

The Krube logo is located in the top left corner, enclosed in a white circle with a blue border. The logo itself consists of the word "krube" in a bold, lowercase, sans-serif font, with a small orange and blue graphic element to the right of the 'e'.

krube

SPECIFICATION

MODEL
K-DC280-R48-27Y

1.General Specification

| NO. | Item | Specification | Condition |
|-----|-------------------------|---|--|
| 1 | Model No. | K-DC280-R48-27Y | |
| 2 | Outline Dimension | 280mm | |
| 3 | Rated Voltage | 48VAC | |
| 4 | Rated Current | 9A±10% | At Rated Voltage, 25°C, 65% RH, Free Air |
| 5 | Power Consumption | 432W±10% | |
| 6 | Rotating Speed±10% | 2760RPM±5% | |
| 7 | Max Airflow±10% | 3250m ³ /h | At Rated Voltage AMCA-210-99 Standard |
| 8 | Max Static Pressure±10% | 940Pa | |
| 9 | Noise Level | 80dB(A) | |
| 10 | Operation mode | S1 continuous working system | |
| 11 | No. of Pole | 3 Poles | |
| 12 | Rotating Direction | From the rotor end, rotate clockwise | |
| 13 | Structure type | Outer Rotor | |
| 14 | Motor Type | DC Brushless | |
| 15 | Balance | G6.3 | |
| 16 | Life L10 at 25°C | Greater than 20000/hrs (Ordinary Humidity) | |
| 17 | Insulation | Class B | |
| 18 | Weight | 3.14kg | |

2.Main Materials/Parts Specification

| | Materials/Parts | Specification |
|---|-----------------|---|
| 1 | Housing | / |
| 2 | Impeller | Galvanized sheet |
| 3 | Bearing | NMB/NSK 6001 Z |
| 4 | Lead Wire | Red(+), Blue(GND-) Yellow (PWM0-10VDC), White(FG) |
| 5 | Connector | N/A |

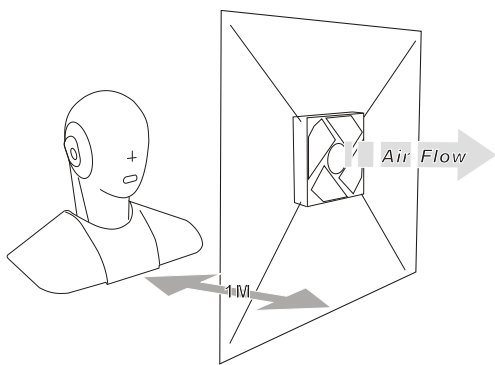
3.Electrical Specification

| | Item | Specification/Condition |
|---|-------------------------|---|
| 1 | Locked Rotor Protection | 1.Auto power off after locked at rated voltage for 1 sec. |
| | | 2.After auto power off, circuit attempt to restart in 2-6 sec. |
| 2 | Polarity Protection | Open circuit when Vcc& GND are exchanged. |
| | | Circuit won't be burned within 5 seconds when Vcc& GND are exchanged. |
| 3 | Insulation Resistance | 10MΩ/Between unshielded wire and frame at 500VDC/min |
| 4 | Dielectric Strength | 5 mA Max./Measured between lead wire(+) and frame at 500 VAC/mint |

4.Environmental Specification

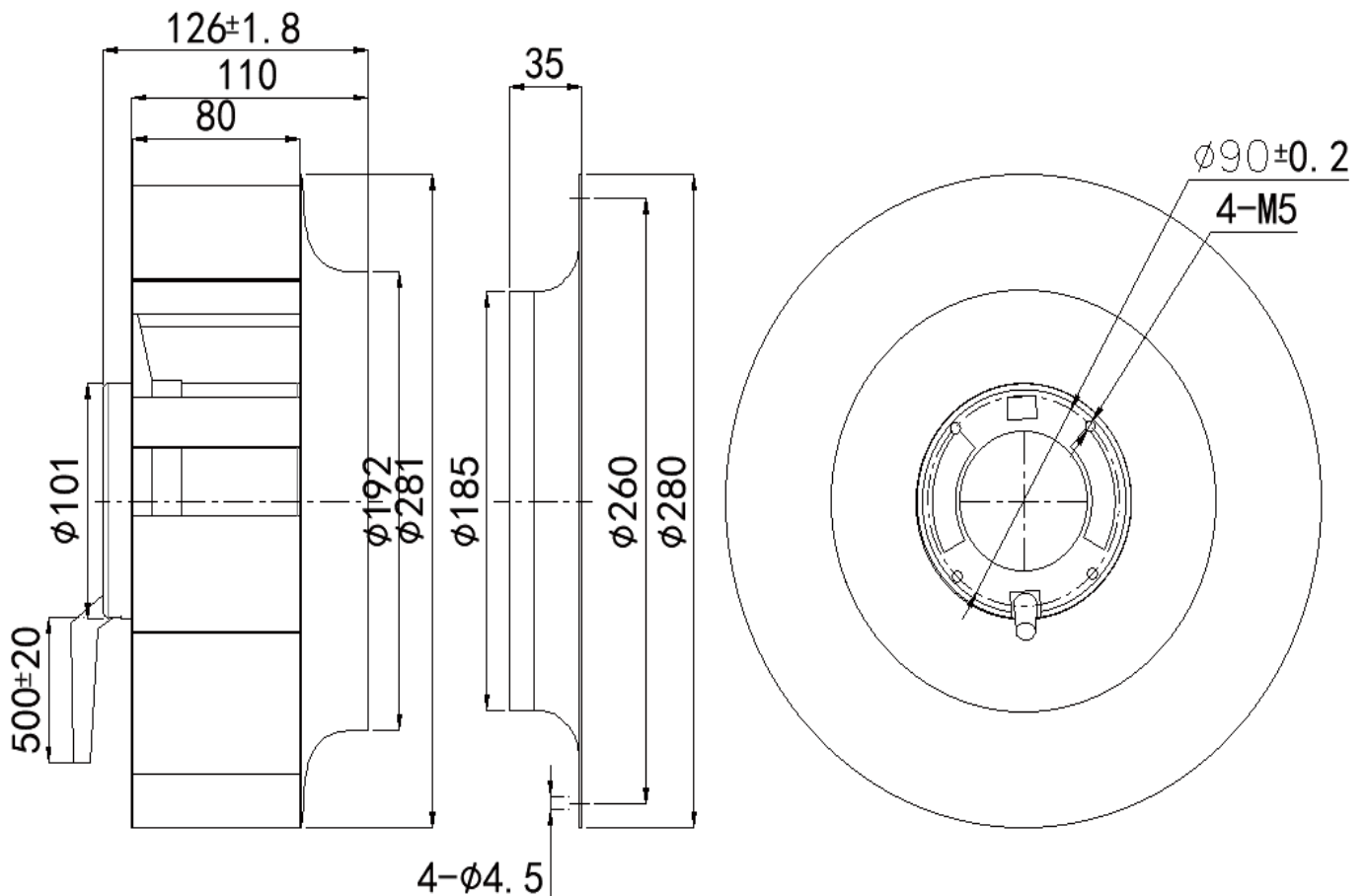
| Item | Specification/Condition |
|-------------------------|-------------------------------|
| 1 Operating Temp. Range | -20°C~+60°C (normal humidity) |
| 2 Storage Temp. Range | -20°C~+60°C (normal humidity) |

5.Noise Measure Condition

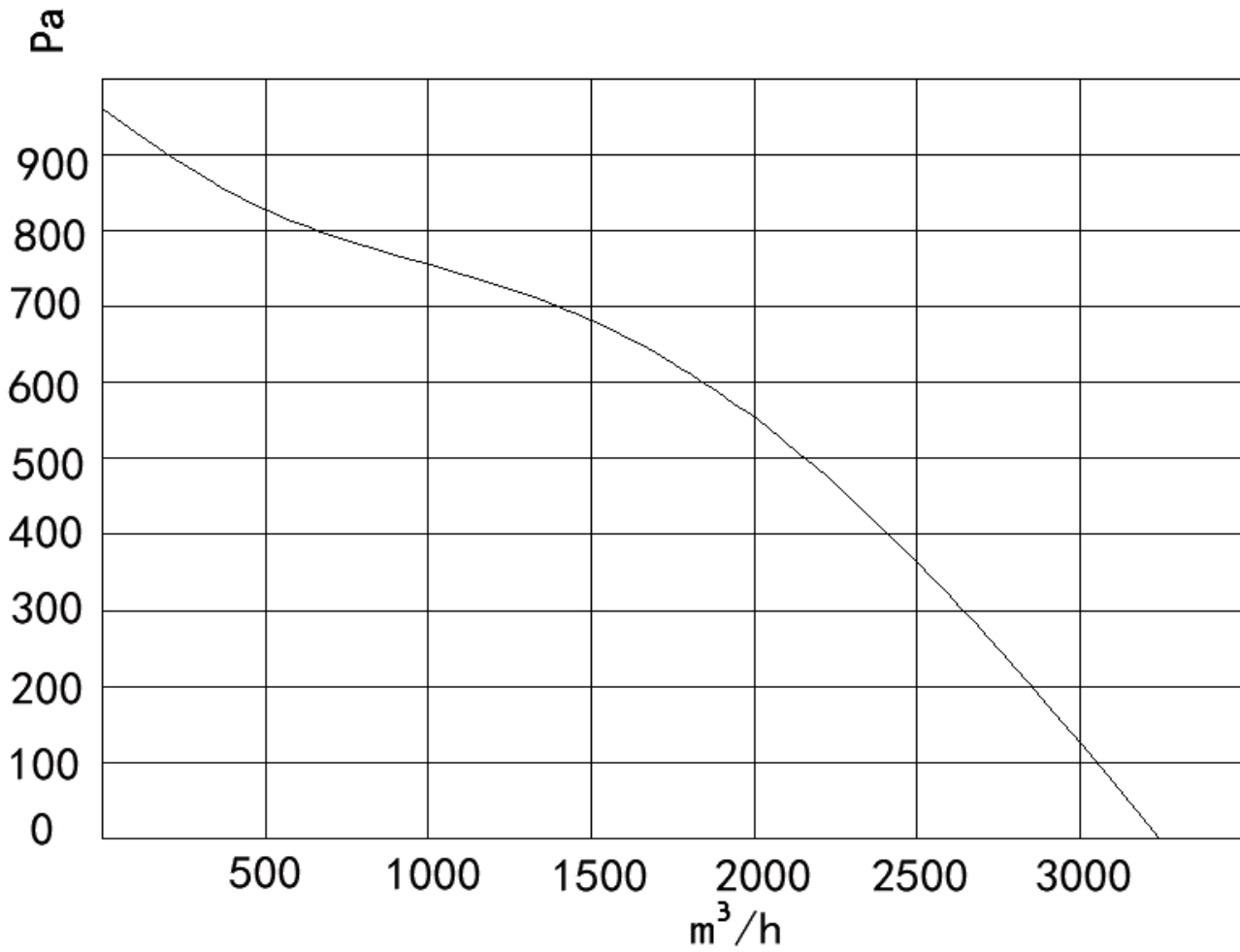


| Measurement Systems |
|---|
| 1.ANECHOIC Room Noise Measurement System. |
| 2.Digital Head Measurement System, 16-bits version. |
| 3.SQlab III, Mobile Multichannel Analysis System. |
| 4.Specifications:ISO 3744, ISO 3745, ISO 7779, CNS 6753, JIS 8346 |
| 5.Background Noise: < 17dB(A) |

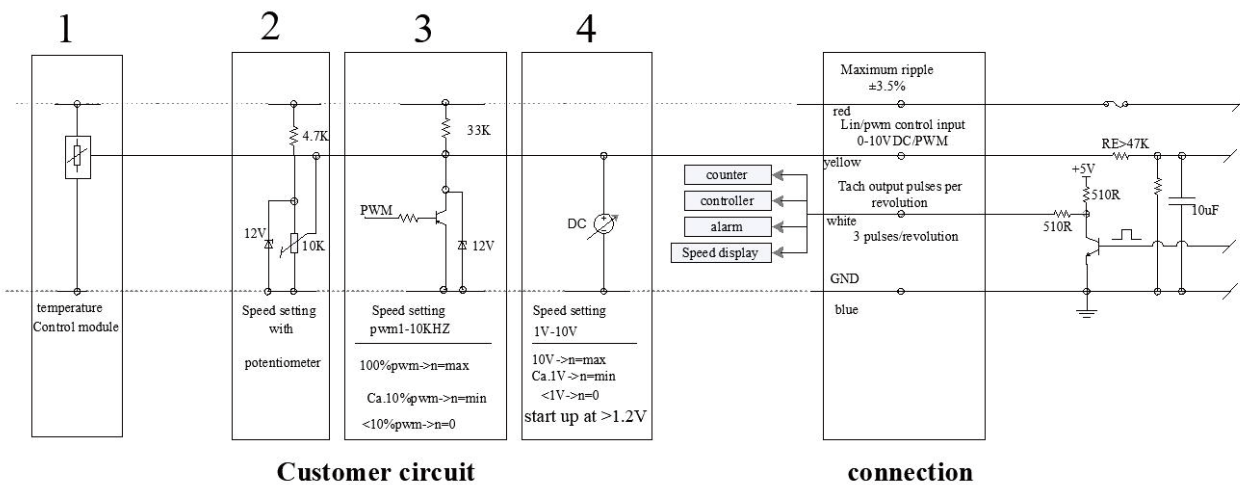
6.Outline Dimension (Unit:mm)



7. Airflow Performance



8. Connection



10.Notes

10-1.Please do not touch and push Fan Blade with fingers or others, fan blade and bearings may be damaged and it causes noise defect.

10-2.Do not carry the fan by its lead wires.

10-3.Please don't install this fan in series with 2x voltage inputs. For example, if a single fan rated at 115VAC (12VDC), then don't install two of them in series with 230VAC (24VDC) input.

10-4.Fans are not suitable to be used in an environment that contains aggressive or corrosive fluids.

10-5.Always ensure that fan is stored according to the storage temperatures specified. Do not store in an environment with a high humidity level. If the fans were stored for longer than 6 months,it is highly recommended to apply functional testing before shipping.

10-6.During installation, caution should be taken when mounting the fan. Incorrect mounting can cause excess resonance, vibration and noise.

10-7. During testing it is important to consider safety at all times. A suitable guard should be fitted to the fan to prevent personal injury.

10-8.Unless otherwise stated, all tests are carried out at relative temperature and humidity conditions of 25°C, 65%RH.