

Arrangement of product model code

Department of Research and Development

2014/04/25

SUNON®

DC Fan

Instruction on the new code arrangement

DC Fan New Code Arrangement

M E 80 25 1 V 1 - 1 0000 - 999

Series Code

E : E series

M: MagLev series

P : Power series

S : Surpass series

V: Higher PQ Series

G: High IP series

Circuit/Motor type

Voltage

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

Generation Code: 1~9

Speed

X: Super high
1~9: high to low

Bearing

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

Thickness

0~9; A~Z (with exception to letter "O")

Size

0~9; A~Z (with exception to letter "O")

Function Code

First digit: Output control; A~Z; 1~9
Second digit: Ingress Protection; A~Z; 1~9
Third digit: Others; A~Z; 1~9
***if nothing special features, then code is 999**

Customer(SSR/territory)

- First digit: product differentiation
 - B: Blower/Cap Fan UL model
 - C: Blower/Cap Fan non-UL model
 - D: Fan UL model
 - Q: Fan non-UL model
 - L → Blower/Cap Fan for LED product
 - E → Fan for LED product
- Second and third digit: 00~99 serial code
- Fourth digit: territory
 - 0 --> non-territory/industry
 - U --> Europe, US, Japan
 - 1~9 --> NB serial code

★ Standard type:

- 0000 : standard +no territory
- 000C: standard +China
- 000U: standard + Eur/US/JP

Details see attachment 1

***Blower size code is primarily based on motor size, not entirely based on appearance**

Code	Motor			Circuit		
	Axial	Radial	Axial cove	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	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		

Attachment 1: Generation code and customer code detail

XXXXXXXXXX

- 1 0000 - 999

(Model) Generation Code: 1 ~ 9

- Accords to the sequence of standard models, for example EE80251B1-0000-A99 → EE80251B1-10000-A99 will be the first new gen product. So when same generation code applies to different models, they do not necessarily have the same structural design.
- New models always begin with code “1”, for example EB40201B1-10000-A99.
- Models without generation code will be used only to comply with existing UL conditions.

Customer Code

- First digit: B: Blower/Cap/Dish UL model
C: Blower/Cap/Dish non-UL
D: Fan UL model
Q: Fan non-UL
- Second and third digit: 00~99 serial code
- Fourth digit: territory

	Condition	Code example
Standard Model	Standard model, the previous customer code is always “000”. The fourth digit separates into three territory 0 (non assigned), C (China), U (Eur/US/JP)	Every standard product will be released under three different territories: ● XXXXXXXXXX- 1000 -999 → non-assigned ● XXXXXXXXXX- 1000C -999 → China ● XXXXXXXXXX- 1000U -999 → Eur/US/JP
SSR Utilizing UL	① If standard model EE80251V1- 10000 -999 already have UL ② SSR design spec and matches standard model spec CAN suit UL	● SSR code can be assigned as(no UL application necessary): Dxx0~Pxx0 → x represents 0~9 (serial code) → fourth digit shows territory, this sample shows 0 → if fourth digit has an assigned territory, then as needed, it can be C or U, such as DxxC or DxxU ● Code example: First suitor → EE80251V1 - 1D000 -999 (4 th code is territory) Second suitor → EE80251V1 - 1D010 --999 (4 th code is territory)
SSR Reapply UL	① If standard model EE80251V1- 10000 -999 already have UL ② SSR design spec and standard model differs significantly, it CANNOT suit existing UL	● SSR code can be assigned as(UL application needed): Qxx0~Zxx0 → x represents 0~9 (serial code) → fourth digit shows territory, then as needed, it can be 0, C, or U ● Code example: First application → EE80251V1 - 1Q000 -999 (4 th code is territory) Second application → EE80251V1 - 1Q010 -999 (4 th code is territory)
Note	Different model number, but customer code can be the same	● This SSR code arrangement is primarily based on the condition that the same model number can have various customer code. So it is possible that different models have the same customer code ● Code example → EE 8025 1B1- 1Q000 -999 Or → EE 9225 1B1- 1Q000 -999

Attachment 2 Function/Category breakdown

XXXXXXXXXX

-

1

0000

-

999

Function Code (function/category)

First digit: Output control; A~Z; 1~9

Second digit: Ingress Protection; A~Z; 1~9

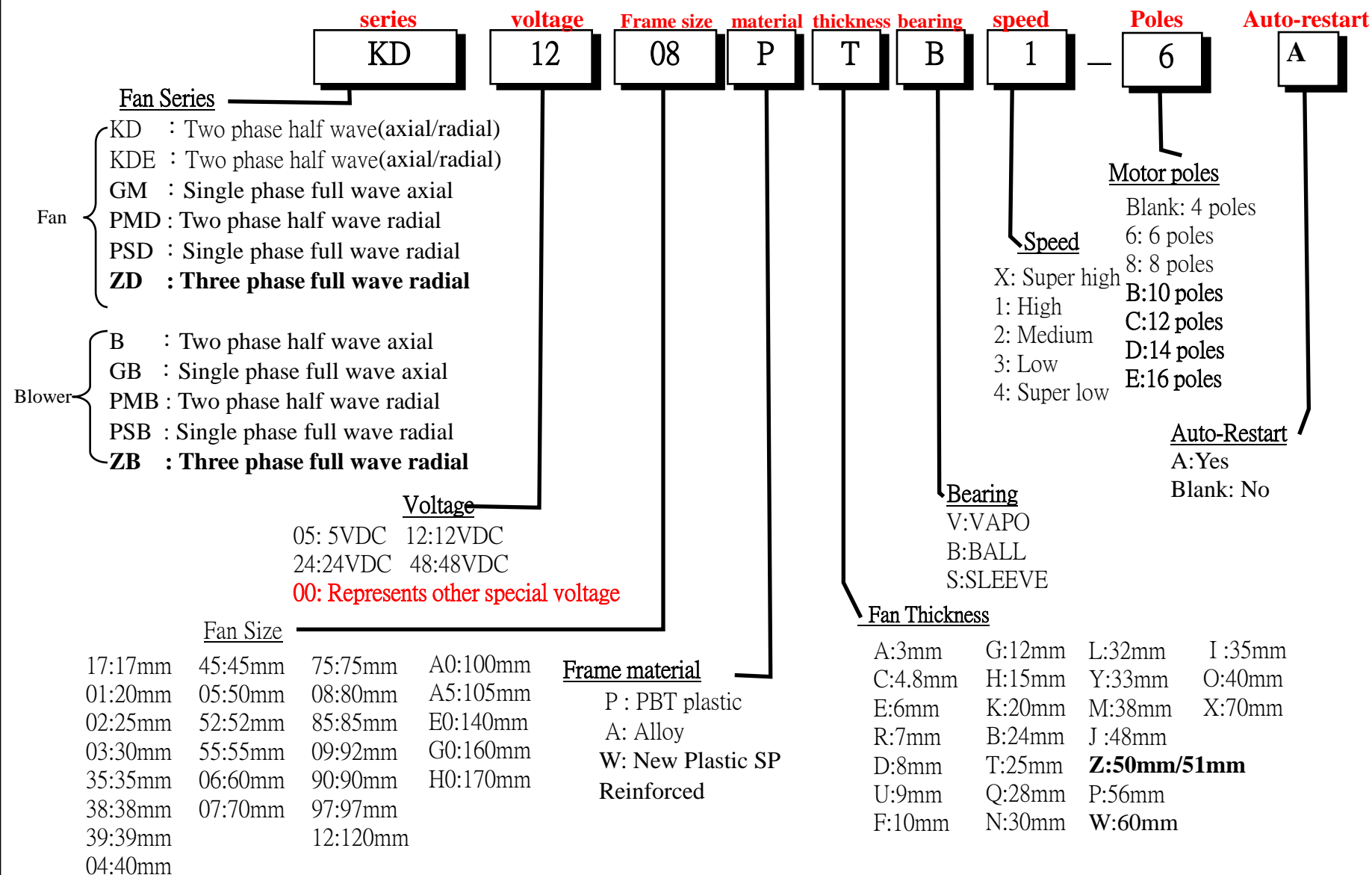
Third digit: Others; A~Z; 1~9

First digit: Output Control						Second digit: IP		Third digit: Others					
First code	AutoRestart	RD 3rd wire	FG 3rd wire	PWM	Temp Control	Second Code	Type	Third Code	HF	Dust repel	Special Warranty	low vibrat	Reserve
9						9	none	9					
A	V					A	IP21	A	V				
B		V				B	IP55	B		V			
C			V			C	IP56	C	V	V			
D				V		D	GR487	D			V		
E					V	E	IP68	E	V		V		
F	V	V				F	IP65	F		V	V		
G	V		V			G	Reserved	G	V	V	V		
H	V			V		H	Reserved	H				V	
I	V				V	I	Reserved	I	V			V	
J		V	V			J	Reserved	J		V		V	
K		V		V		K	Reserved	K			V	V	
L		V			V	L	Reserved	L	V	V		V	
M			V	V		M	Reserved	M	V		V	V	
N			V		V	N	Reserved	N		V	V	V	
O				V	V	O	Reserved	O	V	V	V	V	
P	V	V	V			P	Reserved	P	Reserved				
Q	V	V		V		Q	Reserved	Q	Reserved				
R	V	V			V	R	Reserved	R	Reserved				
S	V		V	V		S	Reserved	S	Reserved				
T	V		V		V	T	Reserved	T	Reserved				
U	V			V	V	U	Reserved	U	Reserved				
V		V	V	V		V	Reserved	V	Reserved				
W		V	V		V	W	Reserved	W	Reserved				
X		V		V	V	X	Reserved	X	Reserved				
Y			V	V	V	Y	Reserved	Y	Reserved				
Z	V	V	V	V		Z	Reserved	Z	Reserved				
1	V	V	V		V	1	Reserved	1	Reserved				
2	V	V		V	V	2	Reserved	2	Reserved				
3	V		V	V	V	3	Reserved	3	Reserved				
4		V	V	V	V	4	Reserved	4	Reserved				
5	V	V	V	V	V	5	Reserved	5	Reserved				

DC Fan

Instruction on past code arrangement

DC Fan code arrangement- common series models



Code arrangement-common series-P/N

KD1208PTB1-6

A

Fan Series

KD : Two phase half wave(axial/radial)
 KDE : Two phase half wave(axial/radial)
 GM : Single phase full wave axial
 PMD : Two phase half wave radial
 PSD : Single phase full wave radial
 ZD : Three phase full wave radial (new)
 B : Two phase half wave axial
 GB : Single phase full wave axial
 PMB : Two phase half wave radial
 PSB : Single phase full wave radial
 ZB : Three phase full wave radial(new)

Auto-Restart

A:Yes

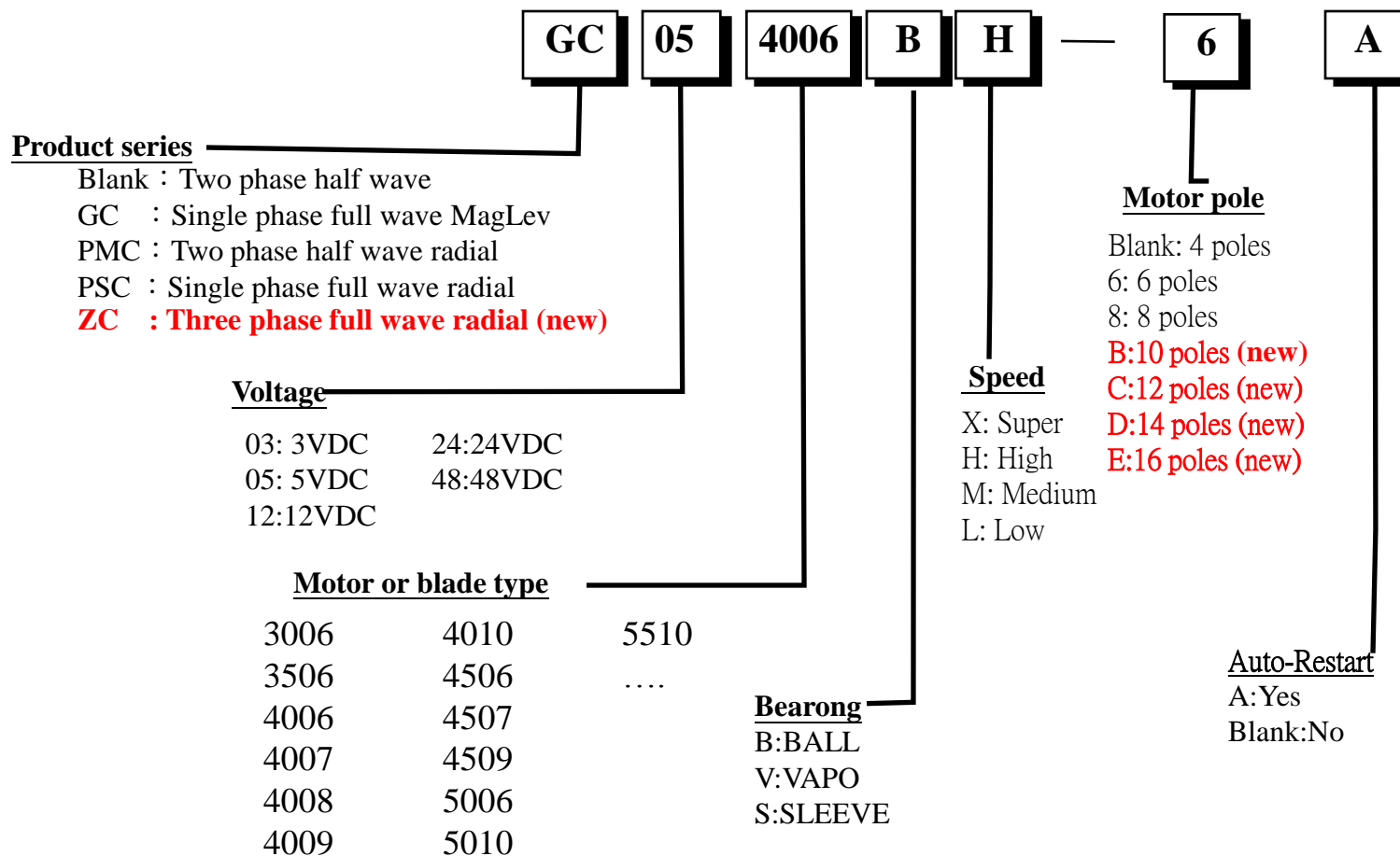
Blank :No

P/N: 13.MS.(2).A.U.H.G.S.....GN

P/N code arrangement:

- ◆ 11/13 : Motor PN
- ◆ MS : MagLev
- ◆ (2) : Two ball bearing
- ◆ A: Auto Restart (only applicatble for KD and KDE series)
- ◆ U : Upgrade
- ◆ Ex: revision number(如: E1, E2, E3, E4, E5····)
- ◆ (7) : 7 Blades
- ◆ (9) : 9 Blades
- ◆ N : Shrunk motor core
- ◆ H : Competitive type series
- ◆ G : Enlarged motor core
- ◆ S : Thermal Sensor
- ◆ BXX : special circuit/electrical feature
- ◆ CXX : special frame/IP or customer requested additional parts
- ◆ SXX: special case, single phase model using two phase design circuit/wiring
- ◆ BXX-1: elaboration of SSR
- ◆ AXX: Auto SSR
- ◆ F : yellow wire, square wave form output
- ◆ R : white wire, high low wave output
- ◆ M: Open Collector 3rd wire input (no longer in use since 2003/8/1)
- ◆ X : UV Glue
- ◆ I21: New IP21
- ◆ GR: GR487
- ◆ GN : Product compliant with RoHS standard
- ◆ HF : Product compliant with halogen free standard
- ◆ Z: SSR became standard model
- ◆ I55 : New IP55
- ◆ I56 : New IP56
- ◆ I65 : New IP65
- ◆ I68 : New IP68
- ◆ IP : Old IP(no levels)

Cap/Dish/Cooler code arrangement



Molding& Mighty Mini Fan & Fan Tray

**Detailed instruction on each series
code arrangement**

Thermal Module product (non-LED) code arrangement

T C 1 01 - 06 001 Y

Product type

T: Module + Fan
S: Module (without fan)

Heat sink material

C : Copper
A: Aluminum
M: Copper and Aluminum
N: no designated material
N: **Compound material**

Production process

Y:Welded
N:Not welded

serial code

Year code

06: Year of 2006

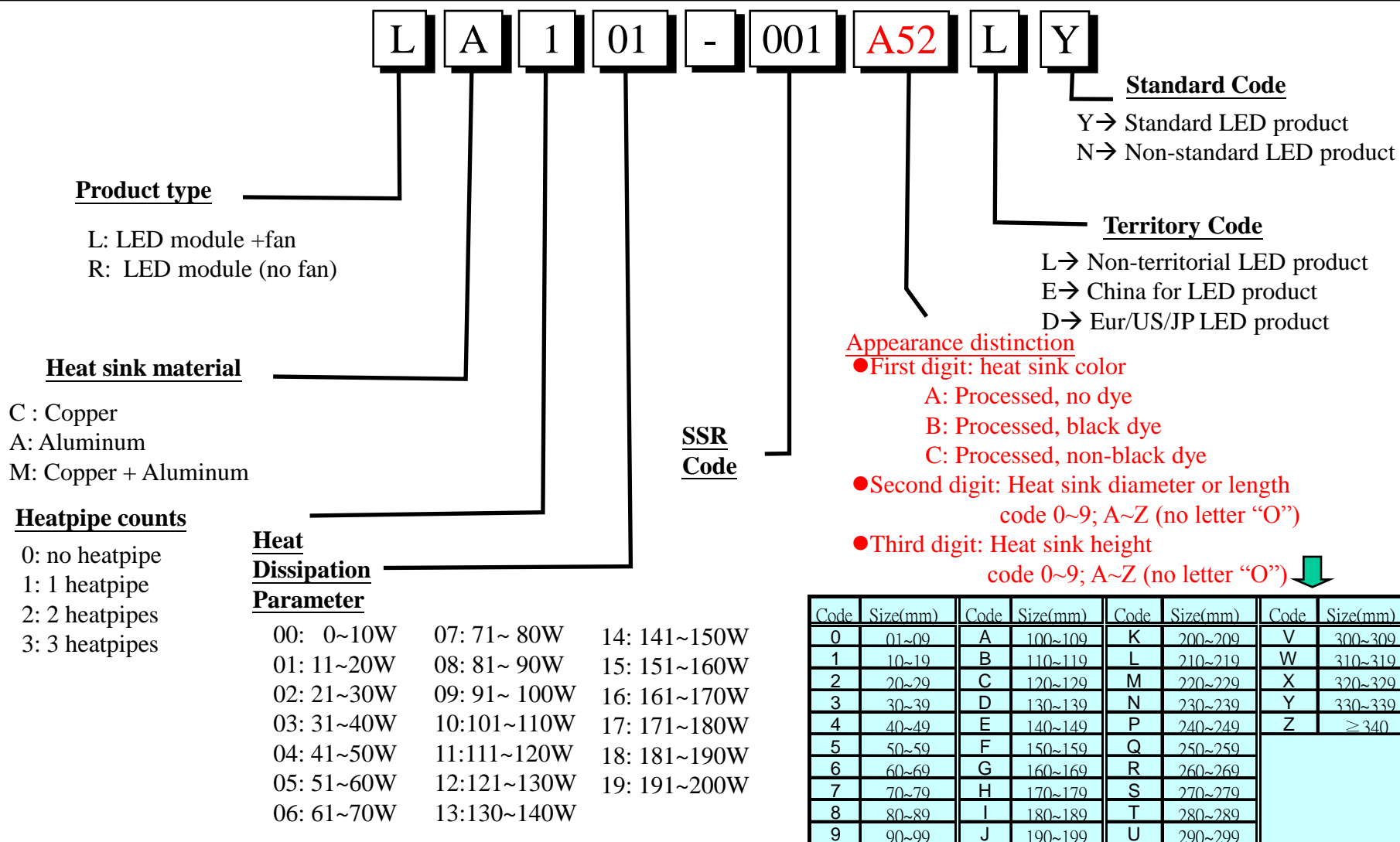
Heat Dissipation Parameter

heatpipe counts

Code	Count	Code	Count	Code	Count	Code	Count
0	none	A	10	K	36~40	V	86~90
1	1	B	11	L	41~45	W	91~95
2	2	C	12	M	46~50	X	96~100
3	3	D	13	N	51~55	Y	101~105
4	4	E	14	P	56~60	Z	≥ 106
5	5	F	15	Q	61~65		
6	6	G	16~20	R	66~70		
7	7	H	21~25	S	71~75		
8	8	I	26~30	T	76~80		
9	9	J	31~35	U	81~85		

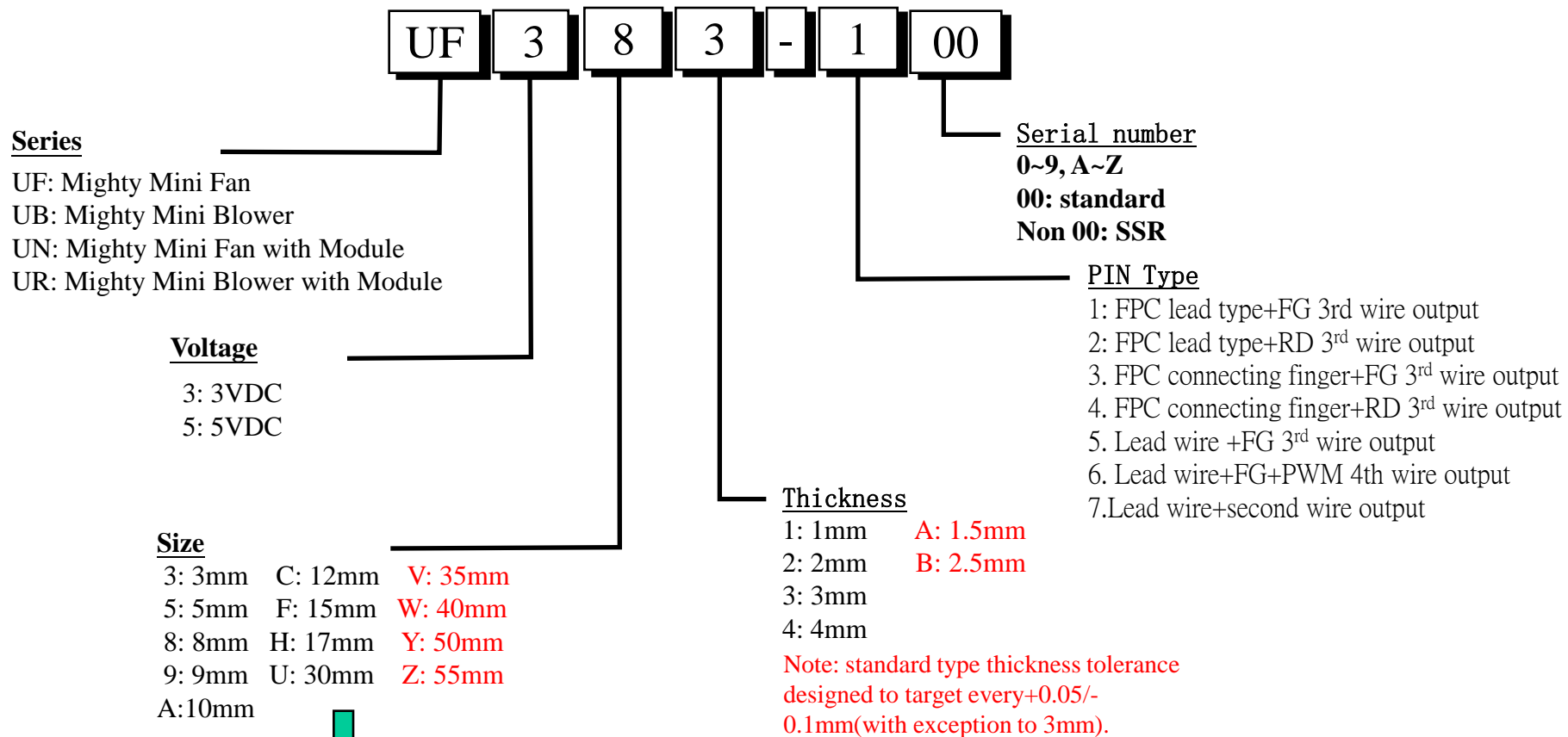
Code	Parameter	Code	Parameter	Code	Parameter	Code	Parameter	Code	Parameter	Code	Parameter
00	0~10W	10	101~110W	20	201~250W	30	701~750W	40	1201~1250W	50	1701~1750W
01	11~20W	11	111~120W	21	251~300W	31	751~800W	41	1251~1300W	51	1751~1800W
02	21~30W	12	121~130W	22	301~350W	32	801~850W	42	1301~1350W	52	1801~1850W
03	31~40W	13	131~140W	23	351~400W	33	851~900W	43	1351~1400W	53	1851~1900W
04	41~50W	14	141~150W	24	401~450W	34	901~950W	44	1401~1450W	54	1901~1950W
05	51~60W	15	151~160W	25	451~500W	35	951~1000W	45	1451~1500W	55	1951~2000W
06	61~70W	16	161~170W	26	501~550W	36	1001~1050W	46	1501~1550W	56	2001~2050W
07	71~80W	17	171~180W	27	551~600W	37	1051~1100W	47	1551~1600W	57	2051~2100W
08	81~90W	18	181~190W	28	601~650W	38	1101~1150W	48	1601~1650W	58	2101~2150W
09	91~100W	19	191~200W	29	651~700W	39	1151~1200W	49	1651~1700W	59	2151~2200W

LED Thermal Module product code arrangement



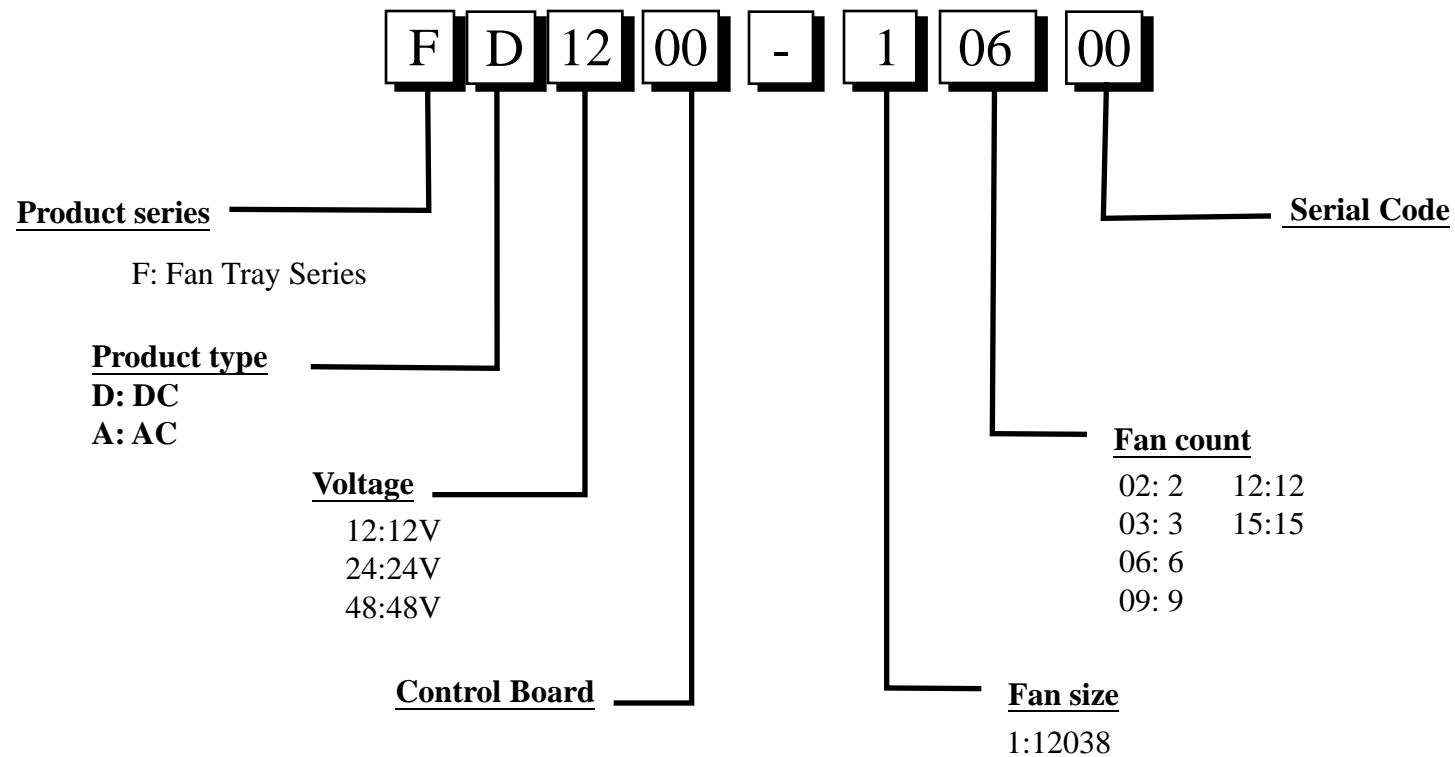
Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)
0	01~09	A	100~109	K	200~209	V	300~309
1	10~19	B	110~119	L	210~219	W	310~319
2	20~29	C	120~129	M	220~229	X	320~329
3	30~39	D	130~139	N	230~239	Y	330~339
4	40~49	E	140~149	P	240~249	Z	≥ 340
5	50~59	F	150~159	Q	250~259		
6	60~69	G	160~169	R	260~269		
7	70~79	H	170~179	S	270~279		
8	80~89	I	180~189	T	280~289		
9	90~99	J	190~199	U	290~299		

Mighty-Mini Fan mm series code arrangement



Code	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Size (mm)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	35	40	45	50	55

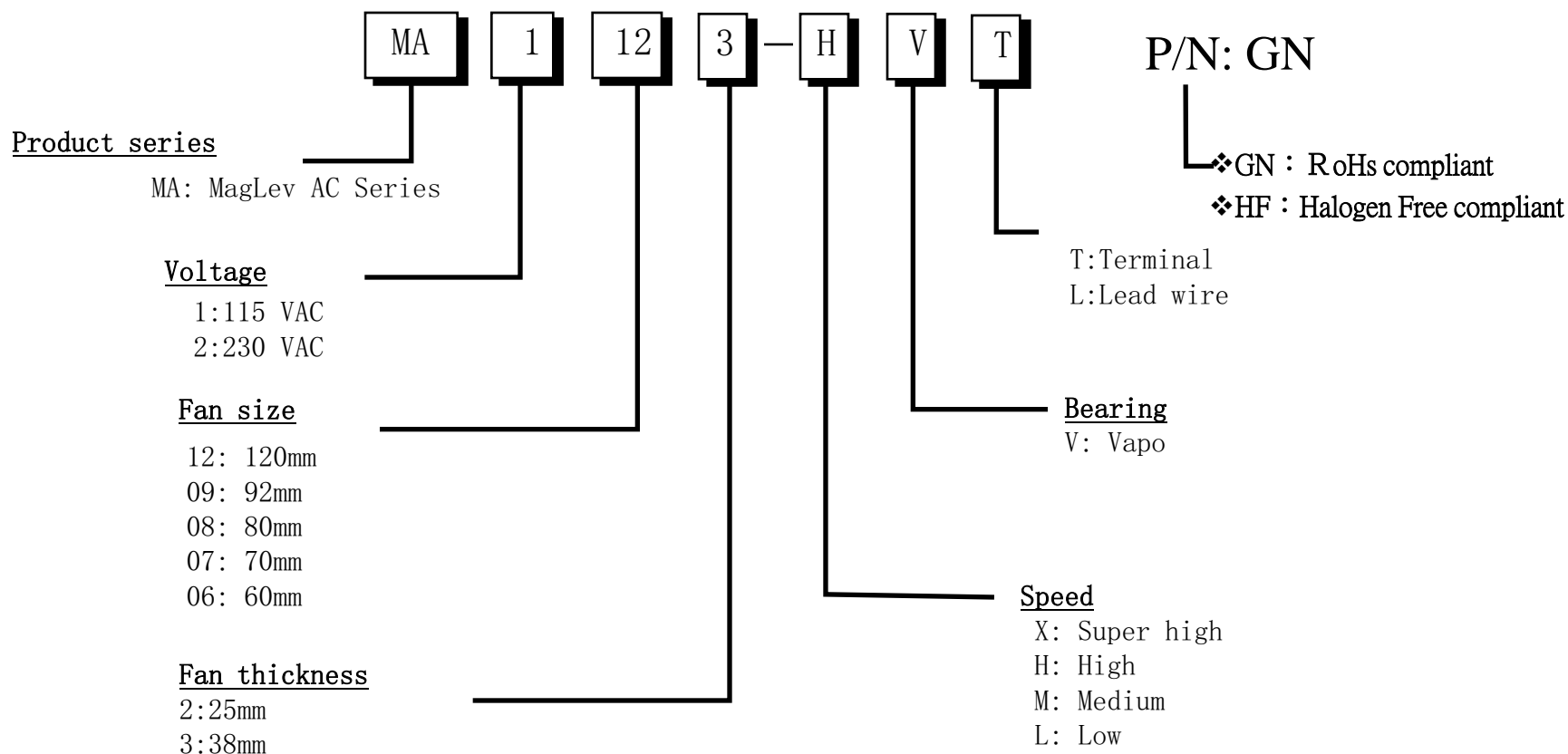
Fan Tray product code arrangement



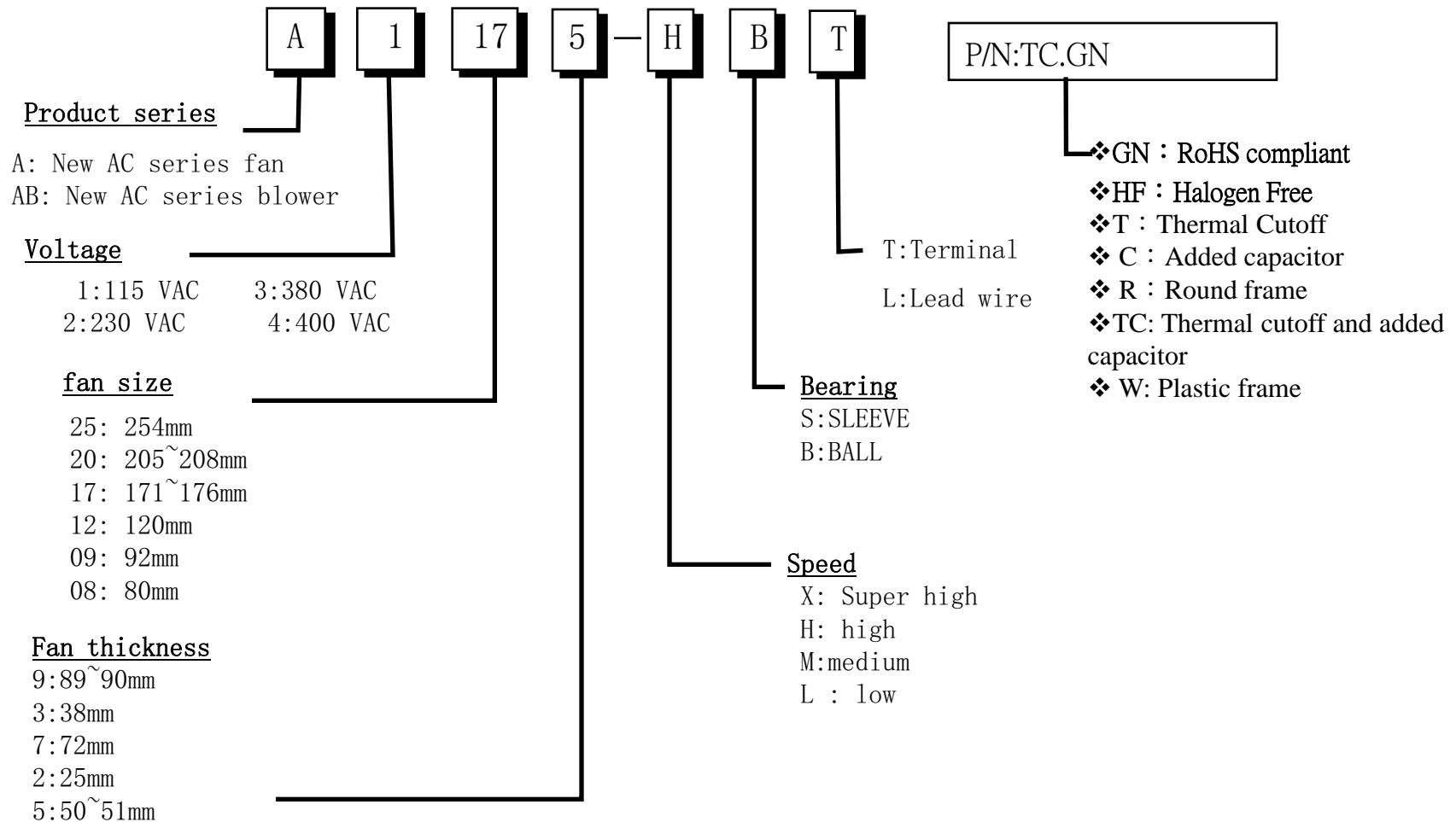
AC Fan

**Instructions on each series detail
code arrangement**

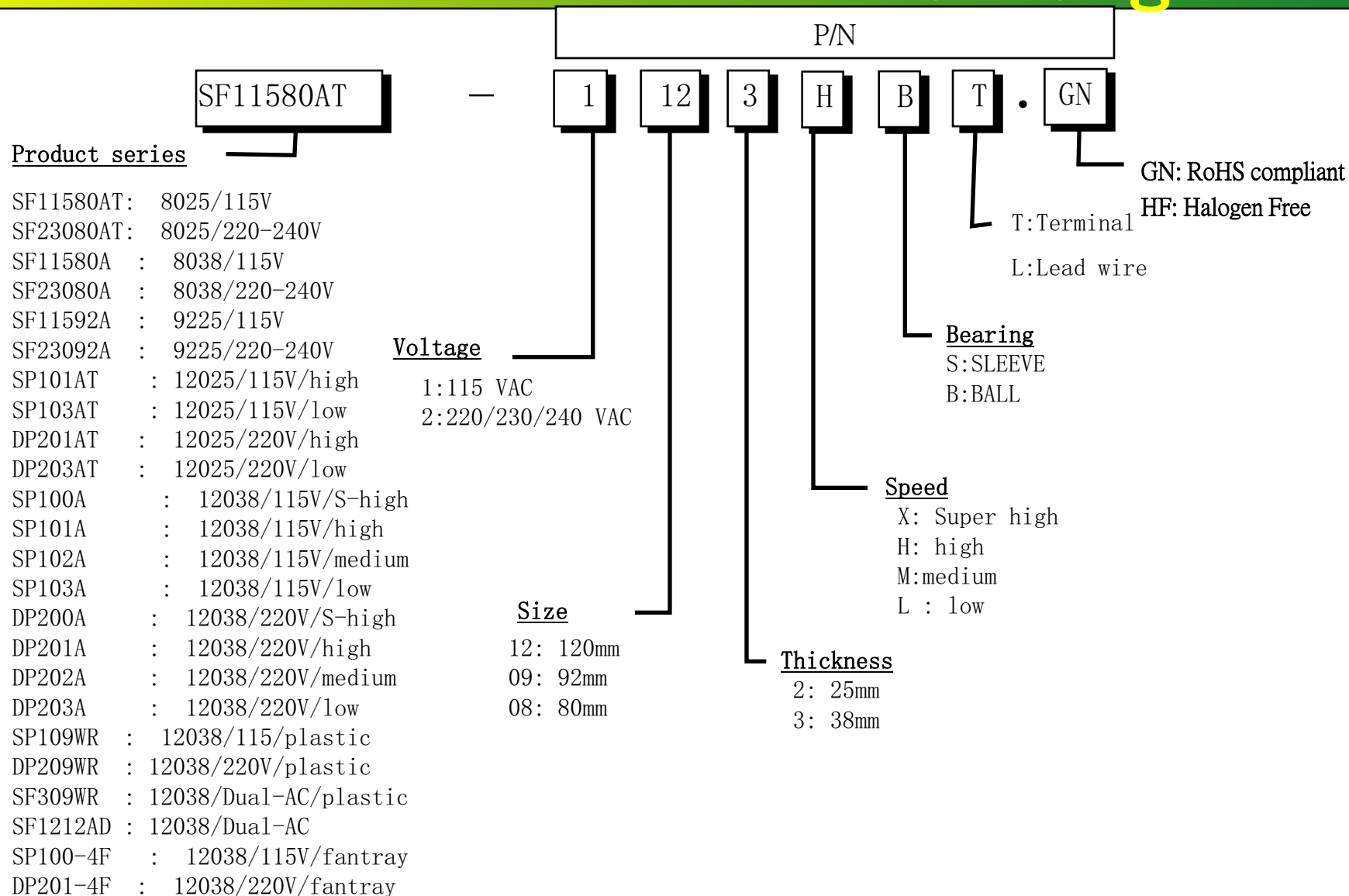
MagLev AC Fan code arrangement



AC new model code arrangement



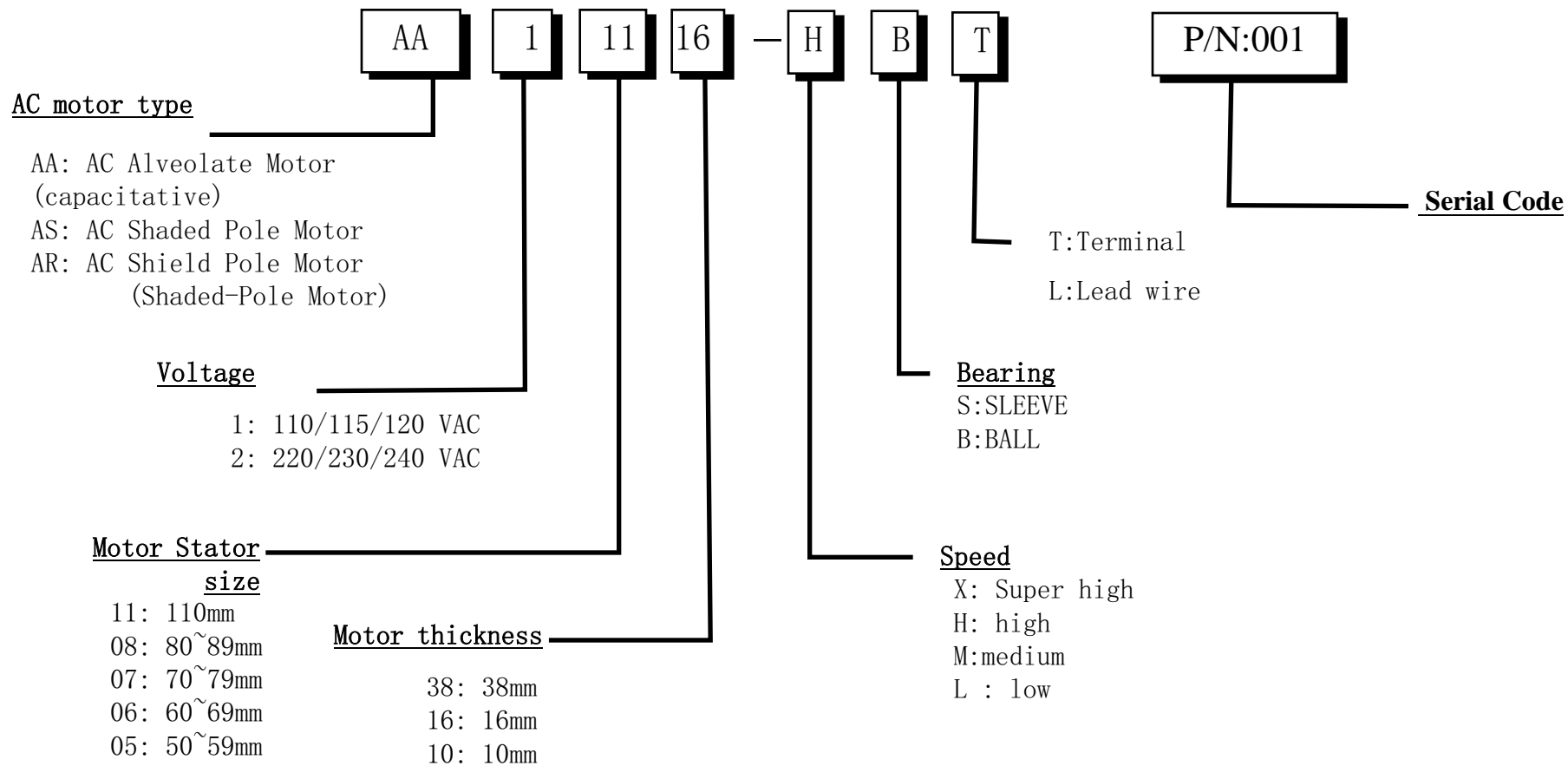
AC old model code arrangement



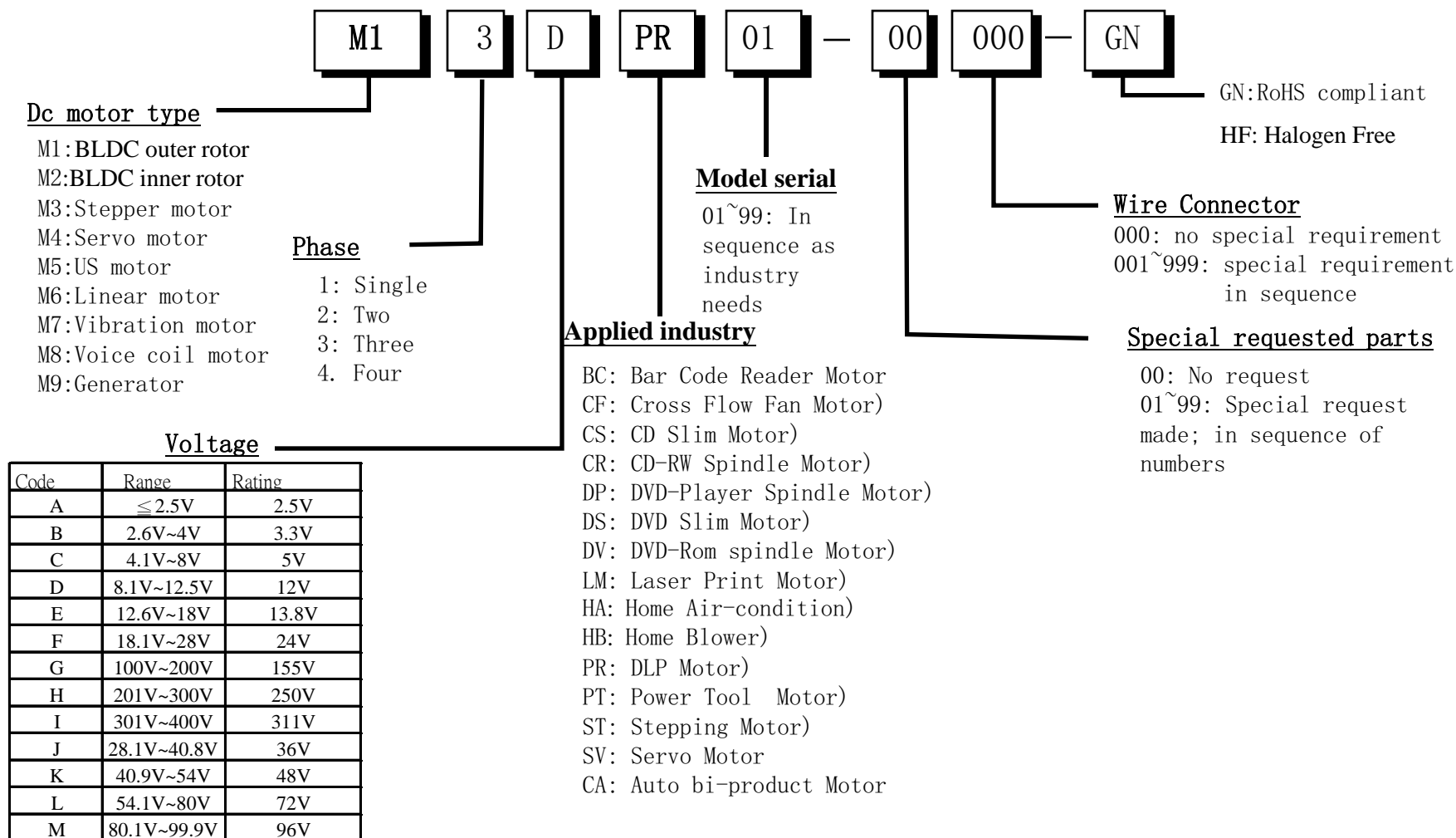
AC&DC Motor

**Detail instruction on each series
code arrangement**

AC Motor series code arrangement



DC Motor series code arrangement



EET (Energy Efficient Technology)

EET Bi-product

**Detail instruction on each series code
arrangement**

SUNON®

EET AC product code arrangement

EET (Energy Efficient Technology)

CF 1 17 5 H B T - 0000 - 999

Series Code

CF : EC Fan
CB : EC Blower
CM : EC motor

Voltage

1: 100~115 VAC
2: 220~240 VAC
3: 380 VAC
4: 110/220 VAC 泛用型

Impeller Dimension

Hub Dimension

Code	Size(mm)	Code	Size(mm)	Code	Size(mm)
08	80~89	16	160~169	24	240~249
09	90~99	17	170~179	25	250~259
10	100~109	18	180~189	26	260~269
11	110~119	19	190~199	27	270~279
12	120~129	20	200~209	28	280~289
13	130~139	21	210~219	29	290~299
14	140~149	22	220~229	30	300~309
15	150~159	23	230~239	31	310~319

Function Code

For details see attachment 2
from the DC code
arrangement

Customer Code(SSR/territory)

- First digit: product distinction
D: UL applicable model
Q: UL non-applicable model
- Second and third digit 00~99 serial number
- Fourth digit: territory code
0 --> non-territory/industry C--> China
U--> Europe, US, Japan A--> Auto

T: Terminal
L: Lead wire

Speed

X: Super-high
H: high
M: medium
L: low

Bearing

S: SLEEVE
B: BALL
V: VAPO

Thickness

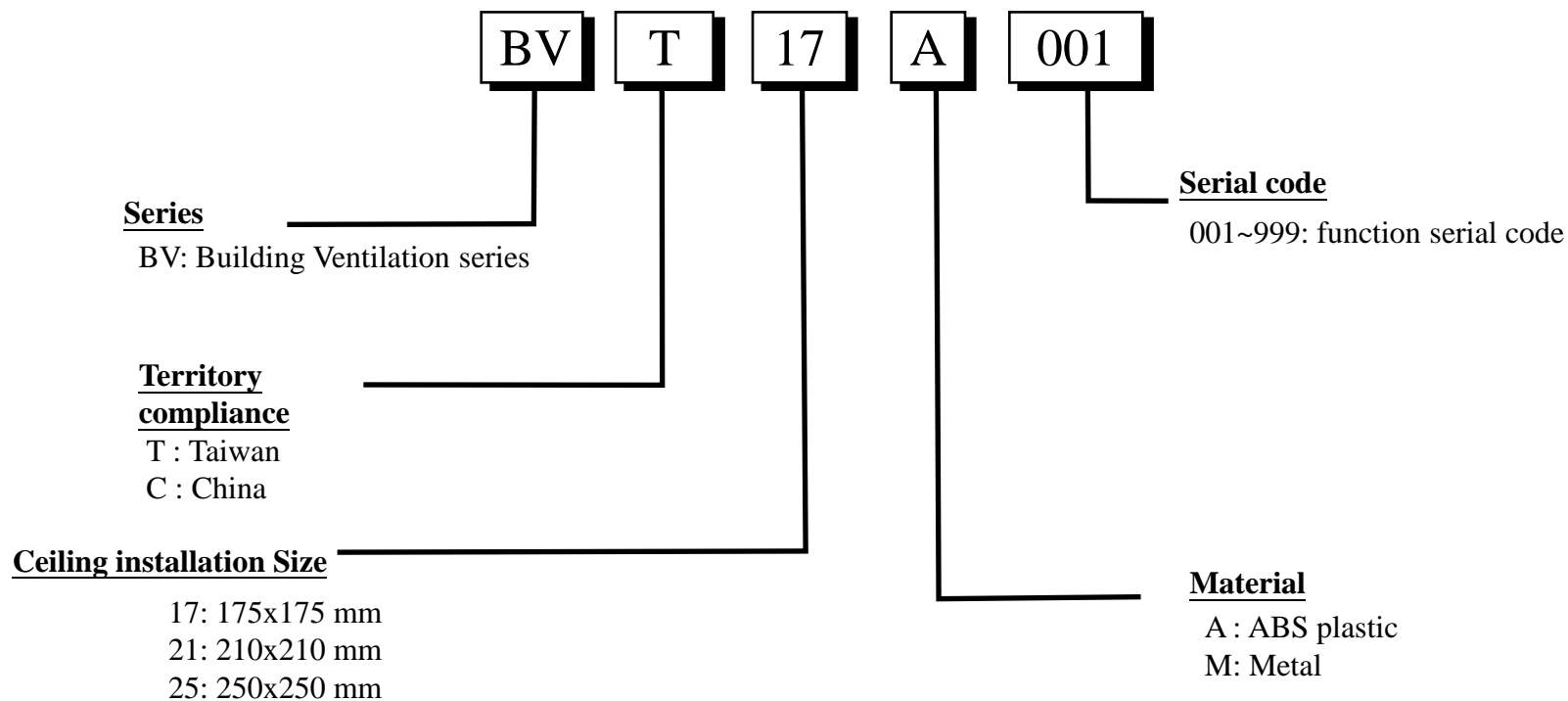
1: 01~19 6: 60~69
2: 20~29 7: 70~79
3: 30~39 8: 80~89
4: 40~49 9: 90~99
5: 50~59

CLEAN Ventilation Product

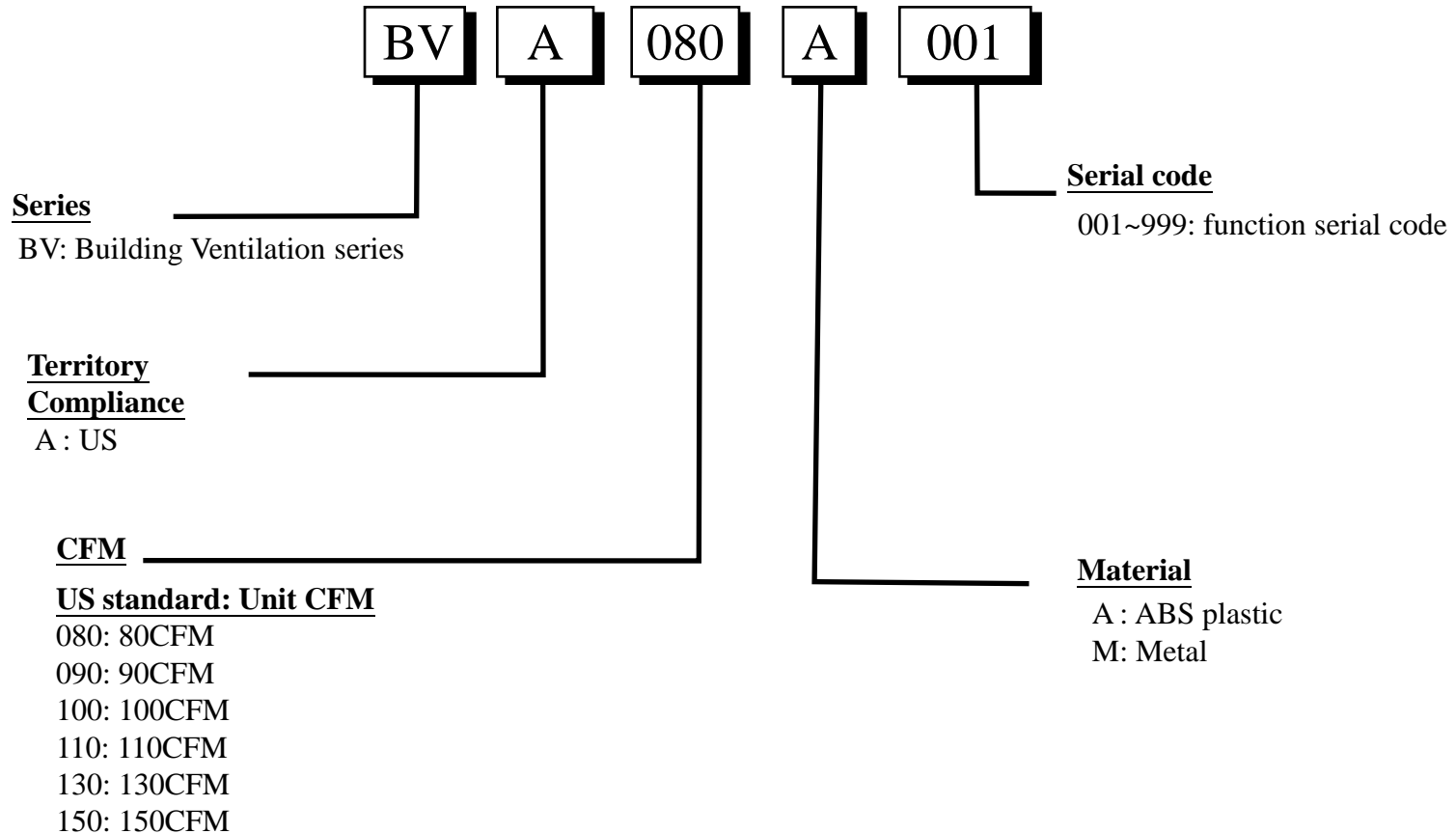
**Detail instruction on each series code
arrangement**

SUNON®

Taiwan, China ventilation product code arrangement



US Ventilation Product code arrangement



European Ventilation Product Code arrangement

