

SERIES: CFM-30B | **DESCRIPTION:** DC AXIAL FAN**FEATURES**

- 30 x 30 mm frame
- multiple speed options for different cooling needs
- auto restart protection standard on all models
- 5 Vdc and 12 Vdc models available
- dual ball bearing construction



MODEL	input voltage		input current ¹	input power ¹	rated speed ¹	airflow ²	static pressure ³	noise ⁴
	rated (Vdc)	range (Vdc)	max (A)	max (W)	typ (RPM±15%)	(CFM)	(inch H ₂ O)	typ (dBA)
CFM-3010B-080-267	5	4.5~5.5	0.17	0.85	8,000	2.52	0.08	26.8
CFM-3010B-0100-316	5	4.5~5.5	0.24	1.20	10,000	3.15	0.13	31.6
CFM-3010B-0130-373	5	4.5~5.5	0.51	2.55	13,000	4.10	0.22	37.3
CFM-3010B-180-267	12	10.8~13.2	0.09	1.08	8,000	2.52	0.08	26.8
CFM-3010B-1100-316	12	10.8~13.2	0.11	1.32	10,000	3.15	0.13	31.6
CFM-3010B-1130-373	12	10.8~13.2	0.17	2.04	13,000	4.10	0.22	37.3

Notes:

1. At rated voltage, after 3 minutes.
2. At rated voltage, room temperature, 65% humidity, 0 inch H₂O static pressure.
3. At rated voltage, 0 CFM airflow.
4. Measured in an anechoic chamber as per ISO3745/GB4214-84 at rated voltage, with background noise 20±2 dBA at 1 m from the fan intake.
5. All specifications are measured at 25°C, 65% relative humidity unless otherwise specified.

INPUT

parameter	conditions/description	min	typ	max	units
operating input voltage ⁶	5 Vdc input models	4.5	5	5.5	Vdc
	12 Vdc input models	10.8	12	13.2	Vdc
starting voltage	5 Vdc input models		3.5		Vdc
	12 Vdc input models		9.0		Vdc

Note: 6. See Model section on page 1 for specific input voltage ranges.

PERFORMANCE⁷

parameter	conditions/description	min	typ	max	units
rated speed	at rated voltage, 25°C, after 3 minutes	8,000		13,000	RPM
air flow	at 0 inch H ₂ O, see performance curves	2.52		4.10	CFM
static pressure	at 0 CFM, see performance curves	0.08		0.22	inch H ₂ O
noise	at 1 m, rated speed	26.8		37.3	dB(A)

Note: 7. See Model section on page 1 for specific values.

PROTECTIONS / FEATURES

parameter	conditions/description	min	typ	max	units
auto restart	on all models				

SAFETY & COMPLIANCE

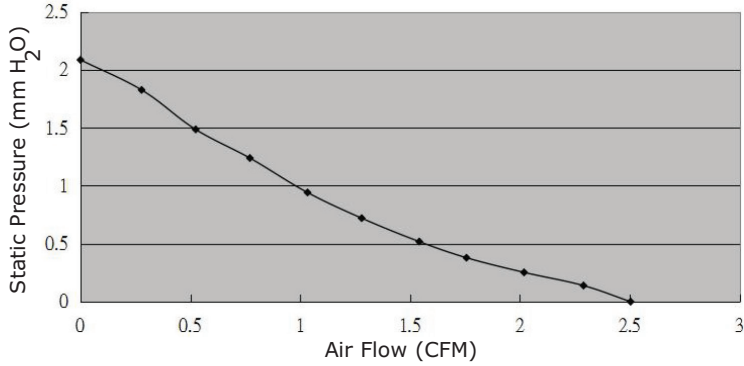
parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc between frame and positive terminal	10			MΩ
dielectric strength	at 500 Vac, 60 Hz, 1 minute between housing and positive terminal			5	mA
safety approvals	UL/cUL 507, TUV (EN 60950-1:2006+A11+A1+A12+A2)				
EMI/EMC	EN 55032:2015, EN 55024:2010+A1				
life expectancy	at 40°C, 65% RH, 90% confidence level		70,000		hours
RoHS	yes				

ENVIRONMENTAL

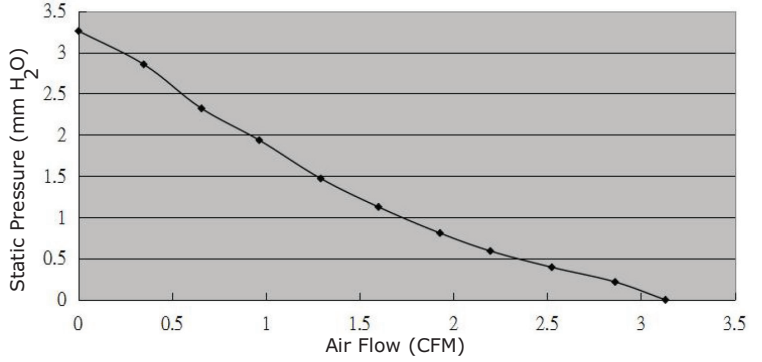
parameter	conditions/description	min	typ	max	units
operating temperature		-10		70	°C
storage temperature		-40		75	°C
operating humidity	non-condensing	35		85	%
storage humidity	non-condensing	35		85	%

PERFORMANCE CURVES

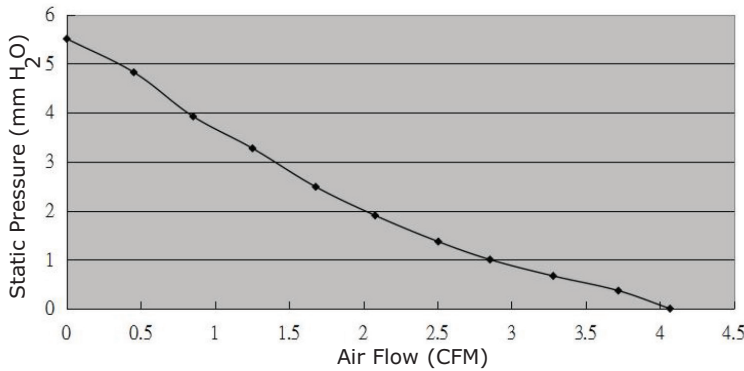
CFM-3010B-080-267



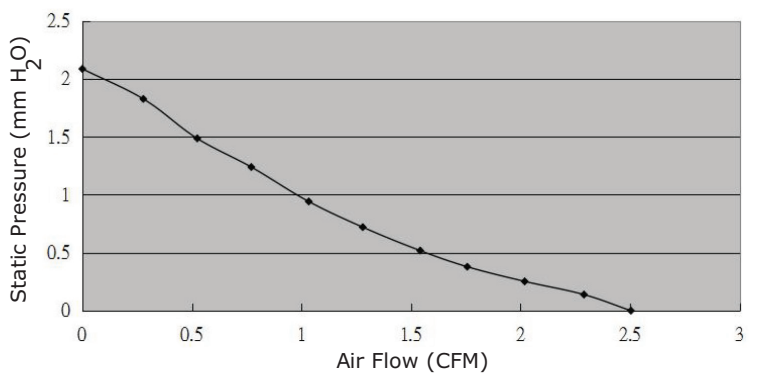
CFM-3010B-0100-316



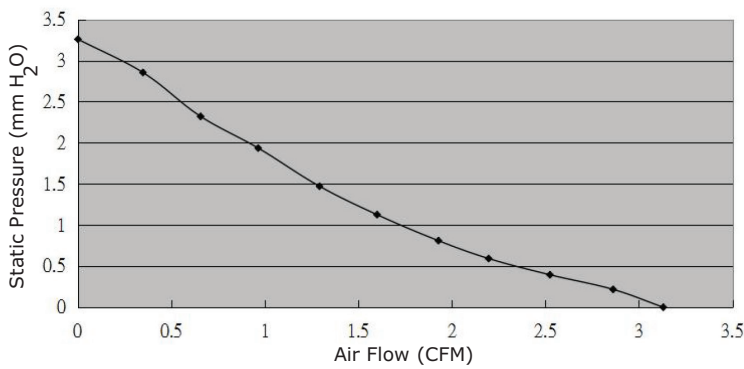
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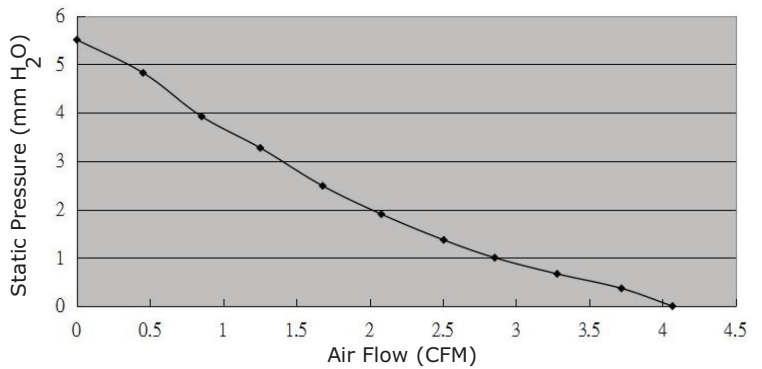
CFM-3010B-180-267



CFM-3010B-1100-316



CFM-3010B-1130-373



MECHANICAL

parameter	conditions/description	min	typ	max	units
motor	4 pole DC brushless				
bearing system	dual ball bearing				
direction of rotation	counter-clockwise viewed from front of fan blade				
dimensions	30 x 30 x 10.5				mm
material	PBT (UL94V-0)				
weight			8.1		g

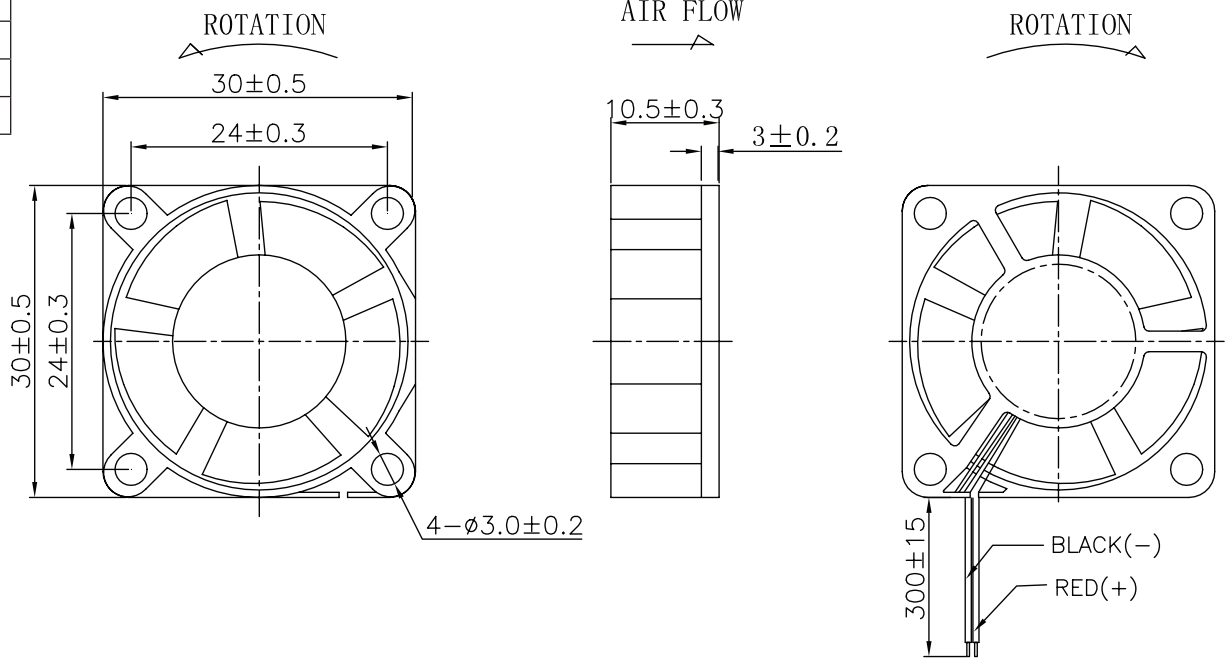
MECHANICAL DRAWING

units: mm

wire: UL 1061, 26 AWG

MOUNTING SCREW (Pan Head)			
Screw Type	Size	Standard	Torque
Machine Screw	M2.5	JIS B1111-1974	7.5 kgf-cm

WIRE CONNECTIONS	
Wire Color	Function
Red	+Vin
Black	-Vin



REVISION HISTORY

rev.	description	date
1.0	initial release	04/14/2020

The revision history provided is for informational purposes only and is believed to be accurate.

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