

DC Fan Motor 120 sq.×38t (ASFN1)



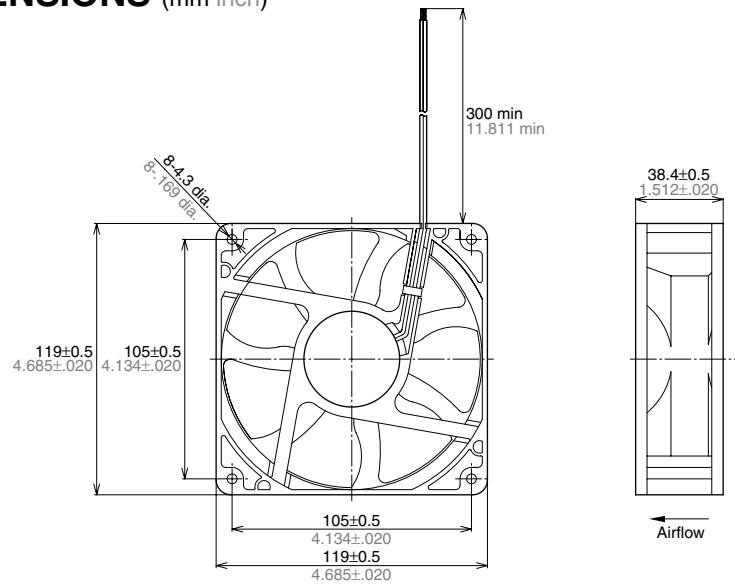
DC Fan Motor

120 sq.×38t
(ASFN1)

DIMENSIONS (mm inch)



RoHS Directive compatibility



RATING

1. Standard speed

Part number	Rated voltage (V)	Input power*1/*2 (W)	Rated current*1/*2 (mA)	Rotation speed (r/min)	Max. air flow (m³/min)	Max. static pressure (Pa)	Noise (dB(A))	Weight (g)
ASFN10B71	12	8.64/6.60	720/550	2,950	3.07	68.1	42.5	260
ASFN10B72	24	9.60/7.44	400/310					

2. Middle speed

Part number	Rated voltage (V)	Input power*1/*2 (W)	Rated current*1/*2 (mA)	Rotation speed (r/min)	Max. air flow (m³/min)	Max. static pressure (Pa)	Noise (dB(A))	Weight (g)
ASFN12B71	12	6.24/4.80	520/400	2,650	2.75	55.9	41.0	260
ASFN12B72	24	6.72/5.04	280/210					

3. Low speed

Part number	Rated voltage (V)	Input power*1/*2 (W)	Rated current*1/*2 (mA)	Rotation speed (r/min)	Max. air flow (m³/min)	Max. static pressure (Pa)	Noise (dB(A))	Weight (g)
ASFN14B71	12	4.20/3.24	350/270	2,300	2.37	44.1	37.0	260
ASFN14B72	24	4.80/3.60	200/150					

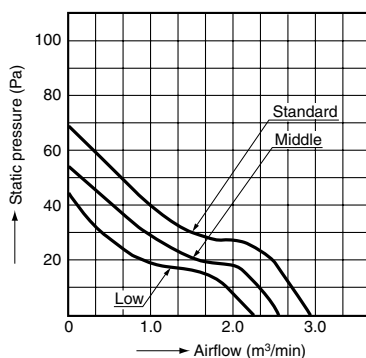
Notes: 1. Values above without designations are averages.

2. Noise levels are based on measurements taken at a distance of 1 m from the front of the fan.

*1: Designates maximum values

*2: Designates average values

DATA (Airflow - Static pressure Characteristic Curve)



MATERIALS USED

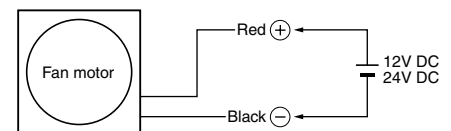
Frame: plastic

Propeller: plastic

Bearings: ball bearings

Lead wires: UL1007 and AWG24

WIRING DIAGRAM



SPECIFICATIONS

Ambient temperature	-10°C to +60°C +14°F to +140°F
Ambient humidity	15 to 85% RH
Temperature rise	Coil surface: Max. 50 °C 122°F (Nominal voltage, by resistive method) External surface: Max. 20°C 68°F (Nominal voltage, by thermocouple method)
Breakdown voltage	500 V AC for 1 min. (between lead wire and external housing)
Insulation resistance	Min. 10 MΩ (at 500 V DC)
Vibration resistance	Frequency 10 to 55Hz Double amplitude width 0.75mm Applied direction X, Y and Z directions Applied time 10 min. in each direction
Lead wire tensile strength	9.8 N, single wires did not break at 15 seconds
Fan blockage	No coil burnout even after blockage of 72 hrs. at nominal voltage.
Reverse polarity power connection	No damage even after reverse polarity connection for short time at nominal voltage.
Expected life	90% survival rate at 50,000 hrs. (When rotation frequency drops 30% of initial value when run at nominal voltage under 25°C 77°F, room humidity.)

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