



維弘科技股份有限公司  
PROFAN TECHNOLOGY CORP.

**Date:2016.2.16**

**SPECIFICATION FOR APPROVAL**

**DESCRIPTION: Axial AC Fan**

**DIMENSIONS: 176x176x89mm**

**M O D E L: P2189HBT**

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**Axial AC FAN**

**MODEL: P2189HBT**

**CHARACTERISTICS**

- 1. Motor Design : Reliable Capacitor Motor Construction**
- 2. Insulation Resistance : 500Megohms minimum at 500 VDC**
- 3. Dielectric Strength : 1500 VAC for one minute**
- 4. Motor Protection : Thermal Protected 110°C**
- 5. Noise Level : Measured in a semi-anechoic chamber  
with background noise level below 15  
dB(A). The fan is running in free air with  
microphone at a distance of one meter  
from the fan intake.**
- 6. Air Performance : Measured by a double chamber. The  
Value are recorded when the fan speed is  
Stable at rated voltage.**
- 7. Tolerances : ±10% on rated power and current.**

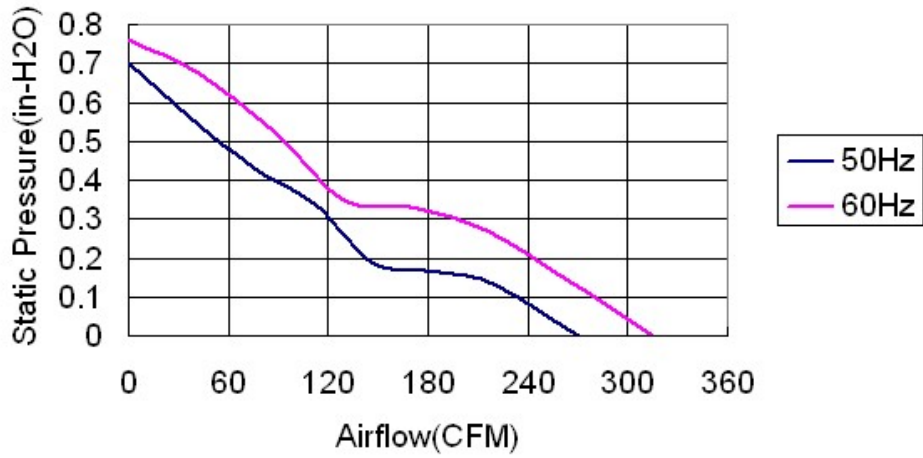
## SPECIFICATIONS

**Model: P2189HBT**

<b>1. Rated Voltage</b>	<b>:</b>	<b>230VAC 50/60Hz</b>
<b>2. Operating Voltage Range</b>	<b>:</b>	<b>180~250VAC</b>
<b>3. Starting Voltage</b>	<b>:</b>	<b>150VAC</b>
<b>4. Rated Speed(±5%)</b>	<b>:</b>	<b>2850/3350 rpm</b>
<b>5. Airflow</b>	<b>:</b>	<b>458/534 m<sup>3</sup>/h</b>
<b>6. Static Pressure</b>	<b>:</b>	<b>0.7/0.85 in-H<sub>2</sub>O</b>
<b>7. Rated Current</b>	<b>:</b>	<b>0.11/0.16 A</b>
<b>8. Power</b>	<b>:</b>	<b>25/34 W</b>
<b>9. Noise</b>	<b>:</b>	<b>63/67 dB</b>
<b>10. Direction of Rotation</b>	<b>:</b>	<b>Counter-clockwise viewed front fan blade</b>
<b>11. Connect</b>	<b>:</b>	<b>Terminals(3±0.1mm 2 pin 110 male terminal)</b>
<b>12. Operating Temperature</b>	<b>:</b>	<b>-10 to +70Deg.C</b>
<b>13. Bearing System</b>	<b>:</b>	<b>Ball System</b>
<b>14. Weight</b>	<b>:</b>	<b>1960g</b>
<b>15. Storage temperature/humidity</b>	<b>:</b>	<b>+25~+70Deg.C / 0~45%</b>
<b>16. Operating humidity</b>	<b>:</b>	<b>0 ~ 70%</b>
<b>17. Power wire</b>	<b>:</b>	<b>20 AWG</b>
<b>18. Life expectancy in normal environment use</b>	<b>:</b>	<b>20000 hours</b>

# PERFORMANCE 50/60Hz

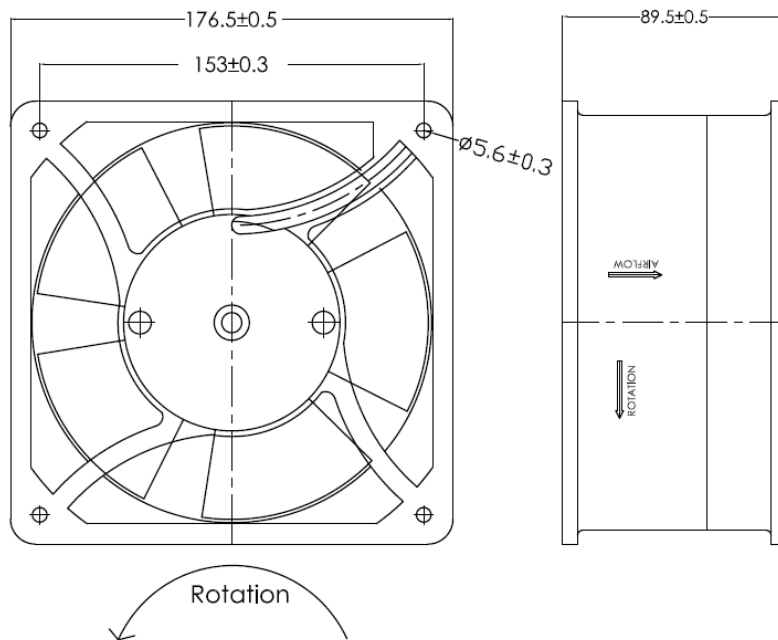
P-Q Curve



## MATERIAL

1. Frame	:	DIE-CAST ALUMINUM
2. Impeller	:	Plastic

## DIMENSIONS



Unit: mm

## **Notes**

- 1. The suitability of the motor for use when exposed to water, oil, and chemicals, x-rays ,ultraviolet rays and the like have not been determined.**
- 2. Plastic fan have been proved that don't suit to use UV environment, but steel fan could.**
- 3. The acceptability of the motor leads and terminal assembly should be determined for each application with regard to wire size, temperature limitation and other particular aspects which might be required in the end product.**
- 4. No guarantee on the products against the safety problem or failure caused by power dust, drop of water or insect.**
- 5. Always ensure that fans are stored according to the storage temperature specified. Do not store in an environment with a high humidity level. If the fans were stored for longer than 6 months.**
- 6. Fan must be securely and adequately grounded. This can be accomplished by connecting a separate ground wire to the fan frame with a self-threading screw (not furnished) in the hole provided.**
- 7. Protect the power cable from coming in contact with sharp objects.**
- 8. Lock and tag power disconnect to prevent unexpected application of power.**
- 9. Refer to Profan Catalog or label for a complete list of cordset. Plug cordset into fan and connect to 115 volt or 230 volt power source.**
- 10. Make certain that the power source conforms to the requirements of your equipment.**
- 11. Profan axial fan are designed to mount in vertical and horizontal direction only. Arrows stamped on housing indicate direction of blade rotation and airflow.**
- 12. Capacitor starting fan don't suit to use on welding machine.**
- 13. Product has one year limited warranty.**