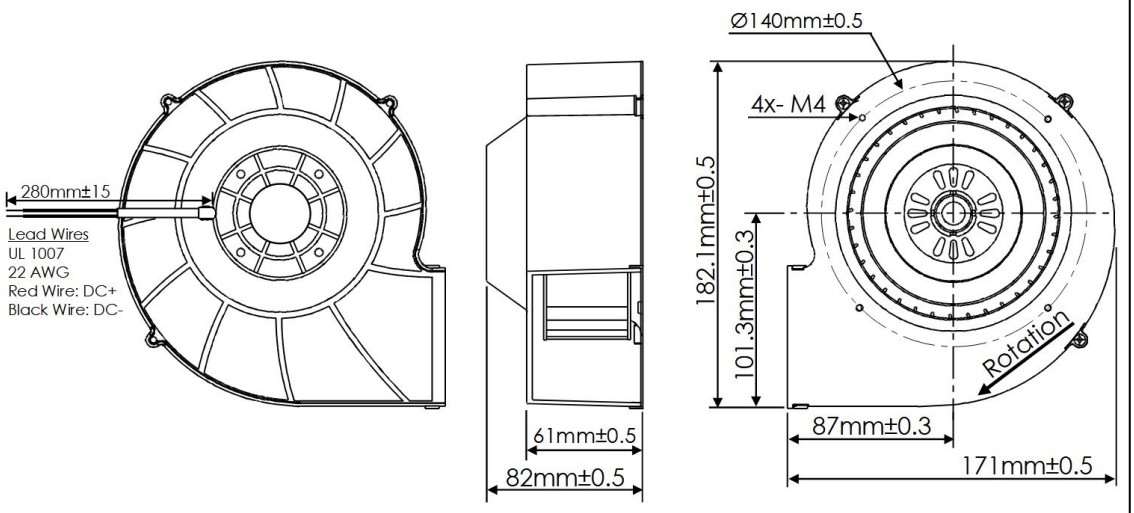
ODB182 Series

DC Blowers - 24, 48V
182mm x 171mm x 82mm
(7.2" x 6.7" x 3.2")





Frame	PBT, UL94 V-0 Plastic, and Steel cover, Black Finish
Impeller	PBT, UL94 V-0 Plastic
Connection	2x Wire Leads, 22 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500 VDC

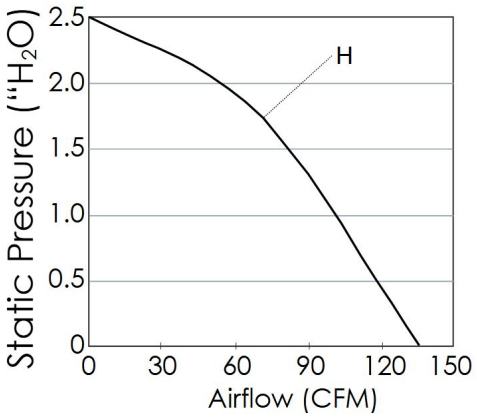
Operating Temperature
-10°C ~ +70°C

Storage Temperature
-40°C ~ +80°C

Life Expectancy
50,000 Hours (L10 at 40°C)

Available Options
PWM Speed Control Input
Thermal Speed Control
Tachometer Output
Alarm Output

Weight: 2.54 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(Max)	Rated Current (Amps)(Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
ODB182-24HB	24	12 ~ 27	53 (63.4)	2.2 (2.64)	2000	136.2	63.6	2.50
ODB182-48HB	48	24 ~ 55	53 (63.8)	1.1 (1.33)	2000	136.2	63.6	2.50

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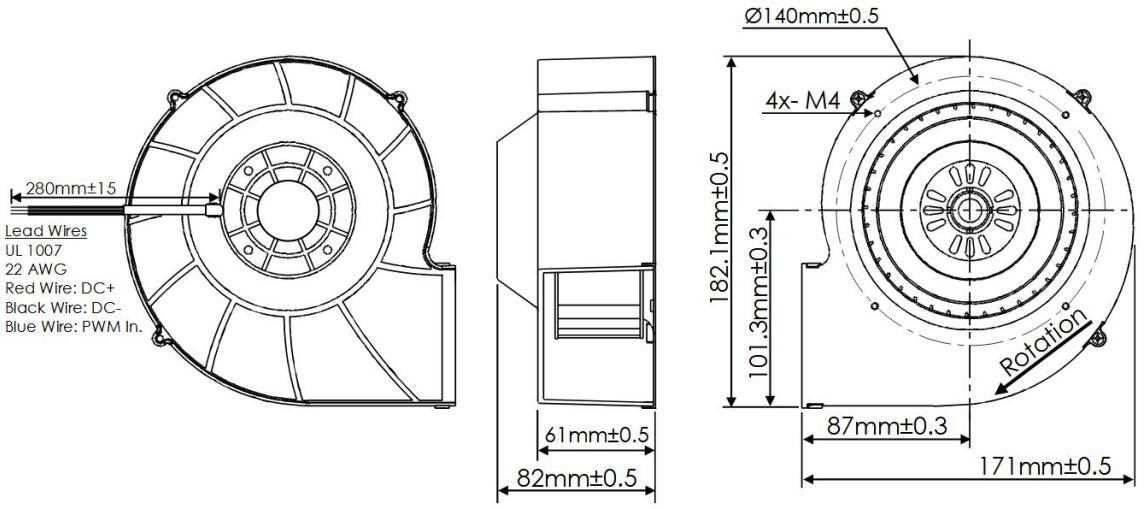
Orion Fans

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ODB182 Series with PWM

DC Blowers - 24, 48V
182mm x 171mm x 82mm
(7.2" x 6.7" x 3.2")





Frame	PBT, UL94 V-0 Plastic, and Steel cover, Black Finish
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Wire Leads, 22 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500 VDC

Operating Temperature
-10°C ~ +70°C

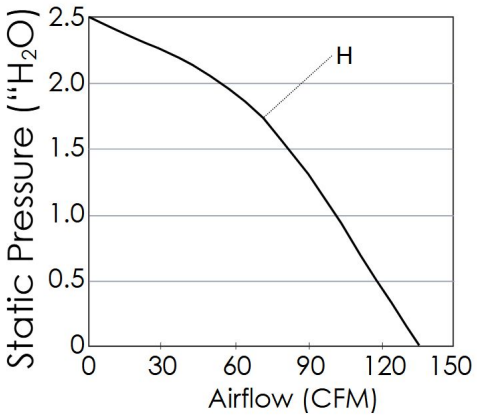
Storage Temperature
-40°C ~ +80°C

Life Expectancy
50,000 Hours (L10 at 40°C)

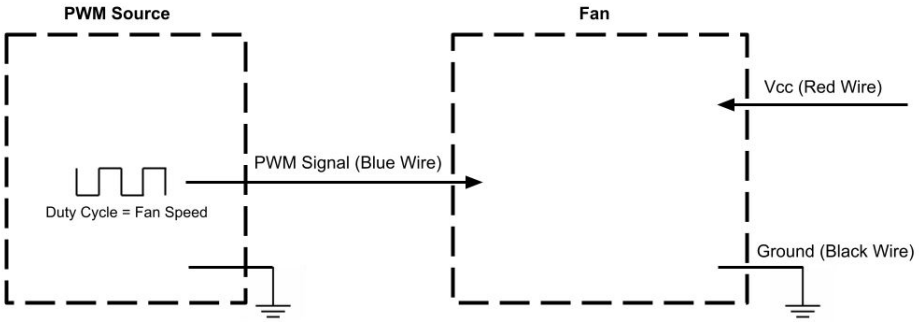
Installed Options
PWM Speed Control Input

Available Options
IP Ratings

Weight: 2.54 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(Max)	Rated Current (Amps)(Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
ODB182-24HB05	24	12 ~ 27	53 (63.4)	2.2 (2.64)	2000	136.2	63.6	2.50
ODB182-48HB05	48	24 ~ 55	53 (63.8)	1.1 (1.33)	2000	136.2	63.6	2.50



PWM Max High Voltage:	20V
PWM Min High Voltage:	3V
PWM Max Sink Current:	5mA
PWM Frequency Range:	20KHz-30KHz
PWM Typical Frequency:	25KHz
RPM at 0% Duty Cycle:	0 RPM

RPM will be full speed if PWM input is disconnected.

Duty Cycle Vs . RPM

Duty Cycle(%)	0%	40%	100%
R.P.M(Ref.)	0	1300	2000

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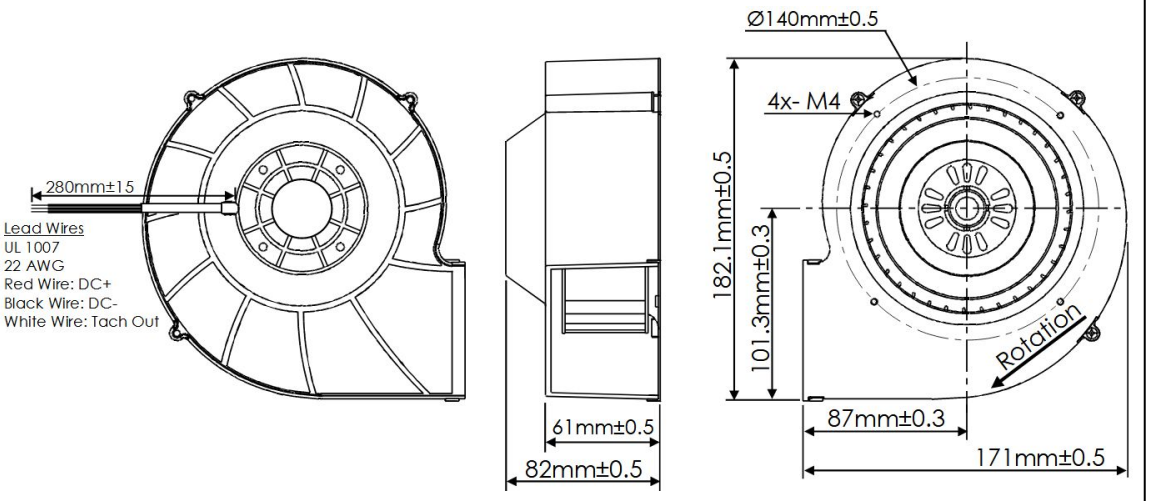
Orion Fans

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ODB182 Series with Tachometer

DC Blowers - 24, 48V
182mm x 171mm x 82mm
(7.2” x 6.7” x 3.2”)





Frame	PBT, UL94 V-0 Plastic, and Steel cover, Black Finish
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Wire Leads, 22 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500 VDC

Operating Temperature
-10°C ~ +70°C

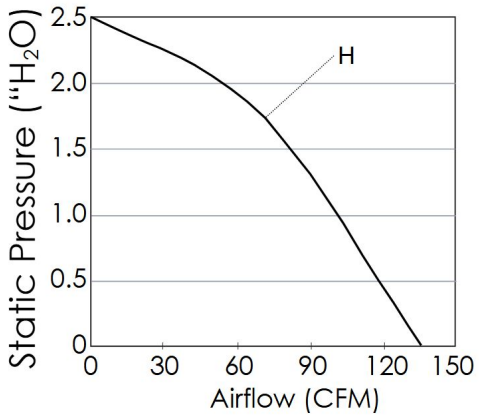
Storage Temperature
-40°C ~ +80°C

Life Expectancy
50,000 Hours (L10 at 40°C)

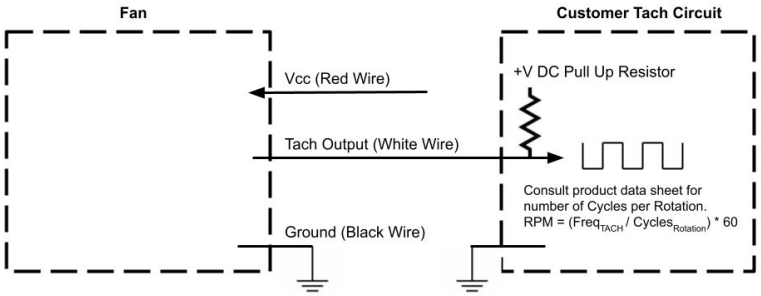
Installed Options
Open Collector Tach Output

Available Options
IP Ratings

Weight: 2.54 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(Max)	Rated Current (Amps)(Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure (“H_2O)
ODB182-24HB01A	24	12 ~ 27	53 (63.4)	2.2 (2.64)	2000	136.2	63.6	2.50
ODB182-48HB01A	48	24 ~ 55	53 (63.8)	1.1 (1.33)	2000	136.2	63.6	2.50



Tach Max Pullup Voltage: Fan Vcc
Tach Max Sink Current: 5mA
Tach Cycles per Rotation: 2

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