

SPECIFICATION FOR APPROVAL

CUSTOMER

:

DESCRIPTION

: DC BRUSHLESS FAN

DIMENSIONS

25X25X10 mm

MODEL

KDE0502PFB3-8(V)

APPROVED NO

APPROVED BY

(AUTHORIZED)



DAWN. CHKD. Minjul APPD. APPD. SISSUE DATE 03.19.1998 EDITION 0 REVISE DATE F. SPEC. F. D. 25044							SPEC. NO.	D250116
REVISE DATE	DAWN.	1/ Ja~ 8 снк		minjue	APPD.	Jako	ISSUE DATE	03.19.1998
REVISE DATE			CHKD.				EDITION	0
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E.SFEC ED25044		,					E.SPEC	ED25044

建準電機工業股份有限公司

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.

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DC BRUSHLESS FAN

MODEL: KDE0502PFB3-8(V)

CHARACTERISTICS

1. Motor Design

Patented single-coil DC brushless 8 poles motor

design.

2. Insulation Resistance

More than 500M ohm between internal stator and

lead wire(+) measured by DC 500V.

3. Dielectric Strength

Applied AC 500V for one minute or AC 600V for

2 seconds between housing and lead wire(+)

4. Noise Level

Measured in an 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.

5. Input power, Current & Speed

Measured after continuous 30 minutes

operation at rated voltage in clean air

at ambient temperature of 25 degrees C.

6. Tolerances

±15% on rated power and current.

7. Motor Protection

8. Air Performance

: Locked rotor protected.

Measured by a double chamber. The value are recorded when the fan speed is stabilized

at rated voltage.

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SPECIFICATIONS

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1-1. Rated Voltage : 5 VDC

1-2. Operating Voltage Range : 4-6 VDC

1-3. Starting Voltage : 4 VDC

1-4. Speed (Reference Value) : 6500 RPM

1-5. Air Delivery : 1.83 CFM

1-6. Static Pressure : 0.09 Inch-H2O

1-7. Rated Current : 0.06 AMP

1-8. Rated Power : 0.3 WATTS

1-9. Noise Level : 23 dB(A)

1-10. Direction of Rotation : Counter-clockwise viewed front fan blade

1-11. Operating Temperature : -10 to +70 Deg.C

1-12. Storage Temperature : -40 to +70 Deg.C

1-13. Bearing System : Precise ball bearing system

1-14. Weight : 7g

1-15. Vibration



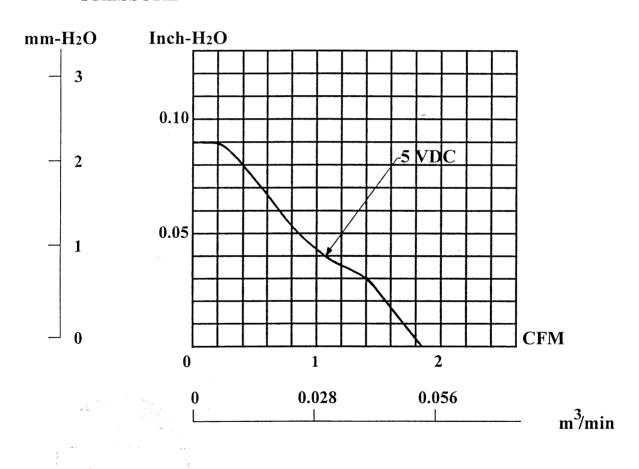
Vibration of acceleration 1.5G and frequency 5~50~5Hz is applied in the 3 directions(X,Y,Z) for 30 minutes, each direction at the cycle of 1 minute.

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MODEL: KDE0502PFB3-8(V)

PERFORMANCE CURVES

STATIC PRESSURE



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MATERIAL

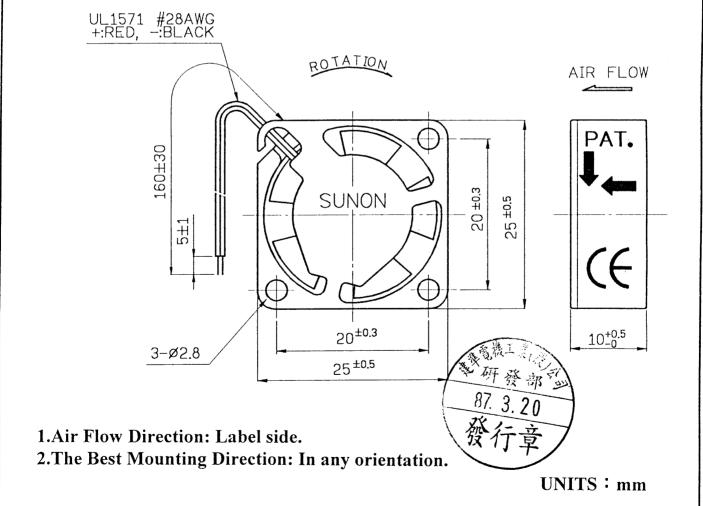
2-1. Frame : Thermoplastic PBT of UL 94V-0

2-2. Impeller : Thermoplastic PBT of UL 94V-0

2-3. Bobbin : Thermoplastic PBT of UL 94V-0

2-4. Lead Wire : UL1571,28AWG,+RED;-BLACK

DIMENSIONS



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Notes

- 1. SUNON will not guarantee the products if the application of our products is exceeded the limitation which is specified on this specification.
- 2. In case of change of the specification specified on this document, a written notice is requested in advance.
- 3. Please do not touch the impeller with pressure and never bring the fan with lead wire. The bearings and lead wire may be damaged.
- 4. No guarantee on the products against the safety problem or failure caused by powder dust, drop of water or insect.
- 5. If there is any data or related documentation different from this data sheet, this data sheet is the principal reference.
- 6. For the purpose of MIS, please indicate SPEC No. on every order.
- 7. In case of the fan has no polarity protection function, wires with same color (electrode) must be connected together during the assembly. (i.e. red + red, black + black) or the fan will be damaged immediately.
- 8. Please do not use the fan in the environment of corrosive gas or liquid or any detrimental gas.
- 9. Please do not store the fan in the environment of high / low temperature, high humidity or any detrimental gas. Please store the fan within 6 months, every 6 months, there shall be a linkage of electric current to the fan, even though the fan is stored in room temperature.
- 10. While the fan is in operation, please do not lock the fan intentionally for a long period of time, since the continuous stoppage will result in over-heat and thus burn-out of the fan.
- 11. During the installation of the fan, please pay substantial attention to possible noise cause by resonance vibration and vibration.

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