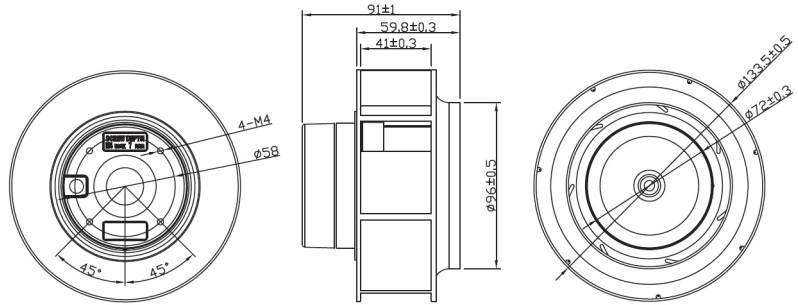


ODB13391-24HB10A



DC Motorized Impeller 24V 133x91mm (5.24"x3.58")



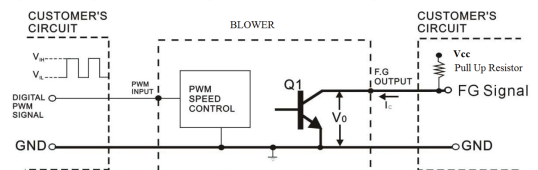
Outlet - Function Leads

- 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	<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</td><td>48</td><td>1.9</td></tr><tr><td>160</td><td>7.6</td><td>36</td><td>1.4</td></tr><tr><td>320</td><td>15.2</td><td>0</td><td>0</td></tr></tbody></table>	Air Flow (cfm)	Air Flow (m3/min)	Static Pressure H2O (mm)	Static Pressure H2O (inch)	0	0	48	1.9	160	7.6	36	1.4	320	15.2	0	0
Air Flow (cfm)	Air Flow (m3/min)			Static Pressure H2O (mm)	Static Pressure H2O (inch)														
0	0			48	1.9														
160	7.6			36	1.4														
320	15.2			0	0														
Connecion	4 Lead wires *																		
Motor	DC brushless, IC protected																		
Bearing System	Dual ball bearing	Weight: ~ 700g (1.54 lbs)																	
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	ODB13391-24HB10A
Nominal Voltage	24VDC
Voltage Range	16-28 VDC
Nominal Current	2.65 A
Rated Power	63.6 W
Rated Speed (RPM)	4600
Airflow (CFM)	326
Noise Level (dB)	68
Max. Static Pressure	1.9" 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----- $V_{IL} < 0.5\text{V}$

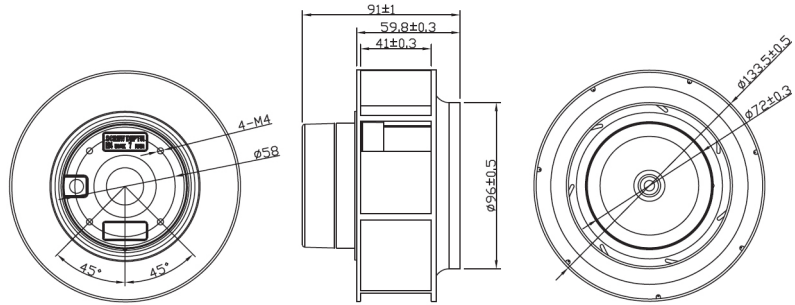
*PWM INPUT FREQUENCY-----FPWM: 100Hz-100KHz

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

ODB13391-48HB10A



DC Motorized Impeller 48V 133x91mm (5.24"x3.58")



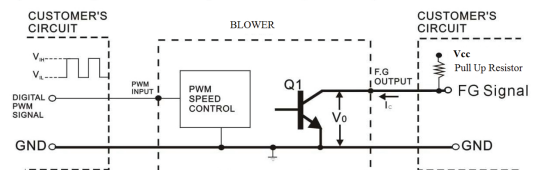
Outlet - Function Leads

- 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: ~ 700g (1.54 lbs)	<table border="1"><caption>Performance Graph Data</caption><thead><tr><th>AIR FLOW (cfm)</th><th>STATIC PRESSURE H2O (mm)</th></tr></thead><tbody><tr><td>0</td><td>48</td></tr><tr><td>160</td><td>36</td></tr><tr><td>320</td><td>0</td></tr></tbody></table>	AIR FLOW (cfm)	STATIC PRESSURE H2O (mm)	0	48	160	36	320	0
AIR FLOW (cfm)	STATIC PRESSURE H2O (mm)										
0	48										
160	36										
320	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	ODB13391-48HB10A
Nominal Voltage	48VDC
Voltage Range	36-56 VDC
Nominal Current	1.25 A
Rated Power	60 W
Rated Speed (RPM)	4600
Airflow (CFM)	326
Noise Level (dB)	68
Max. Static Pressure	1.9" 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----- $\text{FPWM} = 100\text{Hz} - 100\text{KHz}$

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