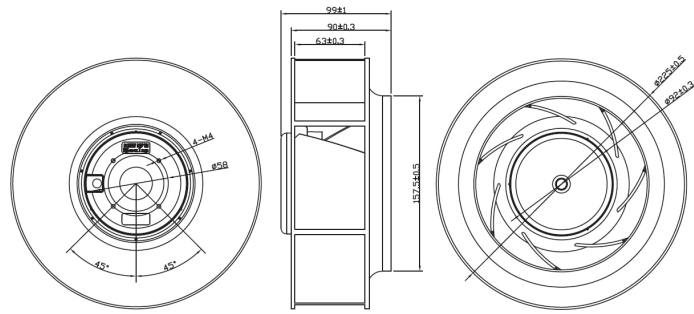


ODB22599-24HB10A



DC Motorized Impeller 24V 225x99mm (8.85"x3.90")



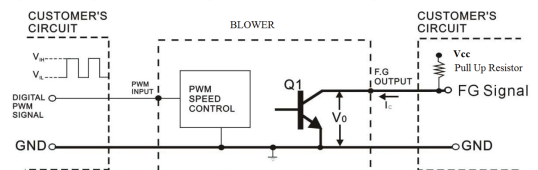
Outlet - Function Leads

- a. Red --- DC Voltage +
- b. Black --- DC Voltage - (GND)
- c. Blue --- PWM Control
- d. White --- F/G Tachometer

Frame & Impeller	Frame - Aluminum Impeller - UL94V-0 Thermoplastic	Features: Signal Output: Tachometer Speed Control: PWM Weight: ~ 1500g (3.31 lbs)	<table border="1"><caption>Approximate data points from the graph</caption><thead><tr><th>Air Flow (cfm)</th><th>Air Flow (m3/min)</th><th>Static Pressure H2O (mm w.g)</th></tr></thead><tbody><tr><td>0</td><td>0.0</td><td>48</td></tr><tr><td>160</td><td>4.0</td><td>40</td></tr><tr><td>320</td><td>8.0</td><td>32</td></tr><tr><td>480</td><td>12.0</td><td>24</td></tr><tr><td>640</td><td>16.0</td><td>16</td></tr><tr><td>840</td><td>19.2</td><td>0</td></tr></tbody></table>	Air Flow (cfm)	Air Flow (m3/min)	Static Pressure H2O (mm w.g)	0	0.0	48	160	4.0	40	320	8.0	32	480	12.0	24	640	16.0	16	840	19.2	0
Air Flow (cfm)	Air Flow (m3/min)			Static Pressure H2O (mm w.g)																				
0	0.0			48																				
160	4.0			40																				
320	8.0			32																				
480	12.0			24																				
640	16.0			16																				
840	19.2	0																						
Connecion	4 Lead wires *																							
Motor	DC brushless, IC protected																							
Bearing System	Dual ball bearing																							
Insulation Resistance	Min. 10M at 500VDC																							
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp																							
Temperature Range	-10C ~ +65C	m0																						
Storage Temperature	-40C ~ +80C																							
Life (L10)	-40,000 hours (40C)																							

Part Number	ODB22599-24HB10A
Nominal Voltage	24VDC
Voltage Range	16 ~ 28 VDC
Nominal Current	4.6 A
Rated Power	110.4 W
Rated Speed (RPM)	2500
Airflow (CFM)	835
Noise Level (dB)	55
Max. Static Pressure	2.05" H ₂ O

(External signal function design is decided by customer)



* FG 2 pulses per revolution

* TRANSISTOR Q1 AT "ON" POSITION

COLLECTOR CURRENT----- $I_C = 10\text{mA MAX}$

SATURATION VOLTAGE----- $V_{CE} = 1\text{ V MAX}$

* TRANSISTOR Q1 AT "OFF" POSITION

RELEASE VOLTAGE----- $V_{CE} = V_{CC} \text{ Max}$

* DIGITAL PWM SPEED CONTROL POSITION

PWM INPUT VOLTAGE HIGH----- $V_{IH} > 2.6\text{V}$

PWM INPUT VOLTAGE LOW----- $V_{IL} < 0.5\text{V}$

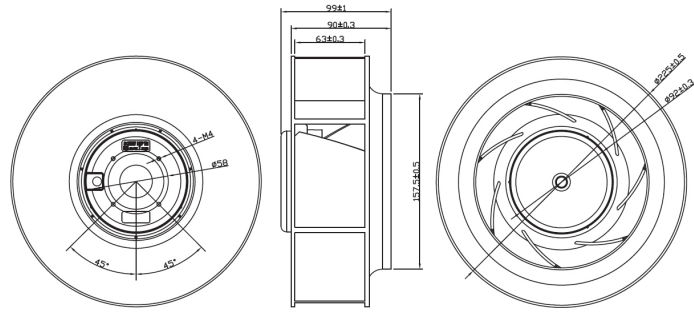
* PWM INPUT FREQUENCY----- $\text{FPWM} : 100\text{Hz} \sim 100\text{KHz}$

Blower will run full speed at 100%, stop at 0%, full speed if PWM not connected

ODB22599-48HB10A



DC Motorized Impeller 48V 225x99mm (8.85"x3.90")



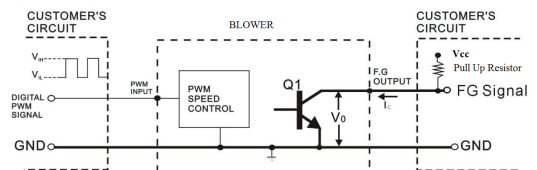
Outlet - Function Leads

- a. Red --- DC Voltage +
- b. Black --- DC Voltage - (GND)
- c. Blue --- PWM Control
- d. White --- F/G Tachometer

Frame & Impeller	Frame - Aluminum Impeller - UL94V-0 Thermoplastic	Features: Signal Output: Tachometer Speed Control: PWM Weight: ~ 1500g (3.31 lbs)	<table border="1"><caption>Performance Graph Data (Approximate)</caption><thead><tr><th>Air Flow (cfm)</th><th>Air Flow (m³/min)</th><th>Static Pressure H₂O (mm)</th><th>Static Pressure H₂O (inch)</th></tr></thead><tbody><tr><td>0</td><td>0.0</td><td>48</td><td>1.9</td></tr><tr><td>160</td><td>4.0</td><td>40</td><td>1.6</td></tr><tr><td>320</td><td>8.0</td><td>32</td><td>1.3</td></tr><tr><td>480</td><td>12.0</td><td>24</td><td>1.0</td></tr><tr><td>640</td><td>16.0</td><td>16</td><td>0.6</td></tr><tr><td>840</td><td>19.2</td><td>0</td><td>0.0</td></tr></tbody></table>	Air Flow (cfm)	Air Flow (m³/min)	Static Pressure H₂O (mm)	Static Pressure H₂O (inch)	0	0.0	48	1.9	160	4.0	40	1.6	320	8.0	32	1.3	480	12.0	24	1.0	640	16.0	16	0.6	840	19.2	0	0.0
Air Flow (cfm)	Air Flow (m³/min)			Static Pressure H₂O (mm)	Static Pressure H₂O (inch)																										
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Motor	DC brushless, IC protected																														
Bearing System	Dual ball bearing																														
Insulation Resistance	Min. 10M at 500VDC																														
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp																														
Temperature Range	-10C ~ +65C																														
Storage Temperature	-40C ~ +80C																														
Life (L10)	-40,000 hours (40C)	m0																													

Part Number	ODB22599-48HB10A
Nominal Voltage	48VDC
Voltage Range	46 ~ 56 VDC
Nominal Current	2.3 A
Rated Power	110.4 W
Rated Speed (RPM)	2500
Airflow (CFM)	835
Noise Level (dB)	55
Max. Static Pressure	2.05" H ₂ O

(External signal function design is decided by customer)



* FG 2 pulses per revolution

* TRANSISTOR Q1 AT "ON" POSITION

COLLECTOR CURRENT-----I_C = 10mA MAX

SATURATION VOLTAGE-----V_{OL} = 1 V MAX

* TRANSISTOR Q1 AT "OFF" POSITION

RELEASE VOLTAGE-----V_{OH} = V_{cc} Max

* DIGITAL PWM SPEED CONTROL POSITION

PWM INPUT VOLTAGE HIGH-----V_H > 2.6V

PWM INPUT VOLTAGE LOW-----V_L < 0.5V

* PWM INPUT FREQUENCY-----FPWM: 100Hz~100KHz

Blower will run full speed at 100%, stop at 0%, full speed if PWM not connected