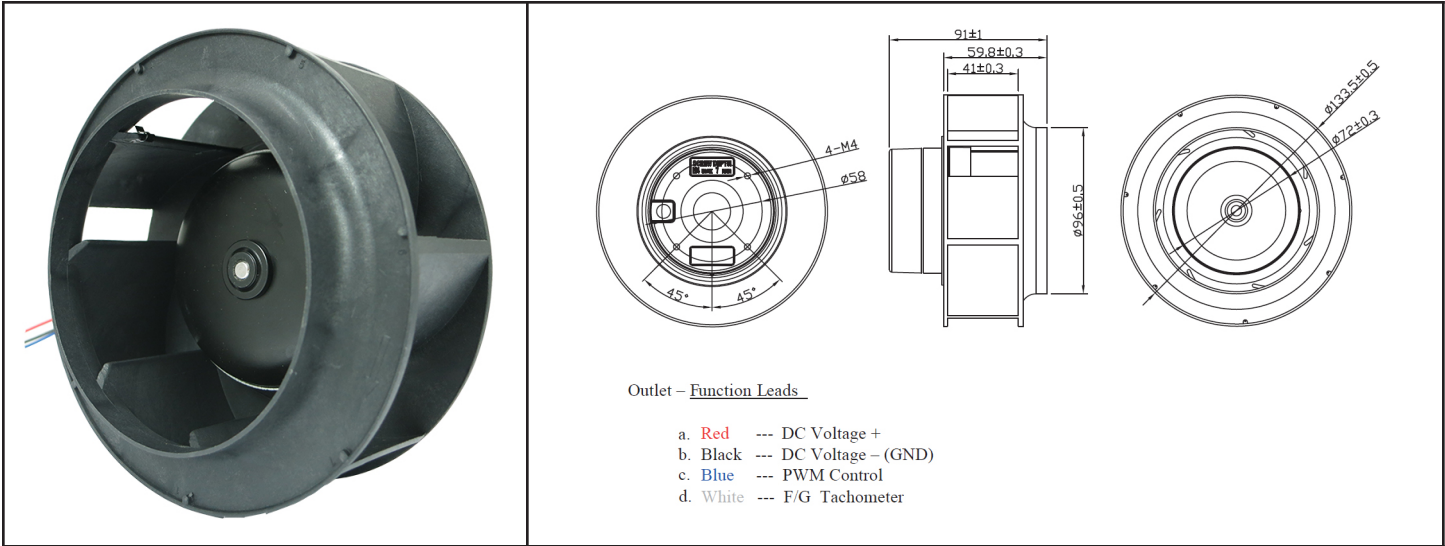


# ODB13391-24HB10A



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



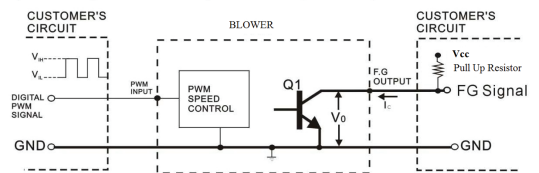
**Outlet - Function Leads**

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

<b>Frame &amp; Impeller</b>	Frame - Diecast aluminum Impeller - UL94V-0 Thermoplastic	<b>Features:</b> Signal Output: Tachometer Speed Control: PWM  <b>Weight: ~ 700g (1.54 lbs)</b>	
<b>Connecion</b>	4 Lead wires *		
<b>Motor</b>	DC brushless, IC protected		
<b>Bearing System</b>	Dual ball bearing		
<b>Insulation Resistance</b>	Min. 10M at 500VDC		
<b>Dielectric Strength</b>	1 minute at 500 VAC, max leakage < 500 MicroAmp		
<b>Temperature Range</b>	-10C ~ +65C		
<b>Storage Temperature</b>	-40C ~ +80C		
<b>Life (L10)</b>	-40,000 hours (40C)	m0	

<b>Part Number</b>	ODB13391-24HB10A
<b>Nominal Voltage</b>	24VDC
<b>Voltage Range</b>	16-28 VDC
<b>Nominal Current</b>	2.65 A
<b>Rated Power</b>	63.6 W
<b>Rated Speed (RPM)</b>	4600
<b>Airflow (CFM)</b>	326
<b>Noise Level (dB)</b>	68
<b>Max. Static Pressure</b>	1.9" H <sub>2</sub> O

(External signal function design is decided by customer)

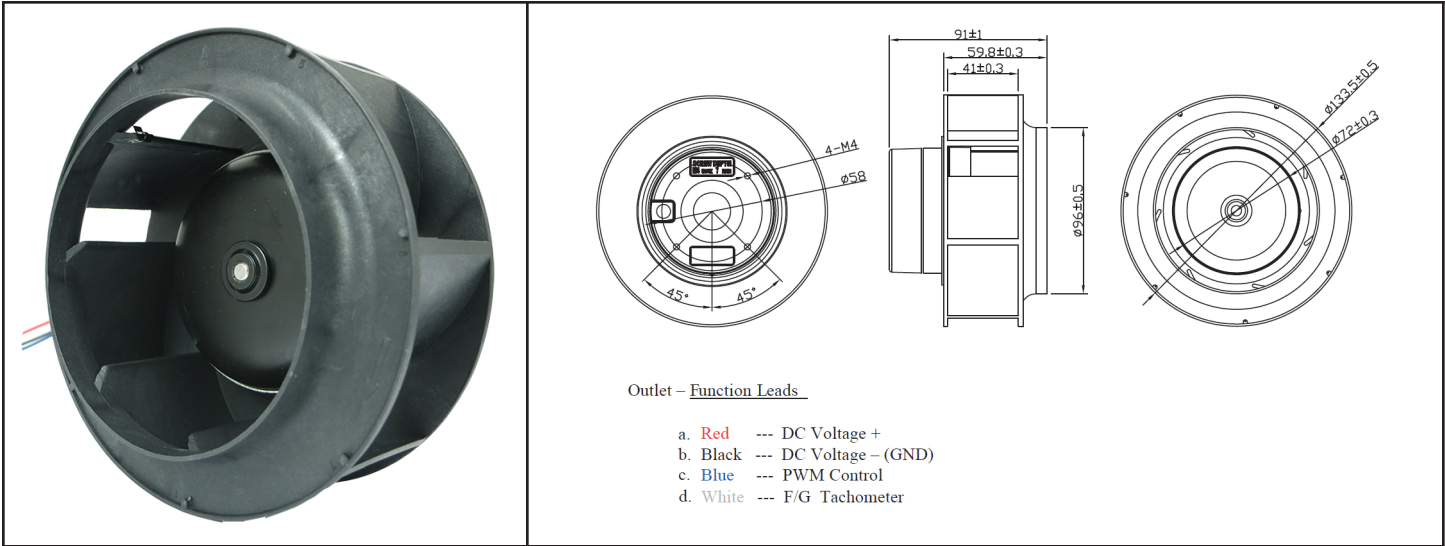


- \* FG 2 pulses per revolution
  - \* TRANSISTOR Q1 AT "ON" POSITION  
 COLLECTOR CURRENT..... I<sub>c</sub> = 10mA MAX  
 SATURATION VOLTAGE..... V<sub>ce</sub> = 1 V MAX
  - \* TRANSISTOR Q1 AT "OFF" POSITION  
 RELEASE VOLTAGE..... V<sub>on</sub> = V<sub>cc</sub> Max
  - \* DIGITAL PWM SPEED CONTROL POSITION  
 PWM INPUT VOLTAGE HIGH..... V<sub>ih</sub> > 2.6V  
 PWM INPUT VOLTAGE LOW..... V<sub>il</sub> < 0.5V
  - \* 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")



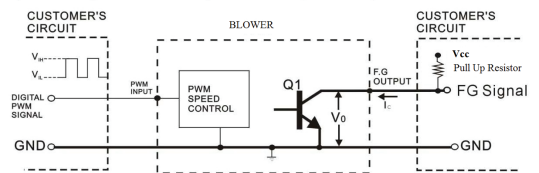
**Outlet - Function Leads**

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

<b>Frame &amp; Impeller</b>	Frame - Diecast aluminum Impeller - UL94V-0 Thermoplastic	<b>Features:</b> Signal Output: Tachometer Speed Control: PWM  <b>Weight:</b> ~ 700g (1.54 lbs)  m0	
<b>Connecion</b>	4 Lead wires *		
<b>Motor</b>	DC brushless, IC protected		
<b>Bearing System</b>	Dual ball bearing		
<b>Insulation Resistance</b>	Min. 10M at 500VDC		
<b>Dielectric Strength</b>	1 minute at 500 VAC, max leakage < 500 MicroAmp		
<b>Temperature Range</b>	-10C ~ +65C		
<b>Storage Temperature</b>	-40C ~ +80C		
<b>Life (L10)</b>	-40,000 hours (40C)		

<b>Part Number</b>	ODB13391-48HB10A
<b>Nominal Voltage</b>	48VDC
<b>Voltage Range</b>	36-56 VDC
<b>Nominal Current</b>	1.25 A
<b>Rated Power</b>	60 W
<b>Rated Speed (RPM)</b>	4600
<b>Airflow (CFM)</b>	326
<b>Noise Level (dB)</b>	68
<b>Max. Static Pressure</b>	1.9" H <sub>2</sub> 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:  $V_{on} = V_{cc\text{ Max}}$
  - \* DIGITAL PWM SPEED CONTROL POSITION  
 PWM INPUT VOLTAGE HIGH:  $V_{in} > 2.6\text{V}$   
 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

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