SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER	:	
DESCRIPTION	:	DC BRUSHLESS FAN
DIMENSIONS	:	80X80X25 mm
M O D E L	:	EE80251S1-000U-A99
SUNON SPEC. NO.	:	D08037110G-00
CUSTOMER APPROVAL NO.	:	
APPROVED BY CUSTOMER (AUTHORIZED)	:	

DRAWN	Anita 7/4	CHECKED	Kiddy March	APPROVED	Meijung	SPEC.NO	D08037110G-00
						ISSUE DATE	01.19.2010
						EDITION	1
						REVISION DATE	07.04.2011
						E.SPEC	ED80278

建準電機工業股份有限公司
SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.
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FAX:886-7-8230505/8230606/8231010
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I. MODEL NUMBERING SYSTEM

EE 80 25 1 S 1 - 000U - A99

Series Code

Voltage

0: 5VDC
1: 12VDC
2: 24VDC
3: 36VDC
4: 48VDC

Speed

X:Super High
1: High
2: Medium
3: Low

Function Code

Customer Code

Bearing

V: Vapo
B: 2 Ball
O: 1Ball
S: Sleeve

Size

Thickness

編碼	尺寸(mm)	編碼	尺寸(mm)	編碼	尺寸(mm)	編碼	尺寸(mm)
01~09	01~09	A0~A9	100~109	K0~K9	200~209	V0~V9	300~309
10~19	10~19	B0~B9	110~119	L0~L9	210~219	W0~W9	310~319
20~29	20~29	C0~C9	120~129	M0~M9	220~229	X0~X9	320~329
30~39	30~39	D0~D9	130~139	N0~N9	230~239	Y0~Y9	330~339
40~49	40~49	E0~E9	140~149	P0~P9	240~249	Z0~Z9	340~349
50~59	50~59	F0~F9	150~159	Q0~Q9	250~259		
60~69	60~69	G0~G9	160~169	R0~R9	260~269		
70~79	70~79	H0~H9	170~179	S0~S9	270~279		
80~89	80~89	I0~I9	180~189	T0~T9	280~289		
90~99	90~99	J0~J9	190~199	U0~U9	290~299		

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II. SPECIFICATION

1. MECHANICAL CHARACTERISTIC

MOTOR DESIGN	2 phases, 4-poles Brushless DC motor
BEARING SYSTEM	Lubricated sleeve bearing system
DIMENSIONS	See Page 6
MATERIALS OF FRAME	Thermoplastic PBT of UL 94V-0
MATERIALS OF FAN BLADE	Thermoplastic PBT of UL 94V-0
DIRECTION OF ROTATION	Counter-clockwise viewed from front of fan blade
MOUNTING HOLES	Diameter 4.3 mm in 8 holes
WEIGHT	75 g

2. ELECTRIC CHARACTERISTIC

RATED VOLTAGE	12 VDC
RATED CURRENT	145 mA / Max. 167 mA
RATED POWER CONSUMPTION	1.7 WATTS / Max. 2.0 WATTS
OPERATING VOLTAGE RANGE	4.5~13.8 VDC
STARTING VOLTAGE	4.5 VDC (25 deg. C POWER ON/OFF)
OPERATING TEMPERATURE RANGE	-10 to + 70 deg. C
STORAGE TEMPERATURE RANGE	-40 to + 70 deg. C

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3. PERFORMANCE CHARACTERISTIC

RATED SPEED	**3200 RPM ± 10% at rated voltage**
AIR FLOW	**41 CFM**
STATIC PRESSURE	**0.18 Inch-H_2O**
ACOUSTIC NOISE	**33 dB(A)**
AIR FLOW V.S. PRESSURE	**See Page 5**
INSULATION CLASS	**UL Class A**
INSULATION RESISTANCE **PLASTIC HOUSING**	**10M ohm at 500 VDC between internal stator and lead wire (+)**
DIELECTRIC STRENGTH	**Applied AC 500 V for one minute or AC 600 V for 2 Seconds between housing and lead wire (+)**
LIFE EXPECTANCY	**35,000 Hours at 40 deg. C, 65% humidity, 90% CL.**
PROTECTION	☑**Automatic Restart** 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.
	☐**Polarity Protection**

4. SAFETY

SAFETY	UL	CUR	TUV
NO.	E77551	E77551	✓

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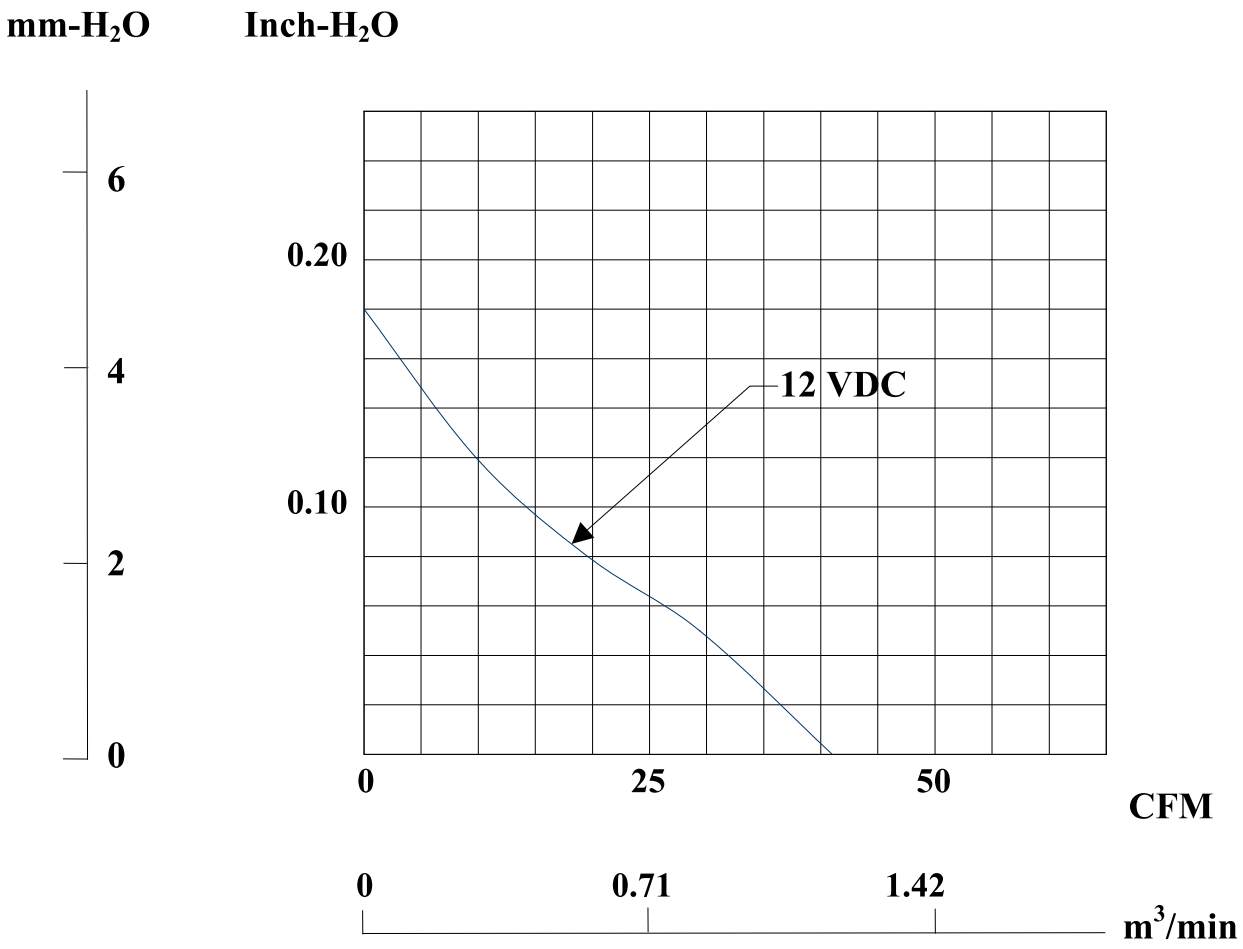
MODEL : EE80251S1-000U-A99

PERFORMANCE CURVES



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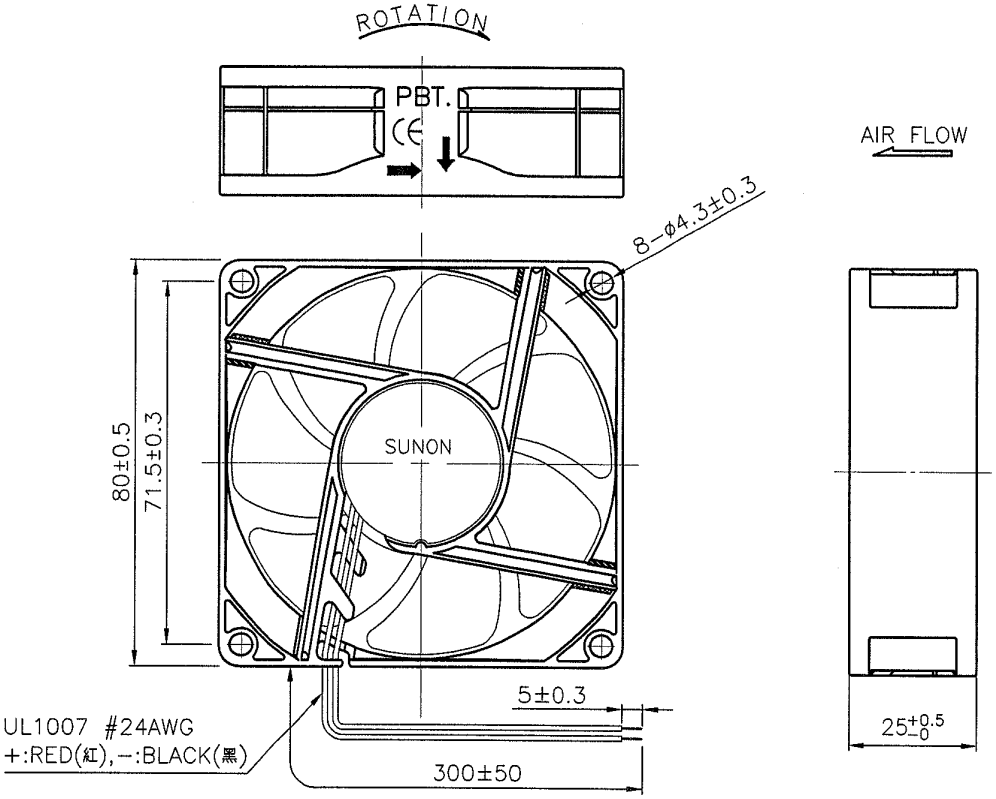
DIMENSIONS



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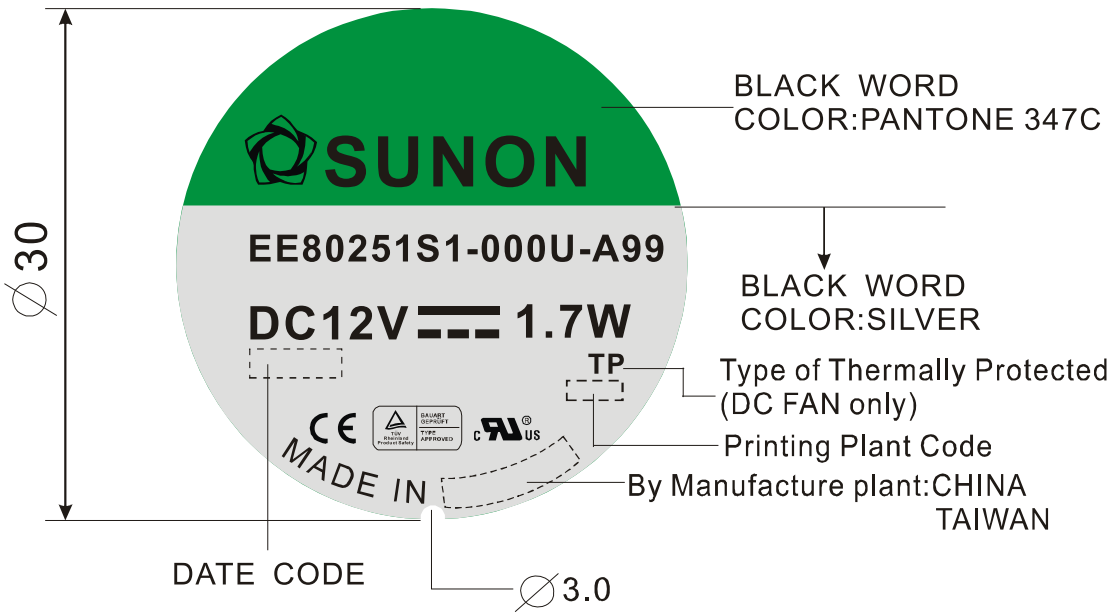
LABEL



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