

07530GS

DC Blower Fan

Φ75X30^L



Reference Spec

General Specifications

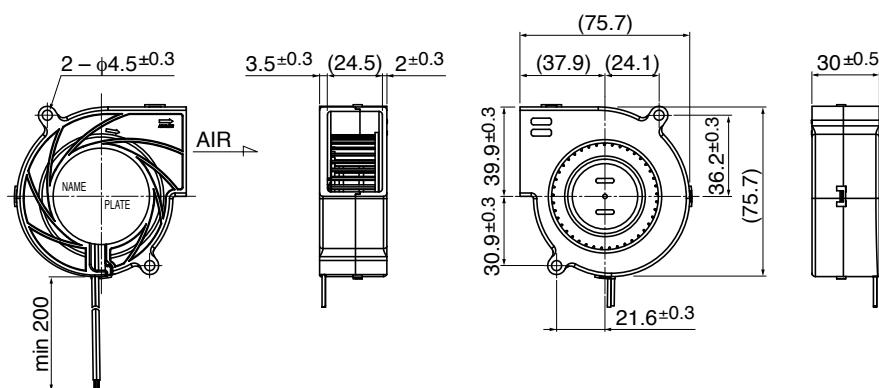
Motor Protection	Auto Restart / Polarity Protection
Insulation Resistance	10MΩ or over with a DC500V Megger
Dielectric Withstand Voltage	AC700V 1s
Allowable Ambient Temperature Range	- 10°C ~ + 70°C (Operating) - 40°C ~ + 70°C (Storage) non-condensing environment

Expected Life

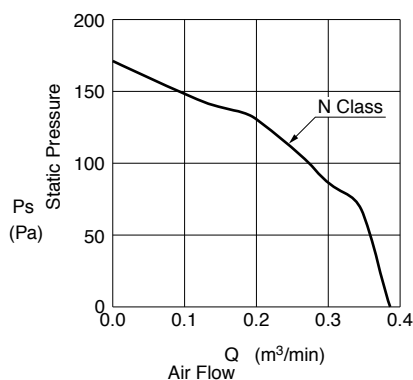
※ Failure Rate: 10% (L10 Life)

40°C 50,000 (Hours)

Outline



Characteristic Curves



Material

Casing	: Plastic (Black) UL94V-0
Impeller	: Plastic (Black) UL94V-0
Bearing	: Sleeve Bearing
Lead Wire	: UL1007 AWG26 + : Red, - : Black

Specifications

Model	Product No.	Rating Voltage (V)	Operating Voltage (V)	Current (A)*1	Input Power (W)*1	Speed (min ⁻¹)*1	Max. Air Flow (m³/min)*1 (CFM)*1	Max. Static Pressure (Pa)*1 (In H ₂ O)*1	Noise (dB)*1	Mass (g)
07530GS-12N-AAD-	0	12	6.0 ~ 13.8	0.33	3.96	3650	0.39 13.7	170.0 0.68	43.5	90
07530GS-24N-AAD-	0	24	10.0 ~ 27.8	0.16	3.84	3650	0.39 13.7	170.0 0.68	43.5	

Rotation: Clockwise as seen from the label side

*1: Average Values in Free Air

This information is reference spec, so final spec may change.

General Specifications

Motor Type: DC Brushless Motor

Motor Protection:

Auto Restart/Polarity Protection
(Motor withstands reverse connection for positive and negative leads.)

Insulation Resistance:

10M Ω or over with a DC500V Megger

Dielectric Withstand Voltage:

AC 700V 1s or 500V 1min

Allowable Ambient Temperature Range:

-10°C ~ +70°C (Operating)
-40°C ~ +70°C (Storage)
(non-condensing environment)

DC Blower Benefits & Applications

DC Blower

With high static pressure, NMB centrifugal blowers are suitable for cooling electronic systems generating lots of heat and high impedance from back pressure. A DC blower contains a circular impeller within an enclosed cage, which is often referred to as a "squirrel cage". This design allows DC Blowers to create directed airflow under high pressure conditions. A DC Blower has a more concentrated airflow in which the equipment pulls air in from the sides and forces it out at a concentrated 90° angle.

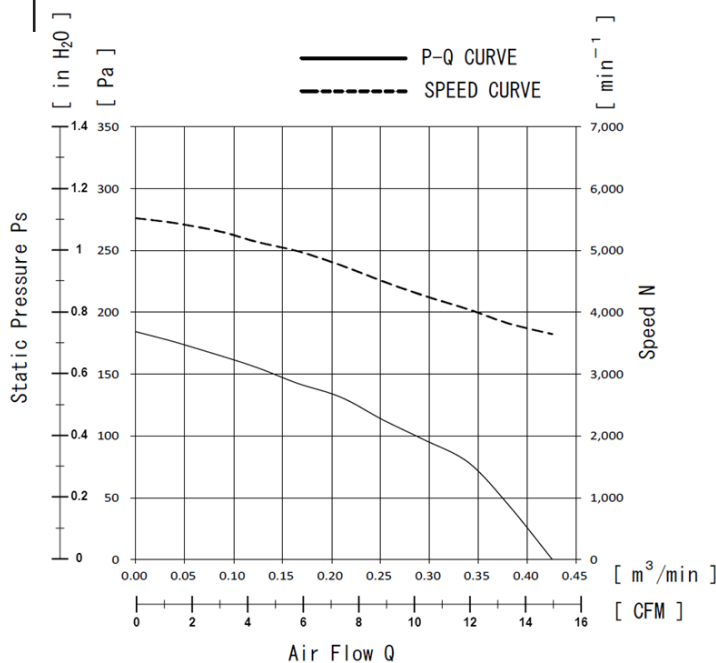
Benefits

- High pressure and high airflow
- Cost savings with sleeve bearing, yet reliable
- Concentrated airflow to effectively cool target
- Smooth PQ curve with no knee
- Tacho Output for speed monitoring

Applications

- Factory Automation
- Humidifiers
- Telecomm
- OA Equipment
- Network Servers
- Home Appliances
- Medical Devices

Characteristics Curves



Life Expectancy L10

40°C 50,000 Hours

Specifications

MODEL	Rating Voltage	Operating Voltage	Current		Input Power		Speed	Max. Air Flow		Max. Static Pressure		Noise	Mass
			Avg	Max	Avg	Max		(CFM)	(m³/min)	(in H ₂ O)	(Pa)		
07530GS-12N-ATD-0	12	6.0 ~ 13.8	(A)*1	(A)*1	(W)*1	(W)*1	(min⁻¹)*1					(dB)*1	(g)
			0.33	0.40	3.96	4.80	3650	15.19	0.43	0.79	196	45.5	85

*1: Values in Free Air

TACHO Specifications

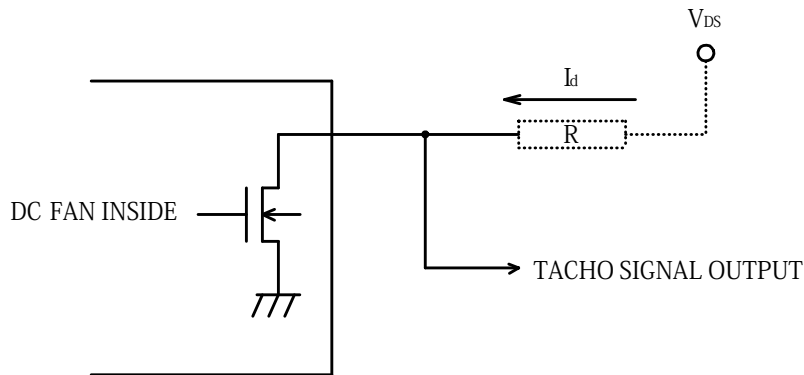
TACHO SIGNAL

1. OUTPUT CIRCUIT : OPEN COLLECTOR
2. SPECIFICATION

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

$V_{CE\text{ max}} : +15\text{V}$

$I_c\text{ max} : 3\text{mA}$ [$V_{CE(\text{sat})}\text{max} = 0.3\text{V}$]

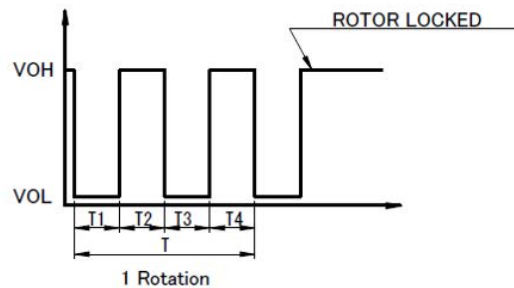


TACHO SIGNAL CIRCUIT

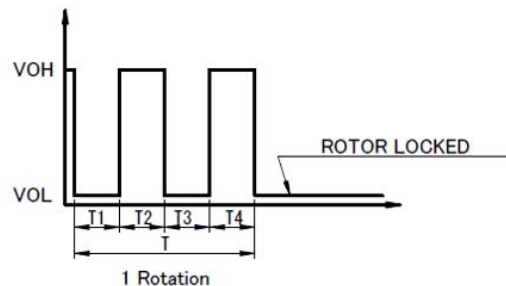
3. OUTPUT WAVEFORM : AT RATED VOLTAGE

4. OUTPUT SIGNAL VOLTAGE

3-1 Case-1



3-2 Case-2



- 1) When the rotor is locked at V_{OH} position of signal, signal keeps V_{OH} position.
- 2) When the rotor is locked at V_{OL} position of signal, signal keeps V_{OL} position.
- 3) $T = T_1 + T_2 + T_3 + T_4 = 60 / m = 1\text{ rotation}$
 m : Fan Rotation Speed (min^{-1})
 Tach Duty Cycle = $50\% \pm 10\%$

Materials

Casing : Plastic (Black UL94V-0)

Impeller : Plastic (Black UL94V-0)

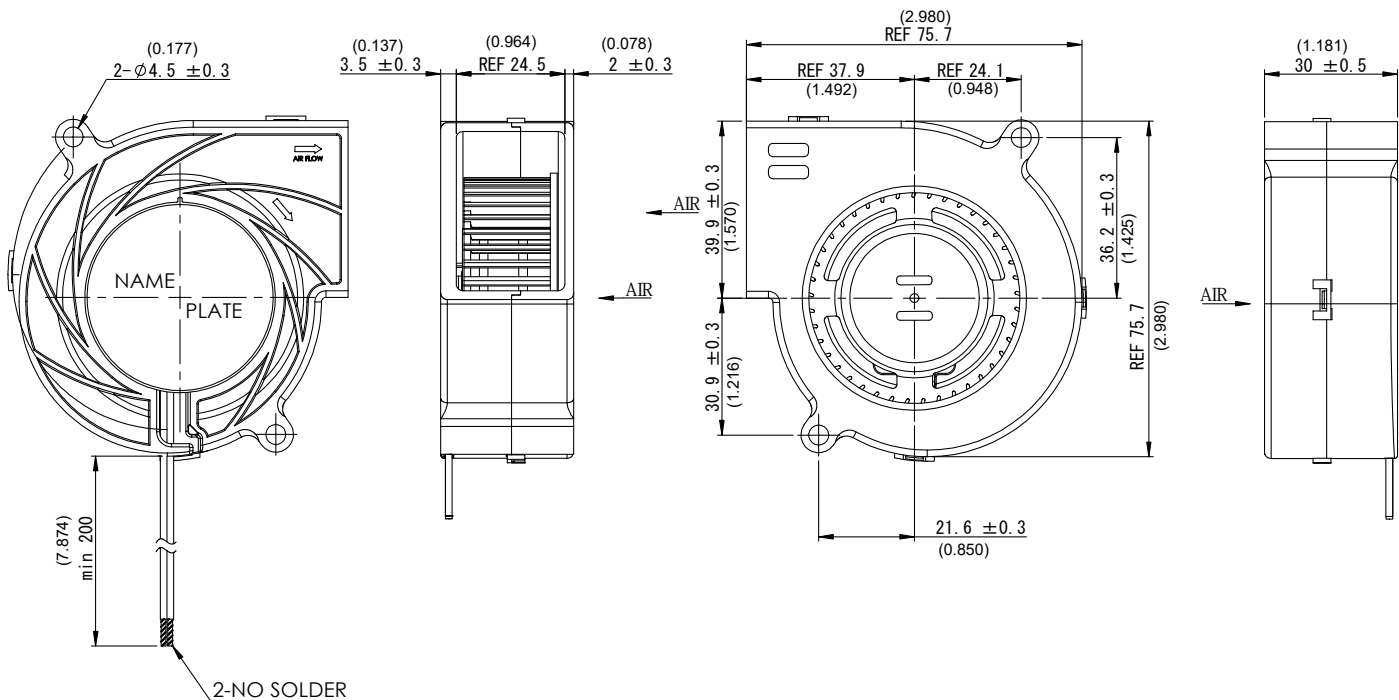
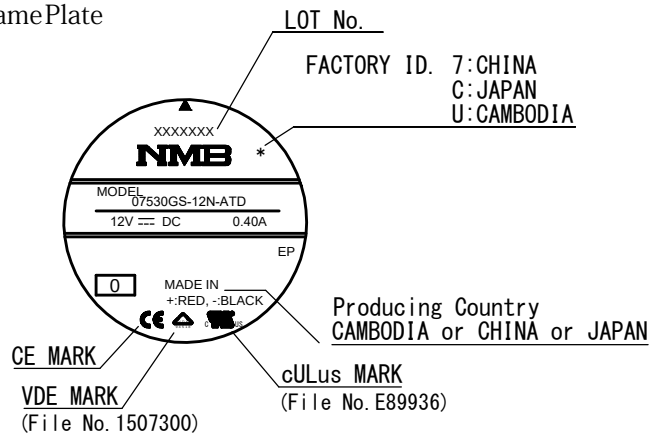
Bearing : Sleeve Bearing

Lead Wire : UL1007 AWG26

(+) : Red (-) : Black Tach: White

Outline

NamePlate



Unit: mm (inch)

General Specifications

Motor Type: DC Brushless Motor

Motor Protection:

Auto Restart/Polarity Protection
(Motor withstands reverse connection for positive and negative leads.)

Insulation Resistance:

10M Ω or over with a DC500V Megger

Dielectric Withstand Voltage:

AC 700V 1s or 500V 1min

Allowable Ambient Temperature Range:

-10°C ~ +70°C (Operating)
-40°C ~ +70°C (Storage)
(non-condensing environment)

DC Blower Benefits & Applications

DC Blower

With high static pressure, NMB centrifugal blowers are suitable for cooling electronic systems generating lots of heat and high impedance from back pressure. A DC blower contains a circular impeller within an enclosed cage, which is often referred to as a "squirrel cage". This design allows DC Blowers to create directed airflow under high pressure conditions. A DC Blower has a more concentrated airflow in which the equipment pulls air in from the sides and forces it out at a concentrated 90° angle.

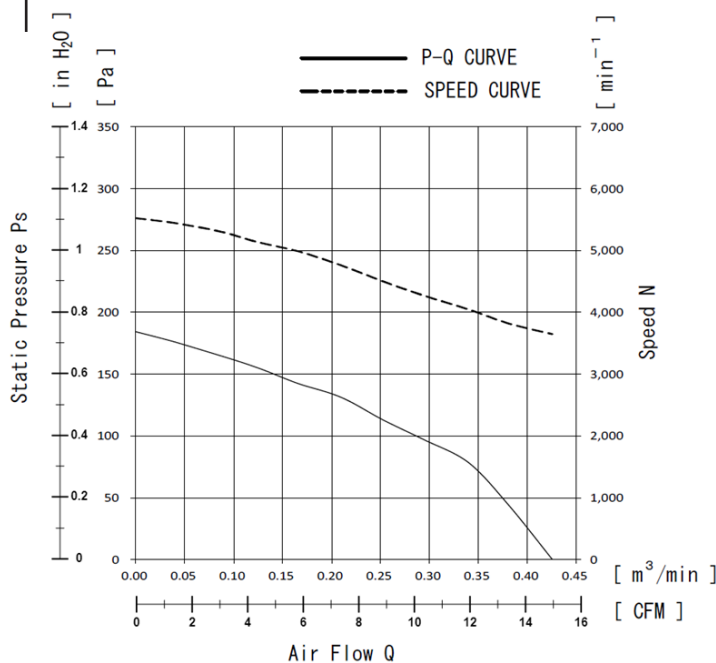
Benefits

- High pressure and high airflow
- Cost savings with sleeve bearing, yet reliable
- Concentrated airflow to effectively cool target
- Smooth PQ curve with no knee
- Tacho Output for speed monitoring

Applications

- Factory Automation
- Humidifiers
- Telecomm
- OA Equipment
- Network Servers
- Home Appliances
- Medical Devices

Characteristics Curves



Life Expectancy L10

40°C 50,000 Hours

Specifications

MODEL	Rating Voltage	Operating Voltage	Current		Input Power		Speed	Max. Air Flow		Max. Static Pressure		Noise	Mass
			Avg	Max	Avg	Max		(CFM)	(m³/min)	(in H₂O)	(Pa)		
07530GS-24N-ATD-0	(V)	(V)	(A)*1	(A)*1	(W)*1	(W)*1	(min⁻¹)*1					(dB)*1	(g)
	24	10.0 ~ 27.6	0.11	0.16	2.64	3.84	3650	15.19	0.43	0.79	196	45.5	85

*1: Values in Free Air

TACHO Specifications

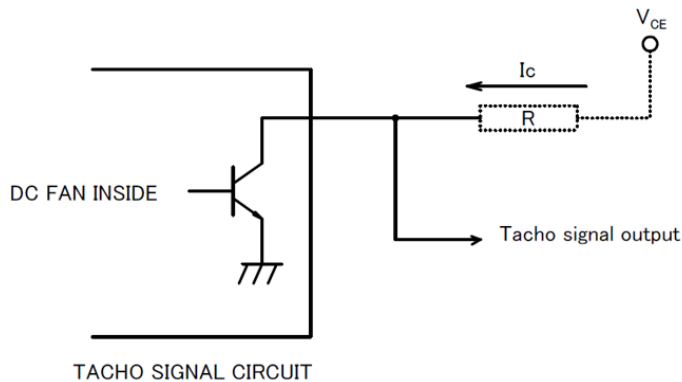
TACHO SIGNAL

1. OUTPUT CIRCUIT : OPEN COLLECTOR
2. SPECIFICATION

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

$V_{CE\text{ max}}$: +15V

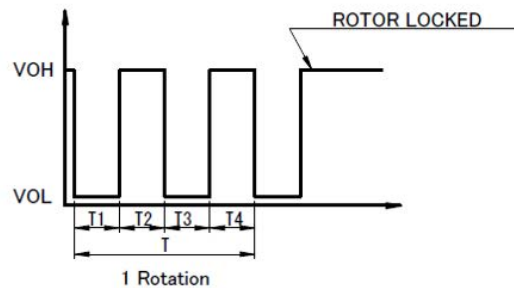
$I_c\text{ max}$: 5mA [$V_{CE(sat)\text{ max}} = 0.5\text{V}$]



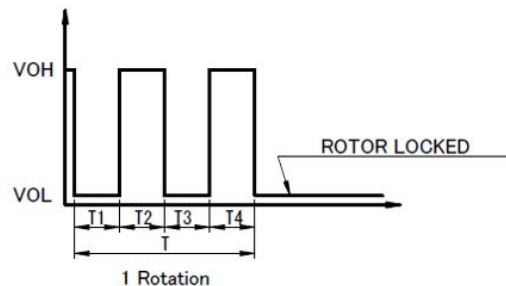
3. OUTPUT WAVEFORM : AT RATED VOLTAGE

4. OUTPUT SIGNAL VOLTAGE

3-1 Case-1



3-2 Case-2



- 1) When the rotor is locked at VOH position of signal, signal keeps VOH position.
- 2) When the rotor is locked at VOL position of signal, signal keeps VOL position.
- 3) $T = T1 + T2 + T3 + T4 = 60/m = 1\text{ rotation}$
 m : Fan Rotation Speed (min^{-1})
Tach Duty Cycle = $50\% \pm 10\%$

Materials

Casing : Plastic (Black UL94V-0)

Impeller : Plastic (Black UL94V-0)

Bearing : Sleeve Bearing

Lead Wire : UL1007 AWG26

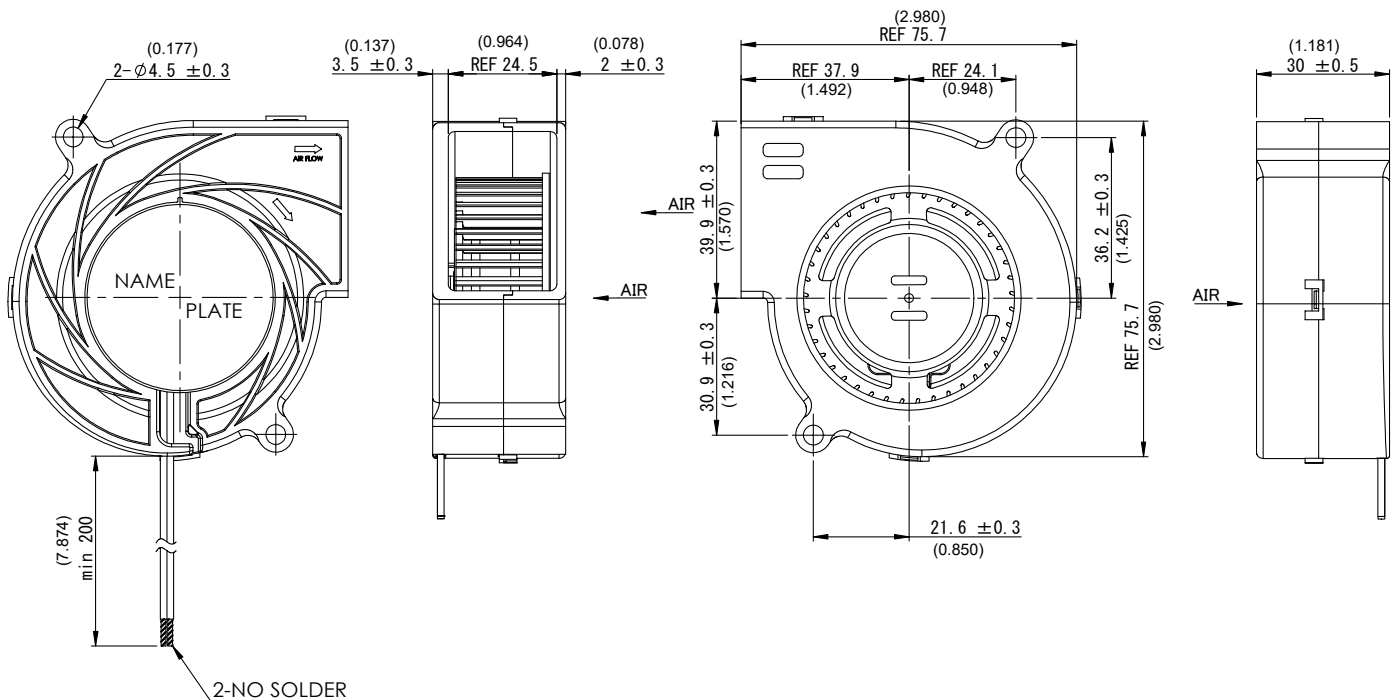
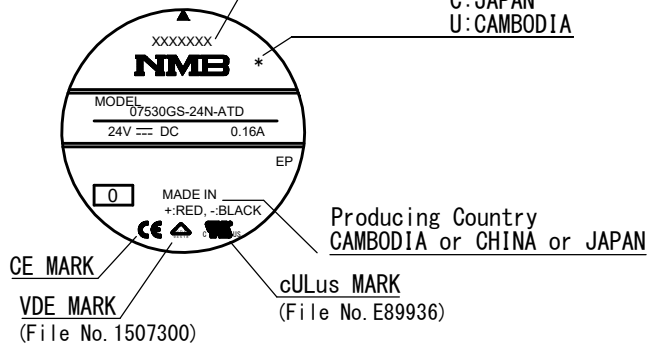
(+) : Red (-) : Black Tach: White

Outline

Name Plate

LOT No.

FACTORY ID. 7: CHINA
C: JAPAN
U: CAMBODIA



Unit: mm (inch)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[NMB Technologies:](#)

[07530GS-24N-ATD-0](#) [07530GS-12N-ATD-0](#)