SPECIFICATION FOR APPROVAL

To:		Sample issue nr.:	CA12B016/99
P/N:	A12B23HTSW00	Sample issue date:	June 6th ,1999
Description:	119x119x38mm AC Fan	Sample q.ty:	

1. SCOPE

This specification defines the electrical and mechanical characteristics of the a.c. fan.

2. STANDARD SAFETY APPROVAL

A	UL		CSA	P	VDE		TUV
A	CUL		BS			A	CE

A = APPROVED P = PENDING

Part. Nr : A12B23HTSW00

3.0 TECHNICAL DATA

Features		
Rated Voltage	230	Va.c.
Operating Voltage Range	216 - 244	Va.c.
Starting Voltage at 50Hz	100	Va.c.
Frequency	50/60	Hz
Input Power	20/19	W
Input Current	0.09/0.08	A
Rated Speed	2650/2950	RPM
Max Air Flow	150/167	m^3/h
Max Air Pressure	66(6.7) / 82(8.3)	Pa (mm H_2O)
Noise Level	43/48	dB(A)

Leakage Current	The leakage current, measured between casing and terminals supply, is not over 0.75 mA, when the fan is supplied at Rated Voltage + 6% in conformity with EN 60335 standard.		
Electric Strength	The insulation is subjected for 1 min to a voltage of 1250 Va.c. having a frequency of 50 Hz or 60 Hz between casing and terminals. No breakdown shall occur during the test.		
Life Expectance (L10)		L10 at 40°C	L10 at max Oper. Temp.
	Ball bearing	40,000 hours	20,000 hours
	Sleeve bearing	30,000 hours	20,000 hours
	At rated voltage, shaft horizontal, continuous operation and relative humidity of 65%.		
Rotation	CW looking at name plate side		
Air Flow Direction	Air exhaust over struts.		
Motor Protection	By impedance.		
Insulation Class	B class in accordance to IEC 85 standard.		
Degree of Protection	IP20 code in compliance with EN 60529 standard.		
Connection	Electrical connection via 2 flat terminals 3.0x0.5 mm. Earth connection via four holes M4 on the casing.		

3.1 TESTS CONDITION

3.1 Input Current and Power: Measured after 30 minutes of continuous rotation at rated voltage.

3.2 Rated Speed: Measured after 30 minutes of continuous rotation at rated voltage.

3.3 Air Flow and Static Pressure: Determined in reference to AMCA 210 standard. The curve apply an air density of 1,2 Kg/m^3.

3.4 Noise Level: Measured in reference to DIN 45635 standard in anechoic chamber with the microphone positioned 1 meter from the air intake.

Part. Nr : A12B23HTSW00

4.0 MECHANICAL

4.1 **Dimensions:** See Attachment.

4.2 **Casing Material:** Die cast aluminium alloy.
4.3 **Fan Blade Material:** UL94V-0 Glass Fibre reinforced Polybutyleneterephthalat PBT
4.4 **Bearing System:**

4.41	[ ]	Two Balls
4.42	[X]	Sleeve

4.5 **Weight:** 550 g.

5.0 ENVIROMENTAL

5.1 **Operating Temperature:**

5.10 Ball bearing	-40°C to +70°C
5.11 Sleeve bearing	-10°C to +60°C

5.2 **Storage Temperature:** -45°C to +70°C

6.0 PROTECTION

6.1 **Abnormal operation:** the winding temperature is not over 165°C at the steady conditions, when the fan is operated under lock rotor conditions and supplied at Rated Voltage, in accordance with the EN 60335 standard.

7.0 RESPONSABILITY

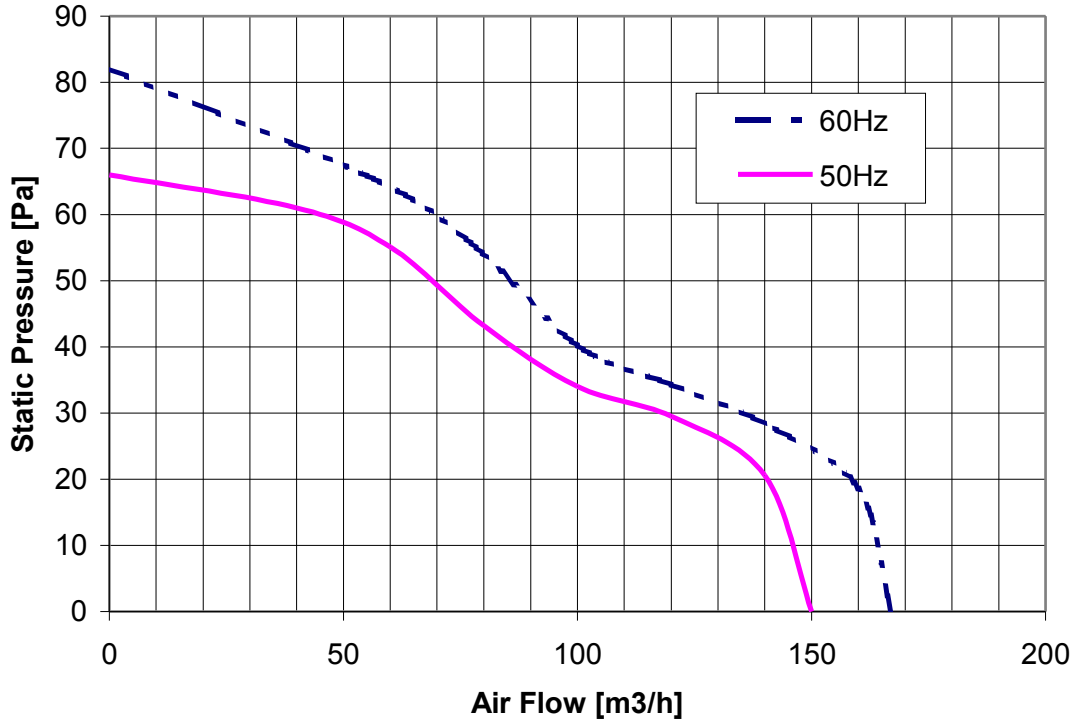
Electrical connections have to be carried out by qualified technicians and according to existing safety rules. Be careful that the fan can be subjected to sudden stops during operation not due to product defects. In case the fan has to guarantee a continuous operation without stops, it is necessary to install at least an alarm device for the signalling of the stop condition of the fan.

8.0 PRODUCTION LOCATION

Made in Taiwan

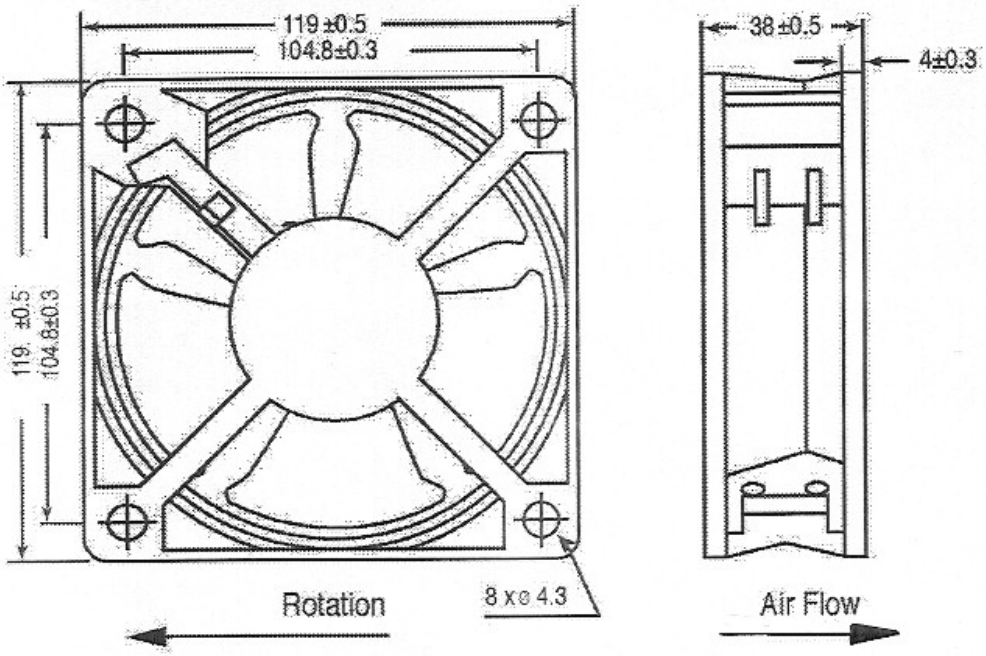
P/N: **A12B23HTSW00**

The curve of performances at rated voltage



P/N: **A12B23HTSW00**

Dimensions drawing [mm]


119±0.5
104.8±0.3
119. ±0.5
104.8±0.3
Rotation
8 xø 4.3
38±0.5
4±0.3
Air Flow