CUI DEVICES

date 04/14/2020

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SERIES: CFM-80B **DESCRIPTION:** DC AXIAL FAN

FEATURES

- 80 x 80 mm frame
- multiple speed options for different cooling needs
- auto restart protection standard on all models
- 12 Vdc and 24 Vdc models available
- dual ball bearing construction





MODEL		iput Itage	input current¹	input power¹	rated speed¹	airflow ²	static pressure³	noise4
	rated (Vdc)	range (Vdc)	max (A)	max (W)	typ (RPM±10%)	(CFM)	(inch H ₂ O)	typ (dBA)
CFM-8038B-130-387	12	10.8~13.2	0.21	2.52	3,000	37.06	0.21	38.7
CFM-8038B-140-449	12	10.8~13.2	0.38	4.56	4,000	49.42	0.37	45.0
CFM-8038B-150-498	12	10.8~13.2	0.57	6.84	5,000	61.77	0.58	49.8
CFM-8038B-230-387	24	21.6~26.4	0.15	3.60	3,000	37.06	0.21	38.7
CFM-8038B-240-449	24	21.6~26.4	0.21	5.04	4,000	49.42	0.37	45.0
CFM-8038B-250-498	24	21.6~26.4	0.45	10.80	5,000	61.77	0.58	49.8

Notes:

- 1. At rated voltage, after 3 minutes.
- 2. At rated voltage, room temperature, 65% humidity, 0 inch $\rm H_20$ static pressure.
- 3. At rated voltage, 0 CFM airflow.
- 3. At rated voltage, o Enrichment.

 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	12 Vdc input models 24 Vdc input models	10.8 21.6	12 24	13.2 26.4	Vdc Vdc
starting voltage	arting voltage 12 Vdc input models 7.0 24 Vdc input models 14.0			Vdc Vdc	

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

PERFORMANCE⁷

parameter	meter conditions/description		typ	max	units
rated speed	at rated voltage, 25°C, after 3 minutes	3,000		5,000	RPM
air flow	at 0 inch H ₂ O, see performance curves	37.06		61.77	CFM
static pressure	at 0 CFM, see performance curves	0.21		0.58	inch H ₂ O
noise	at 1 m, rated speed	38.7		49.8	dBA

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				

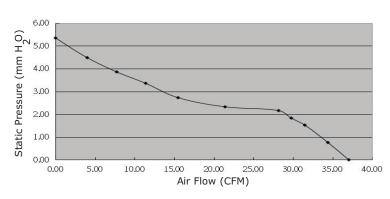
SAFETY & COMPLIANCE

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				

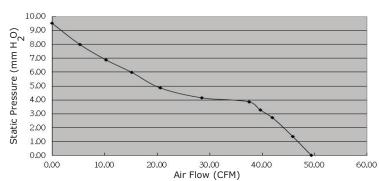
ENVIRONMENTAL

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	%

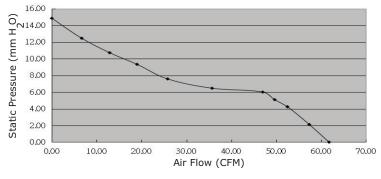
CFM-8038B-130-387



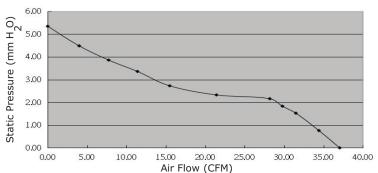
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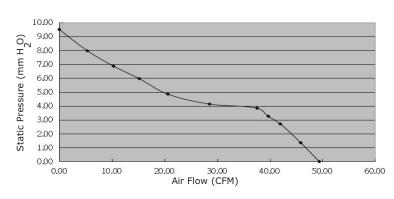
CFM-8038B-150-498



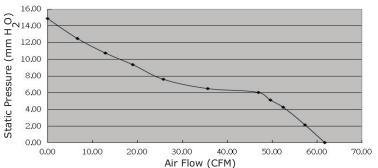
CFM-8038B-230-387



CFM-8038B-240-449



CFM-8038B-250-498



MECHANICAL

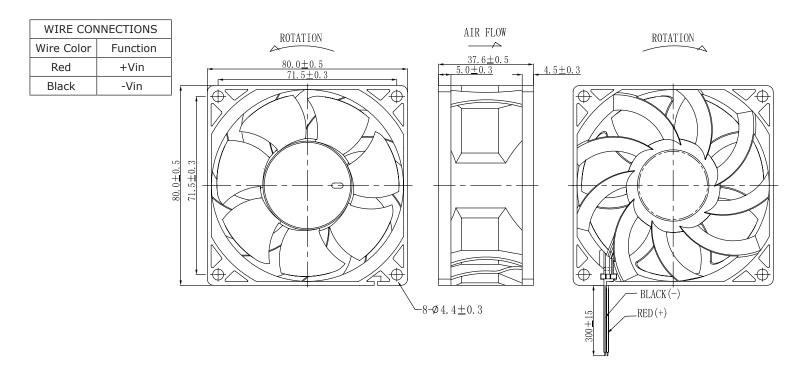
parameter	conditions/description	min	typ	max	units
motor	4 pole DC brushless				
bearing system	dual ball bearing				
direction of rotation	counter-clockwise viewed from front of fan blade				
dimensions	80 x 80 x 37.6				mm
material	PBT (UL94V-0)				
weight			180		g

MECHANICAL DRAWING

units: mm

wire: UL 1007, 24 AWG

MOUNTING SCREW (Pan Head)								
Screw Type	Size	Standard	Torque					
Machine Screw	M4	JIS B1111-1974	5.5 kgf-cm					
Self-tapping Screw	M5	JIS B1122 Type 2	5.5 kgf-cm					



Additional Resources: Product Page

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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.

CUI DEVICES

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