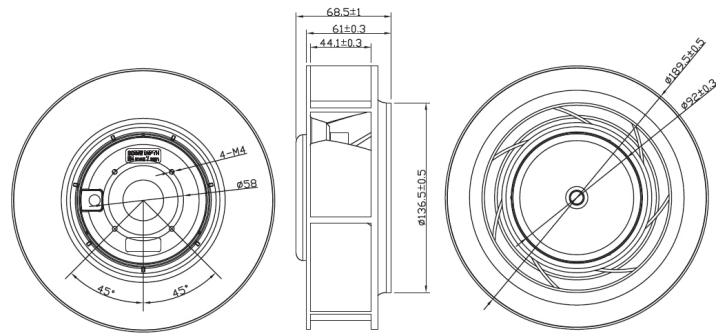


ODB19069-24HB10A

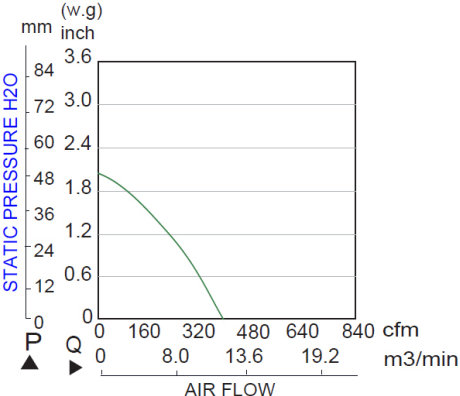


DC Motorized Impeller 24V 190x69mm (7.5"x2.70")



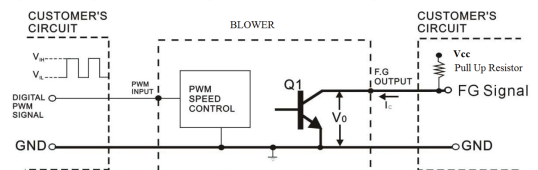
Outlet - Function Leads

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

Frame & Impeller	Frame - Diecast aluminum Impeller - UL94V-0 Thermoplastic	Features: Signal Output: Tachometer Speed Control: PWM Weight: ~ 1300g (2.87 lbs)	
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	m0	
Life (L10)	-40,000 hours (40C)		

Part Number	ODB19069-24HB10A
Nominal Voltage	24VDC
Voltage Range	16 ~ 28 VDC
Nominal Current	4.5 A
Rated Power	108 W
Rated Speed (RPM)	3200
Airflow (CFM)	395
Noise Level (dB)	70
Max. Static Pressure	1.97" 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----- $V_{IL} < 0.5\text{V}$

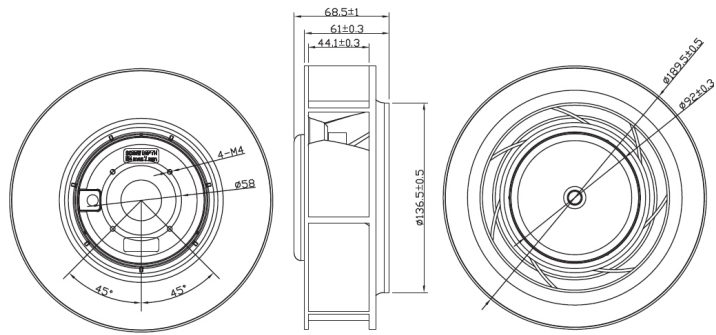
*PWM INPUT FREQUENCY----- $FPWM: 100\text{Hz} \sim 100\text{KHz}$

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

ODB19069-48HB10A



DC Motorized Impeller 48V 190x69mm (7.5"x2.70")



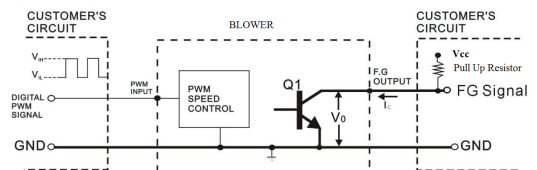
Outlet – Function Leads

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

Frame & Impeller	Frame - Diecast aluminum Impeller - UL94V-0 Thermoplastic	Features: Signal Output: Tachometer Speed Control: PWM Weight: ~ 1300g (2.87 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)</th></tr></thead><tbody><tr><td>0</td><td>0</td><td>48</td><td>1.8</td></tr><tr><td>160</td><td>4.0</td><td>36</td><td>1.2</td></tr><tr><td>320</td><td>8.0</td><td>24</td><td>0.6</td></tr><tr><td>480</td><td>12.0</td><td>0</td><td>0</td></tr></tbody></table>	Air Flow (cfm)	Air Flow (m3/min)	Static Pressure (mm H2O)	Static Pressure (inch)	0	0	48	1.8	160	4.0	36	1.2	320	8.0	24	0.6	480	12.0	0	0
Air Flow (cfm)	Air Flow (m3/min)			Static Pressure (mm H2O)	Static Pressure (inch)																		
0	0			48	1.8																		
160	4.0			36	1.2																		
320	8.0			24	0.6																		
480	12.0			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	ODB19069-48HB10A
Nominal Voltage	48VDC
Voltage Range	36 ~ 56 VDC
Nominal Current	2.55 A
Rated Power	122.4 W
Rated Speed (RPM)	3500
Airflow (CFM)	432
Noise Level (dB)	73
Max. Static Pressure	2.0" 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----- $f_{PWM}: 100\text{Hz} \sim 100\text{KHz}$

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