



SPECIFICATION FOR APPROVAL

CUSTOMER	:	
DESCRIPTION	:	DC BRUSHLESS FAN
DIMENSIONS	:	20X20X8 mm
M O D E L	:	KDE0501PDB1-8(2)(V)
APPROVED NO	:	
APPROVED BY	:	
(AUTHORIZED)		

DAWN.	Yuchen 8/27	CHKD.		APPD.		SPEC.NO	D200097
						ISSUE DATE	08.27.1998
						EDITION	0
						REVISE DATE	
						E.SPEC	ED10040
建準電機工業股份有限公司 SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. 12FL., 120 CHUNG CHENG 1ST RD., TEL:886-7-7163069(41 LINES) KAOHSIUNG, TAIWAN, R. O. C. FAX:886-7-7163086~89							

DC BRUSHLESS FAN
MODEL: KDE0501PDB1-8(2)(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	:	Locked rotor protected.
8. Air Performance	:	Measured by a double chamber. The value are recorded when the fan speed is stabilized at rated voltage.

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SPECIFICATIONS

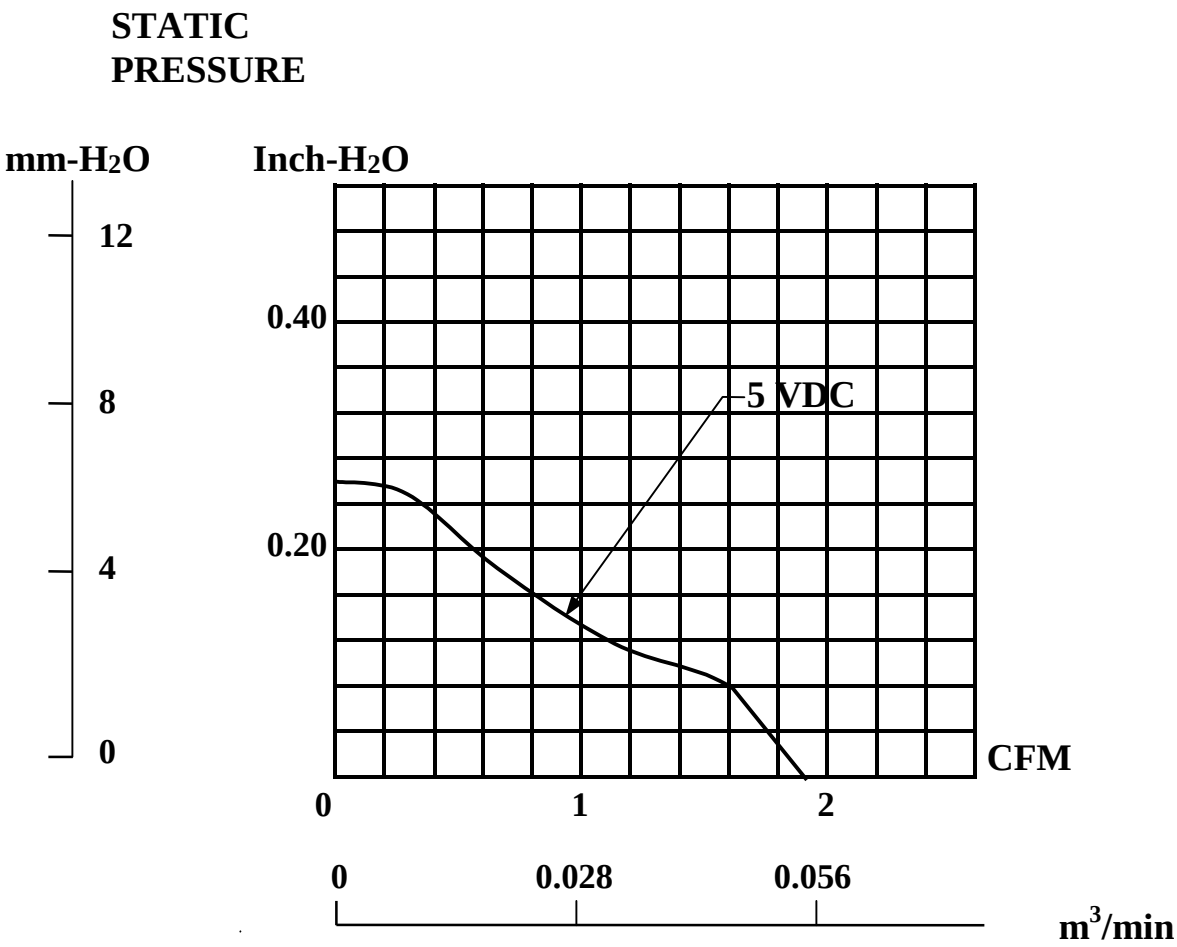
MODEL: KDE0501PDB1-8(2)(V)

- 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)
- :
- 15000 RPM
- 1-5. Air Delivery
- :
- 1.9 CFM
- 1-6. Static Pressure
- :
- 0.26 Inch-H₂O
- 1-7. Rated Current
- :
- 0.20 AMP
- 1-8. Rated Power
- :
- 1.0 WATTS
- 1-9. Noise Level
- :
- 29 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
- :
- 5g
- 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 : KDE0501PDB1-8(2)(V)

PERFORMANCE CURVES



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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

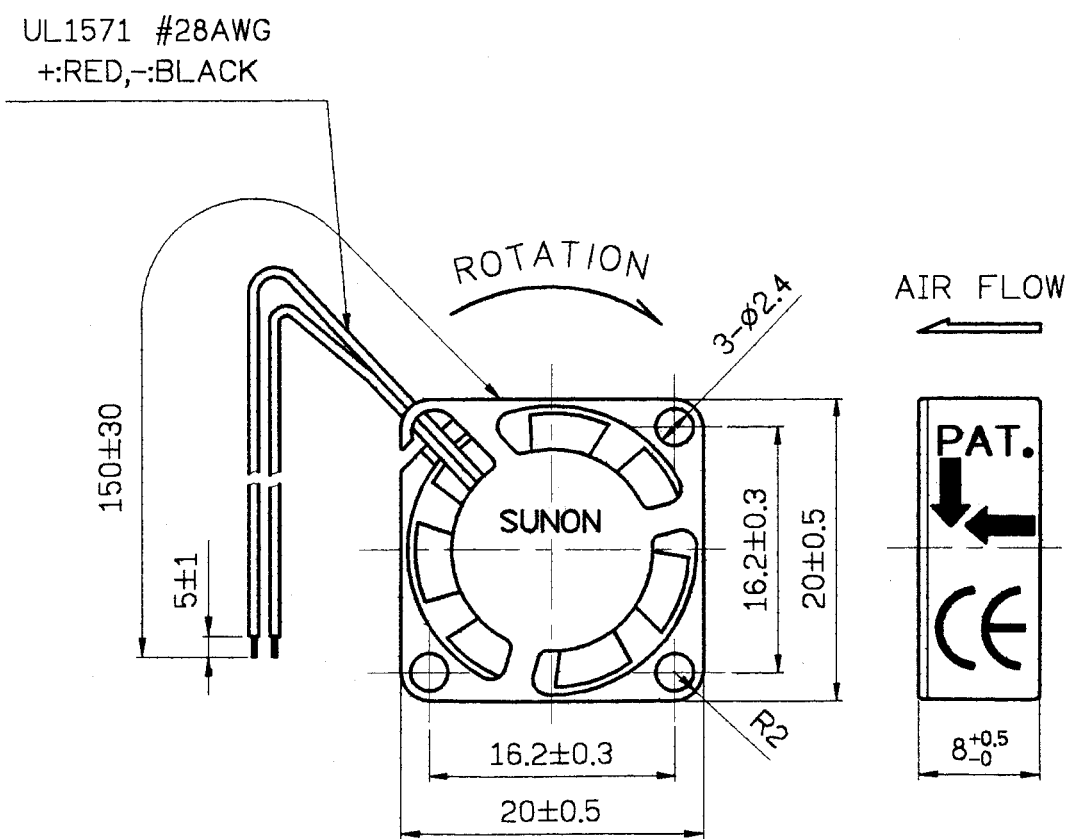
:

Thermoplastic PBT of UL 94V-0
- 2-4. Lead Wire

:

UL1571,28AWG,+RED;-BLACK

DIMENSIONS



- 1.One directional exhaust
- 2.The Best Mounting Direction: Fan blade face up or shaft horizontal direction.

UNITS : mm

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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.
- 12. During the testing of the fan, please be sure to use finger guard to insure safety.

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