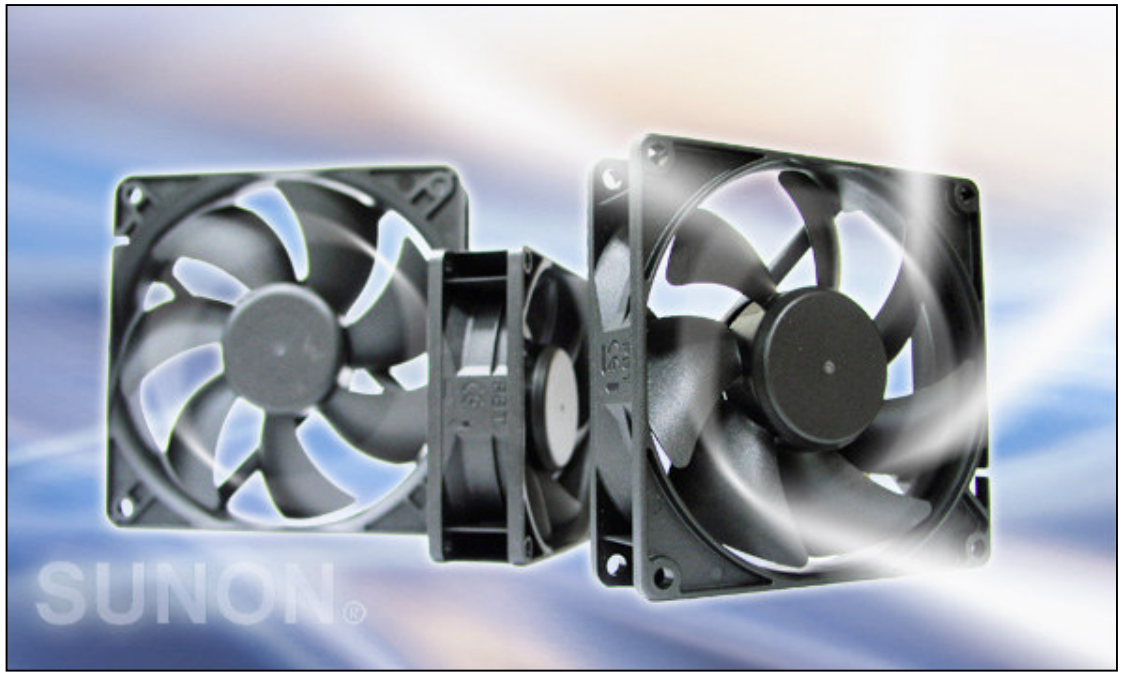


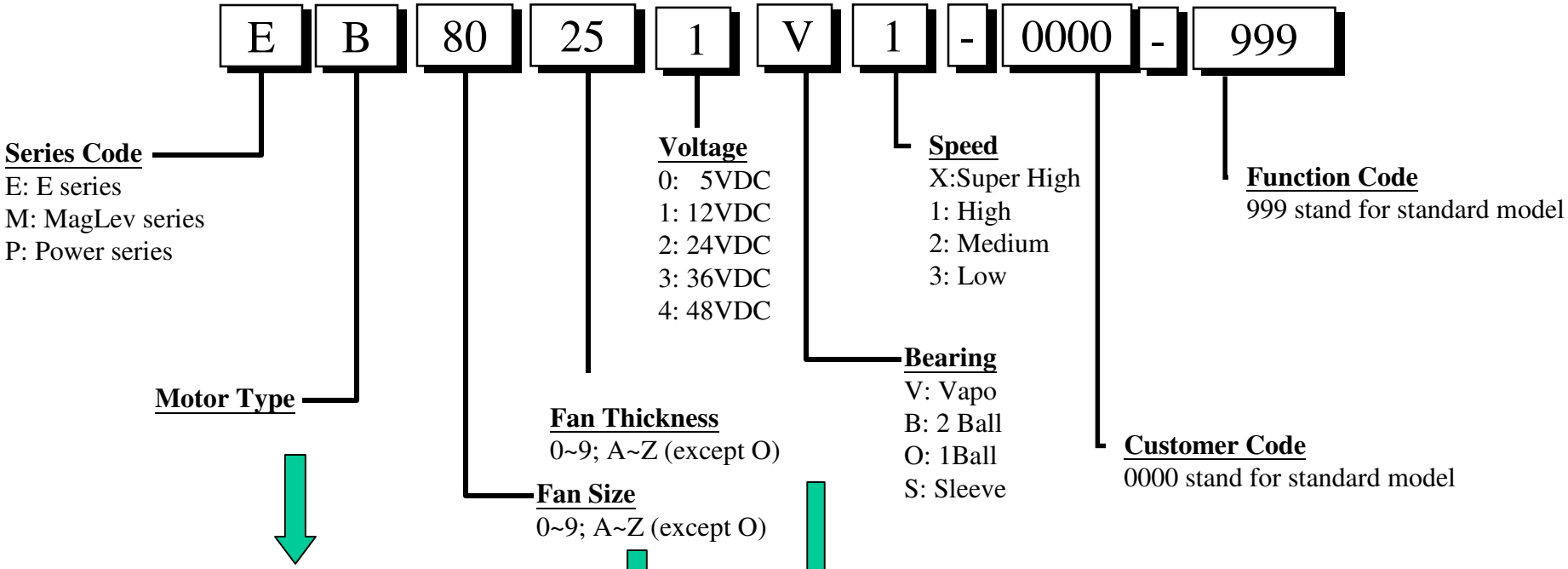
Year 2008

Sunon DC Fan New Products Introduction

(M series, E series, P series)

Date: 2007.12.12

New Products Model Numbering System



Code	Motor			Circuit		
	Axial winding	Radial winding	Downward folded	Two phase	Single phase	Three phase
B	V			V		
C	V				V	
D	V					V
E		V		V		
F		V			V	
G		V				V
H			V	V		
I			V		V	
J			V			V

Code	Size(mm)	Code	Size(mm)	Code	Size (mm)	code	Size (mm)
01~09	1~9	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	250~259	Z0~Z9	340~349
50~59	50~59	F0~F9	150~159	Q0~Q9	260~269		
60~69	60~69	G0~G9	160~169	R0~R9	270~279		
70~79	70~79	H0~H9	170~179	S0~S9	280~289		
80~89	80~89	I0~I9	180~189	T0~T9	290~299		
90~99	90~99	J0~J9	190~199	U0~U9	290~299		

Longer life, lower noise, and higher efficiency

Wherever heat sources are found, there is the need for cooling. Whether it be in information, network communications, digital appliances, heavy industry, medical, opto-electronics, or automobile sectors, Sunon is there. Sunon has an excellent R&D team with years of experience at providing innovative solutions to your complex challenges and we are committed to supplying cooling products and solutions based upon "longer life, lower noise, and higher efficiency".

◎ **50,000 ~ 90,000 hours product lifespan with high reliability**

◎ **Three different product series to meet the specific requirements of different industries**

E Series	M Series	P Series
- Lower noise - A complete product series to meet a variety of applications.	- An all-new MagLev Design for 2008. In addition to the original MagLev design features of low noise and high temperature resistance, this series increases product life by up to 75%. - The MagLev motor provides high quality and extended fan life for diverse applications.	- Higher airflow - Higher air pressure - Lower noise - Provides a range of higher-efficiency products that exceed industry-developed specifications. - Maximum fan speed up to 7,000rpm (80x80x25mm) and 6,300rpm (90x90x25mm), surpassing similar sized products.

Substitute for 2007 products

Size	2008 New Products				Replace 2007 Type
	Model	Voltage	Bearing	Speed	
4010 / 4510 / 5010	ME 4010 / 4510 / 5010	5 / 12	V	X	KD 4010 / 4510 / 5010 (Sleeve)X KDE 4010 / 4510 / 5010 (Vapo)X
80x80x25	ME 80251V1/ 2 / 3	12 / 24	V	1/2/3	KDE 8025.13.GN(VAPO) 1/ 2 /3 KD8025.13.GN (Sleeve) 1/ 2 /3 KD8025.13.GN (2 Ball) 1/ 2 /3
	EE 80251S1/ 2 / 3		S /2B		
80x80x25	ME80251VX	12 / 24	V	X	KD8025.318.GN (Sleeve) X KD8025.318.GN (2 Ball) X
	EE 80251BX		2B		
80x80x25	PE 80251V1/ 2 / 3	12 / 24 / 48	V / 2B	1/2/3	PMD 8025
80x80x25	PF 80251VX	12	V / 2B	X	New Product (7000RPM)
92x92x25	ME 92251V1/ 2 / 3	12 / 24	V	1/2/3	KDE 9225.13.GN(VAPO) 1/ 2 /3 KD9225.13.GN (Sleeve) 1/ 2 /3 KD9225.13.GN (2Ball) 1/ 2 /3
	EE 92251S1/ 2 / 3		S /2B		
92x92x25	ME 92251VX	12 / 24	V	X	KD9225.318.GN (Sleeve) X KD9225.318.GN (2Ball) X
	EE 92251BX		2B		
92x92x25	PE92251V1/ 2 / 3	12 / 24 / 48	V / 2B	1/2/3	PMD 9225
92x92x25	PF92251VX	12	V / 2B	X	New Product (6300RPM)
120x120x25	ME C0251V1/ 2 / 3	12 / 24 / 48	V	1/2/3	KD 12025-6A(Sleeve) 1/ 2 /3 KD 12025-6A.GN (Ball) 1/ 2 /3
	EE C0251B1/ 2 / 3		2B		
120x120x38	ME C0381V1/ 2 / 3	12 / 24 / 48	V	1/2/3	KDE12038 .13.GN (VAPO) 1/ 2 /3 KD 12038-6A (Sleeve) 1/ 2 /3 KD 12038.13.GN (Ball) 1/ 2 /3
	EE C0381B1/ 2 / 3		2B		

The above red mark table is valid until 06.31, 2009

Under 50x50x10mm products

Size(mm)	Model	Bearing	Speed	Voltage	Sample	MP
40x40x10	ME40100VX-0000-999	Vapo	X	5	Apr. 2008	Jun. 2008
	ME40101VX-0000-999			12	Mar. 2008	May. 2008
45x45x10	ME45100VX-0000-999	Vapo	X	5	Apr. 2008	Jun. 2008
	ME45101VX-0000-999			12	Mar. 2008	May. 2008
50x50x10	ME50100VX-0000-999	Vapo	X	5	May 2008	July 2008
	ME50101VX-0000-999			12	Apr. 2008	Jun. 2008

80x80x25mm Product

MagLev

Size(mm)	Model	Bearing	RPM	CFM	Inch-H2O	dB(A)	Sample	MP
80x80x25 (12V)	ME80251VX-0000-999	VAPO	3600	46.6	0.22	36.0	Jan.2008	Apr.2008
	ME80251V1-0000-A99	VAPO	3200	41.0	0.18	33.0	Yes	Yes
	ME80251V2-0000-999		2900	37.0	0.15	30.0		
	ME80251V3-0000-999		2600	33.0	0.11	28.0		
80x80x25 (24V)	ME80252VX-0000-999	VAPO	3600	46.6	0.22	36.0	Dec.2007	Mar.2008
	ME80252V1-0000-A99		3200	41.0	0.18	33.0		
	ME80252V2-0000-999		2900	37.0	0.15	30.0		
	ME80252V3-0000-999		2600	33.0	0.11	28.0		

2Ball / Sleeve

Size(mm)	Model	Bearing	RPM	CFM	Inch-H2O	dB(A)	Sample	MP
80x80x25 (12V)	EE80251BX-0000-999	2 Ball	3600	46.6	0.22	36.0	Jan.2008	Apr.2008
	EE80251B1-0000-A99	S / 2B	3200	41.0	0.18	33.0	(S) Yes (2B) Jan.2008	(S) Yes (2B) Apr2008
	EE80251B2-0000-999		2900	37.0	0.15	30.0		
	EE80251B3-0000-999		2600	33.0	0.11	28.0		
80x80x25 (24V)	EE80252BX-0000-999	2 Ball	3600	46.6	0.22	36.0	(S)Dec.2007 (2B) Jan.2008	(S)Mar.2008 (2B) Apr.2008
	EE80252B1-0000-A99	S / 2B	3200	41.0	0.18	33.0		
	EE80252B2-0000-999		2900	37.0	0.15	30.0		
	EE80252B3-0000-999		2600	33.0	0.11	28.0		

92x92x25mm Product

MagLev

Size(mm)	Model	Bearing	RPM	CFM	Inch-H2O	dB(A)	Sample	MP
92x92x25 (12V)	ME92251VX-0000-999	VAPO	3400	58.4	0.2	36.0	Jan.2008	Apr.2008
	ME92251V1-0000-A99	VAPO	3000	51.5	0.15	34.0	Yes	Yes
	ME92251V2-0000-999		2700	45.0	0.13	32.0		
	ME92251V3-0000-999		2400	39.5	0.10	28.0		
92x92x25 (24V)	ME92252VX-0000-999	VAPO	3400	58.4	0.2	36.0	Dec.2007	Mar.2008
	ME92252V1-0000-A99	VAPO	3000	52.0	0.15	34.0		
	ME92252V2-0000-999		2700	47.0	0.13	32.0		
	ME92252V3-0000-999		2400	41.0	0.10	28.0		

2Ball / Sleeve

Size(mm)	Model	Bearing	RPM	CFM	Inch-H2O	dB(A)	Sample	MP
92x92x25 (12V)	EE92251BX-0000-999	2 Ball	3400	58.4	0.2	36.0	Jan.2008	Apr.2008
	EE92251B1-0000-A99	S / 2B	3000	52.0	0.15	34.0	(S) Yes (2B) Jan.2008	(S) Yes (2B) Apr.2008
	EE92251B2-0000-999		2700	47.0	0.13	32.0		
	EE92251B3-0000-999		2400	41.0	0.10	28.0		
92x92x25 (24V)	EE92252BX-0000-999	2 Ball	3400	58.4	0.2	36.0	(S)Dec.2007 (2B) Jan.2008	(S)Mar.2008 (2B) Apr.2008
	EE92252B1-0000-A99	S / 2B	3000	52.0	0.15	34.0		
	EE92252B2-0000-999		2700	47.0	0.13	32.0		
	EE92252B3-0000-999		2400	41.0	0.10	28.0		

120x120x25 Product

MagLev

Size(mm)	Model	Bearing	RPM	CFM	Inch-H2O	dB(A)	Sample	MP
120 x 120 x25 (12V)	MEC0251V1-0000-A99	VAPO	3100	108.2	0.27	44.5	Yes	Jan.2008
	MEC0251V2-0000-A99		2700	93.0	0.22	40.5		
	MEC0251V3-0000-A99		2200	75.0	0.16	34.0		
120 x 120 x25 (24V)	MEC0252V1-0000-A99	VAPO	3100	108.2	0.27	44.5	Yes	Feb.2008
	MEC0252V2-0000-A99		2700	93.0	0.22	40.5		
	MEC0252V3-0000-A99		2200	75.0	0.16	34.0		
120 x 120 x25 (48V)	MEC0254V1-0000-A99	VAPO	3100	108.2	0.27	44.5	Yes	Feb. 2008
	MEC0254V2-0000-A99		2700	93.0	0.22	40.5		
	MEC0254V3-0000-A99		2200	75.0	0.16	34.0		

2Ball

Size(mm)	Model	Bearing	RPM	CFM	Inch-H2O	dB(A)	Sample	MP
120 x 120 x25 (12V)	EEC0251B1-0000-A99	2BALL	3100	108.2	0.27	44.5	Yes	Jan. 2008
	EEC0251B2-0000-A99		2700	93.0	0.22	40.5		
	EEC0251B3-0000-A99		2200	75.0	0.16	34.0		
120 x 120 x25 (24V)	EEC0252B1-0000-A99	2BALL	3100	108.2	0.27	44.5	Yes	Feb. 2008
	EEC0252B2-0000-A99		2700	93.0	0.22	40.5		
	EEC0252B3-0000-A99		2200	75.0	0.16	34.0		
120 x 120 x25 (48V)	EEC0254B1-0000-A99	2BALL	3100	108.2	0.27	44.5	Yes	Feb. 2008
	EEC0254B2-0000-A99		2700	93.0	0.22	40.5		
	EEC0254B3-0000-A99		2200	75.0	0.16	34.0		

120x120x38mm Product

MagLev

Size(mm)	Model	Bearing	RPM	CFM	Inch-H2O	dB(A)	Sample	MP
120 x 120 x38 (12V)	MEC0381V1-0000-A99	VAPO	3100	138.0	0.36	48.0	Yes	Jan.2008
	MEC0381V2-0000-A99		2600	116.0	0.26	44.0		
	MEC0381V3-0000-A99		2100	93.0	0.18	39.0		
120 x 120 x38 (24V)	MEC0382V1-0000-A99	VAPO	3100	138.0	0.36	48.0	Yes	Feb. 2008
	MEC0382V2-0000-A99		2600	116.0	0.26	44.0		
	MEC0382V3-0000-A99		2100	93.0	0.18	39.0		
120 x 120 x38 (48V)	MEC0384V1-0000-A99	VAPO	3100	138.0	0.36	48.0	Yes	Feb. 2008
	MEC0384V2-0000-A99		2600	116.0	0.26	44.0		
	MEC0384V3-0000-A99		2100	93.0	0.18	39.0		

2Ball

Size(mm)	Model	Bearing	RPM	CFM	Inch-H2O	dB(A)	Sample	MP
120 x 120 x38 (12V)	EEC0381B1-0000-A99	2BALL	3100	138.0	0.36	48.0	Yes	Jan.2008
	EEC0381B2-0000-A99		2600	116.0	0.26	44.0		
	EEC0381B3-0000-A99		2100	93.0	0.18	39.0		
120 x 120 x38 (24V)	EEC0382B1-0000-A99	2BALL	3100	138.0	0.36	48.0	Yes	Feb. 2008
	EEC0382B2-0000-A99		2600	116.0	0.26	44.0		
	EEC0382B3-0000-A99		2100	93.0	0.18	39.0		
120 x 120 x38 (48V)	EEC0384B1-0000-A99	2BALL	3100	138.0	0.36	48.0	Yes	Feb. 2008
	EEC0384B2-0000-A99		2600	116.0	0.26	44.0		
	EEC0384B3-0000-A99		2100	93.0	0.18	39.0		

High Air Flow (With PWM) Product

Size(mm)	Series	Bearing	Speed	Voltage	Sample	MP
80x80x25	PF	Vapo	X	12	Feb. 2008	Apr. 2008
		2Ball	X	12	Mar. 2008	May. 2008
	PE	Vapo	1/ 2 / 3	12 / 24 / 48	Feb. 2008	Apr. 2008
		2Ball	1/ 2 / 3	12 / 24 / 48	Mar. 2008	May. 2008
92x92x25	PF	Vapo	X	12	Feb. 2008	Mar.. 2008
		2Ball	X	12	Feb. 2008	Apr. 2008
	PE	Vapo	1/ 2 / 3	12 / 24 / 48	Feb. 2008	Mar.. 2008
		2Ball	1/ 2 / 3	12 / 24 / 48	Feb. 2008	Apr. 2008

Appearance Comparison-80x80x25mm

E Series 8025

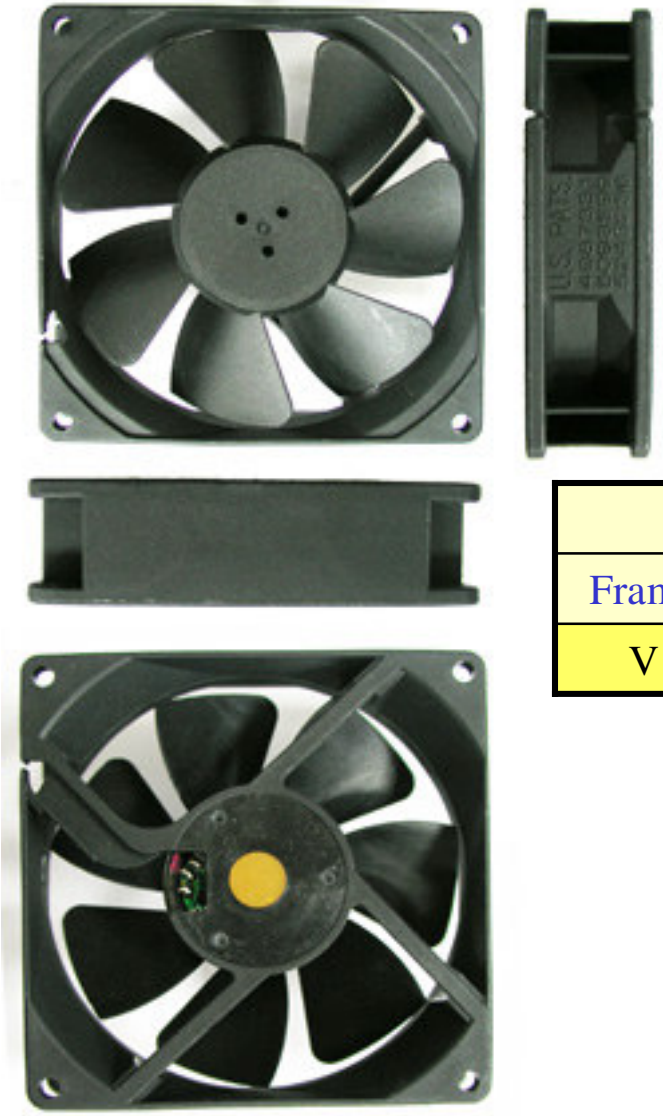
KDE /KD 8025

Difference		
Frame	Arms	Impeller
V	V	V

SUNON®

Appearance Comparison-92x92x25mm

E Series 9225	KDE /KD 9225



Difference		
Frame	Arms	Impeller
V	V	V

SUNON®

Appearance Comparison-120x120x25mm

E Series 12025	KDE /KD 12025

Difference		
Frame	Arms	Impeller
V	V	V

SUNON®

Appearance Comparison-120x120x38mm

E Series 12038	KDE /KD 12038

Difference		
Frame	Arms	Impeller
V	V	V

SUNON®