



Test Report issued under the responsibility of:



TEST REPORT
IEC 60335-2-80
Safety of household and similar electrical appliances
Part 2 : Particular requirements for fans

Report Number.....: 13001-20240703A18901X-M1
Date of issue.....: 2025-02-17
Total number of pages.....: 23 pages

Name of Testing Laboratory preparing the Report.....: CQCIT-CQC Intime Testing Technology Co., Ltd.

Applicant's name.....: Shenzhen Chic Technology Co., Ltd.

Address.....: No.281, Building B, No.107 Huasheng Road, Shuiwei Community, Lalang Avenue, Longhua District, Shenzhen, Guangdong, China

Test specification:

Standard.....: IEC 60335-2-80:2015 in conjunction with IEC 60335-1:2010, GB 4706.1:2011, GB 4706.2:2011, AMD1:2013, AMD2:2016

Test procedure.....: CB Scheme

Non-standard test method.....: N/A

Test Report Form No.....: IEC60335_2_80I

Test Report Form(s) Originator.....: LCIE

Master TRF.....: Dated 2017-09

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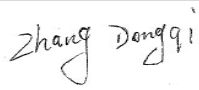
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General disclaimer:

The test results presented in this report relate only to the object tested.

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Test item description..... :	Inline Duct Fan	
Trade Mark..... :	N/A	
Manufacturer..... :	Shenzhen Chic Technology Co., Ltd. No.201, Building B, No.107 Huasheng Road, Shuiwei Community,Dalang Avenue,Longhua District,Shenzhen, Guangdong,China	
Model/Type reference..... :	KC-100, KC-125, KC-150, KC-200, KC-250, KC-315, KC- 100P, KC-125P, KC-150P, KC-200P, KC-250P, KC-315P, KC-100S, KC-125S, KC-150S, KC-200S, KC100-A, KC150- A, KC200-A, KC200-AH, KC100-M, KC150-M, KC200-M, KC200-MH	
Ratings..... :	KC-100 40W, KC-125 50W, KC-150 65W, KC-200 100W, KC- 250 130W, KC-315 330W, KC-100P 40W, KC-125P 45W, KC- 150P 60W, KC-200P 145W, KC-250P 230W, KC-315P 330W, KC-100S 45W, KC-125S 50W, KC-150S 75W, KC-200S 130W, KC100-A 40W, KC150-A 50W, KC200-A 70W, KC200- AH 160W, KC100-M 40W, KC150-M 50W, KC200-M 70W, KC200-MH 160W 220-240V~ 50/60Hz IPX2	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒ CB Testing Laboratory:	CQCIT-CQC Intime Testing Technology Co., Ltd.	
Testing location/ address..... :	East Taihu Hi-Tech & Finance Town, No.1368, Wuzhong Road, Wuzhong Economic Development Zone,Suzhou, China	
Tested by (name, function, signature)..... :	Zhang Dongqi (Project engineer)	
Approved by (name, function, signature)... :	Zhou chenfei (Technical manager)	
☐ Testing procedure: CTF Stage 1:	N/A	
Testing location/ address..... :		
Tested by (name, function, signature)..... :		
Approved by (name, function, signature)... :		
☐ Testing procedure: CTF Stage 2:	N/A	
Testing location/ address..... :		
Tested by (name + signature)..... :		
Witnessed by (name, function, signature).. :		
Approved by (name, function, signature)... :		
☐ Testing procedure: CTF Stage 3:	N/A	
☐ Testing procedure: CTF Stage 4:	N/A	
Testing location/ address..... :		
Tested by (name, function, signature)..... :		

Witnessed by (name, function, signature).. :		
Approved by (name, function, signature)... :		
Supervised by (name, function, signature) :		

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

/

Summary of testing:**Tests performed (name of test and test clause):**

The sample(s) tested complies with the requirements of IEC 60335-2-80:2015 in conjunction with IEC 60335-1:2010,COR1:2010, COR2:2011,AMD1:2013,AMD2:2016

1.Alternative components (Motor (For model KC-200,KC-200P,KC-200S,KC200-M,KC200-A) ,Motor (For model KC-100,KC-100P,KC-100S,KC100-M,KC100-A) ,Power cord,Motor running capacitor) which were added, see updated table 24.1.

2.Applicant address,manufacturer address and factory address were changed.See following table.

3.Applicant address, manufacturer address and factory address (Before change)	4.Applicant address, manufacturer address and factory address (After change)
5.2nd Floor, Building B, No. 107 Huasheng Road, Shuiwei Community, Dalang Street, Longhua District, Shenzhen, Guangdong,China	6.No.201, Building B, No.107 Huasheng Road, Shuiwei Community, Dalang Avenue, Longhua District, Shenzhen,China

1.Test of clause 24 was performed on model KC-315.

2.Tests of clause 10,11,13,19.7,24 were performed on model KC-200P.

3.Tests of clause 10,11,13,19.7,24 were performed on model KC-100S.

This modification project is based on the original certificate which No. CN67488, and the test report must be used in conjunction with the report 13001-20240703A18901X.

Testing location:**CB Testing Laboratory:**

CQCIT-CQC Intime Testing Technology Co., Ltd.

Testing location/ address:

East Taihu Hi-Tech & Finance Town,
No.1368, Wuzhong Road, Wuzhong
Economic Development Zone,Suzhou,China

Summary of compliance with National Differences (List of countries addressed):

N/A

☐ The product fulfils the requirements of _____ (insert standard number and edition and delete the text in parenthesis, leave it blank or delete the whole sentence, if not applicable)

Copy of marking plate:

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.

Others marking plate see report 13001-20240703A18901X.

Test item particulars : Inline Duct Fan																					
Classification of installation and use : Fixed appliance																					
Supply Connection : Non-detachable power cord without a plug :																					
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 : 2024-12-30																					
Date (s) of performance of tests : From 2024-12-30 to 2025-02-17																					
General remarks:																					
"(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 ☒ comma / ☐ point is used as the decimal separator.																					
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60335-2-1:																					
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..... :	☐ Yes ☒ Not applicable																				
When differences exist; they shall be identified in the General product information section.																					
Name and address of factory (ies) : Shenzhen Chic Technology Co., Ltd. No.201, Building B, No.107 Huasheng Road, Shuiwei Community, Dalang Avenue, Longhua District, Shenzhen, Guangdong, China																					
General product information and other remarks: 1.The appliance used indoor only. 2.The appliance used in tropical climates. 3.The model and specification of KC-100 40W, KC-125 50W, KC-150 65W, KC-200 100W, KC-250 130W, KC-315 330W, KC-100P 40W, KC-125P 45W, KC-150P 60W, KC-200P 145W, KC-250P 230W, KC-315P 330W, KC-100S 45W, KC-125S 50W, KC-150S 75W, KC-200S 130W, KC100-A 40W, KC150-A 50W, KC200-A 70W, KC200-AH 160W, KC100-M 40W, KC150-M 50W, KC200-M 70W, KC200-MH 160W 220-240V~ 50/60Hz IPX2. All models have the same electronic circuits, construction and components, except model name, power and dimension. See photos and the following table.																					
<table border="1"> <thead> <tr> <th>NO.</th> <th>Model</th> <th>Power</th> <th>Dimension</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>KC-100</td> <td>40W</td> <td>100mm</td> </tr> <tr> <td>2</td> <td>KC-125</td> <td>50W</td> <td>125mm</td> </tr> <tr> <td>3</td> <td>KC-150</td> <td>65W</td> <td>150mm</td> </tr> <tr> <td>4</td> <td>KC-200</td> <td>100W</td> <td>200mm</td> </tr> </tbody> </table>		NO.	Model	Power	Dimension	1	KC-100	40W	100mm	2	KC-125	50W	125mm	3	KC-150	65W	150mm	4	KC-200	100W	200mm
NO.	Model	Power	Dimension																		
1	KC-100	40W	100mm																		
2	KC-125	50W	125mm																		
3	KC-150	65W	150mm																		
4	KC-200	100W	200mm																		

5	KC-250	130W	250mm
6	KC-315	330W	315mm
7	KC-100P	40W	100mm
8	KC-125P	45W	125mm
9	KC-150P	60W	150mm
10	KC-200P	145W	200mm
11	KC-250P	230W	250mm
12	KC-315P	330W	315mm
13	KC-100S	45W	100mm
14	KC-125S	50W	125mm
15	KC-150S	75W	150mm
16	KC-200S	130W	200mm
17	KC100-A	40W	100mm
18	KC150-A	50W	150mm
19	KC200-A	70W	200mm
20	KC200-AH	160W	200mm
21	KC100-M	40W	100mm
22	KC150-M	50W	150mm
23	KC200-M	70W	200mm
24	KC200-MH	160W	200mm

IEC 60335-2-80			
Clause	Requirement + Test	Result - Remark	Verdict
10	POWER INPUT AND CURRENT		
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1. :	(see appended table)	P
	If the power input varies throughout the operating cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the power input is the arithmetic mean value		N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated power input is related to the arithmetic mean value		P
	Appliances are tested with shutters or similar devices in the open position.(IEC 60335-2-80)		N/A
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2.....:		N/A
	If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period		N/A
	Otherwise the current is the arithmetic mean value		N/A
	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless		N/A
	the rated current is related to the arithmetic mean value of the range		N/A
	Appliances are tested with shutters or similar devices in the open position. (IEC 60335-2-80)		N/A
11	HEATING		
11.1	No excessive temperatures in normal use		P
11.2	The appliance is held, placed or fixed in position as described..... :	Fixed on test corner	P
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless		P

IEC 60335-2-80			
Clause	Requirement + Test	Result - Remark	Verdict
	the windings are non-uniform or it is difficult to make the necessary connections		N/A
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W) :		N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)..... :	(see appended table)	P
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)..... :		N/A
11.7	Appliances are operated until steady conditions are established. (IEC 60335-2-80)		P
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		N/A
	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
	The temperature rise limits for appliances for tropical climates are reduced by 15 K. (IEC 60335-2-80)		P
	The temperature rise limits for fans marked with an ambient operating temperature are reduced by the difference between the marked value and 25 °C. (IEC 60335-2-80)		N/A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH AT OPERATING TEMPERATURE		
13.1	Leakage current not excessive and electric strength adequate		P
	Heating appliances operated at 1.15 times the rated power input (W)..... :		N/A
	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V)..... :	(see appended table)	P
	Protective impedance and radio interference filters disconnected before carrying out the tests		N/A
13.2	For class 0, class II and class III appliances, and class II constructions, leakage current measured by means of the circuit described in figure 4 of IEC 60990		P

IEC 60335-2-80			
Clause	Requirement + Test	Result - Remark	Verdict
	For class 0I and class I appliances, a low impedance ammeter may be used		N/A
	Leakage current measurements..... :	(see appended table)	P
13.3	The appliance is disconnected from the supply		P
	Electric strength tests according to table 4.....:	(see appended table)	P
	No breakdown during the tests		P
19	ABNORMAL OPERATION		
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or		N/A
	locking moving parts of other appliances		P
	Locked rotor, capacitors open-circuited one at a time		P
	Test repeated with capacitors short-circuited one at a time, unless		P
	the capacitor is of class S2 or S3 of IEC 60252-1		N/A
	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed.....:		N/A
	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit		N/A
	Other appliances supplied with rated voltage for a period as specified..... :	(see appended table)	P
	Winding temperatures not exceeding values specified in table 8.....:	(see appended table)	P
	Mounting of separate control (IEC 60335-2-80)		N/A
	Approximately 50 % of the area of each ventilating opening is blocked. (IEC 60335-2-80)		N/A
	Winding temperatures not exceeding values specified in table 8 (IEC 60335-2-80)		N/A
	The temperature rise of the board not exceed: (IEC 60335-2-80)		N/A
	– 50 K, for appliances with T marking; (IEC 60335-2-80)		N/A
	– 65 K, for other appliances. (IEC 60335-2-80)		N/A
24	COMPONENTS		
24.1	Components comply with safety requirements in relevant IEC standards		P
	List of components..... :	(see appended table)	P
	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance		P
	Relays tested as part of the appliance, or		N/A

IEC 60335-2-80			
Clause	Requirement + Test	Result - Remark	Verdict
	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1		N/A
	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance		P
	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard		P
	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections		P
	Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2		P
	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met		P
	If these conditions are not satisfied, the component is tested as part of the appliance.		P
	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance		N/A
	If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		N/A
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9		P
	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance		P
	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard		N/A
	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309		N/A

IEC 60335-2-80			
Clause	Requirement + Test		Verdict
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, comply with IEC 60384-14		N/A
	If the capacitors have to be tested, they are tested according to Annex F		N/A
24.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16		N/A
	Safety isolating transformers comply with IEC 61558-2-6		N/A
	If they have to be tested, they are tested according to Annex G		N/A
24.1.3	Switches comply with IEC 61058-1, the number of cycles of operation being at least 10 000		N/A
	If they have to be tested, they are tested according to Annex H		N/A
	If the switch operates a relay or contactor, the complete switching system is subjected to the test		N/A
	If the switch only operates a motor starting relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		N/A
24.1.4	Automatic controls comply with IEC 60730-1 with the relevant part 2. The number of cycles of operation being at least:		N/A
	- thermostats:	10 000	N/A
	- temperature limiters:	1 000	N/A
	- self-resetting thermal cut-outs:	300	N/A
	- voltage maintained non-self-resetting thermal cut-outs:	1 000	N/A
	- other non-self-resetting thermal cut-outs:	30	N/A
	- timers:	3 000	N/A
	- energy regulators:	10 000	N/A
	The number of cycles for controls operating during clause 11 need not be declared, if the appliance meets the requirements of this standard when they are short-circuited		N/A
	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D		N/A
	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection declared for subclause 6.5.2 of IEC 60730-2-8 is IPX7		N/A

IEC 60335-2-80			
Clause	Requirement + Test	Result - Remark	Verdict
	Thermal cut-outs of the capillary type comply with the requirements for type 2.K controls in IEC 60730-2-9		N/A
24.1.5	Appliance couplers comply with IEC 60320-1		N/A
	However, for class II appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3		N/A
	Interconnection couplers comply with IEC 60320-2-2		N/A
24.1.6	Small lamp holders similar to E10 lampholders comply with IEC 60238, the requirements for E10 lampholders being applicable		N/A
24.1.7	For remote operation of the appliance via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151		N/A
24.1.8	The relevant standard for thermal links is IEC 60691		N/A
	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19		N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance		N/A
	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance.....:		N/A
24.2	Appliances not fitted with:		P
	- switches, automatic controls or power supplies in flexible cords		P
	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		P
	- thermal cut-outs that can be reset by soldering, unless		P
	the solder has a melting point of at least 230 °C		N/A
	Switches or automatic controls in flexible cords are allowed for appliances not exceeding 25 W. (IEC 60335-2-80)		N/A
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and have a contact separation in all poles, providing full disconnection under overvoltage category III conditions		N/A

IEC 60335-2-80			
Clause	Requirement + Test	Result - Remark	Verdict
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1		N/A
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly	1,5μF/4 μ F	P
	Voltage across capacitors in series with a motor winding does not exceed 1,1 times rated voltage, when the appliance is supplied at 1,1 times rated voltage under minimum load	1,5μF:326,3V 4μF:340,1V	P
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V		N/A
	In addition, the motors comply with the requirements of Annex I		N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770		N/A
	They are supplied with the appliance		N/A
	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set		N/A
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure		P
	One or more of the following conditions are to be met:		P
	- the capacitors are of class S2 or S3 according to IEC 60252-1		N/A
	- the capacitors are housed within a metallic or ceramic enclosure		N/A
	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm		N/A
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E		P
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10		N/A
24.101	Thermal cut-outs incorporated in duct fans in order to comply with cl. 19 are not self-resetting (IEC 60335-2-80)		P

IEC 60335-2-80			
Clause	Requirement + Test	Result - Remark	Verdict

10.1	TABLE: Power input deviation					P
Input deviation of/at:	P rated (W)	P measured (W)	ΔP	Required ΔP	Remark	
230V 50Hz	145	95,2	-34,3%	+20%	KC-200P	
230V 60Hz	145	122,0	-15,9%	+20%	KC-200P	
230V 50Hz	45	37,5	-16,7%	+20%	KC-100S	
230V 60Hz	45	43,3	-3,8%	+20%	KC-100S	
Supplementary information:						

10.2	TABLE: Current deviation					N/A
Current deviation of/at:	I rated (A)	I measured (A)	ΔI	Required ΔI	Remark	
—	—	—	—	—	—	
Supplementary information:						

11.8A-1	TABLE: Heating test		P
	Test voltage (V)..... :	254,4	—
	Ambient T1 (°C)..... :	40,0	—
	Ambient T2 (°C)..... :	40,0	
Thermocouple locations:		Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
Power cord separation		3,7	50-15=35
Motor capacitance		2,1	70-40=30
Plastic shell		23,0	Cl.30
Internal wire		3,2	90-40=50
Test corner		1,6	60-15=45
Supplementary information:Model KC-200P.			

11.8A-1	TABLE: Heating test, resistance method					P
	Test voltage (V).....:	254,4			—	
	Ambient, t1 (°C).....:	40,0			—	
	Ambient, t2 (°C).....:	40,0			—	
Temperature rise of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	Max. Δ T (K)	Insulation class
Motor main winding		141,5	175,3	65,6	90-15=75	E
Motor secondary winding		192,3	240,3	68,5	90-15=75	E
Supplementary information:Model KC-200P.						

IEC 60335-2-80			
Clause	Requirement + Test		Verdict
11.8A-2	TABLE: Heating test		P
	Test voltage (V) :	206,8	—
	Ambient T1 (°C) :	40,0	—
	Ambient T2 (°C) :	40,0	
Thermocouple locations:		Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
Power cord separation		3,3	50-15=35
Motor capacitance		2,0	70-40=30
Plastic shell		24,2	Cl.30
Internal wire		5,4	90-40=50
Test corner		1,5	60-15=45
Supplementary information: Model KC-200P.			

11.8A-2	TABLE: Heating test, resistance method					P
	Test voltage (V) :	206,8				—
	Ambient, t1 (°C) :	40,0				—
	Ambient, t2 (°C) :	40,0				—
Temperature rise of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	Max. Δ T (K)	Insulation class
Motor main winding		144,5	177,8	63,3	90-15=75	E
Motor secondary winding		195,3	241,2	64,5	90-15=75	E
Supplementary information: Model KC-200P.						

11.8B-1	TABLE: Heating test		P
	Test voltage (V)..... :	254,4	—
	Ambient T1 (°C)..... :	40,0	—
	Ambient T2 (°C)..... :	40,0	
Thermocouple locations:		Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
Power cord separation		3,4	50-15=35
Motor capacitance		3,7	70-40=30
Plastic shell		16,7	Cl.30
Internal wire		7,5	90-40=50
Test corner		1,1	60-15=45
Supplementary information:Model KC-100S.			

11.8B-1	TABLE: Heating test, resistance method					P
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IEC 60335-2-80					
Clause	Requirement + Test			Result - Remark	Verdict
	Test voltage (V).....:			254,4	—
	Ambient, t1 (°C).....:			40,0	—
	Ambient, t2 (°C).....:			40,0	—
Temperature rise of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	Max. Δ T (K)
					Insulation class
Motor main winding		183,2	218,8	53,3	90-15=75
Motor secondary winding		255,3	305,3	53,8	90-15=75
Supplementary information: Model KC-100S.					

11.8B-2	TABLE: Heating test		P
	Test voltage (V)..... :	206,8	—
	Ambient T1 (°C)..... :	40,0	—
	Ambient T2 (°C)..... :	40,0	
Thermocouple locations:		Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
Power cord separation		3,2	50-15=35
Motor capacitance		3,8	70-40=30
Plastic shell		17,5	Cl.30
Internal wire		17,5	90-40=50
Test corner		1,2	60-15=45
Supplementary information: Model KC-100S.			

11.8B-2	TABLE: Heating test, resistance method			P
	Test voltage (V).....:			206,8
	Ambient, t1 (°C).....:			40,0
	Ambient, t2 (°C).....:			40,0
Temperature rise of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)
				Max. Δ T (K)
				Insulation class
Motor main winding		185,3	218,8	49,6
Motor secondary winding		257,2	305,8	51,9
Supplementary information: Model KC-100S.				

13.2A-1	TABLE: Leakage current			P
	Heating appliances: 1.15 x rated input (W)....:			--
	Motor-operated and combined appliances: 1.06 x rated voltage (V).....:			254,4V
Leakage current between:		I (mA)		Max. allowed I (mA)

IEC 60335-2-80			
Clause	Requirement + Test	Result - Remark	Verdict
L/N to accessible plastic part		0,010/0,010	0,35 peak
Live part and earthed metal parts		0,028/0,029	3,5
Supplementary information:Model KC-200P.			

13.3A-1	TABLE: Dielectric strength		P
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)
Between motor winding and motor Silicon steel sheet		1000	No
Internal wire and accessible parts		1750	No
Live parts and accessible plastic part		3000	No
Supplementary information:Model KC-200P.			

13.2B-1	TABLE: Leakage current		P
Heating appliances: 1.15 x rated input (W)...:		--	—
Motor-operated and combined appliances: 1.06 x rated voltage (V).....:		254,4V	—
Leakage current between:		I (mA)	Max. allowed I (mA)
L/N to accessible plastic part		0,010/0,011	0,35 peak
Live part and earthed metal parts		0,031/0,030	3,5
Supplementary information:Model KC-100S.			

13.3B-1	TABLE: Dielectric strength		P
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)
Between motor winding and motor Silicon steel sheet		1000	No
Internal wire and accessible parts		1750	No
Live parts and accessible plastic part		3000	No
Supplementary information:Model KC-100S.			

19	Abnormal operation conditions						P
Operational characteristics		YES/NO	Operational conditions				
Are there electronic circuits to control the appliance operation?		NO	/				
Are there "off" or "stand-by" position?		NO	/				
The unintended operation of the appliance results in dangerous malfunction?		NO	/				
Sub-	Operating	Test results	PEC	EMP	Software	19.11.3	Final

IEC 60335-2-80							
Clause	Requirement + Test			Result - Remark			Verdict
clause	conditions description	description	description	19.11.4	type required	PEC	result
19.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.7	Locked motor	No hazard	N/A	N/A	N/A	N/A	P
19.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.11.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.11.4.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19.10X	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Supplementary information:							

19.7A-1	TABLE: Abnormal operation, locked rotor/moving parts					P
	Test voltage (V).....:	240,0				—
	Ambient, t1 (°C).....:	23,1				—
	Ambient, t2 (°C).....:	23,4				—
Temperature of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)
Motor main winding		151,2	214,7	107,9	131,3	215
Motor secondary winding		201,2	285,3	107,4	130,8	215
Supplementary information: Locked motor, Motor capacitance is normal, Model KC-200P.						

19.7A-2	TABLE: Abnormal operation, locked rotor/moving parts					P
	Test voltage (V).....:	240,0				—
	Ambient, t1 (°C).....:	23,4				—
	Ambient, t2 (°C).....:	23,5				—
Temperature of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)
Motor main winding		150,8	211,5	103,7	127,2	215
Motor secondary winding		205,5	288,4	103,9	127,4	215
Supplementary information: Locked motor, Motor capacitance is open-circuited, Model KC-200P.						

19.7A-3	TABLE: Abnormal operation, locked rotor/moving parts					P
	Test voltage (V).....:	240,0				—

IEC 60335-2-80					
Clause	Requirement + Test			Result - Remark	Verdict
	Ambient, t1 (°C).....:			23,6	—
	Ambient, t2 (°C).....:			23,7	—
Temperature of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	Max. T (°C)
Motor main winding		155,5	220,6	108,0	215
Motor secondary winding		211,2	301,8	110,6	215
Supplementary information: Locked motor, Motor capacitance is short-circuited, Model KC-200P.					

19.7B-1	TABLE: Abnormal operation, locked rotor/moving parts				P
	Test voltage (V).....:			240,0	—
	Ambient, t1 (°C).....:			23,2	—
	Ambient, t2 (°C).....:			23,3	—
Temperature of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	Max. T (°C)
Motor main winding		181,2	256,3	106,7	215
Motor secondary winding		251,2	355,4	106,8	215
Supplementary information: Locked motor, Motor capacitance is normal, Model KC-100S.					

19.7B-2	TABLE: Abnormal operation, locked rotor/moving parts				P
	Test voltage (V).....:			240,0	—
	Ambient, t1 (°C).....:			23,4	—
	Ambient, t2 (°C).....:			23,5	—
Temperature of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	Max. T (°C)
Motor main winding		185,5	260,3	103,9	215
Motor secondary winding		256,6	361,3	105,1	215
Supplementary information: Locked motor, Motor capacitance is open-circuited, Model KC-100S.					

19.7B-3	TABLE: Abnormal operation, locked rotor/moving parts				P
	Test voltage (V).....:			240,0	—
	Ambient, t1 (°C).....:			23,5	—
	Ambient, t2 (°C).....:			23,6	—
Temperature of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	Max. T (°C)
Motor main winding		188,8	268,3	108,5	215
Motor secondary winding		261,2	372,3	109,6	215
Supplementary information: Locked motor, Motor capacitance is short-circuited, Model KC-100S.					

19.9	TABLE: Abnormal operation, running overload				N/A
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IEC 60335-2-80						
Clause	Requirement + Test			Result - Remark		Verdict
	Test voltage (V).....:			—		—
	Ambient, t1 (°C).....:			—		—
	Ambient, t2 (°C).....:			—		—
Temperature of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)
—		—	—	—	—	—
Supplementary information:						

19.13A-1	TABLE: Abnormal operation, temperature rises				P
Thermocouple locations:			Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)	
Plastic shell			46,5	Cl.30	
Supplementary information: Locked motor, Motor capacitance is normal, Model KC-200P.					

19.13A-2	TABLE: Abnormal operation, temperature rises				P
Thermocouple locations:			Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)	
Plastic shell			44,1	Cl.30	
Supplementary information: Locked rotor, capacitors open-circuited, Model KC-200P.					

19.13A-3	TABLE: Abnormal operation, temperature rises				P
Thermocouple locations:			Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)	
Plastic shell			48,8	Cl.30	
Supplementary information: Locked motor, capacitors short-circuited, Model KC-200P.					

19.13B-1	TABLE: Abnormal operation, temperature rises				P
Thermocouple locations:			Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)	
Plastic shell			43,2	Cl.30	
Supplementary information: Locked motor, Motor capacitance is normal, Model KC-100S.					

19.13B-2	TABLE: Abnormal operation, temperature rises				P
Thermocouple locations:			Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)	
Plastic shell			41,2	Cl.30	
Supplementary information: Locked rotor, capacitors open-circuited, Model KC-100S.					

19.13B-3	TABLE: Abnormal operation, temperature rises				P
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IEC 60335-2-80			
Clause	Requirement + Test	Result - Remark	Verdict
Thermocouple locations:		Max. temperature rise measured, ΔT (K)	Max. temperature rise limit, ΔT (K)
Plastic shell		44,5	Cl.30
Supplementary information: Locked motor, capacitors short-circuited, Model KC-100S.			

24.1	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Motor (For model KC-200, KC-200P, KC-200S, KC200-M, KC200-A) (Add)	Shengzhou Xingkai Electric Appliance Co., LTD	YYHS80-20/2	220V-240V 50/60Hz 20W Class E	IEC60335-1 IEC60335-2-80	Tested with appliance	
Motor (For model KC-100, KC-100P, KC-100S, KC100-M, KC100-A) (Add)	Shengzhou Xingkai Electric Appliance Co., LTD	YYHS80-10/2	220V-240V 50/60Hz 10W Class E	IEC60335-1 IEC60335-2-80	Tested with appliance	
Power cord (Add)	Ching Cheng Wire Material Co., Ltd.	60245 EC 57(YZW) 60245 EC 53(YZ)	4 × 0,75mm ²	DIN VDE 0620-2-1 (VDE 0620-2-1):2016-01 DIN VDE 0620-2-1/A1 (VDE 0620-2-1/A1):2017-09	VDE 40004661	
Motor running capacitor (Add)	Foshan Shunde Chuang Ge Electronic Industrial Co., Ltd.	CBB61	450VAC 50/60Hz 1,5 μ F T70 S0	IEC/EN 60252-1	VDE 40021496	
Motor running capacitor (Add)	Foshan Shunde Chuang Ge Electronic Industrial Co., Ltd.	CBB61	450VAC 50/60Hz 4 μ F T70 S0	IEC/EN 60252-1	VDE 40021496	
Supplementary information:						
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.						
2) The other critical components see the report 13001-20240703A18901X.						

Attachment 1: Photos

Photos:

Other photos see report 13001-20240703A18901X.

---End of test report---