


# SUNON

## SPECIFICATION FOR APPROVAL

**CUSTOMER** :

**MOTOR TYPE** : 

**DESCRIPTION** : **MagLev Motor Fan**

**DIMENSIONS** : **80X80X25 mm**

**M O D E L** : **PF80252V1-1000U-G99**

**SUNON SPEC. NO.** : **D08066620G-01**

**CUSTOMER APPROVAL NO.** :

**APPROVED BY CUSTOMER (AUTHORIZED)** :

DRAWN	Gill	CHECKED	Nancy	APPROVED	Smart	SPEC.NO	D08066620G-01
						ISSUE DATE	07.26.2017
						EDITION	1
						REVISION DATE	08.04.2021
						E.SPEC	E11600160

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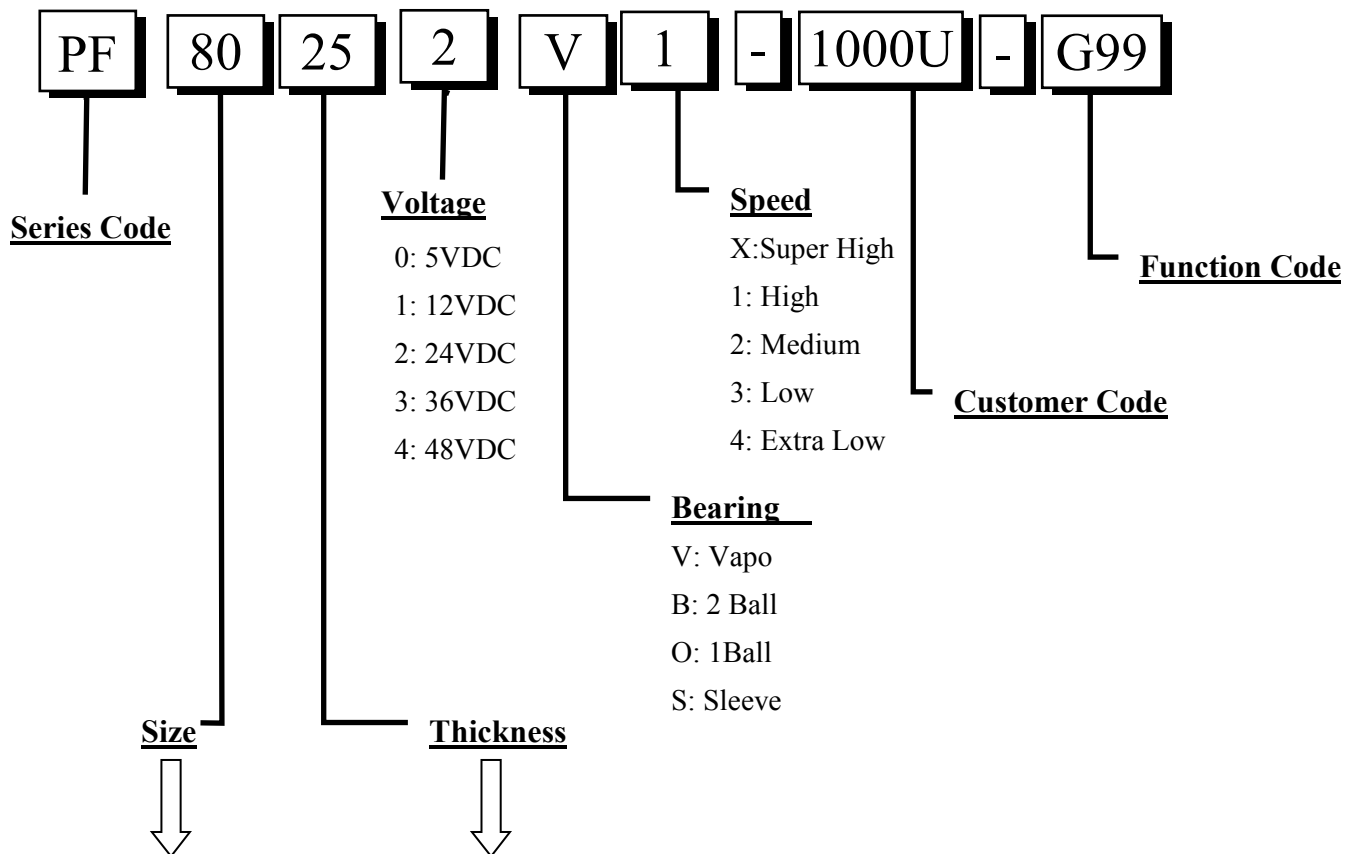
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# I. MODEL NUMBERING SYSTEM



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		



## II. SPECIFICATION

### 1. MECHANICAL CHARACTERISTIC

<b>MOTOR DESIGN</b>	Single phase, 4-poles Brushless DC motor
<b>BEARING SYSTEM</b>	Precise Vapo bearing system
<b>DIMENSIONS</b>	See Page 6
<b>MATERIALS OF FRAME</b>	Thermoplastic PBT of UL 94V-0
<b>MATERIALS OF FAN BLADE</b>	Thermoplastic PBT of UL 94V-0
<b>DIRECTION OF ROTATION</b>	Counter-clockwise viewed from front of fan blade
<b>MOUNTING HOLES</b>	Diameter 4.3 mm in 8 holes
<b>WEIGHT</b>	91 g

### 2. ELECTRIC CHARACTERISTIC

<b>RATED VOLTAGE</b>	24 VDC
<b>RATED CURRENT</b>	180 mA / MAX. 207 mA
<b>RATED POWER CONSUMPTION</b>	4.32 WATTS / MAX. 4.97 WATTS
<b>SAFETY POWER CONSUMPTION</b>	4.56 WATTS
<b>OPERATING VOLTAGE RANGE</b>	10 ~ 27.6 VDC
<b>STARTING VOLTAGE</b>	10 VDC (25 deg. C POWER ON/OFF)
<b>OPERATING TEMPERATURE RANGE</b>	-10 to + 70 deg. C
<b>STORAGE TEMPERATURE RANGE</b>	-40 to + 70 deg. C



### 3. PERFORMANCE CHARACTERISTIC

<b>RATED SPEED</b>	<b>4800 RPM ± 10% at rated voltage</b>
<b>AIR FLOW</b>	<b>60 CFM</b>
<b>STATIC PRESSURE</b>	<b>0.41 Inch-H<sub>2</sub>O</b>
<b>ACOUSTIC NOISE</b>	<b>44.7 dB(A)</b>
<b>AIR FLOW V.S. PRESSURE</b>	<b>See Page 5</b>
<b>INSULATION CLASS</b>	<b>UL Class A</b>
<b>INSULATION RESISTANCE PLASTIC HOUSING</b>	<b>10M ohm at 500 VDC between internal stator and lead wire (+)</b>
<b>DIELECTRIC STRENGTH</b>	<b>Applied AC 500 V for one minute or AC 600 V for 2 Seconds between housing and lead wire (+)</b>
<b>LIFE EXPECTANCY</b>	<b>70,000 hrs at 40 deg. C, 65% humidity, 90% CL.</b>
<b>PROTECTION</b>	<input checked="" type="checkbox"/> <b>Automatic Restart</b> Note: The motor will shut down when rotor was locked, then auto restart within 10 seconds.
	<input checked="" type="checkbox"/> <b>Polarity Protection</b>

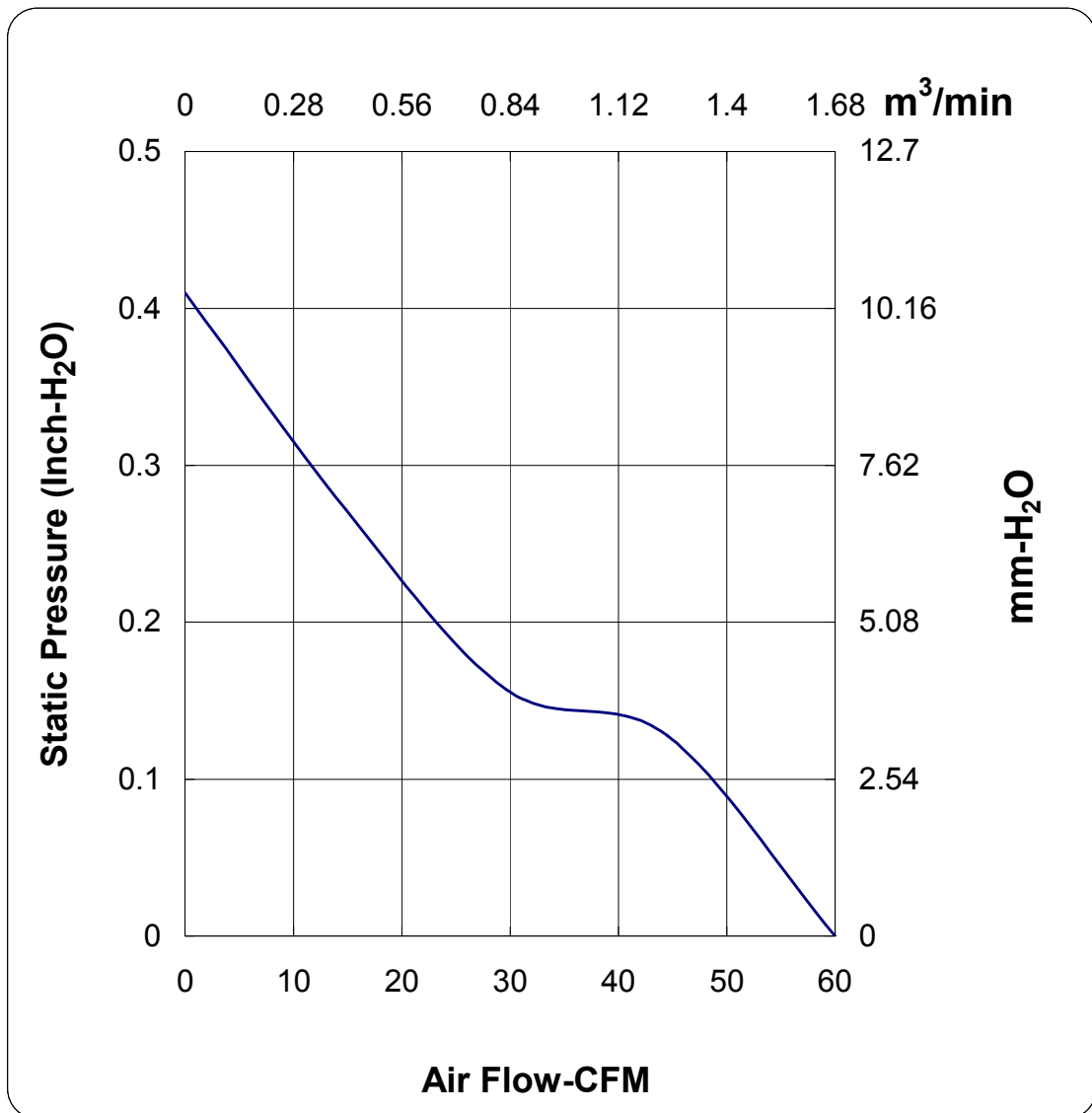
### 4. SAFETY

SAFETY	UL	CUR	TUV	CE	UKCA
NO.	E77551	E77551	✓	✓	✓



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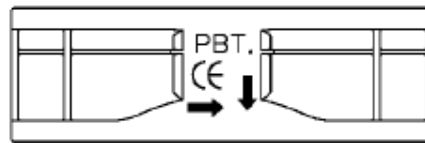
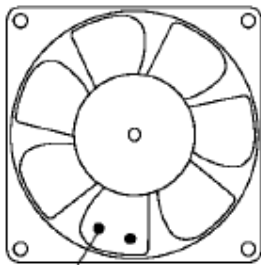
## PERFORMANCE CURVES



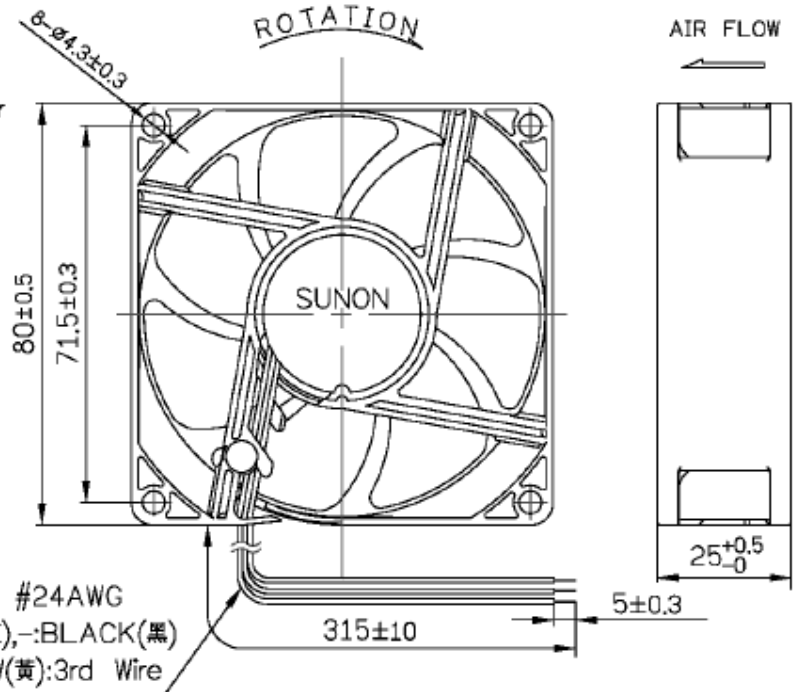
# DIMENSIONS

Screw Type (Pan head)	Torque	Screw Spec	
		Size	Standard
Machine screw	3~4 Kgf-cm	M4.0	JIS B1111-1974
Self-tapping screw	5~6 Kgf-cm	φ 5.0	JIS B1122 Type 2

**Note: SUNON recommends the screw and torque as above. Please contact SUNON, if any new requirement is requested.**



Note: The glues on the impeller is for impeller balance. Please don't remove it.



UNIT : mm