



## Test Report

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Date: Dec. 22, 2008

SHANGHAI KAKU ELECTRIC EQUIPMENT CORP.

The below samples were submitted by client and said to be:

Product Description : AXIAL COOLING FAN  
Model No : KA12738  
Quantity : 2pcs  
Sample Receiving Date : Dec. 17, 2008  
Testing Period : From Dec. 18, 2008 to Dec. 19, 2008  
Test Request : IP55  
Test Method : Refer to IEC60529-2001 and client's requirement.  
Test Result(s) : For further details, please refer to the following pages.

Signed for and on behalf of  
SGS-CSTC Ltd.

A handwritten signature in black ink that reads 'Michael'.

Michael Zhang  
E&E Reliability Lab



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We have tested the submitted sample(s) as requested and the following results were obtained:

**Test Equipment:**

Name	Model
Dust Chamber	SC-6
Water Proof Tester	T041101-01
HIPOT Test	ZHZ8
Electrical Character Meter	PF140A
Digital Tachometer	HT-400

**Test Information:**

Test Sequence	Test Item
1	Operating Current Measurement
2	Power Consumption Measurement
3	Withstand Voltage Test
4	Rotate Speed Measurement
5	IP55
6	Operating Current Measurement
7	Power Consumption Measurement
8	Withstand Voltage Test
9	Rotate Speed Measurement

**Test Method:** Refer to IEC60529-2001 & client's requirement, Degree of protection provided by enclosures (IP code)

IP code	IP 55	Sample Serial No.
First characteristic numeral	Dust-Protected Test	SHRLD0031 #1
Second characteristic numeral	Protected against the ingress of water jets	SHRLD0031 #2

**Test condition:**

**Test A. Dust-Protected Test**

Test Dust: 2kg/m<sup>3</sup> chamber volume and be kept in suspension during the test

Test Duration: 8 hours

**Test Result(s):** Satisfied.

No dust was found in the sample, the sample was still operating after the test.

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### Test B. Protected against the ingress of water jets

Water Jet Nozzle: Ø6.3mm  
 Water Flow: 12.5l/min ± 5%  
 Water Pressure: about 30KPa  
 Distance: 2.5m~3m  
 Test Duration: each 3minutes for front side and back side

**Test Result(s):** Satisfied.

No water was found in the sample, the sample was still operating after the test.

### Test Data:

1. Operating Current: Measure the Operating Current with 230V AC.

Serial No.	Test Data	
	Before Test	After Test
SHRLD0031 #1	0.140A	0.142A
SHRLD0031 #2	0.141A	0.142A

2. Power Consumption: Measure the Power Consumption with 220V AC.

Serial No.	Test Data	
	Before Test	After Test
SHRLD0031 #1	21.03W	21.42W
SHRLD0031 #2	21.58W	21.82W

3. Withstand Voltage Test: Apply 1500V AC between Power Terminals and Case for 1 minute, and the leakage current was no more than 0.5mA.

Neither a dielectric breakdown nor a flashover shall occur during the test.

Serial No.	Test Data	
	Before Test	After Test
SHRLD0031 #1	0.11mA	0.11mA
SHRLD0031 #2	0.12mA	0.18mA

4. Rotate Speed: Measure the Rotate Speed with 230V AC.

Serial No.	Test Data	
	Before Test	After Test
SHRLD0031 #1	2705 rev.	2701 rev.
SHRLD0031 #2	2678 rev.	2687 rev.

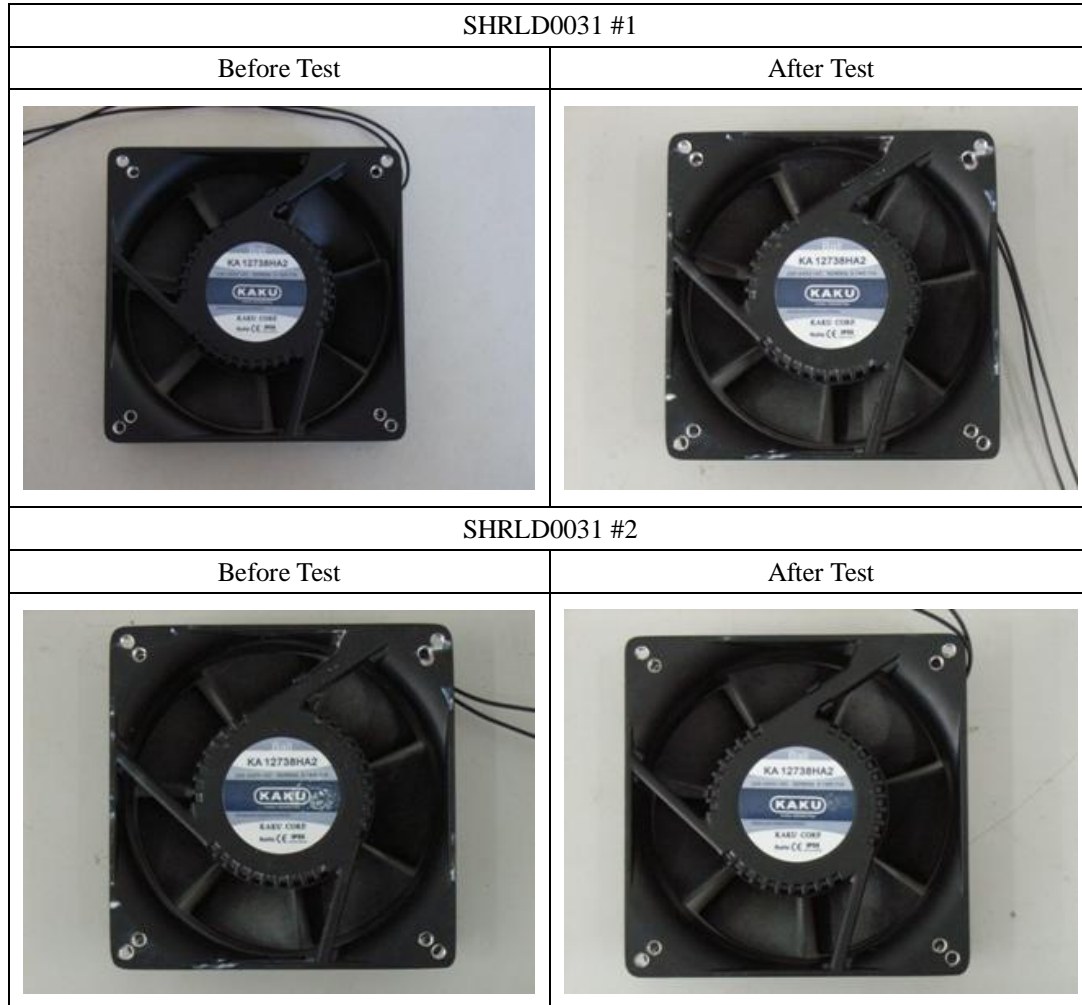
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Photos:



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