

SPECIFICATION FOR APPROVAL

TO:

REF NO:

APPROVED DATE	CHECKED DATE	PREPARED DATE
	2018-1-15	2018-1-15

MODEL No. KA2072HA2BML(OR) P.S. (/)

DESCRIPTION: 208×208×72mm REV. A

ID No.

THIS OFFER IS MADE ACCORDING TO YOUR COURRENT INQUIRY.
UNLESS OTHERWISE REVISED,THIS SPECIFICATION WILL BE FINAL FOR
ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY

KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULLY
SIGNED AS YOUR CONFIRMATION OF SAME.



ISO 9001: 2000
Certificate No.CNAB046-Q



KAKU CORPORATION

DATA SHEET

Printed on :

CUSTOMER:

MODEL NO.: **KA2072HA2BML(OR)** 2P

P.S:/

SAMPLES:

☐ ATTACHED: PCS. REF.:
☐ ENGINEERING SAMPLE
☐ PRE-PRODUCTION SAMPLE
☐ PRODUCTION SAMPLE

SAFETY APPROVAL / STANDARD

☐ ICUL ☐ IUL ☒ ICE ☒ ROHS ☐ T-MARK

☐ ITUV ☐ JBS ☐ JGS ☐ JCSA ☒ -50°C ☒ Aluminum impeller

SPECIFICATIONS

ITEM

SPECIFICATION / CONDITIONS

MEASUREMENTS

208×208×72 MM

BEARING TYPE

☐ SLEEVE(Best) ☒ BALL

START VOLTAGE

165VAC

RATED VOLTAGE

220 VAC+/-10%

OPERATING VOLTAGE RANGE

198~242VAC

OPERATING FREQUENCY

50 / 60 HZ

RATED CURRENT

0.38/ 0.51A

INPUT POWER

81/ 111Watt

RATED SPEED

2800/3100RPM+/-10%

AIR FLOW

948/1050CFM

(Min at zero static pressure.)

STATIC PRESSURE

0.99/ 0.75 INCH-H2O

(Min at zero air flow.)

PROTECITON

☐ ZP ☒ TP ☐ EP

NOISE LEVEL

70/ 72 dB(A)

NET WEIGHT

2200 GRAM.

PACKING

8PCS.PER CARTON

MEASUREING CONDITION IS 25°C , RH 65% FOR ABOVE ITEMS

SPECIFICATION

1.0 Scope : This documentation defines the mechanical & electrical characteristics of AC axial fans.

2.0 Material:

2.1 Housing High quality magnesium alloy die-casting frame with ED coating+powder coating.

2.2 Fan blade High quality aluminum alloy die-casting impeller with ED coating+powder coating.

2.3 Bearing System

☐ Sleeve Bearing(Best)

☒ Ball Bearing

Manufacturer: NMB / NSK
Model: 608 / 608
Precision: M3MTLY121 / 608T1XZZ1MC3ER

2.4 Thermal protected : SEKI ST-22, 150℃,

2.5 Enameled wire: QA-2 H class, 180℃

2.6 Connection type ☐ Terminal connection suit with 0.5×3×7mm PIN
☒ Lead wire connection suit with 60277

IEC53(RVV)300/500V 2*0.75mm² L=310mm

2.7 Washer Material 65Mn

2.8 Finger guard ☒ ABS ☐ METAL

☒ 1PC Included in this fan

2.9 Accessories ☒ RJZ 222-412 terminal clip×2

☒ M5 bolt×4

☒ Earth bolt×1

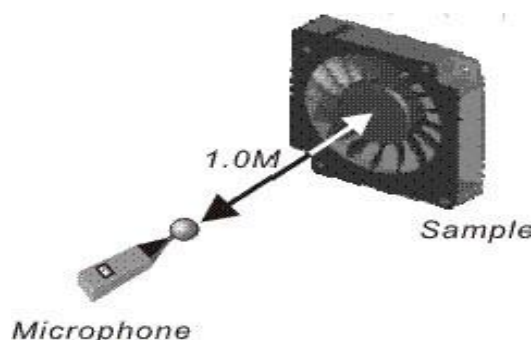
3.0 Dimension & construction : All dimension , direction of rotation and air flow, rated characteristics are specified in drawing & data-sheet of enclosed.

4.0 Characteristics definition:

4.1 Rated current : Rated current shall be measured after 30 minutes continuous rotation at rated voltage.

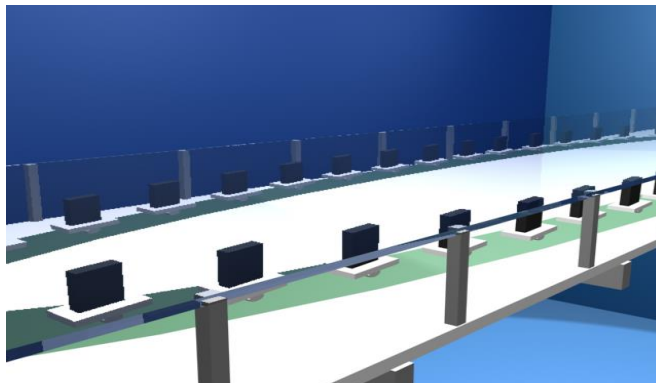
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- 4.2 Start Voltage : The voltages (165V) that enable to start the fan by sudden switch on.
- 4.3 Rated speed : Rated speed shall be measured after 30 minutes continuous rotation at rated voltage.
- 4.4 Input power : Input power shall be measured after 30 minutes continuous rotation at rated voltage.
- 4.5 Air flow & static pressure : The air flow data and static pressures are determined in accordance with AMCA standard or DIN 24163 specification in a double-chamber testing with intake-side measurement.
- 4.6 Noise level : The measurement of noise level is carried out with reference to CNS8753 in a anechoic chamber with the microphone positioned 1 M from the air intake. Testing fan shall be hung in clear air.



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4.7 Endurance test line: All the fans should be put on the endurance test line. Then we run the fan 30 minutes with 1.05 times of the rated voltage to test the function performance of the fan.



5.0 Mechanical inspection

5.1 Rotation direction: Clockwise from the front face of the fan. A clear “= = >” (arrow mark) shall be found on the body of housing.

6.0 Electrical inspection

6.1 Insulation resistance : 100MΩ or more at 500 VDC megger.

6.2 Dielectric strength : [] 2 seconds at 2200 V
[X] 2 seconds at 1800 V
[] 2 seconds at 1500 V

Bearing type	Temperature	Hours
Ball bearing	20℃	60,000
	40℃	50,000
	60℃	40,000
	90℃	20,000

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7.0 Environmental

7.1 Operating Temperature : [] -50°C ~ +100°C [X] -40°C ~ +80°C
[] -20°C ~ +70°C [] others

$\Delta t = 77^{\circ}\text{C}/79^{\circ}\text{C}$ 50HZ/60HZ on 240v condition

$\Delta t = 64.5^{\circ}\text{C}/70^{\circ}\text{C}$ 50HZ/60HZ on 220v condition

7.1 Humidity RH : 20 % ~ 85 % (Max)

7.3 Storage Temperature : The storage temperature will be suggested at
-20°C ~ 50°C to ensure a better performance standards.

7.4 Thermal Shock : After thermal shock test per MIL-STD-202F,
method 107G, condition D, The measured data of insulation resistance & dielectric strength should the specification listed in datasheet.

8.0 Remark

8.1 Material and construction are subject to change with advance notice.
The changes should be within specification listed in this approved sheet.

8.2 All the fans shall meet the inspection under sampling plan ISO-2859II,
The AQL are as follow:

Critical	AQL= 0
Major	AQL=1
Minor	AQL=2.5

9.0 Drawing

9.1 Mechanical dimension

