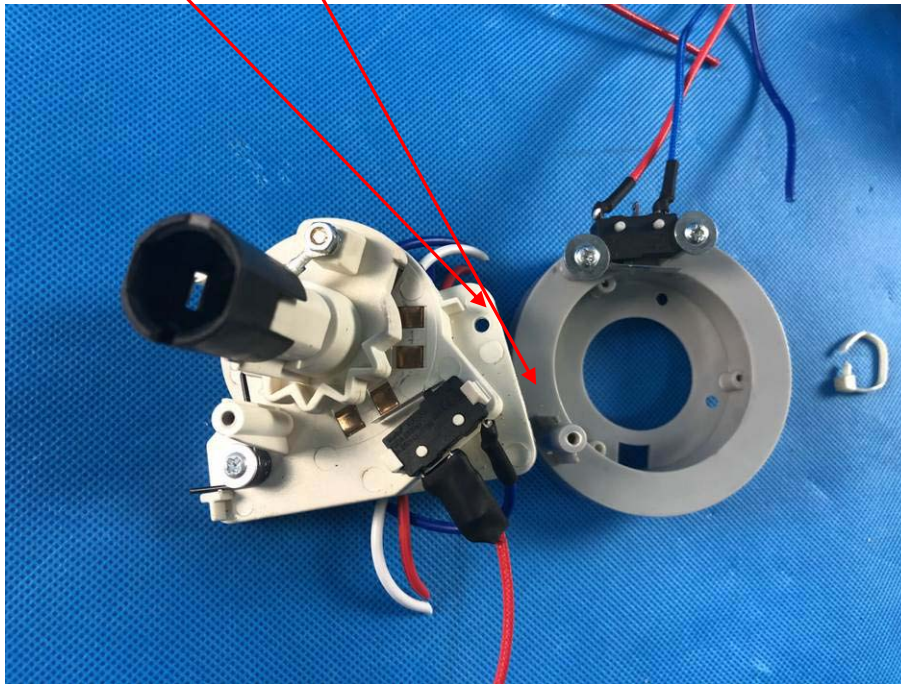
Internal view (speed switch):





## TEST REPORT

Internal view (speed switch, power switch):



Indicator PCB:

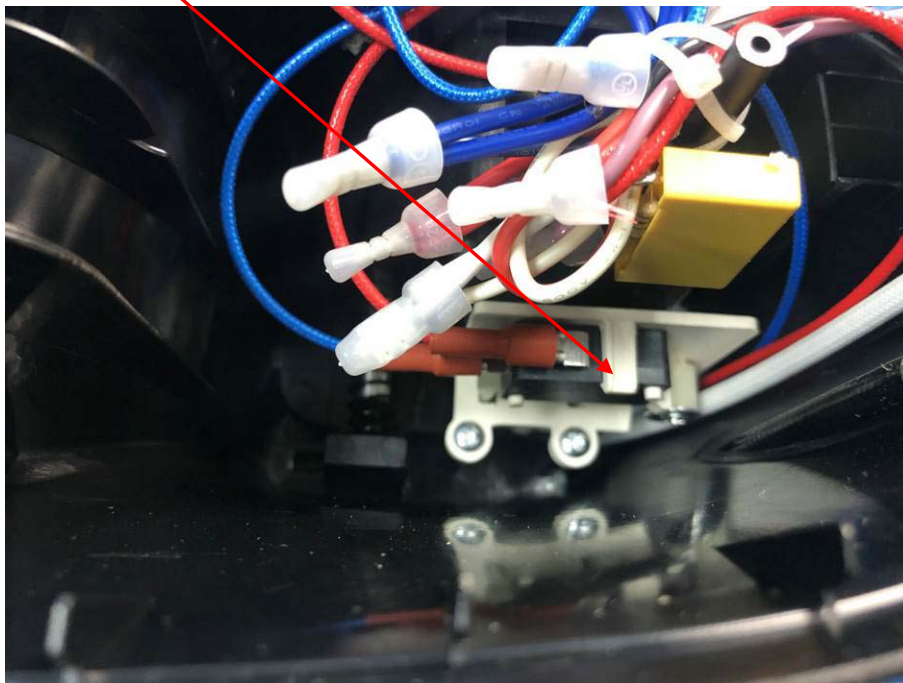


## TEST REPORT

Indicator PCB:



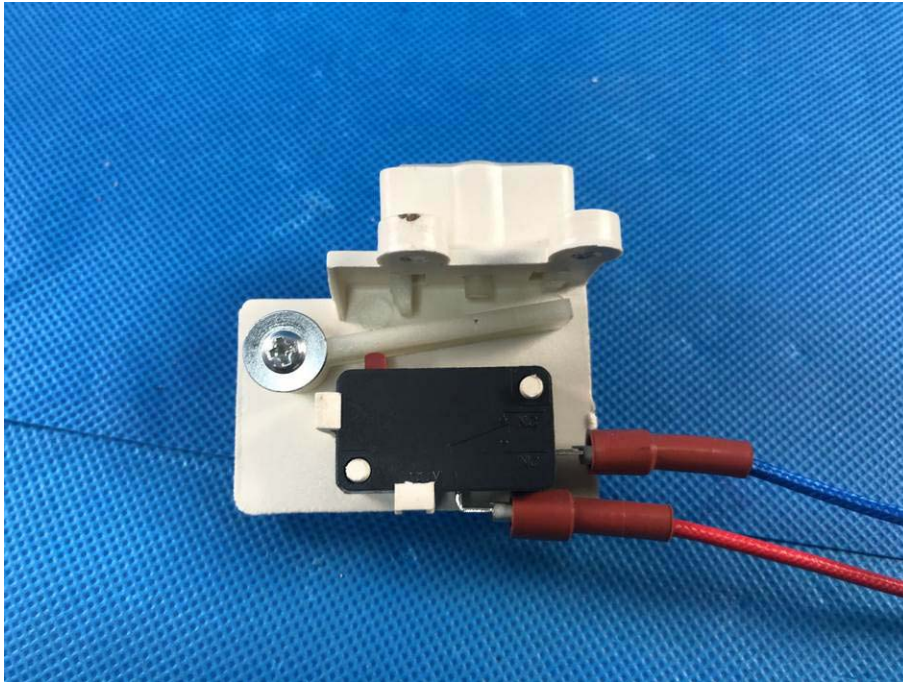
Internal view (Interlock switch):



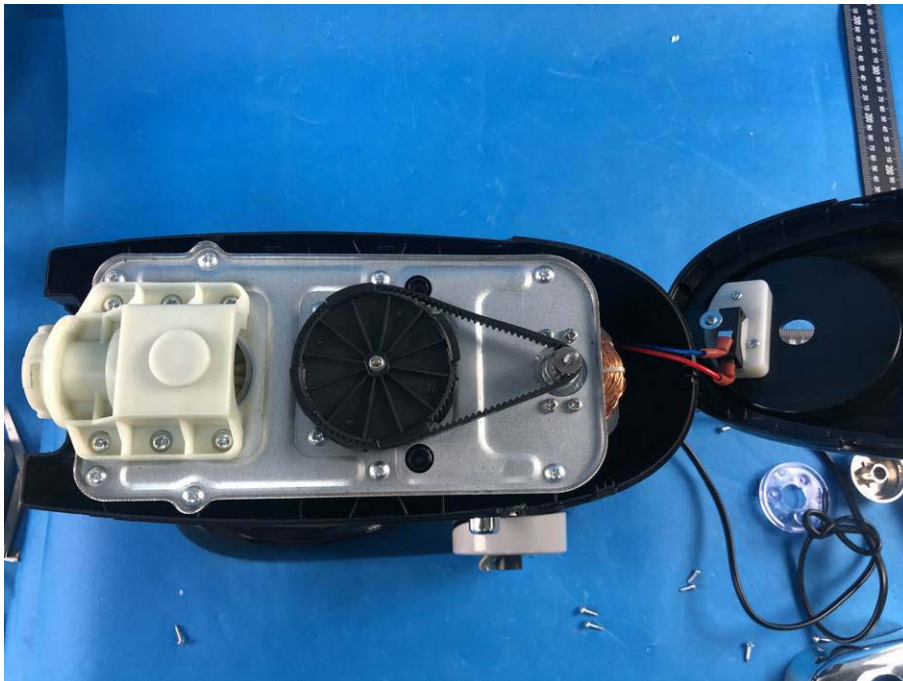


## TEST REPORT

Internal view (Interlock switch):



Internal view (interlock switch for blender):

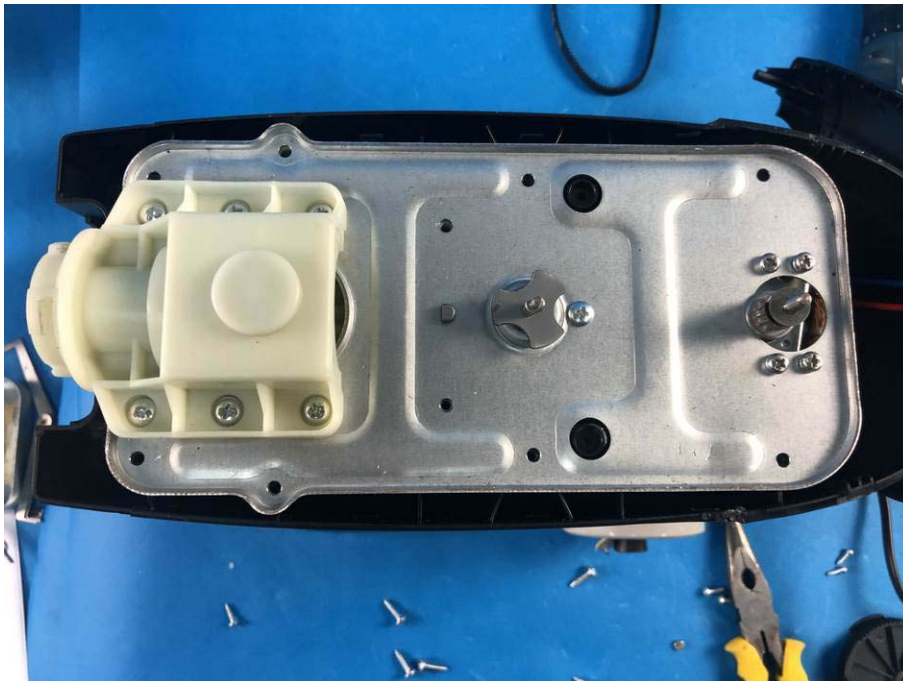


## TEST REPORT

Internal view (interlock switch for blender):



Internal view:



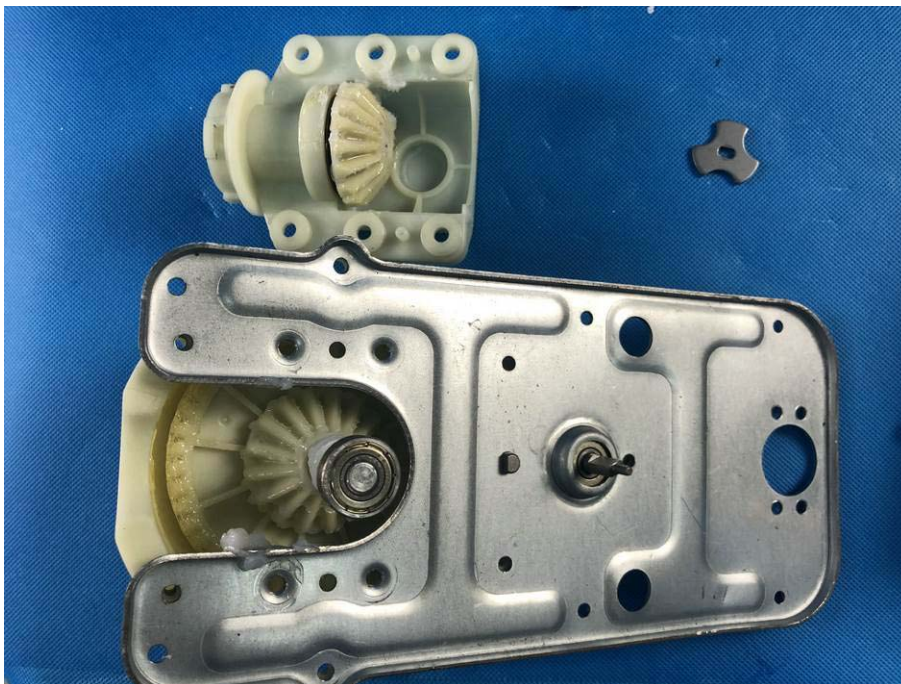


## TEST REPORT

Internal view (gear box):

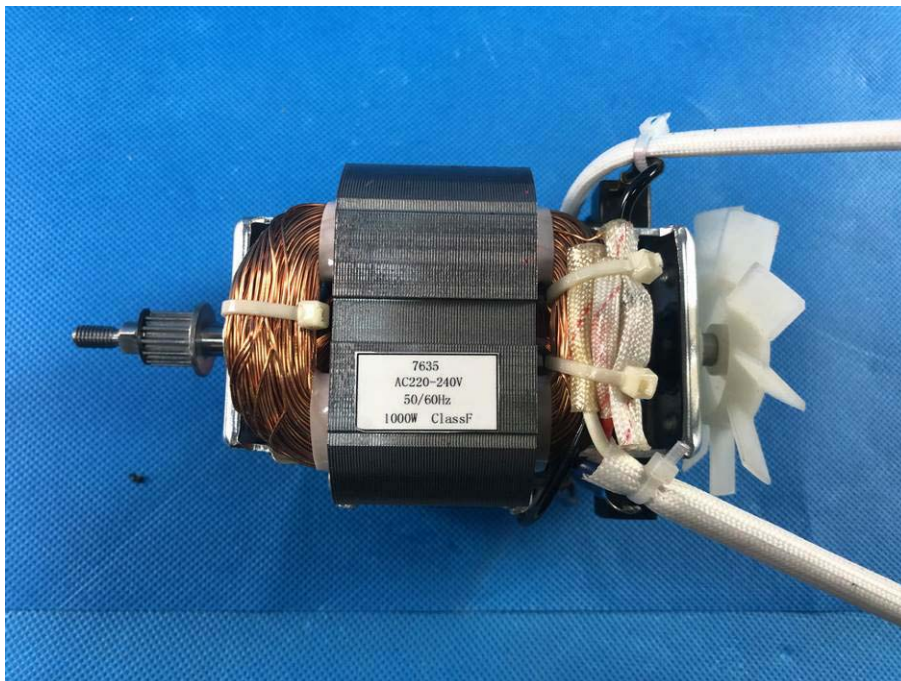


Internal view (gear box):

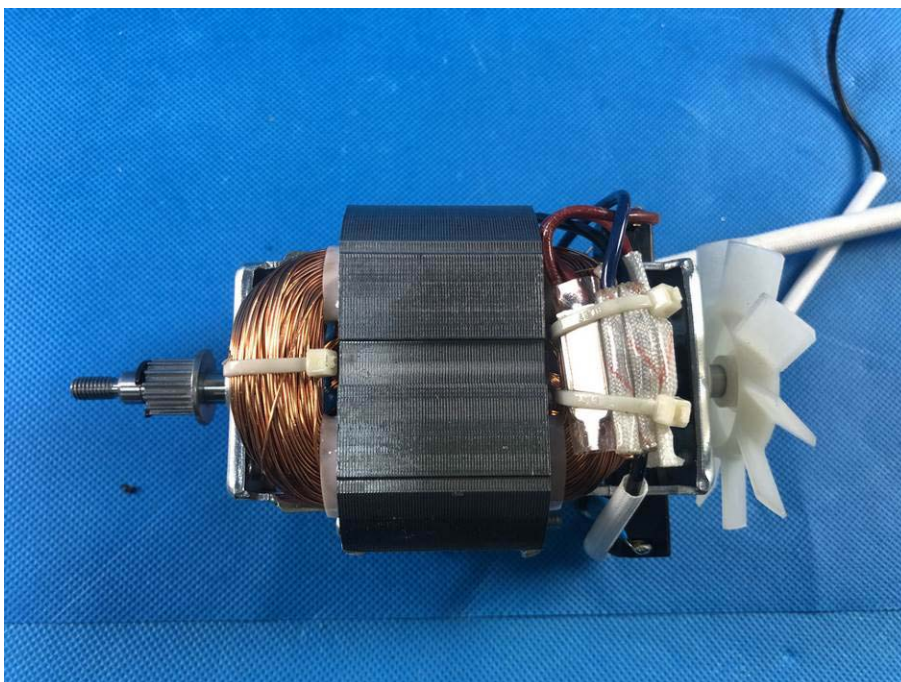


## TEST REPORT

Motor:



Motor (motor protector):





## TEST REPORT

Appearance of model SC-232W:



Appearance of model SC-32WA:



## TEST REPORT

Appearance of model SC-232B:



Appearance of model SC-205:



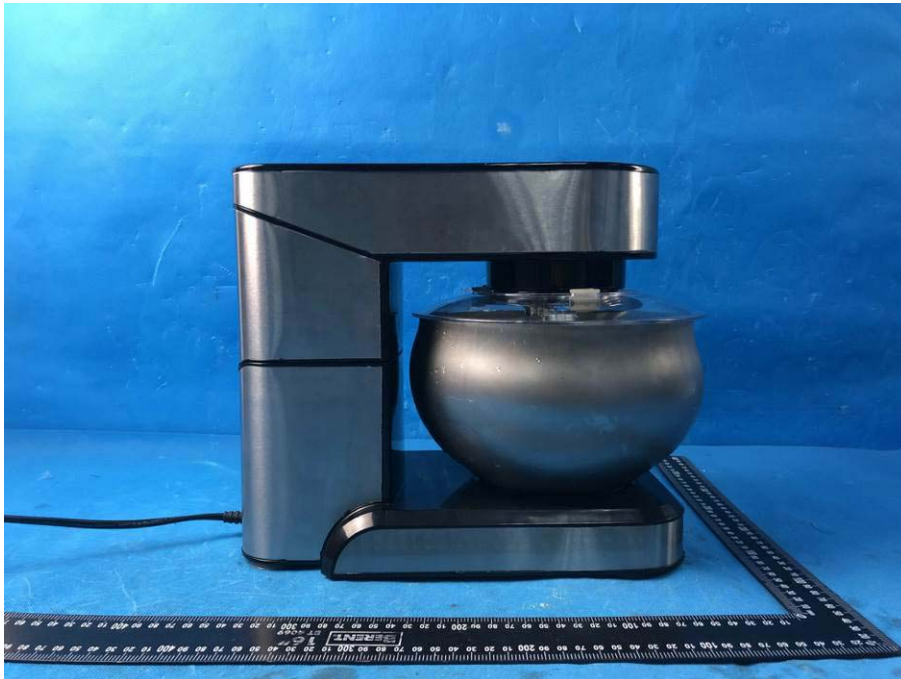


## TEST REPORT

Appearance of model SC-205:



Appearance of model SC-205:



## TEST REPORT

Appearance of model SC-205:



Appearance of model SC-205:

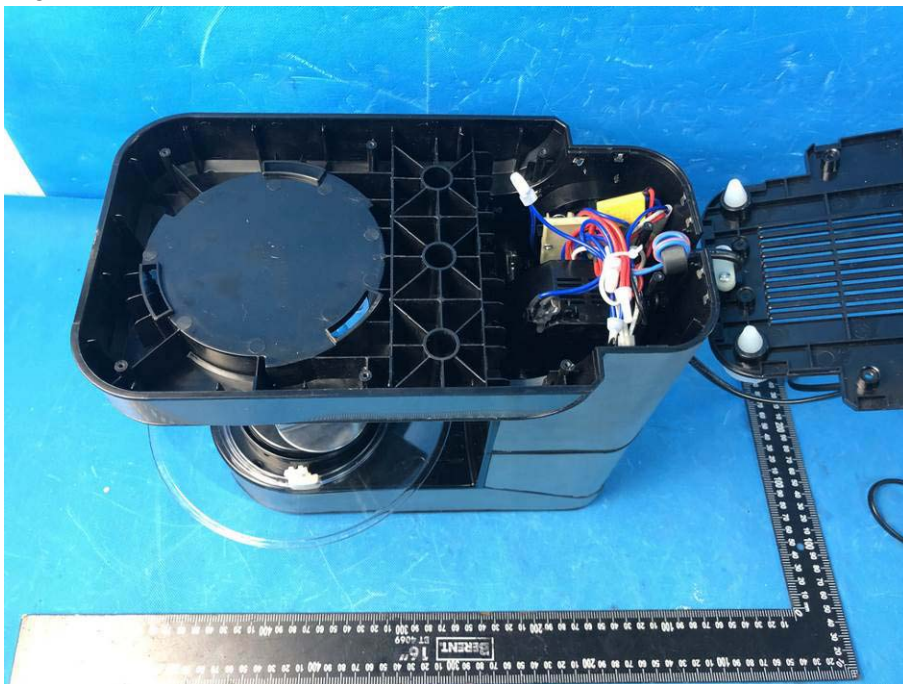


## TEST REPORT

Appearance of model SC-205:



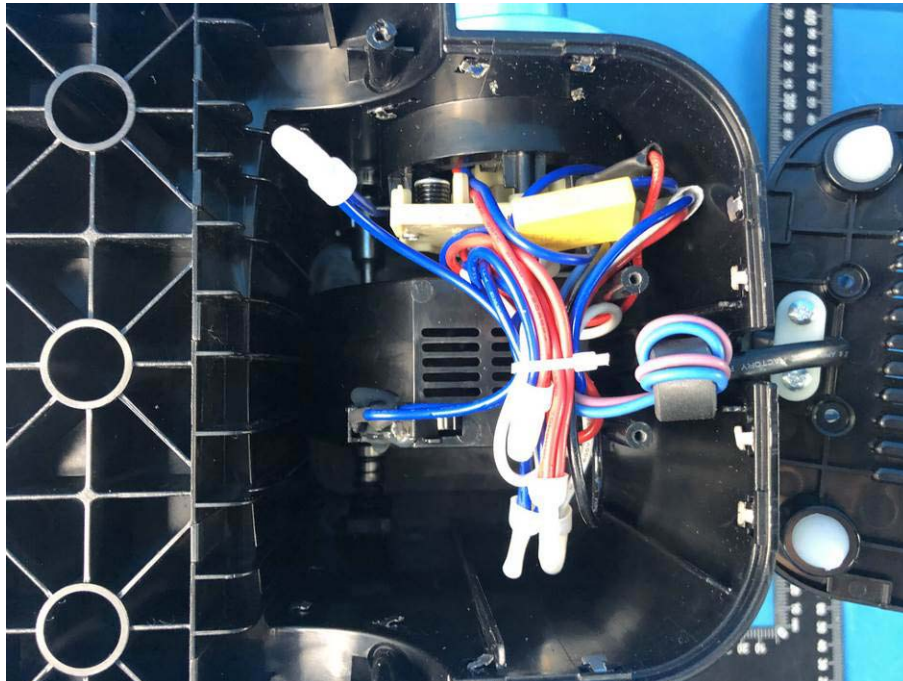
Internal view:





## TEST REPORT

Internal view:

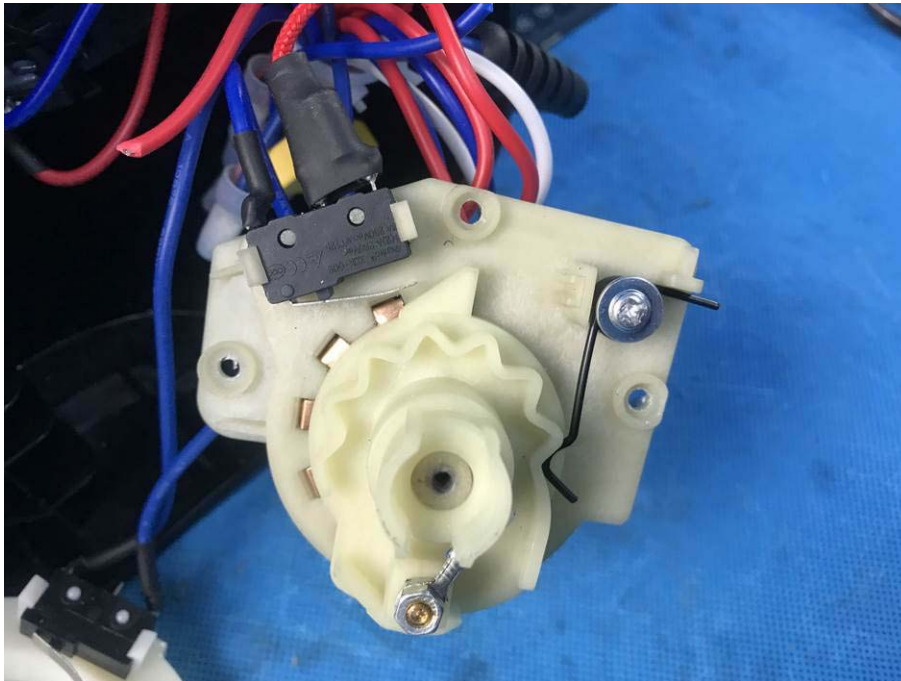


Internal view:



## TEST REPORT

Internal view:



Internal view :



## TEST REPORT

Appearance of model SC-205A:



\*\*\*\*\*End of Report\*\*\*\*\*