

# BA8060-E

BA8060H01B-E-Unintergrated



## Features:

- 110 VAC rated input
- An external drive is required
- High efficiency three-phase brushless DC motor
- Environmentally friendly materials

## Advantages:

- High pressure 13646pa
- All aluminum material
- High temperature resistance
- Anti-corrosion
- waterproof
- High reliability
- Compact mini
- Low inertia

## Applications:

- Vacuum system
- Air cushion machine
- Seafood transporter
- Pressure bed
- Lampblack exhaust system
- 3D Printer
- Medical equipment
- High voltage low noise applications

The TKFAN-BA8060B-E blower is equipped with a three-phase brushless DC motor and integrates high energy rare earth magnet technology to significantly improve the torque output efficiency; Frame and impeller are made of high-strength aluminum alloy, both lightweight and structural rigidity, more than 30% weight reduction than traditional steel, reduce the inertia load of equipment; Built-in high reliability ball bearing system, through precision machining and strengthening material technology, can withstand long-term high-speed operation of mechanical stress, extend the life cycle of equipment; With dust-proof and anti-corrosion treatment, to ensure stable operation in dust, wet and other complex environments.

With innovative technology and precision design at its core, TKFAN-BA8060B-E blower provides efficient and reliable airflow solutions for industrial and commercial applications. By integrating cutting-edge powertrains and optimized aerodynamics, the product achieves superior performance output in a compact volume, making it ideal for high-density Spaces and demanding environments.

## 1 .Technical Data

Electrical	Unit	Value
Dimension	[Mm]	86X83X68
Voltage Range	[V <sub>ac</sub> ]	110
Rated Voltage	[V <sub>ac</sub> ]	90 to 130
Rated Current	[A]	1.7
Rated Power	[W]	155
Rated Speed	[rpm/min]	45000
Static Pressure (When Air Flow= 0)	[Pa]	13646
Air Flow (In Free Air)	[l/min]	665.3

## Environmental

Ambient temperature(operating)	[°C]	-40 to 60
Ambient temperature(storage)	[°C]	-40 to 60
Relative humidity(noncondensing)	[% RH]	10 to 85
Waterproof level		IP68
Maximumoxygen concentration	[% ]	N/A

## Motor

Type		Brushless direct current motor
Winding insulation class		F, 155 °C
NTC type		N/A

## Lifetime

L10 at 25 °C ambient temperature	[h]	10000
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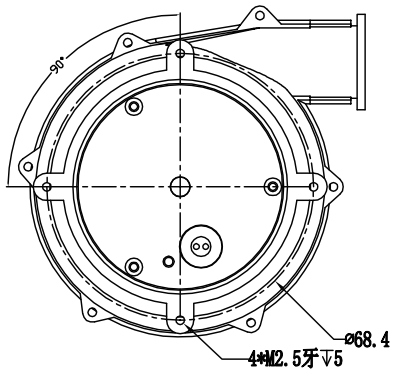
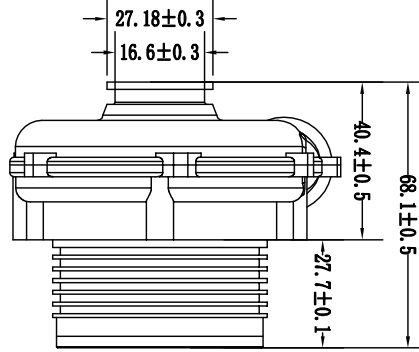
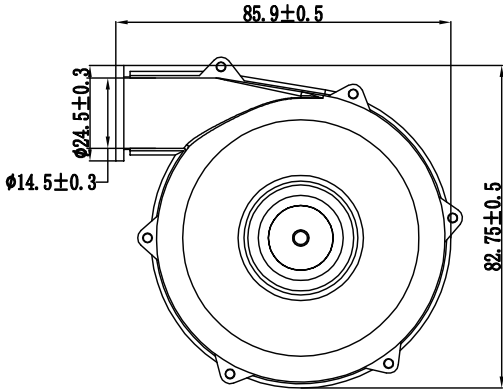
## Noise

Sound pressure level	[dB-A]	87.7
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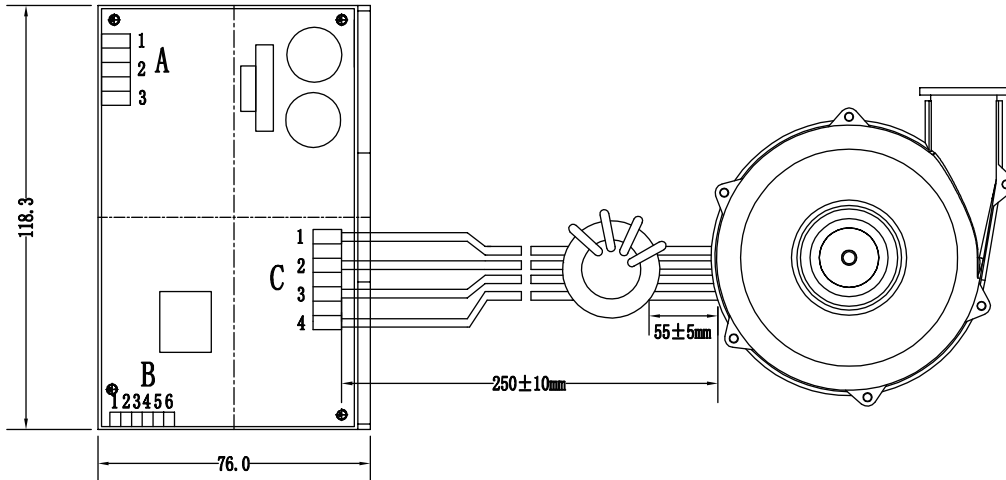
## Mechanical

Blower weight	[g]	626.5
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## 2 .Mechanical Structure Diagram



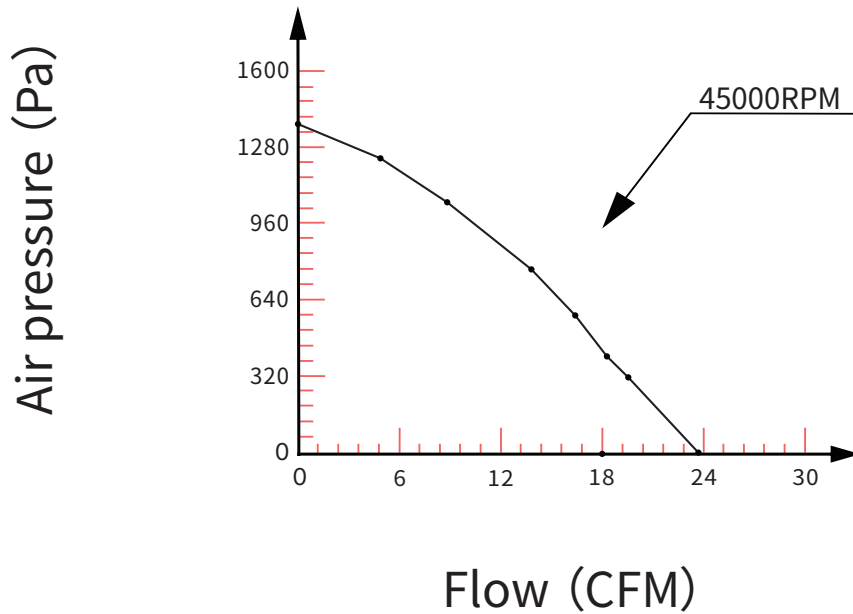
### 3. Electrical Connection Diagram



Wire model	Wire Number	Colour	Function
A UL1332 #20AWG OR	1	PE	
	2	Black	ACL
	3	Black	ACN
B UL1007 #24AWG OR	1		+5V
	2		VSP
	3		SGND
	4		EN
	5		NC
	6		FG
C UL3239 #20AWG OR	1	Red	MG
	2	Black	U
	3	Black	V
	4	Black	W

## 4 .P-Q Data and Curve

### 4.1 PQ Curve

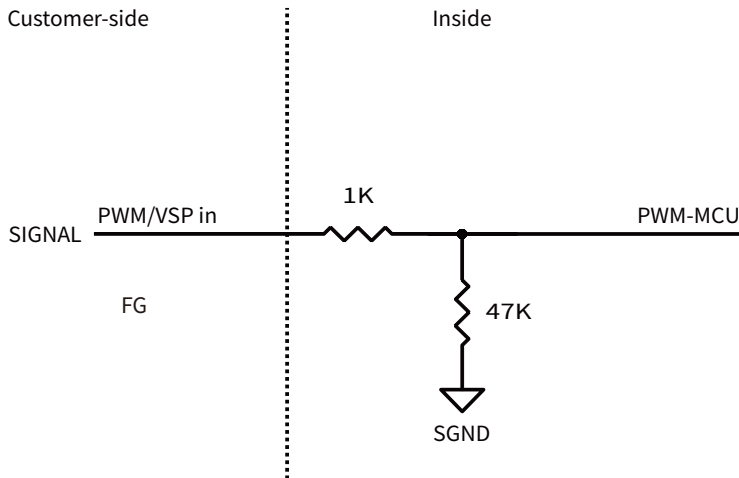


### 4.2 PQ Data

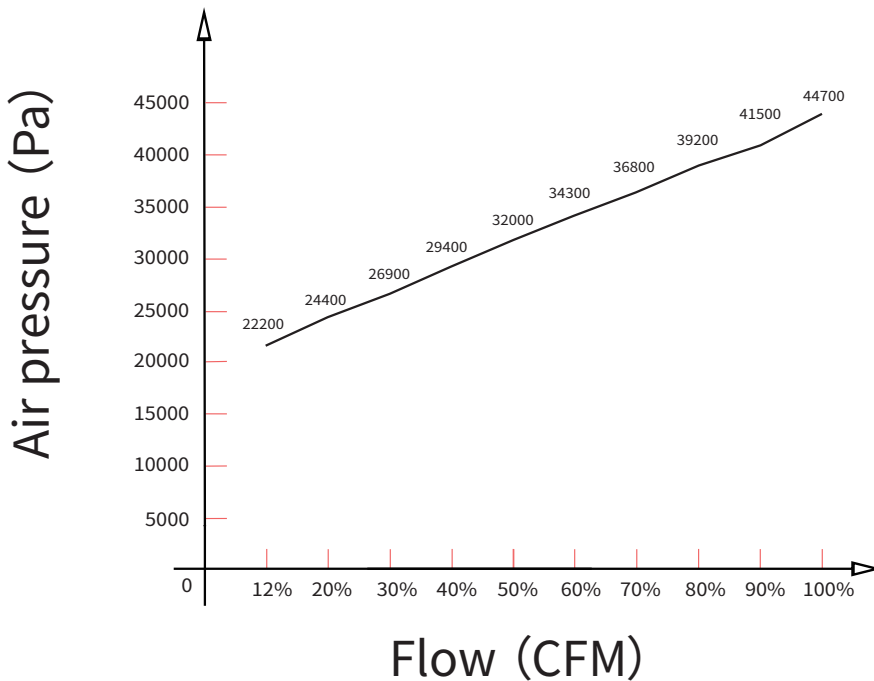
NO.	mmAq	CFM	A	Watt
1	1364.6	0.01		
2	1232.75	4.75		
3	1045.5	8.82		
4	761	13.68		
5	565	16.34		
6	411.5	18.14		
7	311	19.57		
8	0	23.5		

## 5. PWM Curve

### 5.1 PWM Connecting Diagram

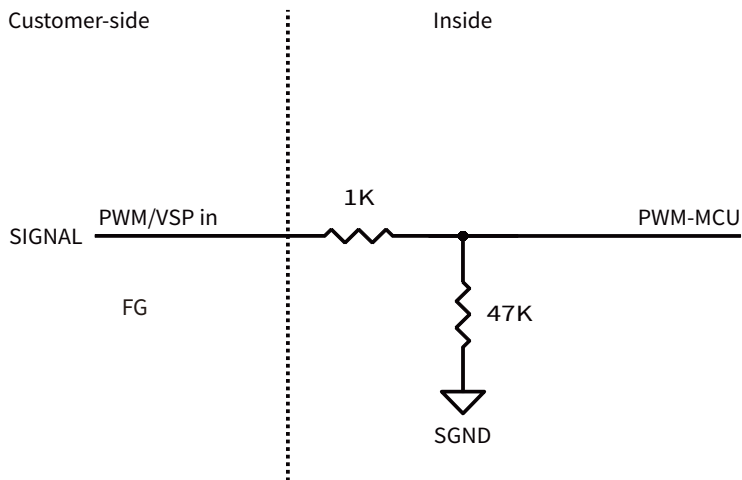


### 5.2 PWM data curve

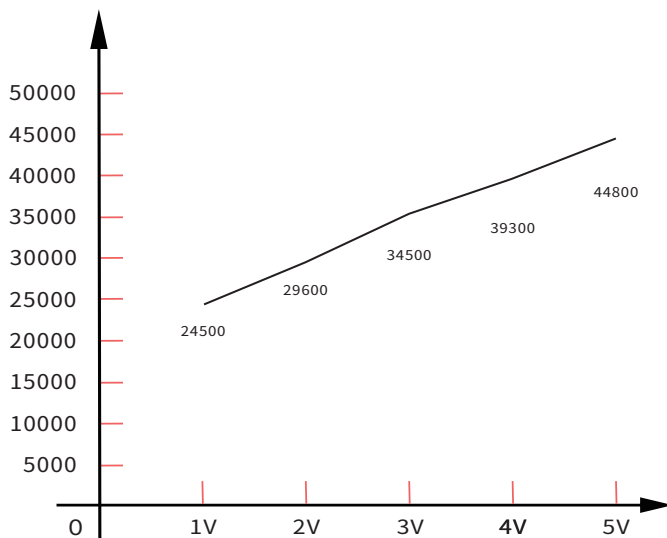


## 6. 6. 0-5V Speed Control

### 6.1 5V Connetcting Diagram

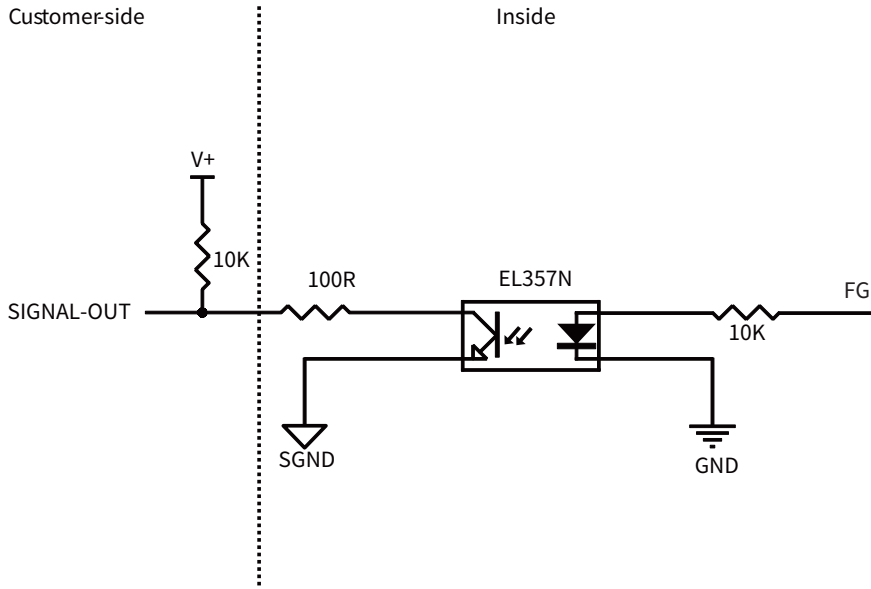


### 6.2 0-5V data curve

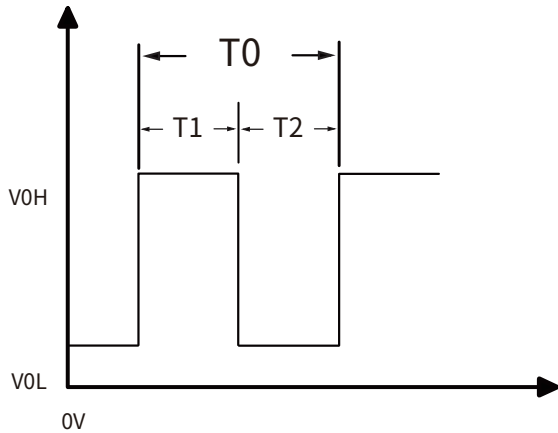


## 7 . FG Speed Feedback Diagram

### 7.1 Signal output diagram

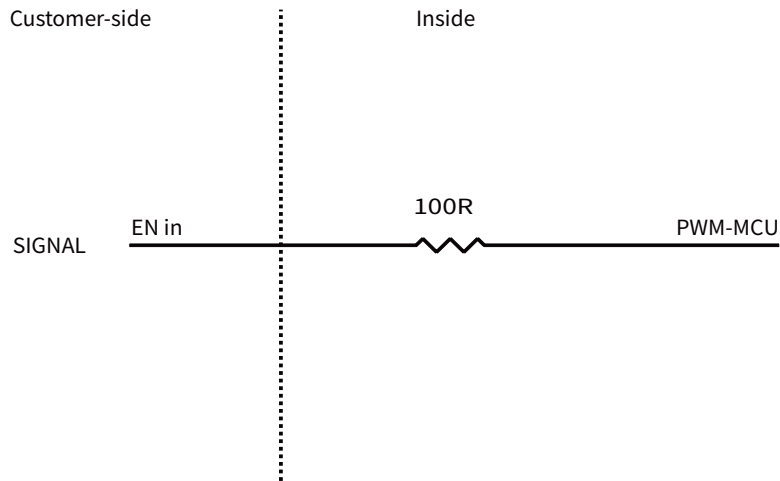


### 7.2 Rotational speed frequency

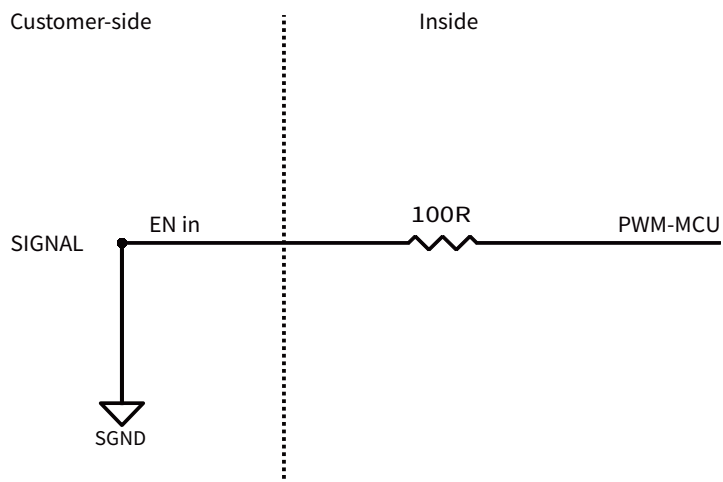


## 8 . The EN signal controls the operation

### 8.1 Blower control is available when EN in is high level or disconnected



### 8.2 Blower will be stop working when EN signal in is low level



## 9. Temperature Test Report

NC

## 10. Related Products

Model	Dimension	Voltage	RPM	Air Flow	Air Pressure	Watt

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However, to ensure that you can smoothly find the relevant person in charge and receive timely reception, it is recommended that you make an appointment in advance by phone or email.