

ENGINEERING INFORMATION

Alveolate Motor AC fan series with automatic motor-wire wrapping technology ensures stable performance of high wind volume, low acoustic noise, also available with functions of dual spinning rate, and thermal cutout.



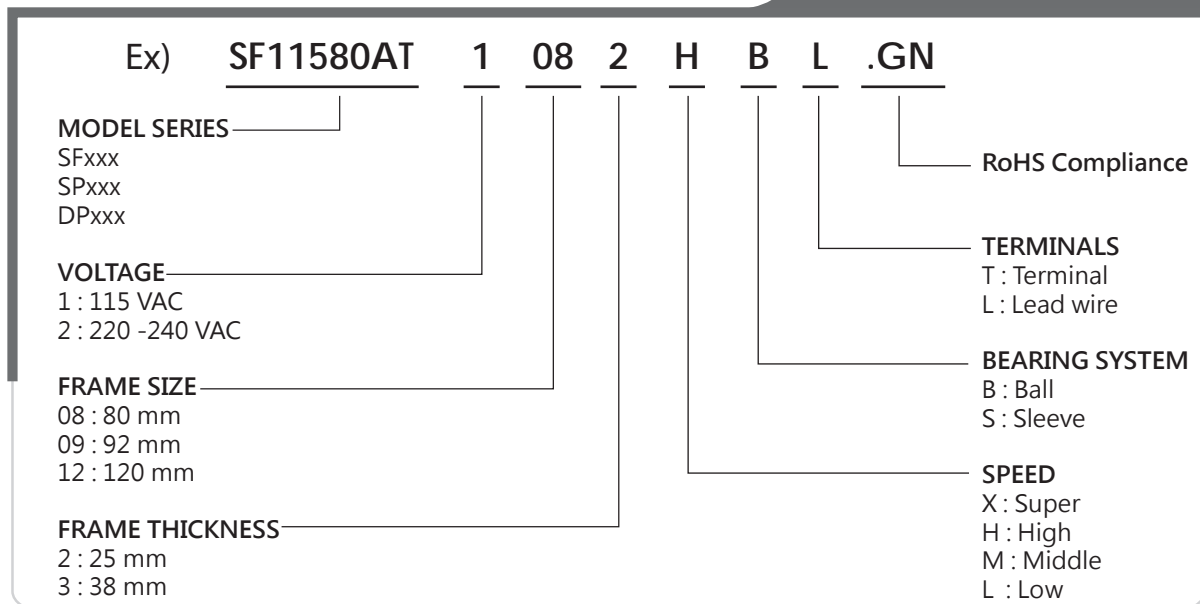
SUNON-Alveolate Motor VS. Traditional Shaded-pole Motor



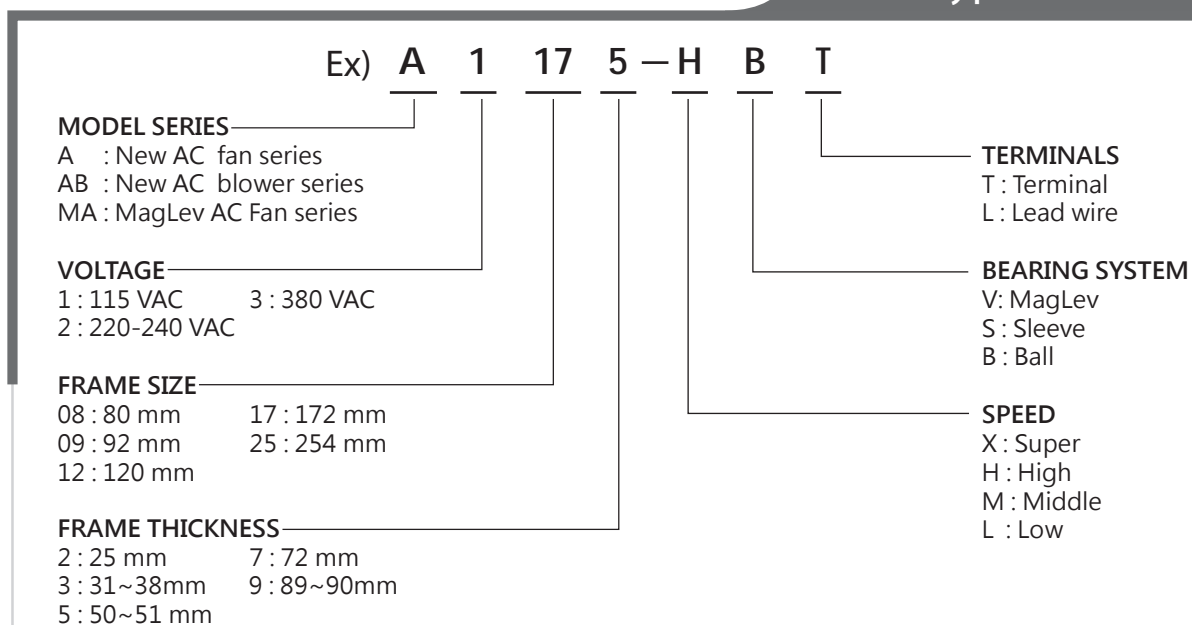
SUNON-Alveolate Motor	Traditional Shaded-Pole Motor
1.The Alveolate Motor is equipped with starting stator coils and working ones. The starting coils form a low starting voltage with the capacitors. For example, an 115VAC (the fixed voltage) Alveolate Motor can be started with 60 VAC.	1.The Traditional Shaded-Pole Motor, designed with single-wire wrapping, is started by "the starting copper" and cannot be started with low voltage. An 115VAC Traditional Shaded-Pole motor will need more than 80VAC to run, 20VAC more than the Alveolate one.
2.The coils do not produce high temperature and consumes less electricity. The temperature is normally around 50°C. Therefore, the motor is always stable and reliable.	2.The Traditional Shaded-Pole Motor consumes electricity twice as much as the Alveolate Motor. It is not reliable because the temperature is usually higher than 70°C.
3.The Thermal Cutout can protect the motor.	3.The Thermal Cutout is an option.
4.The motor has a large torsion to produce high wind pressure and wind volume.	4.General wind pressure and wind volume.
5.The motor is equipped with the third wire, ready to comply with the customer's systems.	5.Without the third wire.

■ AC Fan Model Numbering System

General AC Fan



New Type AC Fan



P/N

P/N Suffixes have the following significance :

- T : Thermal Cutout
- TC : Alveolate Motor with Thermal Cutout and Capacitor
- TC.R : Round Frame , Alveolate Motor with Thermal Cutout and Capacitor
- N : New frame
- GN : RoHS compliance

* Alveolate Motor only available in P/N : TC model

120x120x38 mm

70~117 CFM



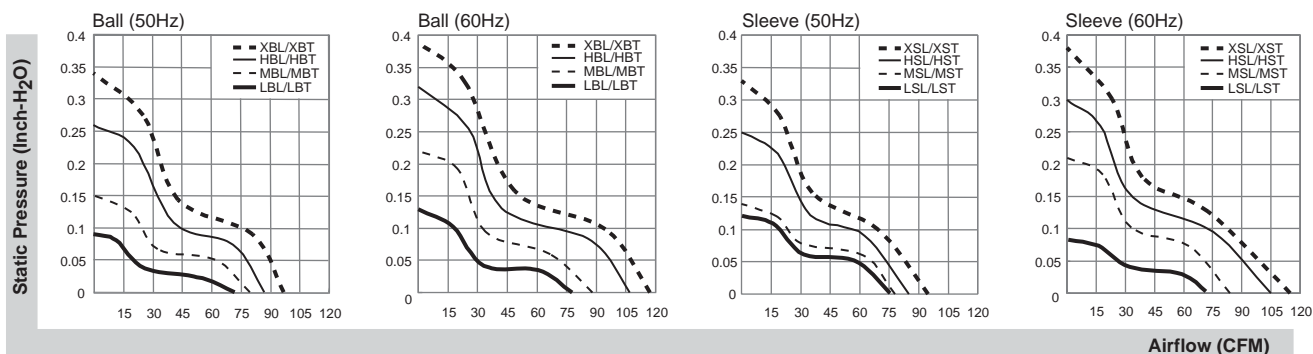
■ Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ○ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H ₂ O)	(dB(A))	(g)
SP100A	1123XSL.GN	○	115	50/60	0.26/0.24	22/20	2700/3100	95/115	0.33/0.38	44/49	550
SP100A	1123XST.GN	○	115	50/60	0.26/0.24	22/20	2700/3100	95/115	0.33/0.38	44/49	550
SP101A	1123HSL.GN	○	115	50/60	0.21/0.18	20/18	2550/2900	85/105	0.25/0.30	43/48	550
SP101A	1123HST.GN	○	115	50/60	0.21/0.18	20/18	2550/2900	85/105	0.25/0.30	43/48	550
SP102A	1123MSL.GN	○	115	50/60	0.17/0.16	15/15	2400/2600	78/84	0.14/0.21	33/38	550
SP102A	1123MST.GN	○	115	50/60	0.17/0.16	15/15	2400/2600	78/84	0.14/0.21	33/38	550
SP103A	1123LSL.GN	○	115	50/60	0.13/0.11	11/11	2200/2000	76/70	0.12/0.08	38/36	550
SP103A	1123LST.GN	○	115	50/60	0.13/0.11	11/11	2200/2000	76/70	0.12/0.08	38/36	550
SP100A	1123XBL.GN	○	115	50/60	0.26/0.24	22/20	2850/3150	97/117	0.34/0.39	45/50	550
SP100A	1123XBT.GN	○	115	50/60	0.26/0.24	22/20	2850/3150	97/117	0.34/0.39	45/50	550
SP101A	1123HBL.GN	○	115	50/60	0.21/0.18	20/18	2750/3050	87/107	0.26/0.32	45/50	550
SP101A	1123HBT.GN	○	115	50/60	0.21/0.18	20/18	2750/3050	87/107	0.26/0.32	45/50	550
SP102A	1123MBL.GN	○	115	50/60	0.17/0.16	16/15	2500/2700	80/88	0.15/0.22	35/40	550
SP102A	1123MBT.GN	○	115	50/60	0.17/0.16	16/15	2500/2700	80/88	0.15/0.22	35/40	550
SP103A	1123LBL.GN	○	115	50/60	0.13/0.11	11/11	2150/2300	72/78	0.09/0.13	37/39	550
SP103A	1123LBT.GN	○	115	50/60	0.13/0.11	11/11	2150/2300	72/78	0.09/0.13	37/39	550

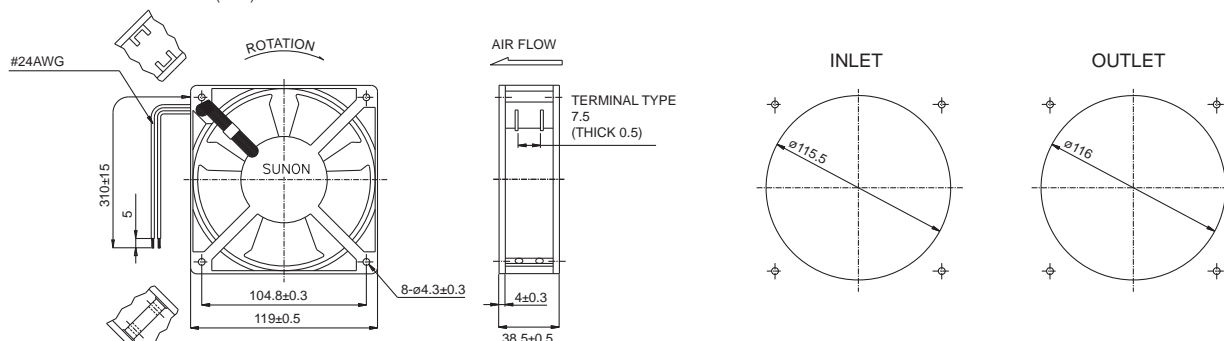
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

■ Air Flow-Static Pressure Characteristics



■ External dimensions(mm)



*All model could be customized. Please contact with Sunon Sales.

*Specifications are subject to change without notice. Please Visit SUNON website at <http://www.sunon.com> for update information.