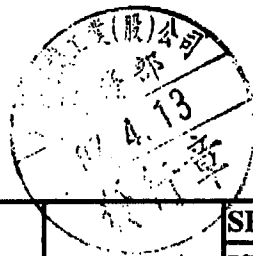




SUNON

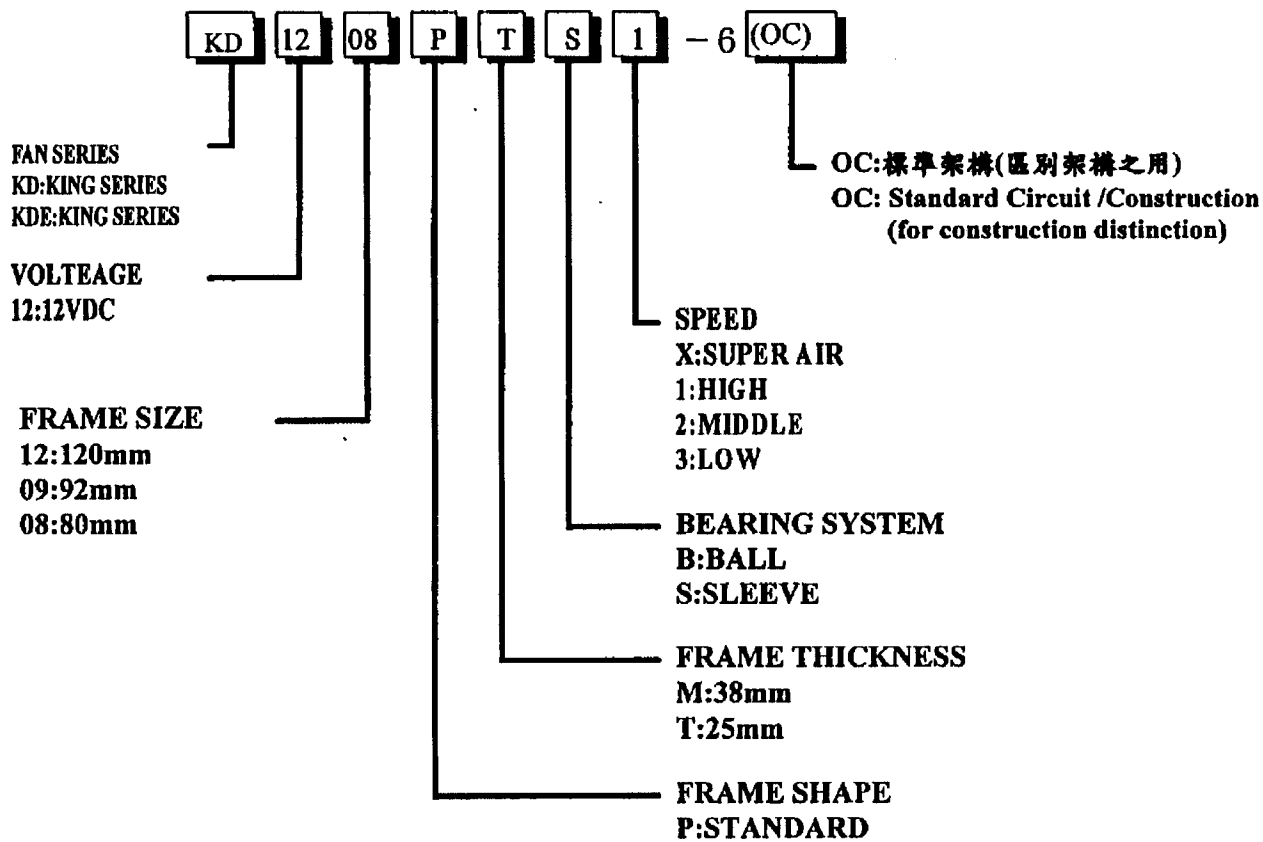
SPECIFICATION FOR APPROVAL

CUSTOMER :  
DESCRIPTION : DC BRUSHLESS FAN  
DIMENSIONS : 80X80X25 mm  
MODEL : KDE1208PTB1-6(OC)  
APPROVED NO :  
APPROVED BY :  
(AUTHORZIED)



|                                                                                                                                                                                       |                   |       |                  |       |                    |             |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|------------------|-------|--------------------|-------------|------------|
| DAWN.                                                                                                                                                                                 | <i>Yuhon 3/10</i> | CHKD. | <i>Peter 3/1</i> | APPD. | <i>[Signature]</i> | SPEC. NO.   | D800615    |
|                                                                                                                                                                                       |                   |       |                  |       |                    | ISSUE DATE  | 03.30.1998 |
|                                                                                                                                                                                       |                   |       |                  |       |                    | EDITION     | 0          |
|                                                                                                                                                                                       |                   |       |                  |       |                    | REVISE DATE |            |
|                                                                                                                                                                                       |                   |       |                  |       |                    | E.SPEC      | ED80139    |
| 建準電機工業股份有限公司<br>SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.<br>12FL., 120 CHUNG CHENG 1ST RD., TEL:886-7-7163069(41 LINES)<br>KAOHSIUNG, TAIWAN, R. O. C. 12 FAX:886-7-7163086~89 |                   |       |                  |       |                    |             |            |

# MODEL NUMBERING SYSTEM



DC BRUSHLESS FAN  
MODEL: KDE1208PTB1-6(OC)

CHARACTERISTICS

1. Motor Design

: Patented single-coil DC brushless 6 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

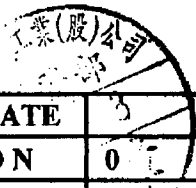
: Measured in an semi-an echoic chamber with background noise level below 15 dB(A). The fan is running in free air with microphone at a distance of one meter from the fan intake.
5. Input power, Current & Speed

: 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

: Polarity protected & 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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|                                                                   | ISSUE DATE | 03. 30. 1998 | EDITION     | 0 |
|                                                                   | PAGE       | 2 OF 6       |             |   |

**SPECIFICATIONS****MODEL: KDE1208PTB1-6(OC)**

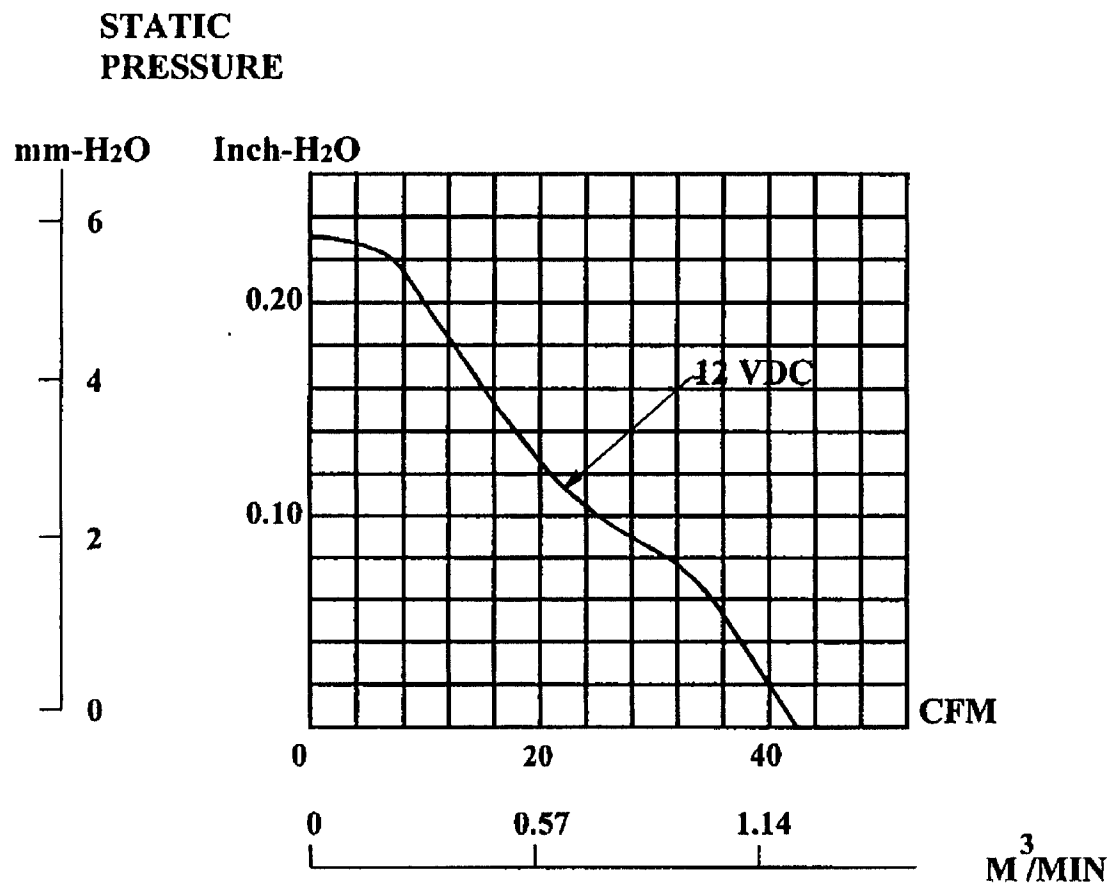
- 1-1. Rated Voltage : 12 VDC
- 1-2. Operating Voltage Range : 5-13.8 VDC
- 1-3. Starting Voltage : 4.5 VDC (POWER ON/OFF)
- 1-4. Rated Speed : 3200 RPM  $\pm$  250 RPM
- 1-5. Air Delivery : 42.5 CFM
- 1-6. Static Pressure : 0.23 Inch-H<sub>2</sub>O
- 1-7. Rated Current (MAX.) : 0.22 AMP
- 1-8. Rated Power (MAX.) : 2.6 WATTS
- 1-9. Noise Level : 36.5 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 : 123g
- 1-15. Safety : UL/CUR/TUV Approvals
- 1-16. 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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MACHINE INDUSTRY CO., LTD.

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| SPEC. NO.  | D800615      | REVISE DATE |      |
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MODEL : KDE1208PTB1-6(OC)

PERFORMANCE CURVES

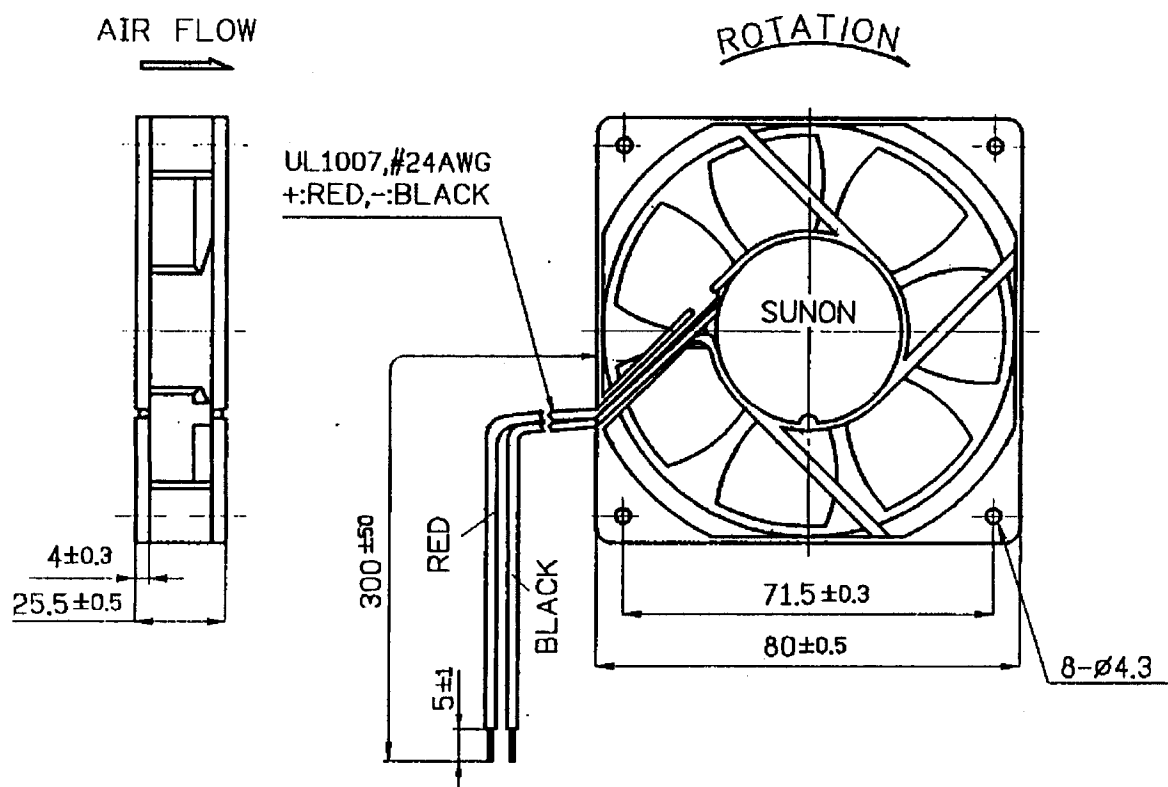


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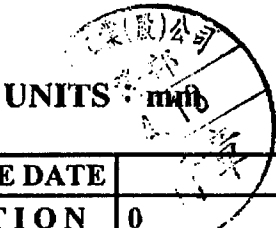
MATERIAL

- 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 : UL1007,24AWG,+RED;-BLACK

DIMENSIONS



- 1.Air Flow Direction: Label side.
- 2.The Best Mounting Direction: In any orientation.



|                                                                    |            |              |             |   |
|--------------------------------------------------------------------|------------|--------------|-------------|---|
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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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