Low Voltage Axial Flow Fans



Miniature, 'Ultraslim'



Features:

- 25, 30, and 35mm ultra slim fans.
- Ideally suited for precision cooling.
- Patented single-coil brushless 8 pole motor design.
- Locked rotor protection.
- Low power consumption.
- Fitted with precision ball bearings.

Characteristics:

Motor design Insulation resistance Dielectric strength Noise level

Input power, current and speed

Tolerance Air performance

Specifications:

Rated voltage Operating voltage range Starting voltage Rated power Direction of rotation Operating temperature Storage temperature Bearing system Vibration

GM1202PFV2-8.GN:

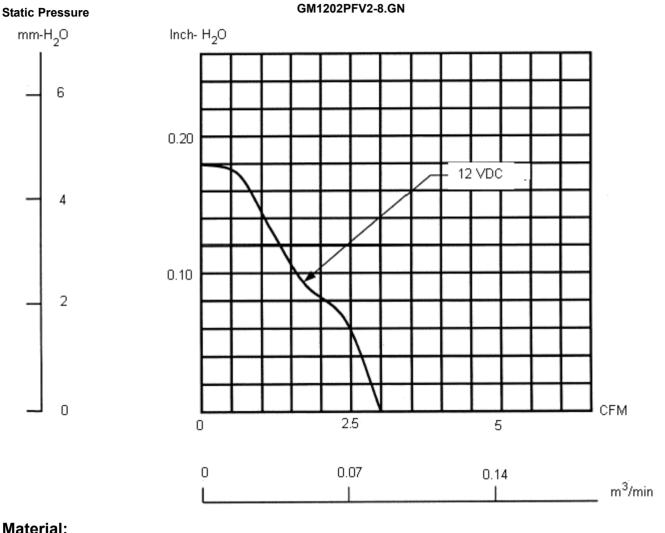
Rated speed Air delivery Static pressure Rated current Noise level

- : Patented single-coil DC brushless 8 pole motor design.
- : More than 500M Ω between internal stator and lead wire(+) measured at DC 500V.
- : Applied AC 500V for one minute or AC 600V for 2 seconds between housing and lead wire(+).
 - : Measured in a semi-anechoic chamber with background noise level below 15db(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.
- : Measured after continuous 10 minute operation at rated voltage in clean air, and at ambient temperature of 25°C.
- : ±15% on rated power and current.
- : Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.
- : 12V dc.
- : 4.5 ~ 13.8V dc.
- : 4.5V dc (25°C Power On/Off).
- : 0.5 watts.
- : Counter-clockwise viewed from front of fan blade.
- : -10 to +70°C.
- : -40 to +70°C.
- : Vapo bearing system.
- : Vibration of acceleration 1.5G and frequency 5~50~5Hz is applied in all 3 directions (X, Y, Z), in cycles of 1 minute each, for a total vibration time of 30 minutes.
- : 10,000RPM ±30%.
- : 3.0CFM.
- : 0.18 inch-H₂O.
- : 38mA.
- : 16db(A).



Low Voltage Axial Flow Fans

Performance Curves



Material:

Frame Impeller Bobbin Lead Wire : Thermoplastic PBT.

: Thermoplastic PBT.

: Thermoplastic PBT.

: 28AWG, +Red, -Black.



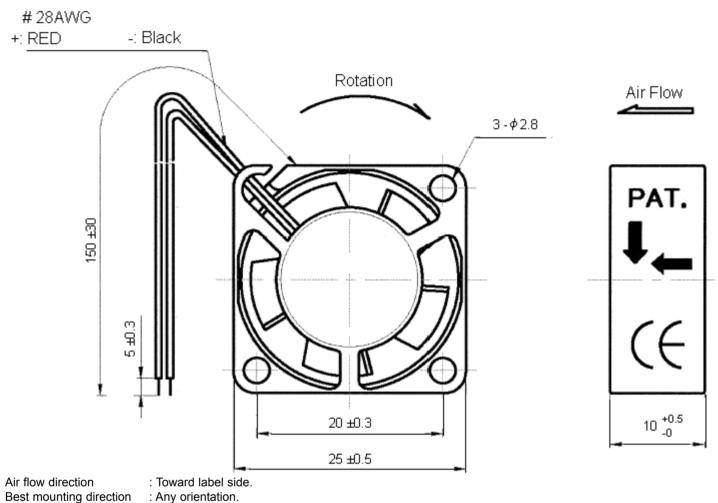
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Low Voltage Axial Flow Fans



Dimensions

GM1202PFV2-8.GN



Specifications:

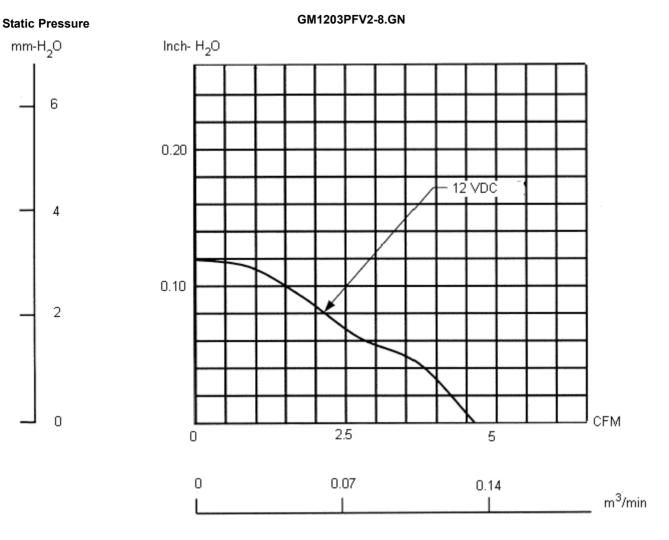
GM1203PFV2-8.GN:

Rated speed	: 8000RPM ±30%.
Air delivery	: 4.6CFM.
Static pressure	: 0.12 inch-H ₂ O.
Rated current	: 42mA.
Noise level	: 20db(A).



Low Voltage Axial Flow Fans

Performance Curves





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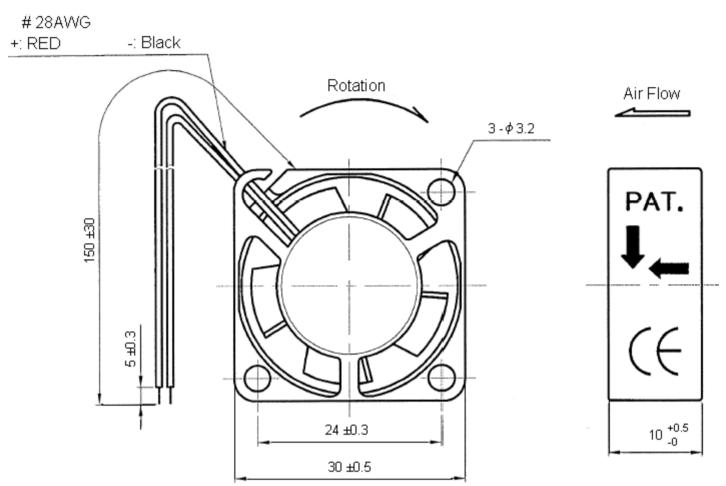
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Low Voltage Axial Flow Fans

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Dimensions

GM1203PFV2-8.GN



Air flow direction: Toward label side.Best mounting direction: Any orientation.

Specifications:

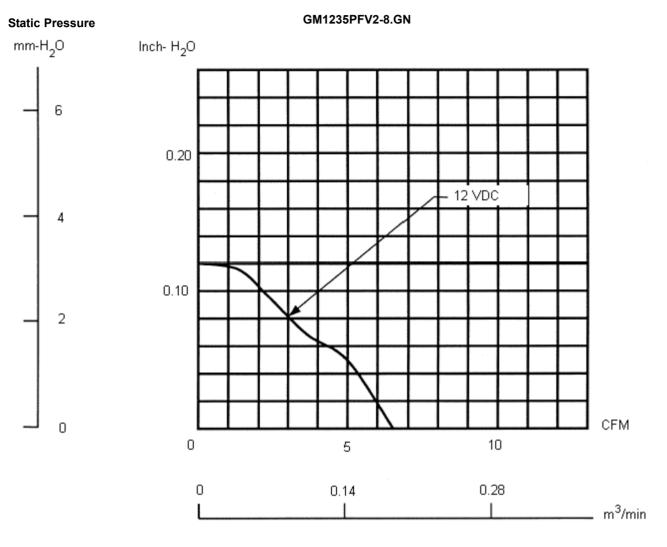
GM1235PFV2-8.GN: Rated speed Air delivery Static pressure Rated current Noise level

: 7500RPM ±30%. : 6.5CFM. : 0.12 inch-H₂O. : 43mA. : 22db(A).



Low Voltage Axial Flow Fans

Performance Curves





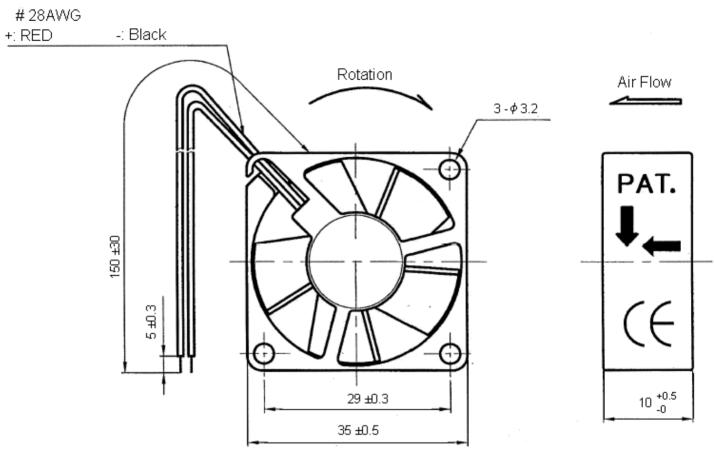
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Low Voltage Axial Flow Fans

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Dimensions

GM1235PFV2-8.GN



Notes:

Safety:

1. There is no thermo-protector installed in this product, such as thermo-fuse, or current-fuse, or thermo-protector. There may be smoking, ignition, or electric shock by insulation degradation in cases of motor lock, motor lead short circuit, overload, over voltage, and/or other failure. Please add the protection circuit to your product.

2. There is no reverse-connection prevention diode of VDC (+) and GND (-) installed in this product. Therefore, if VDC (+) and GND (-) are reverse connected, it may cause smoking, ignition, and/or destruction, although these conditions may not manifest immediately. We recommended that a protection device be installed on your product when there is possibility of reverse connection.

3. Please verify that this product is being installed and used in compliance with all safety standards.

4. Please handle and install this product carefully. Hitting and dropping this product this may cause damage.

5. Please donot damage this product including coil and lead wires while installing or wiring. There may be smoking or fire. **Other:**

1. When building your device, please examine thoroughly any variation of EMC, temperature rise, life data, quality, etc. of this product by shock/drop/vibration testing, etc. If there are any problems or accidents in connection with this product, it should be mutually discussed and examined.

2. Fan holders or bearings may be damaged if touched with fingers or other objects. Additionally, static electricity (ESD) may cause damage the internal circuits. Please handle this product carefully.



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Other:

3. Please avoid operating this product in poisonous material (organic silicon, cyanogens, formalin, phenol, etc.) or corrosive gas environments (H2S, SO2, NO2, Cl2, etc).

4. Improper mounting may cause harsh resonance, vibration, and noise. Please mount securely.

5. Safety is a top priority. Please furnish guard accessories to prevent injury to personnel.

6. Unless otherwise noted, all tests are conducted at 25°C ambient temperature and 65% relative humidity.

7. Always ensure that fans are stored according to the storage temperatures specified. Donot store in a high humidity environment. If the fans are stored for more than 6 months, with functional testing recommended before use.

8. This reserves the right to use components with equivalent specifications from multiple sources.

Specification Table

u ft/min	ltrs/sec	(dBA at 1m)				Part Number
cu ft/min	110,000		н	W	D	
3.0	0.9	16	25	25	10	GM1202PFV2-8.GN
4.6	1.4	20	30	30	10	GM1203PFV2-8.GN
6.5	2.1	22	35	35	10	GM1235PFV2-8.GN
	4.6	4.6 1.4	4.6 1.4 20	4.6 1.4 20 30	4.6 1.4 20 30 30	4.6 1.4 20 30 30 10

Dimensions : Millimetres (Unless Specified)



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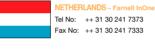


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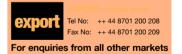


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