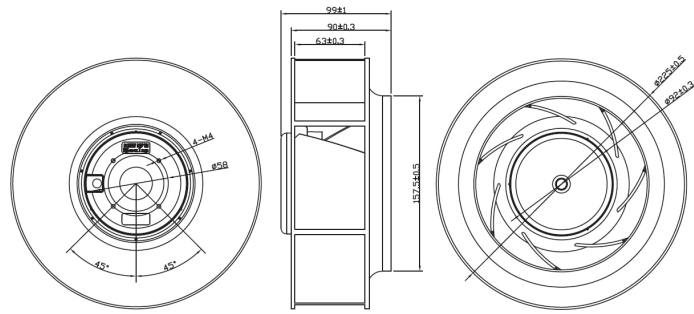


ODB22599-24HB10A



DC Motorized Impeller 24V

225x99mm (8.85"x3.90")



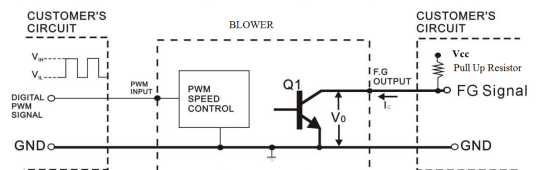
Outlet - Function Leads

- 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 (mm H₂O)</th><th>Static Pressure (inch H₂O)</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>42</td><td>1.7</td></tr><tr><td>320</td><td>8.0</td><td>36</td><td>1.4</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>12</td><td>0.5</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 (mm H₂O)	Static Pressure (inch H₂O)	0	0.0	48	1.9	160	4.0	42	1.7	320	8.0	36	1.4	480	12.0	24	1.0	640	16.0	12	0.5	840	19.2	0	0.0
Air Flow (cfm)	Air Flow (m³/min)			Static Pressure (mm H₂O)	Static Pressure (inch H₂O)																										
0	0.0			48	1.9																										
160	4.0			42	1.7																										
320	8.0			36	1.4																										
480	12.0			24	1.0																										
640	16.0			12	0.5																										
840	19.2	0	0.0																												
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----- $V_{IL} < 0.5\text{V}$

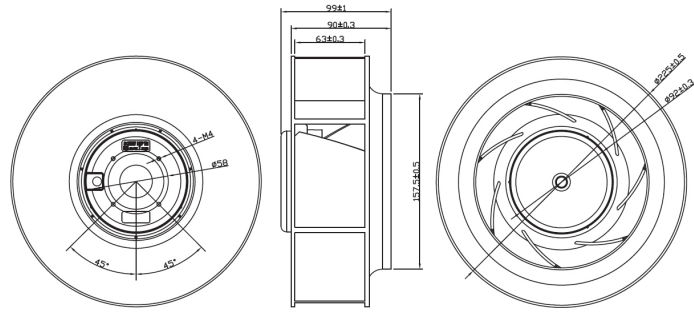
* PWM INPUT FREQUENCY----- $\text{FPWM}: 100\text{Hz} \sim 100\text{KHz}$

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")



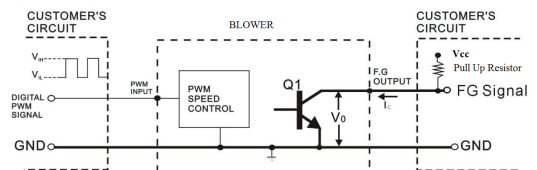
Outlet - Function Leads

- 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</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>8.0</td><td>40</td><td>1.6</td></tr><tr><td>320</td><td>13.6</td><td>32</td><td>1.3</td></tr><tr><td>480</td><td>19.2</td><td>24</td><td>1.0</td></tr><tr><td>640</td><td>25.6</td><td>16</td><td>0.6</td></tr><tr><td>840</td><td>33.6</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	8.0	40	1.6	320	13.6	32	1.3	480	19.2	24	1.0	640	25.6	16	0.6	840	33.6	0	0.0
AIR FLOW (cfm)	AIR FLOW (m3/min)			STATIC PRESSURE H2O (mm)	STATIC PRESSURE H2O (inch)																										
0	0.0			48	1.9																										
160	8.0			40	1.6																										
320	13.6			32	1.3																										
480	19.2			24	1.0																										
640	25.6			16	0.6																										
840	33.6			0	0.0																										
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																														
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_{CE} = 1 V MAX

*TRANSISTOR Q1 AT "OFF" POSITION

RELEASE VOLTAGE-----V_{CE} = V_{CC} MAX

*DIGITAL PWM SPEED CONTROL POSITION

PWM INPUT VOLTAGE HIGH-----V_{IN} > 2.6V

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

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

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