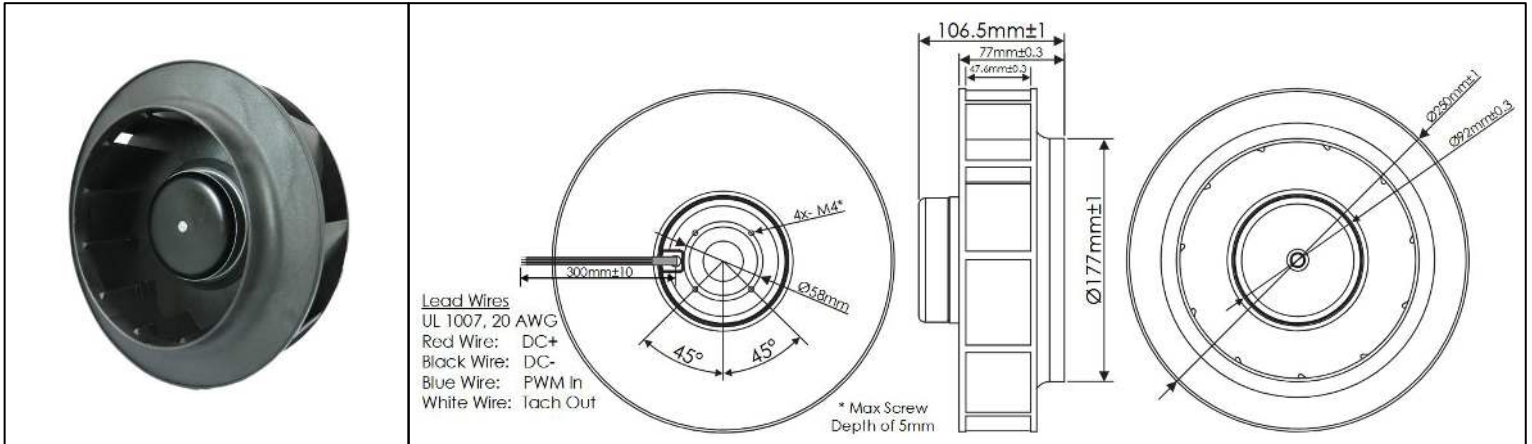


# ODB250110 Series



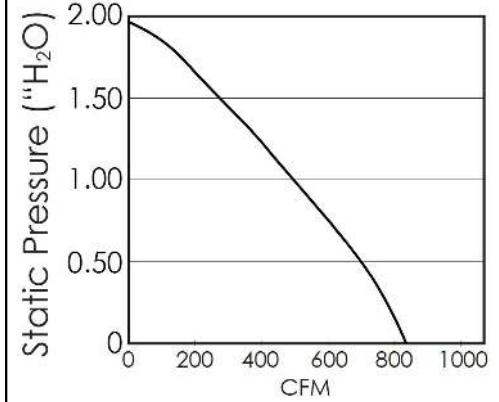
DC Centrifugal Fans - 24, 48V  
250mm x 106.5mm (9.84" x 4.19")



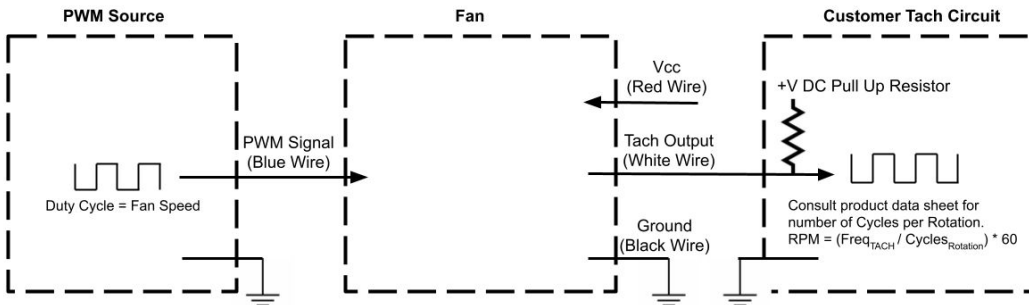
**Lead Wires**  
UL 1007, 20 AWG  
Red Wire: DC+  
Black Wire: DC-  
Blue Wire: PWM In  
White Wire: Tach Out

\* Max Screw Depth of 5mm

|                              |  |  |
|------------------------------|--|--|
| <b>Frame</b>                 | Die Cast Aluminum  | <b>Operating Temperature</b><br>-10°C ~ +60°C<br><b>Storage Temperature</b><br>-40°C ~ +75°C<br><b>Life Expectancy</b><br>50,000 Hours (L10 at 25°C)<br><b>Installed Options</b><br>PWM Speed Control Input<br>Open Collector Tach Output<br><b>Other Available Options</b><br>Alarm Output<br>IP Ratings<br>Other Speeds Available<br><b>Weight:</b> 3.53 lbs |
| <b>Impeller</b>              | PA66, UL94 V-0 Plastic                                     |  |
| <b>Connection</b>            | 4x Lead Wires, 20 AWG                                      |  |
| <b>Motor</b>                 | Brushless DC, Electronically Protected, Polarity Protected |  |
| <b>Bearing System</b>        | Ball Bearings  |  |
| <b>Dielectric Strength</b>   | 500VAC/min, <1mA   |  |
| <b>Insulation Resistance</b> | ≥10MΩ @ 500V DC  |  |



| Part Number       | Rated Voltage (Volts DC) | Voltage Range (Volts DC) | Input Power (Watts) | Rated Current (Amps) | Rated Speed (RPM) | Max Airflow (CFM) | Noise Level (dBA) | Max Static Pressure (H <sub>2</sub> O) |
|-------------------|--------------------------|--------------------------|---------------------|----------------------|-------------------|-------------------|-------------------|--|
| ODB250110-24HB10A | 24                       | 20 ~ 26.4                | 129.6               | 5.4                  | 2600              | 825               | 67                | 1.95"                                  |
| ODB250110-48HB10A | 48                       | 40 ~ 52                  | 129.6               | 2.7                  | 2600              | 825               | 67                | 1.95"                                  |



- Tach Max Pullup Voltage: 24V
- Tach Max Sink Current: 5mA
- Tach Cycles per Rotation: 2
- PWM High Voltage Max: ≤12V
- PWM High Voltage: >2.6V
- PWM Max Sink Current: 8mA
- PWM Frequency Range: 100Hz-100KHz
- PWM Typical Frequency: 25KHz
- RPM at 0% Duty Cycle: 0 RPM
- RPM will be full speed if PWM input is disconnected.

