SUNON

SPECIFICATION FOR APPROVAL

Customer

•

Motor type

MAGLev® Fan & Blower by SUNON

Description

: MagLev Motor Fan

Dimensions

: 60X60X25 mm

Model

: KDE2406PTV2

P/N

: 13.MS.A.GN

Customer App. P/N

: D06020290-00

Approval No.

:

Approved By

. .

(Authorized)

			n - 9/			SPEC.NO	D06020290
	Hanna		Muna M			ISSUE DATE	07.29.2004
DRAWN	7/29	CHECKED	.01	APPROVED	(X)	EDITION	0
	1720		99 36		1, 19	REVISION DATE	
			K/A		/ W M	E.SPEC	EM60210

|建準電機工業股份有限公司

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.

12FL., 120 CHUNG CHENG 1ST RD., KAOHSIUNG, TAIWAN, R. O. C. 2

TEL:886-7-7163069(41 LINES)

FAX:886-7-7163086~89

93. 09. 16

發行章

DC BRUSHLESS FAN

MODEL: KDE2406PTV2

P/N :

: 13.MS.A.GN

CHARACTERISTICS

1. Motor Design : DC brushless 4 pole motor design.

2. Insulation Resistance : More than 10M ohm between internal stator and

lead wire(+) measured at 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 a semi-anechoic chamber

with background noise level below 15

dB(A). The fan is running in free air with the

microphone at a distance of one meter

from the fan intake.

5. Input Power, Current & Speed : Measured after continuous 10 minute

operation at rated voltage in clean air, and

at ambient temperature of 25 degrees C.

6. Tolerance : ±15% on rated power and current.

7. Air Performance : Measured by a double chamber. The values

are recorded when the fan speed has stabilized

at rated voltage.

建準電機工業股份有限公司	
SUNONWEALTH ELECTRIC	
MACHINE INDUSTRY CO., LT	D

SPEC.NO	D06020290	REVISION DATE
ISSUE DATE	07. 29. 2004	EDITION
PAGE	2 OF 8	

SPECIFICATIONS

MODEL: KDE2406PTV2

P/N : 13.MS.A.GN

1-1. Rated Voltage : 24 VDC

1-2. Operating Voltage Range : 11~27.6 VDC

1-3. Starting Voltage : 10 VDC (25 deg. C POWER ON/OFF)

1-4. Rated Speed : 3800 RPM ± 10 %

1-5. Air Delivery : 20 CFM

1-6. Static Pressure : 0.17 Inch-H₂O

1-7. Rated Current : 0.06 AMP

1-8. Rated Power : 1.4 WATTS

1-9. Noise Level : 27 dB(A)

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

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

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

1-13. Bearing System : Vapo bearing system

1-14. Weight : 73 g

1-15. Safety : UL/CUR/TUV/CE Approvals

1-16. Vibration : Vibration of acceleration 1.5G and

frequency 5~50~5Hz is applied in all

3 directions(X,Y,Z), in cycles of 1 minute each,

for a total vibration time of 30 minutes.

1-17. Locked Rotor Protection : Automatic Restart Capability

Note: In a situation where the fan is locked by an external force while the electricity is on, an increase in coil temperature will be prevented by temporarily turning off the electrical power to the motor. The fan will automatically restart when the locked rotor

condition is released.

建準電機工業股份有限公司	SPEC.NO	D06020290	REVISION DATE
SUNONWEALTH ELECTRIC	ISSUE DATE	07. 29. 2004	EDITION Z
MACHINE INDUSTRY CO., LTD.	PAGE	3 OF 8	

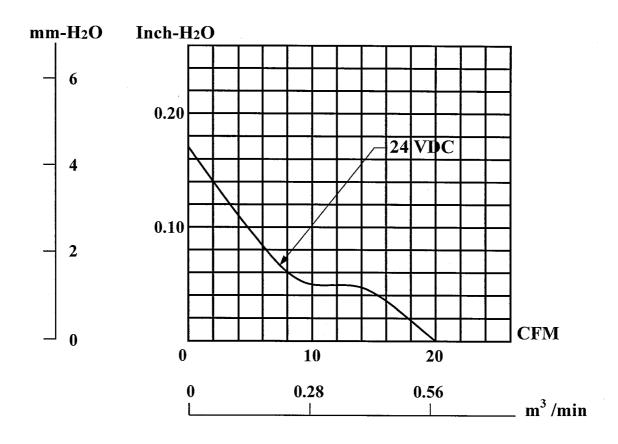
發行章

MODEL: KDE2406PTV2

P/N : 13.MS.A.GN

PERFORMANCE CURVES

STATIC PRESSURE



建準電機工業股份有限公司	SPEC.NO	D06020290	REVISION DATI	高 教工来(教)
SUNONWEALTH ELECTRIC	ISSUE DATE	07. 29. 2004	EDITION	劉研發部
MACHINE INDUSTRY CO., LTD.	PAGE	4 OF 8		93. 09. 16

發行章

MATERIAL

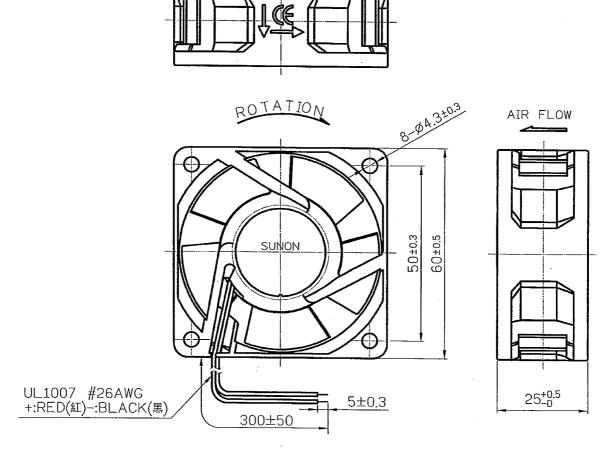
2-1. Frame : Thermoplastic PBT of UL 94V-0

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

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

2-4. Lead Wire : UL1007,26 awg,+RED, -BLACK

DIMENSIONS



1. Air Flow Direction: Toward label side.

2. Best Mounting Direction: Any orientation.

UNITS: mm

SUNONWEALTH ELECTRIC ISSUE DATE 07. 29. 2004 E D I T I O N	學0叶發哥	1
MACHINE INDUSTRY CO., LTD. PAGE 5 OF 8	93. 09. 16	1

Notes

I . Safety

- 1.SUNON will not guarantee this product if your application exceeds the limitations outlined in this specification.
- 2. There is no thermo-protector installed in this product, such as thermo-fuse, or current-fuse or thermo-protector. There may be smoking, ignition, or electric shock by insulation degradation in cases of motor lock, motor lead short circuit, overload, over voltage, and/or other failure. Please add the protection circuit to your product.
- 3. There is no reverse-connection prevention diode of VDC (+) and GND (-) installed in this product. Therefore, if VDC(+) and GND(-) are reverse connected, it may cause smoking, ignition, and/or destruction, although these conditions may not manifest immediately. We recommend that a protection device be installed on your product when there is a possibility of reverse-connection.
- 4. Please verify that this product is being installed and used in compliance with all safety standards. Please inform SUNON of any safety concerns prior to releasing your product to production.
- 5. Please handle and install this product carefully. Hitting or dropping this product may cause damage.
- 6.Please do not damage this product including coil and lead wires while installing or wiring. There may be smoking or fire.

建準電機工業股份有限公司
SUNONWEALTH ELECTRIC
MACHINE INDUSTRY CO., LTD.

SPEC.NO	D06020290	REVISION DATE	多横工
ISSUE DATE	07. 29. 2004	EDITION	新研 發
PAGE	6 OF 8		93.09

Notes

- ${\rm I\hspace{-.1em}I}$. Specification modification
 - 1.SUNON offers engineering assistance on fan installation and cooling system design.
 - 2. Any change to the parameters specified in this document will be determined by mutual agreement between both parties. Parameters which are not specified in this specification will be identical to the final sample which has been approved by your company.
 - 3. Product will be shipped in accordance with this specification unless SUNON has been previously notified of parameters requiring exception.
 - 4. Parameters modified by mutual consent will be incorporated in this specification.
 - 5.Please notify SUNON in advance of any modification to your product or new application for this fan which may require a review of this specification.

準電機工業股份有限公司	
NONWEALTH ELECT	RIC
ACHINE INDUSTRY CO	O., LTD.

SPEC.NO	D06020290	REVISION DATE	6
ISSUE DATE	07. 29. 2004	EDITION A	$\hat{0}$
PAGE	7 OF 8		

Notes

III . Other

- 1. When building your device, please examine thoroughly any variation of EMC, temperature rise, life data, quality, etc. of this product by shock/drop/vibration testing, etc. If there are any problems or accidents in connection with this product, it should be mutually discussed and examined.
- 2. Fan holders or bearings may be damaged if touched with fingers or other objects. Additionally, static electricity (ESD) may damage the internal circuits. Please handle this product carefully.
- 3.Please avoid operating SUNON's product in poisonous material (organic silicon, cyanogens, formalin, phenol, etc.) or corrosive gas environments (H2S, SO2, NO2, Cl2, etc).
- 4.SUNON does not warrant performance safety against accidents caused by dust, water, droplets, dew, bugs, etc.
- 5. Please advise us in advance if you require documents for export.
- 6.Improper mounting may cause harsh resonance, vibration, and noise. Please mount securely.
- 7. Safety is a top priority. Please furnish guard accessories to prevent injury to personnel.
- 8.Unless otherwise noted, all tests are conducted at 25°C ambient temperature and 65% relative humidity.
- 9. Always ensure that fans are stored according to the storage temperatures specified. Do not store in a high humidity environment. If the fans are stored for more than 6 months, SUNON recommends functional testing before using.
- 10.SUNON reserves the right to use components with equivalent specifications from multiple sources.

建準電機工業股份有限公司		
SUNONWEALTH ELECTRIC		
MACHINE INDUSTRY CO., LTD.		

SPEC.NO	D06020290	REVISION DATE
ISSUE DATE	07. 29. 2004	EDITION
PAGE	8 OF 8	· · · · · · · · · · · · · · · · · · ·

