

**PBM**

## SPECIFICATION FOR APPROVAL

Customer: Customer  
Model No: PA8038B2HL  
Motor Type: External rotor AC motor



## PBM Motor and Fan (Suzhou) Co., Ltd

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Customer Approved

Customer

PBM Checked By

Zepsi

This specification defines the Mechanical and Electrical characteristics of the AC brushless external rotor motorized axial fan.

## Model: PA8038B2HL

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### ◆ 1. General Characters

1-1	Rated Voltage	220 VAC
1-2	Frequency	50/60 Hz
1-3	Operating Voltage	184~253 VAC
1-4	Rated Speed	2300/2800 RPM
1-5	Input Current	0.11/0.10 A
1-6	Input Power	18/16 W
1-7	Air Flow	40.77/52.66 m <sup>3</sup> /h
1-8	Static Pressure	32.34/47.4 Pa
1-9	Acoustical Noise	31/35 dB(A)
1-10	Life Expectance	50,000 Hours At nominal supply voltage, full speed room temperature 40°C.
1-11	Direction of Air Flow	All around
1-12	Operating Temperature	-10°C to 70°C
1-13	Storage Temperature	-30°C to 75°C
1-14	Operating Humidity	0% to 95% RH
1-15	Storage Humidity	0% to 95% RH

### ◆ 2. Mechanical Characters

2-1	Dimension	See dimension drawing
2-2	Frame	Aluminum
2-3	Number of Blades	5
2-4	Fan blade	Plastic
2-5	Mounting Position	Any
2-6	Surface of Rotor	Coated in black
2-7	Bearing System	NMB ball bearing

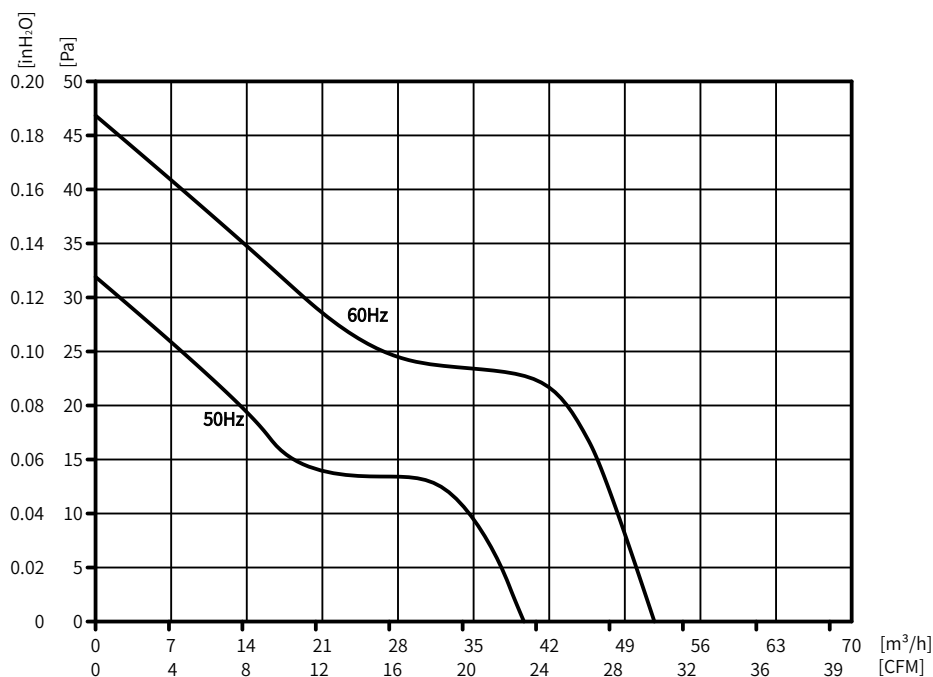
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### ◆ 3. Environmental Characters

3-1	Motor design	Shaded pole motor construction
3-2	Insulation resistance	100MΩ or more in 500V Megger (Between frame and (+) terminal)
3-3	Insulation strength	1 minute at 1400 volts /50-60Hz (Between frame and (+) terminal)
3-4	Rotation	Counter-clockwise Viewed from Inlet
3-5	Airflow direction	Air Exhaust over strut
3-6	Motor protection	Impedance protection

### ◆ 4. Performance Curve



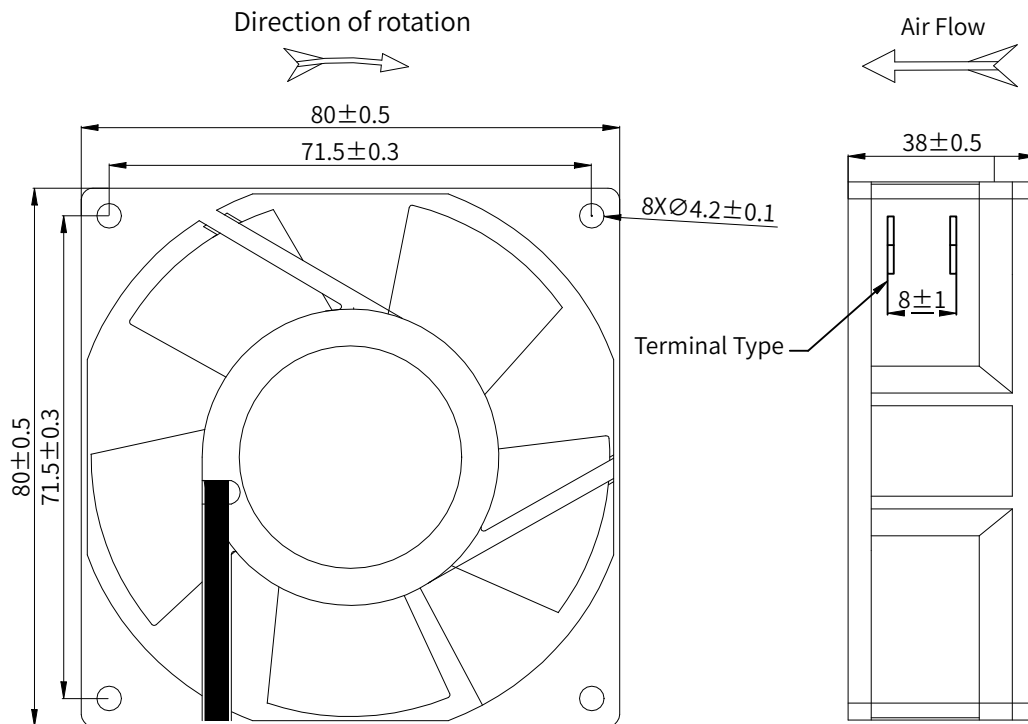
#### Testing Condition

Input Voltage----Operating voltage (220VAC, 50/60Hz)  
 Temperature-----Room temperature  
 Humidity-----65%RH

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### ◆ 5. Outline Drawing



### ◆ 6. Safety Requirements

1. Make sure that the metal casing of the stator connected to the ground before being powered on.
2. Fan needs a few seconds to start after being powered on. To prevent personal injury, do not touch the impellers or rotor when the power is on or in a low speed.
3. Unless they are instructed by the person(s) responsible for their safety, those who are lack of physical, mental or sensory capacities and proper practical experience or expertise cannot use this appliance. Please do not let the children play with this product.
4. If the power cord be damaged, the power cord must be replaced by the manufacturer in order to avoid accident of the proxy service personnel or the equivalent qualification maintenance personnel.
5. Please carefully read this technical specification before using the product.