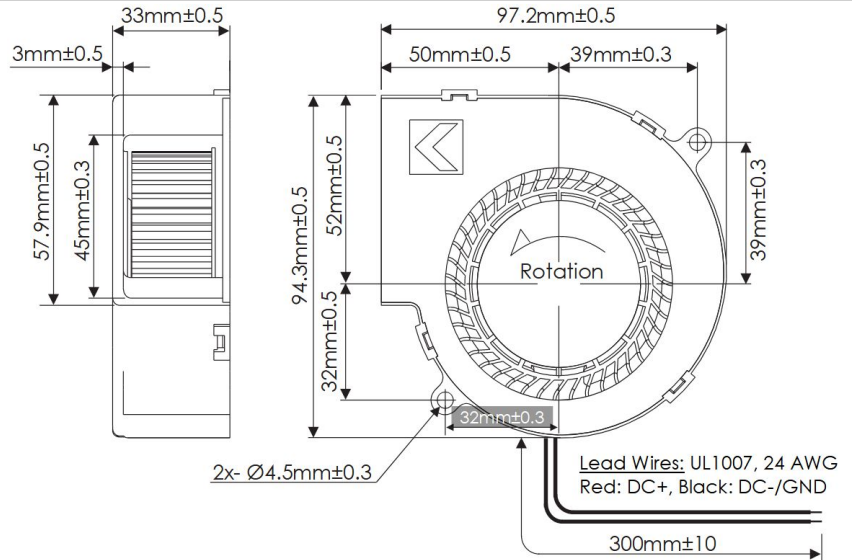


# ODB9733 Series



DC Blowers - 12, 24V  
97mm x 94mm x 33mm  
(3.8" x 3.7" x 1.3")



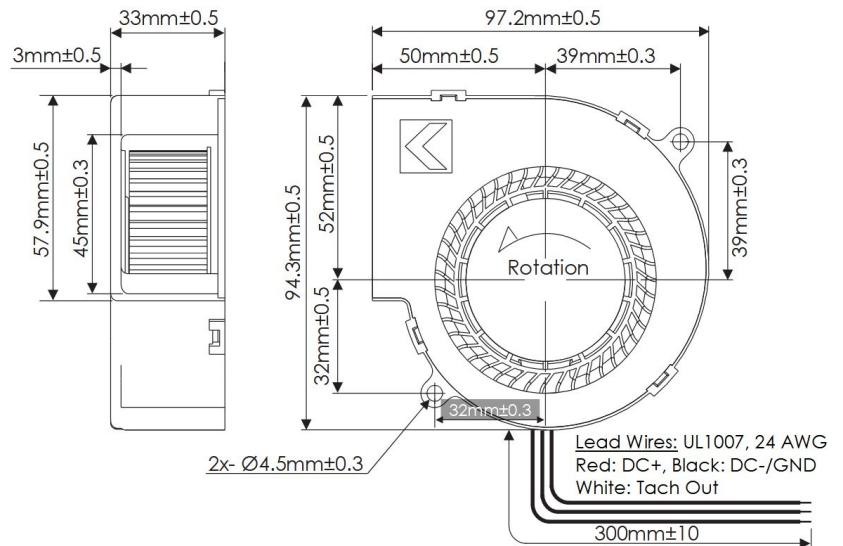
|                       |                                                                                       |                                                                                                                        |                                                                |
|-----------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Frame                 | PBT, UL94 V-0 Plastic                                                                 | <u>Operating Temperature</u><br>-20°C ~ +65°C                                                                          | <p>Static Pressure ("H<sub>2</sub>O")</p> <p>Airflow (CFM)</p> |
| Impeller              | PBT, UL94 V-0 Plastic                                                                 | <u>Storage Temperature</u><br>-20°C ~ +75°C                                                                            |                                                                |
| Connection*           | 2x Wire Leads, UL 1007 24 AWG                                                         | <u>Life Expectancy</u><br>70,000 Hours (L10 at 40°C)                                                                   |                                                                |
| Motor                 | Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected | <u>Available Options</u><br>Tachometer Output<br>Alarm Output<br>PWM Speed Control Input<br>IP Ratings<br>Other Speeds |                                                                |
| Bearing System        | Dual Ball Bearings                                                                    | Weight: 0.4 lbs.                                                                                                       |                                                                |
| Dielectric Strength   | 500VAC/min, <1mA                                                                      |                                                                                                                        |                                                                |
| Insulation Resistance | ≥10MΩ @ 500VDC                                                                        |                                                                                                                        |                                                                |

| Part Number   | Rated Voltage (Volts DC) | Voltage Range (Volts DC) | Rated Power (Watts) | Rated Current (Amps) | Rated Speed (RPM) | Max Airflow (CFM) | Noise Level (dBA) | Max Static Pressure ("H <sub>2</sub> O) |
|---------------|--------------------------|--------------------------|---------------------|----------------------|-------------------|-------------------|-------------------|-----------------------------------------|
| ODB9733-12HHB | 12                       | 9 ~ 13.8                 | 19                  | 1.550                | 4190              | 38.4              | 59.3              | 1.9                                     |
| ODB9733-12HB  | 12                       | 9 ~ 13.8                 | 9                   | 0.750                | 3575              | 32.0              | 54.8              | 1.3                                     |
| ODB9733-24HHB | 24                       | 16 ~ 26.4                | 17                  | 0.775                | 4190              | 38.4              | 59.3              | 1.9                                     |
| ODB9733-24HB  | 24                       | 16 ~ 26.4                | 16                  | 0.650                | 3575              | 32.0              | 54.8              | 1.3                                     |

# ODB9733 Series with Tachometer

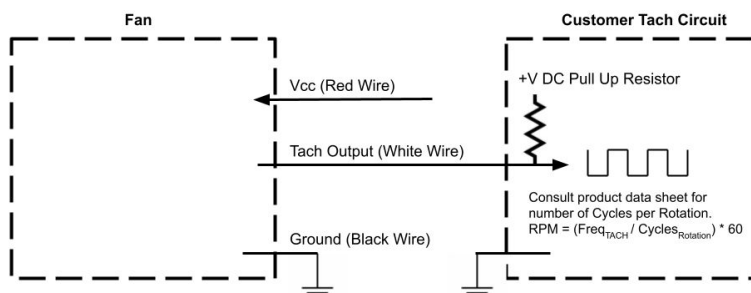


DC Blowers - 12, 24V  
97mm x 94mm x 33mm  
(3.8" x 3.7" x 1.3")



|                       |                                                                                       |                                                                                                                                                                                                                                                                                                          |                                                            |
|-----------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Frame                 | PBT, UL94 V-0 Plastic                                                                 | <u>Operating Temperature</u><br>-20°C ~ +65°C<br><br><u>Storage Temperature</u><br>-20°C ~ +75°C<br><br><u>Life Expectancy</u><br>70,000 Hours (L10 at 40°C)<br><br><u>Installed Options</u><br>Open Collector Tach Output<br><br><u>Available Options</u><br>5V TTL Tach Output<br><br>Weight: 0.4 lbs. | <p>Static Pressure ("H<sub>2</sub>O") vs Airflow (CFM)</p> |
| Impeller              | PBT, UL94 V-0 Plastic                                                                 |                                                                                                                                                                                                                                                                                                          |                                                            |
| Connection*           | 3x Wire Leads, UL 1007 24 AWG                                                         |                                                                                                                                                                                                                                                                                                          |                                                            |
| Motor                 | Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected |                                                                                                                                                                                                                                                                                                          |                                                            |
| Bearing System        | Dual Ball Bearings                                                                    |                                                                                                                                                                                                                                                                                                          |                                                            |
| Dielectric Strength   | 500VAC/min, <1mA                                                                      |                                                                                                                                                                                                                                                                                                          |                                                            |
| Insulation Resistance | ≥10MΩ @ 500VDC                                                                        |                                                                                                                                                                                                                                                                                                          |                                                            |

| Part Number      | Rated Voltage (Volts DC) | Voltage Range (Volts DC) | Rated Power (Watts) | Rated Current (Amps) | Rated Speed (RPM) | Max Airflow (CFM) | Noise Level (dBA) | Max Static Pressure ("H <sub>2</sub> O) |
|------------------|--------------------------|--------------------------|---------------------|----------------------|-------------------|-------------------|-------------------|-----------------------------------------|
| ODB9733-12HHB01A | 12                       | 9 ~ 13.8                 | 19                  | 1.550                | 4190              | 38.4              | 59.3              | 1.9                                     |
| ODB9733-12HB01A  | 12                       | 9 ~ 13.8                 | 9                   | 0.750                | 3575              | 32.0              | 54.8              | 1.3                                     |
| ODB9733-24HHB01A | 24                       | 16 ~ 26.4                | 17                  | 0.775                | 4190              | 38.4              | 59.3              | 1.9                                     |
| ODB9733-24HB01A  | 24                       | 16 ~ 26.4                | 16                  | 0.650                | 3575              | 32.0              | 54.8              | 1.3                                     |

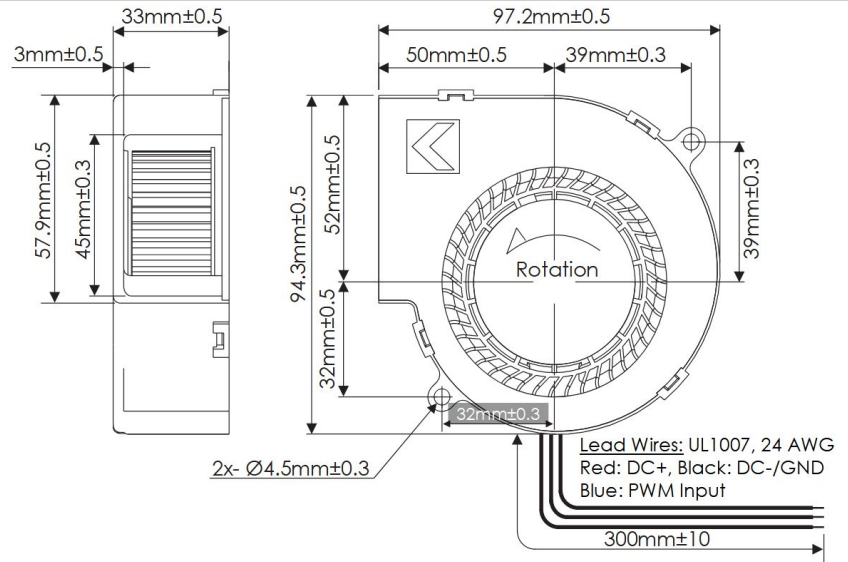


Tach Max Pullup Voltage: Fan Vcc  
Tach Max Sink Current: 5mA  
Tach Cycles per Rotation: 2

# ODB9733 Series with PWM Input

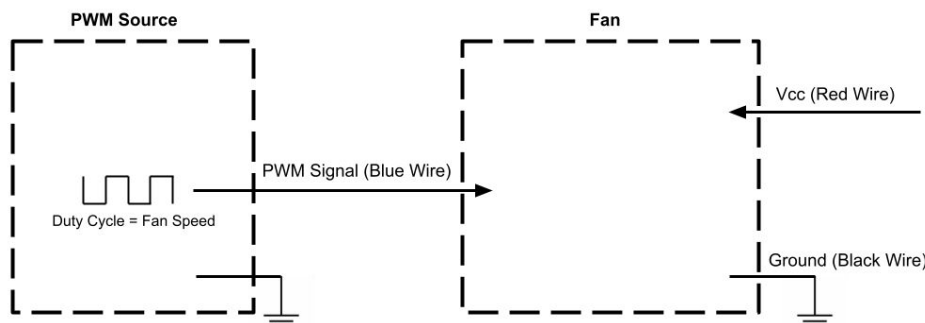


DC Blowers - 12, 24V  
97mm x 94mm x 33mm  
(3.8" x 3.7" x 1.3")



|                       |                                                                                       |                                                                                                                                                                                                                                                                                                                    |                                                                |
|-----------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Frame                 | PBT, UL94 V-0 Plastic                                                                 | <p><u>Operating Temperature</u><br/>-20°C ~ +65°C</p> <p><u>Storage Temperature</u><br/>-20°C ~ +75°C</p> <p><u>Life Expectancy</u><br/>70,000 Hours (L10 at 40°C)</p> <p><u>Installed Options</u><br/>PWM Speed Control Input</p> <p><u>Available Options</u><br/>Custom PWM Response</p> <p>Weight: 0.4 lbs.</p> | <p>Static Pressure ("H<sub>2</sub>O")</p> <p>Airflow (CFM)</p> |
| Impeller              | PBT, UL94 V-0 Plastic                                                                 |                                                                                                                                                                                                                                                                                                                    |                                                                |
| Connection*           | 3x Wire Leads, UL 1007 24 AWG                                                         |                                                                                                                                                                                                                                                                                                                    |                                                                |
| Motor                 | Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected |                                                                                                                                                                                                                                                                                                                    |                                                                |
| Bearing System        | Dual Ball Bearings                                                                    |                                                                                                                                                                                                                                                                                                                    |                                                                |
| Dielectric Strength   | 500VAC/min, <1mA                                                                      |                                                                                                                                                                                                                                                                                                                    |                                                                |
| Insulation Resistance | ≥10MΩ @ 500VDC                                                                        |                                                                                                                                                                                                                                                                                                                    |                                                                |

| Part Number     | Rated Voltage (Volts DC) | Voltage Range (Volts DC) | Rated Power (Watts) | Rated Current (Amps) | Rated Speed (RPM) | Max Airflow (CFM) | Noise Level (dBA) | Max Static Pressure ("H <sub>2</sub> O) |
|-----------------|--------------------------|--------------------------|---------------------|----------------------|-------------------|-------------------|-------------------|-----------------------------------------|
| ODB9733-12HHB05 | 12                       | 9 ~ 13.8                 | 19                  | 1.550                | 4190              | 38.4              | 59.3              | 1.9                                     |
| ODB9733-12HB05  | 12                       | 9 ~ 13.8                 | 9                   | 0.750                | 3575              | 32.0              | 54.8              | 1.3                                     |
| ODB9733-24HHB05 | 24                       | 16 ~ 26.4                | 17                  | 0.775                | 4190              | 38.4              | 59.3              | 1.9                                     |
| ODB9733-24HB05  | 24                       | 16 ~ 26.4                | 16                  | 0.650                | 3575              | 32.0              | 54.8              | 1.3                                     |

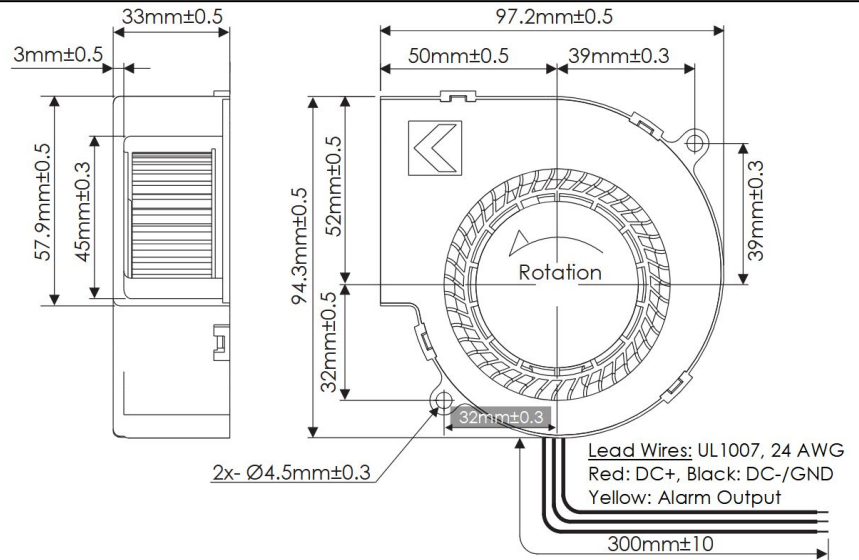


PWM Max High Voltage: 5V  
PWM Max Sink Current: 5mA  
PWM Frequency Range: 1KHz-40KHz  
PWM Typical Frequency: 25KHz  
RPM at 0% Duty Cycle: 0 RPM  
PWM Startup Duty Cycle: ≥25%  
RPM will be full speed if PWM input is disconnected.

# ODB9733 Series with Alarm Output

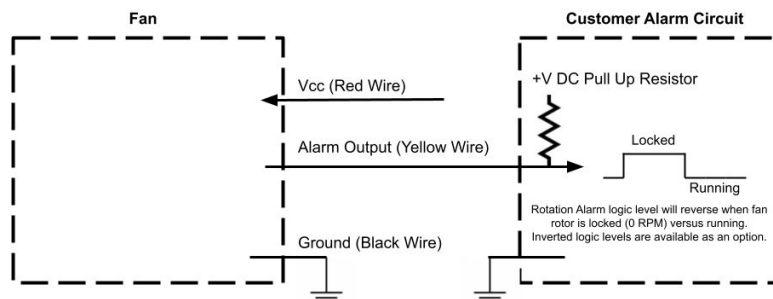


DC Blowers - 12, 24V  
97mm x 94mm x 33mm  
(3.8" x 3.7" x 1.3")



|                       |                                                                                       |                                                                                                                                                                                                                                                                                                            |                                                                                            |
|-----------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Frame                 | PBT, UL94 V-0 Plastic                                                                 | <u>Operating Temperature</u><br>-20°C ~ +65°C<br><br><u>Storage Temperature</u><br>-20°C ~ +75°C<br><br><u>Life Expectancy</u><br>70,000 Hours (L10 at 40°C)<br><br><u>Installed Options</u><br>Open Collector Alarm Output<br><br><u>Available Options</u><br>5V TTL Alarm Output<br><br>Weight: 0.4 lbs. | <p>Static Pressure ("H<sub>2</sub>O")</p> <p>Airflow (CFM)</p> <p>HH Speed<br/>H Speed</p> |
| Impeller              | PBT, UL94 V-0 Plastic                                                                 |                                                                                                                                                                                                                                                                                                            |                                                                                            |
| Connection*           | 3x Wire Leads, UL 1007 24 AWG                                                         |                                                                                                                                                                                                                                                                                                            |                                                                                            |
| Motor                 | Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected |                                                                                                                                                                                                                                                                                                            |                                                                                            |
| Bearing System        | Dual Ball Bearings                                                                    |                                                                                                                                                                                                                                                                                                            |                                                                                            |
| Dielectric Strength   | 500VAC/min, <1mA                                                                      |                                                                                                                                                                                                                                                                                                            |                                                                                            |
| Insulation Resistance | ≥10MΩ @ 500VDC                                                                        |                                                                                                                                                                                                                                                                                                            |                                                                                            |

| Part Number      | Rated Voltage (Volts DC) | Voltage Range (Volts DC) | Rated Power (Watts) | Rated Current (Amps) | Rated Speed (RPM) | Max Airflow (CFM) | Noise Level (dBA) | Max Static Pressure ("H <sub>2</sub> O) |
|------------------|--------------------------|--------------------------|---------------------|----------------------|-------------------|-------------------|-------------------|-----------------------------------------|
| ODB9733-12HHB02A | 12                       | 9 ~ 13.8                 | 19                  | 1.550                | 4190              | 38.4              | 59.3              | 1.9                                     |
| ODB9733-12HB02A  | 12                       | 9 ~ 13.8                 | 9                   | 0.750                | 3575              | 32.0              | 54.8              | 1.3                                     |
| ODB9733-24HHB02A | 24                       | 16 ~ 26.4                | 17                  | 0.775                | 4190              | 38.4              | 59.3              | 1.9                                     |
| ODB9733-24HB02A  | 24                       | 16 ~ 26.4                | 16                  | 0.650                | 3575              | 32.0              | 54.8              | 1.3                                     |



Alarm Max Pullup Voltage: Fan Vcc  
Alarm Max Sink Current: 5mA  
Alarm Active Logic State: HIGH