

SPECIFICATION FOR APPROVAL

CUSTOMER

DESCRIPTION

DC BRUSHLESS FAN

DIMENSIONS

120X120X38 mm

MODEL

KD1212PMBX-6A(F)

APPROVED NO

APPROVED BY

(AUTHORIZED)

		1				SPEC.NO	D120307
			n		<i>,</i> 7	ISSUE DATE	11.04.1998
DAWN. 7	Yuchen 11/4	CHKD.	leter 1/4	APPD.	Just)	EDITION	0
	·		7 +0 1000 /	(11/2/18	REVISE DATE	
				1	/	E.SPEC	ED13074

|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. #2

FAX:886-7-7163086~89

DC BRUSHLESS FAN MODEL: KD1212PMBX-6A(F)

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.

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

		1 K III 10 - 37
SPEC.NO	D120307	REVISE DATE
ISSUE DATE	11. 04. 1998	EDIT 0 10 1 13
PAGE	2 OF 8	(

SPECIFICATIONS

MODEL: KD1212PMBX-6A(F)

1-1. Rated Voltage

: 12 VDC

1-2. Operating Voltage Range

10.2-13.8 VDC

1-3. Starting Voltage

8 VDC

1-4. Rated Speed

: 3150 RPM ± 250 RPM

1-5. Air Delivery

: 120 CFM

1-6. Static Pressure

: 0.34 Inch-H₂O

1-7. Rated Current

0.63 AMP

1-8. Rated Power

: 7.6 WATTS

1-9. Noise Level

 $46.5 \, \mathrm{dB(A)}$

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

: 323g

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

展工業(1)

Direction at the cycle of 1 minute.

1-17. Locked Rotor Protection

: Automatic Restart Capability

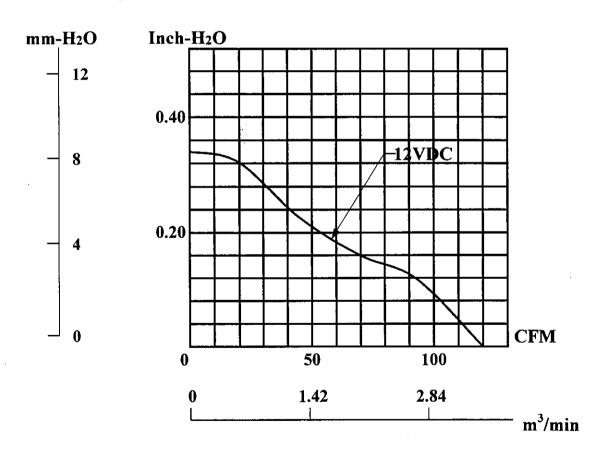
建準電機工業股份有限公司
SUNONWEALTH ELECTRIC
MACHINE INDUSTRY CO., LTD.

_			7-70-1-1 (01)
	SPEC.NO	D120307	REVISE DATE
	ISSUE DATE	11. 04. 1998	EDITION 0^{1}
•	PAGE	3 OF 8	0.11.13
_			

MODEL: KD1212PMBX-6A(F)

PERFORMANCE CURVES

STATIC PRESSURE



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

			N.I.	業(股)
SPEC.NO	D120307	REVISE	PATE 3	本部 9
ISSUE DATE	11. 04. 1998	EDIT	FO.V	913
PAGE	4 OF 8	\\	KI.	二五
			375	777 7

MATERIAL

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

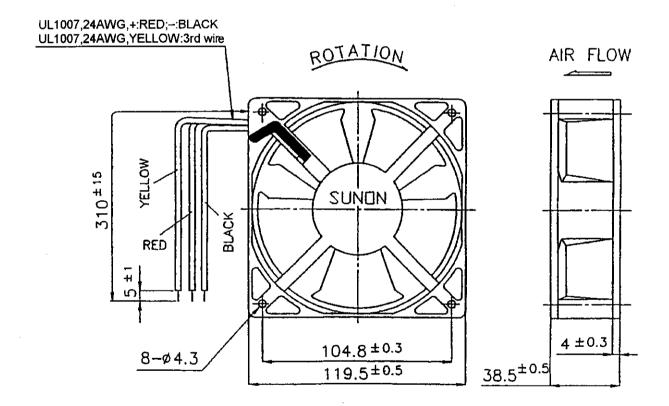
2-2. Impeller : Thermoplastic PBT of UL 94V-0

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

2-4. Lead Wire : UL1007,24AWG,+RED;-BLACK

UL1007,24AWG,YELLOW:3rd wire

DIMENSIONS



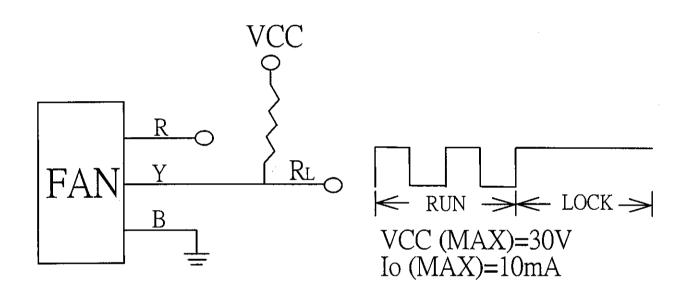
1.Air Flow Direction: Label side.

2. The Best Mounting Direction: In any orientation.

建準電機工業股份有限公司	SPEC.NO	D120307	REVISE DATE	旗八
SUNONWEALTH ELECTRIC	ISSUE DATE	11. 04. 1998	EDITION	0
MACHINE INDUSTRY CO., LTD.	PAGE	5 OF 8		

ΔV	1 +	2.0	OV	N	ORM		S	М
					•			
							•	
-1-1-1-	-1-1-1-1-1							
					•			
P.×	5 V							

			The bott is
建準電機工業股份有限公司	SPEC.NO	D120307	REVISE DATE: 11 13
SUNONWEALTH ELECTRIC	ISSUE DATE	11. 04. 1998	EDITION OF 单
MACHINE INDUSTRY CO., LTD.	PAGE	6 OF 8	第1



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

SPEC.NO	D120307	REVISE DATE
ISSUE DATE	11. 04. 1998	EDITION OF
PAGE	7 OF 8	

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.

建準電機工業股份有限公司	SPEC.NO	D120307	REVISE DATE
SUNONWEALTH ELECTRIC	ISSUE DATE	11. 04. 1998	EDITION 0 13
MACHINE INDUSTRY CO., LTD.	PAGE	8 OF 8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1