

## Server and Storage Cooling Solution

\*All products are RoHS compliant.





## 38x38x28 mm

### 11.3~23.0 CFM



#### Specifications

MAGLEV by SUNON	Bearing	Rating Voltage	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight	Curve
	• VAPO	(VDC)	(mA)	(WATTS)	(RPM)	(CFM)	(Inch-H <sub>2</sub> O)	(dB(A))	(g)	
PF38281V1-0000-A99	•	12	574	6.89	16000	18.1	1.42	53.8	43.0	1

#### Other Function

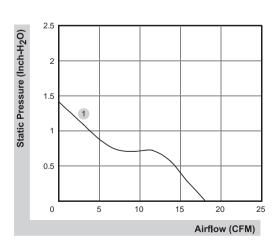
#### PF38281V1

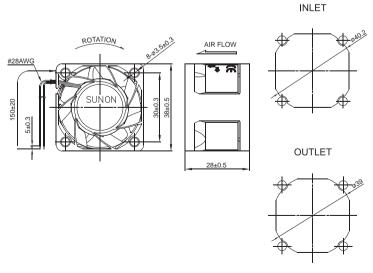
A99: AutoRestart

G99: AutoRestart and F type

S99: AutoRestart, F type and with PWM

#### ■ Air Flow-Static Pressure Characteristics

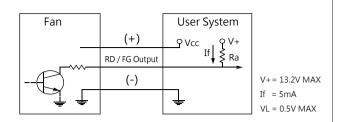




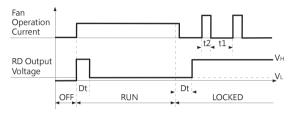
<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.
\*Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



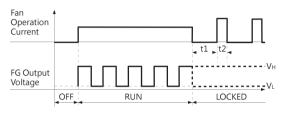
#### ■ RD / FG Signal



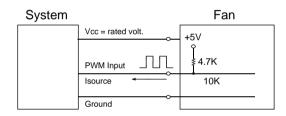
#### [RD Signal]

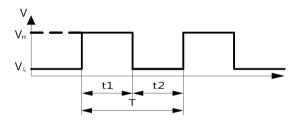


# FG Output Voltage T1 T2 T3 T4 VL T = T1 + T2 + T3 + T4 = 1 Rotation $T = \frac{60}{rpm}$



#### PWM Input Signal





1. Period: 
$$T = \frac{1}{f_{PWM}} = t1 + t2(sec)$$

2. Duty Cycle ( D.C. ) : 
$$\frac{t1}{t1+t2}*100 = \frac{t1}{T}*100(\%)$$

VH=2.3~5.5V

VL=0~0.8V

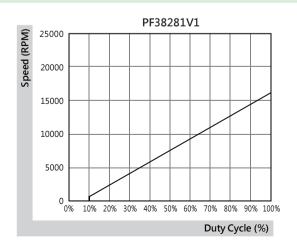
PWM FREQUENCY: 25KHZ

Isource=0.5mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 5%.

Please don't apply 1 ~ 4% duty cycle to prevent the unstable fan speed.



<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



## 38x38x28 mm

### 11.3~23.0 CFM



#### Specifications

Model	Bearing	Rating Voltage	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight	Curve
	<ul><li>2BALL</li><li>Sleeve</li></ul>	(VDC)	(mA)	(WATTS)	(RPM)	(CFM)	(Inch-H <sub>2</sub> O)	(dB(A))	(g)	
PF38281BX-0000-A99	•	12	520	6.24	20000	23.0	2.23	59.0	41.0	1
PF38281B1-0000-A99	•	12	315	3.78	16000	18.1	1.42	53.8	41.0	2
PF38281B2-0000-A99	•	12	290	3.48	15000	16.9	1.26	55.0	40.0	3
PF38281B3-0000-A99	•	12	194	2.33	13000	14.9	1.00	49.3	40.0	4
PF38281B4-0000-A99	•	12	115	1.38	10000	11.3	0.60	42.8	40.0	5

#### Other Function

#### PF38281BX / 1

A99: AutoRestart

F99: AutoRestart and R type G99: AutoRestart and F type

H99: AutoRestart and with PWM

Q99: AutoRestart , R type and with PWM  $\,$ 

S99: AutoRestart , F type and with PWM

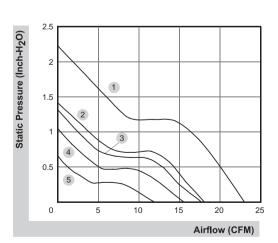
#### PF38281B2/3/4

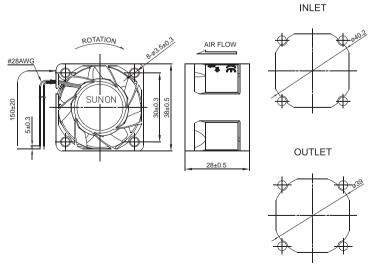
A99: AutoRestart

F99: AutoRestart and R type

G99: AutoRestart and F type

#### ■ Air Flow-Static Pressure Characteristics



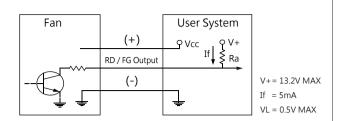


<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

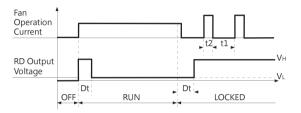
<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



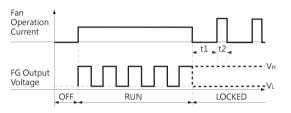
#### ■ RD / FG Signal



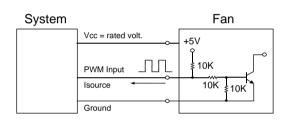
#### [RD Signal]

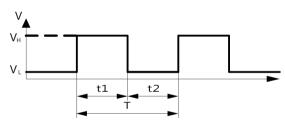


## [FG Signal] FG Output Voltage T1 T2 T3 T4 T = 1 Rotation T = T1 + T2 + T3 + T4 = 1 Rotation $T = \frac{60}{\text{rpm}}$



#### PWM Input Signal





## 1. Period: $T = \frac{1}{f_{PWM}} = t1 + t2(sec)$

2. Duty Cycle ( D.C. ) : 
$$\frac{t1}{t1+t2} * 100 = \frac{t1}{T} * 100(\%)$$

VH=2.3~5.5V

VL=0~0.8V

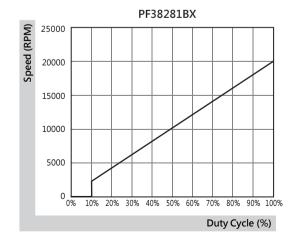
PWM FREQUENCY: 25KHZ

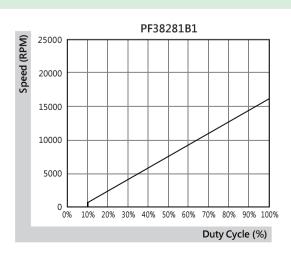
Isource=0.5mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 5%.

Please don't apply 1 ~ 4% duty cycle to prevent the unstable fan speed.





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<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



## 40x40x28 mm

### 24.9 CFM



#### Specifications

MAGLEV	Bearing	Rating Voltage	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight	Curve
by SUNON	VAPO	(VDC)	(mA)	(WATTS)	(RPM)	(CFM)	(Inch-H2O)	(dB(A))	(g)	
PF40281V1-0000-A99	•	12	740	8.88	17600	24.9	1.95	58.8	45.0	1

#### Other Function

#### PF40281V1

A99: AutoRestart

F99: AutoRestart and R type

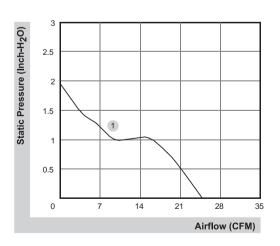
G99: AutoRestart and F type

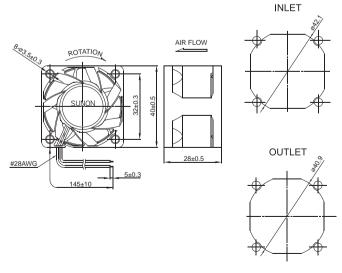
H99: AutoRestart and with PWM

Q99: AutoRestart, R type and with PWM

S99: AutoRestart , F type and with PWM

#### ■ Air Flow-Static Pressure Characteristics

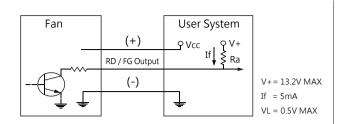




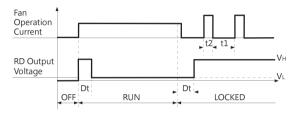
<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.

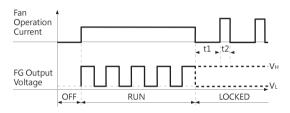




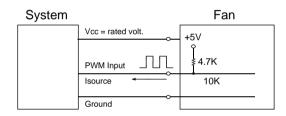
#### [RD Signal]

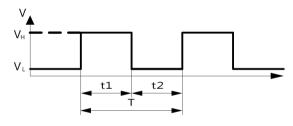


## [FG Signal] FG Output Voltage T1 T2 T3 T4 T = 1 Rotation T = T1 + T2 + T3 + T4 = 1 Rotation $T = \frac{60}{\text{rpm}}$



#### PWM Input Signal





1. Period: 
$$T = \frac{1}{f_{PWM}} = t1 + t2(sec)$$

2. Duty Cycle ( D.C. ) : 
$$\frac{t1}{t1+t2}*100 = \frac{t1}{T}*100(\%)$$

VH=2.3~5.5V

VL=0~0.8V

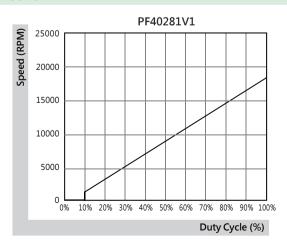
PWM FREQUENCY: 25KHZ

Isource=0.5mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 5%.

Please don't apply 1 ~ 4% duty cycle to prevent the unstable fan speed.



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<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



## 40x40x28 mm

### 12.8~31.3 CFM



#### Specifications

Model	Bearing	Rating Voltage	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight	Curve
	<ul><li>2BALL</li><li>Sleeve</li></ul>	(VDC)	(mA)	(WATTS)	(RPM)	(CFM)	(Inch-H <sub>2</sub> O)	(dB(A))	(g)	
PF40281BX-0000-A99	•	12	900	10.80	22000	31.3	2.81	66.6	42.0	1
PF40281B1-0000-A99	•	12	510	6.12	17600	24.9	1.95	58.8	42.0	2
PF40281B2-0000-A99	•	12	246	2.96	13000	18.0	1.10	50.7	45.0	3
PF40281B3-0000-A99	•	12	162	1.95	11000	15.4	0.78	45.9	45.0	4
PF40281B4-0000-A99	•	12	116	1.40	9200	12.8	0.54	41.9	45.0	5

#### Other Function

#### PF40281BX / 1

A99: AutoRestart

F99: AutoRestart and R type G99: AutoRestart and F type

H99: AutoRestart and with PWM

Q99: AutoRestart, R type and with PWM

S99: AutoRestart, F type and with PWM

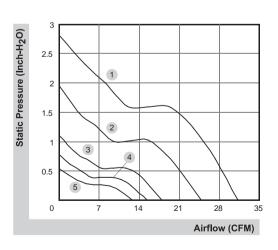
#### PF40281B2/3/4

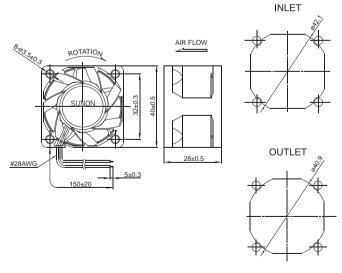
A99: AutoRestart

F99: AutoRestart and R type

G99: AutoRestart and F type

#### ■ Air Flow-Static Pressure Characteristics

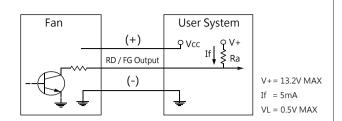




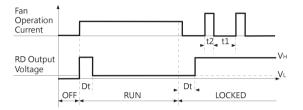
<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.

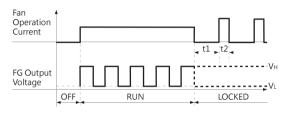




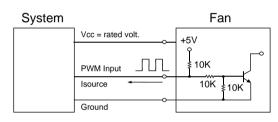
#### [RD Signal]

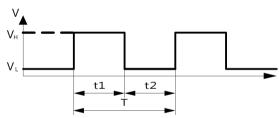


## [FG Signal] FG Output Voltage T1 T2 T3 T4 T = 1 Rotation T = T1 + T2 + T3 + T4 = 1 Rotation $T = \frac{60}{\text{rpm}}$



#### PWM Input Signal





1. Period: 
$$T = \frac{1}{f_{PWM}} = t1 + t2(sec)$$

2. Duty Cycle ( D.C. ) : 
$$\frac{t1}{t1+t2}*100 = \frac{t1}{T}*100(\%)$$

VH=2.3~5.5V

VL=0~0.8V

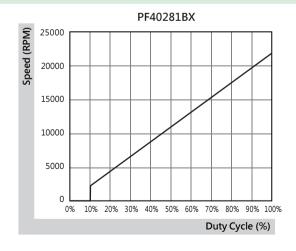
PWM FREQUENCY: 25KHZ

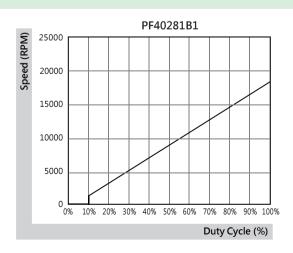
Isource=0.5mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 5%.

Please don't apply  $1 \sim 4\%$  duty cycle to prevent the unstable fan speed.





<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



## 40x40x56 mm

### 26.9~31.7 CFM



#### Specifications

Model	Bearing	Rating Voltage	Power Current	Power Consumption	Speed in / out	Air Flow	Static Pressure	Noise	Weight	Curve
	<ul><li>2BALL</li><li>Sleeve</li></ul>	(VDC)	(mA)	(WATTS)	(RPM)	(CFM)	(Inch-H <sub>2</sub> O)	(dB(A))	(g)	
PF40561BX-0000-A99	•	12	1390	16.68	21500/18000	31.7	3.60	67.9	87.0	1
PF40561B1-0000-A99	•	12	890	10.68	18000/15000	26.9	2.56	64.3	87.0	2

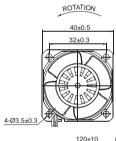
#### Other Function

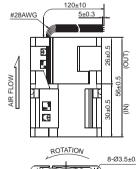
#### PF40561BX / 1

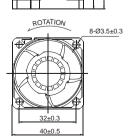
A99: AutoRestart

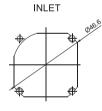
F99: AutoRestart and R type G99: AutoRestart and F type H99: AutoRestart and with PWM

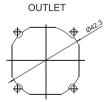
Q99: AutoRestart , R type and with PWM S99: AutoRestart , F type and with PWM ■ External dimensions(mm)



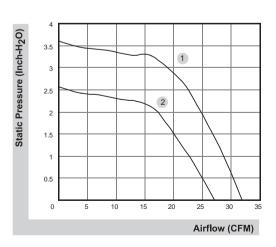








#### ■ Air Flow-Static Pressure Characteristics

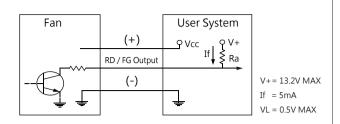


<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

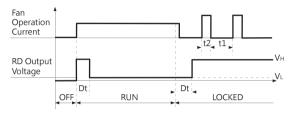
<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.

#### SUNON

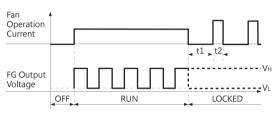
#### FG Signal



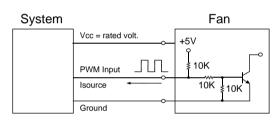
#### [RD Signal]

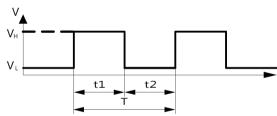


# FG Output Voltage T1 T2 T3 T4 VL T = 1 Rotation T = T1 + T2 + T3 + T4 = 1 Rotation $T = \frac{60}{\text{rpm}}$



#### PWM Input Signal





1. Period: 
$$T = \frac{1}{f_{PWM}} = t1 + t2(sec)$$

2. Duty Cycle (D.C.): 
$$\frac{t1}{t1+t2}*100 = \frac{t1}{T}*100(\%)$$

VH=2.3~5.5V

VL=0~0.8V

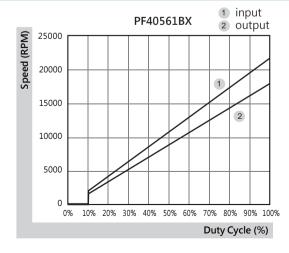
PWM FREQUENCY: 25KHZ

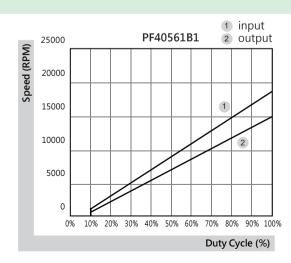
Isource=0.5mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 10%.

Please don't apply 1 ~ 9% duty cycle to prevent the unstable fan speed.





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<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



## 60x60x38 mm

## 60.6~75.2 CFM



#### Specifications

Model	Bearing  • 2BALL  • Sleeve	Rating Voltage (VDC)	Power Current (mA)	Power Consumption (WATTS)	Speed (RPM)	Air Flow (CFM)	Static Pressure (Inch-H <sub>2</sub> O)	Noise (dB(A))	Weight (g)	Curve
PF60381BX-0000-A99	•	12	2500	30.00	16500	75.2	3.28	69.6	127.0	1
PF60381B1-0000-A99	•	12	1200	14.40	13200	60.6	2.13	63.2	127.0	2

#### Other Function

#### PF60381BX / 1

A99: AutoRestart

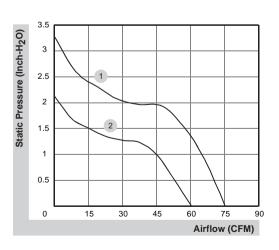
F99: AutoRestart and R type

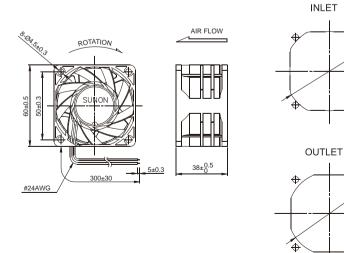
G99: AutoRestart and F type

H99: AutoRestart and with PWM

Q99: AutoRestart , R type and with PWM S99: AutoRestart , F type and with PWM

#### ■ Air Flow-Static Pressure Characteristics

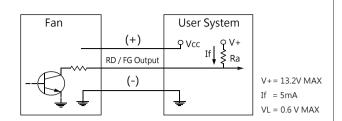




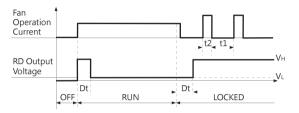
<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

 $<sup>{}^*</sup>Specifications \ are \ subject \ to \ change \ without \ notice. \ Please \ \ Visit \ SUNON \ website \ at \ www.sunon.com \ for \ update \ information.$ 

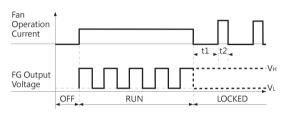




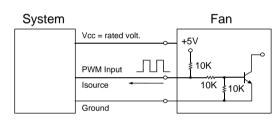
#### [RD Signal]

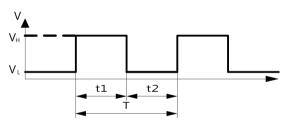


## [FG Signal] FG Output Voltage T1 T2 T3 T4 T = 1 Rotation T = T1 + T2 + T3 + T4 = 1 Rotation $T = \frac{60}{\text{rpm}}$



#### PWM Input Signal





## 1. Period: $T = \frac{1}{f_{PWM}} = t1 + t2(sec)$

2. Duty Cycle ( D.C. ) : 
$$\frac{t1}{t1+t2}*100 = \frac{t1}{T}*100(\%)$$

VH=2.3~5.5V

VL=0~0.8V

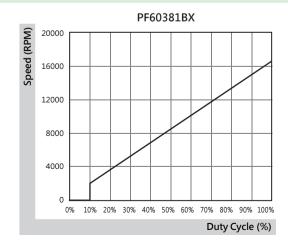
PWM FREQUENCY: 25KHZ

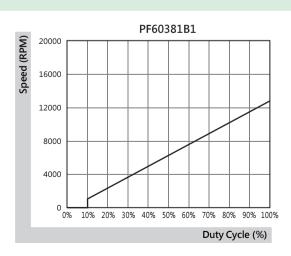
Isource=0.5mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 10%.

Please don't apply  $1 \sim 9\%$  duty cycle to prevent the unstable fan speed.





<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



## 80x80x38 mm

### 113.9~141.9 CFM



#### Specifications

Model	Bearing	Rating Voltage	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight	Curve
	<ul><li>2BALL</li><li>Sleeve</li></ul>	(VDC)	(mA)	(WATTS)	(RPM)	(CFM)	(Inch-H <sub>2</sub> O)	(dB(A))	(g)	
PF80381BX-0000-A99	•	12	4000	48.00	14000	141.9	3.20	74.1	195.0	1
PF80381B1-0000-A99	•	12	2000	24.00	11200	113.9	2.23	66.8	195.0	2

#### Other Function

#### PF80381BX / 1

A99: AutoRestart

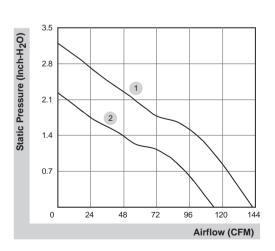
F99: AutoRestart and R type

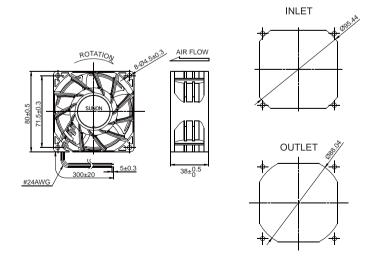
G99: AutoRestart and F type H99: AutoRestart and with PWM

Q99: AutoRestart , R type and with PWM

S99: AutoRestart , F type and with PWM

#### ■ Air Flow-Static Pressure Characteristics

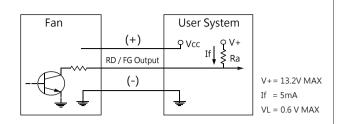




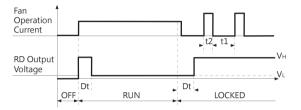
<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.

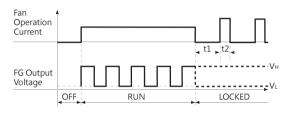




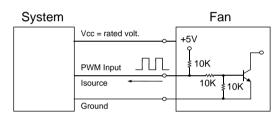
#### [RD Signal]

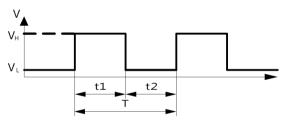


#### 



#### PWM Input Signal





## 1. Period: $T = \frac{1}{f_{PWM}} = t1 + t2(sec)$

2. Duty Cycle ( D.C. ) : 
$$\frac{t1}{t1+t2}*100 = \frac{t1}{T}*100(\%)$$

VH=2.3~5.5V

VL=0~0.8V

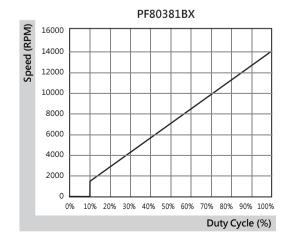
PWM FREQUENCY: 25KHZ

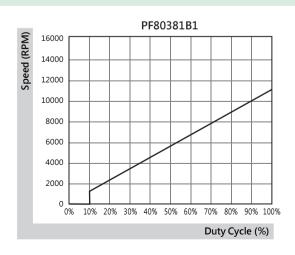
Isource=0.5mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 10%.

Please don't apply  $1 \sim 9\%$  duty cycle to prevent the unstable fan speed.





<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



## 92x92x38 mm

### 138.1~182.4 CFM



#### Specifications

Model	Bearing	Rating Voltage	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight	Curve
	<ul><li>2BALL</li><li>Sleeve</li></ul>	(VDC)	(mA)	(WATTS)	(RPM)	(CFM)	(Inch-H <sub>2</sub> O)	(dB(A))	(g)	
PF92381BX-0000-A99	•	12	4000	48.00	13000	182.4	2.94	74.1	210.0	1
PF92381B1-0000-A99	•	12	1700	20.40	9800	138.1	1.95	65.7	210.0	2

#### Other Function

#### PF92381BX / 1

A99: AutoRestart

F99: AutoRestart and R type

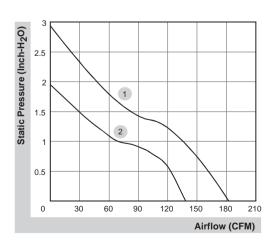
G99: AutoRestart and F type

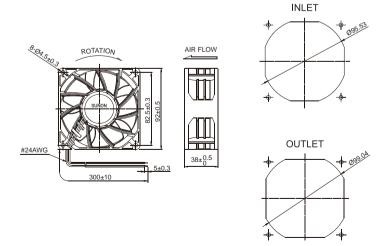
H99: AutoRestart and with PWM

Q99: AutoRestart, R type and with PWM

S99: AutoRestart , F type and with PWM

#### ■ Air Flow-Static Pressure Characteristics

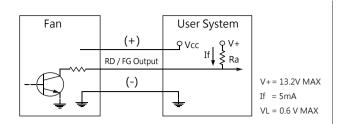




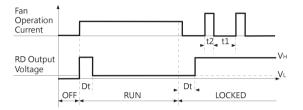
<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.

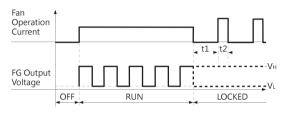




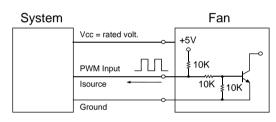
#### [RD Signal]

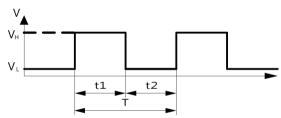


## [FG Signal] FG Output Voltage T1 T2 T3 T4 T = 1 Rotation T = T1 + T2 + T3 + T4 = 1 Rotation $T = \frac{60}{\text{rpm}}$



#### PWM Input Signal





1. Period: 
$$T = \frac{1}{f_{PWM}} = t1 + t2(sec)$$

2. Duty Cycle ( D.C. ) : 
$$\frac{t1}{t1+t2}*100 = \frac{t1}{T}*100(\%)$$

VH=2.3~5.5V

VL=0~0.8V

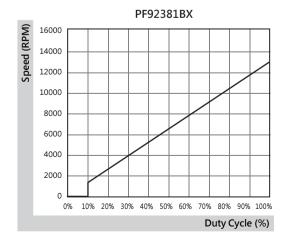
PWM FREQUENCY: 25KHZ

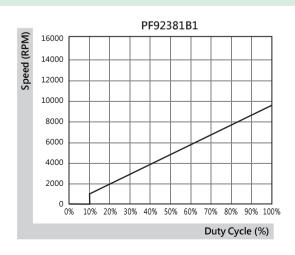
Isource=0.5mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 10%.

Please don't apply  $1 \sim 9\%$  duty cycle to prevent the unstable fan speed.





<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



## 97x95x33 mm

### 44.2~54.7 CFM



#### Specifications

Model	Bearing  • 2BALL  • Sleeve	Rating Voltage (VDC)	Power Current (mA)	Power Consumption (WATTS)	Speed (RPM)	Air Flow (CFM)	Static Pressure (Inch-H <sub>2</sub> O)	Noise (dB(A))	Weight (g)	Curve
PF97331BX-B000-A99	•	12	3500	42.00	6800	54.7	5.22	65.2	184.0	1
PF97331B1-B000-A99	•	12	1600	19.20	5400	44.2	3.39	60.0	184.0	2

#### Other Function

#### PF97331BX / 1

A99: AutoRestart

F99: AutoRestart and R type

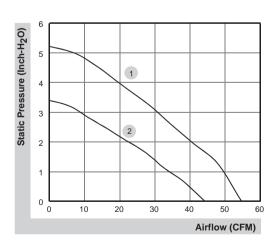
G99: AutoRestart and F type

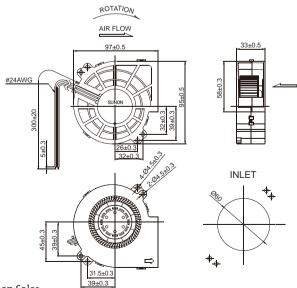
H99: AutoRestart and with PWM

Q99: AutoRestart , R type and with PWM  $\,$ 

S99: AutoRestart , F type and with PWM

#### ■ Air Flow-Static Pressure Characteristics

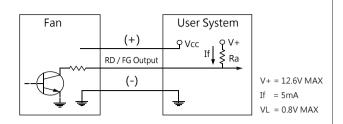




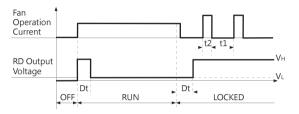
<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.

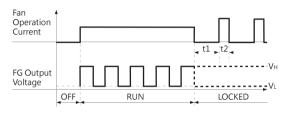




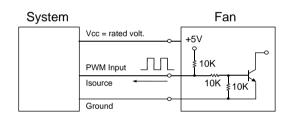
#### [RD Signal]

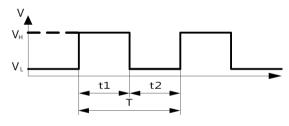


## [FG Signal] FG Output Voltage T1 T2 T3 T4 T = 1 Rotation T = T1 + T2 + T3 + T4 = 1 Rotation $T = \frac{60}{\text{rpm}}$



#### PWM Input Signal





1. Period: 
$$T = \frac{1}{f_{PWM}} = t1 + t2(sec)$$

2. Duty Cycle ( D.C. ) : 
$$\frac{t1}{t1+t2}*100 = \frac{t1}{T}*100(\%)$$

VH=2.3~5.5V

VL=0~0.8V

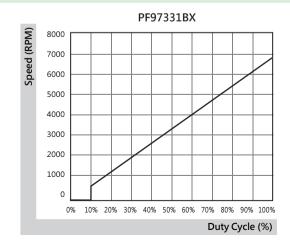
PWM FREQUENCY: 25KHZ

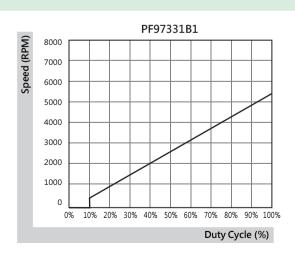
Isource=0.5mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 10%.

Please don't apply  $1 \sim 9\%$  duty cycle to prevent the unstable fan speed.





<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.



## 140x140x38 mm

### 238.5~297.9 CFM



#### Specifications

Model	Bearing	Rating Voltage	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight	Curve
	<ul><li>2BALL</li><li>Sleeve</li></ul>	(VDC)	(mA)	(WATTS)	(RPM)	(CFM)	(Inch-H <sub>2</sub> O)	(dB(A))	(g)	
PFE0381BX-0000-A99	•	12	3300	39.60	6800	297.9	2.05	70.3	472.0	1
PFE0381B1-0000-A99	•	12	1720	20.64	5500	238.5	1.20	64.0	472.0	2

#### Other Function

#### PFE0381BX / 1

A99: AutoRestart

F99: AutoRestart and R type

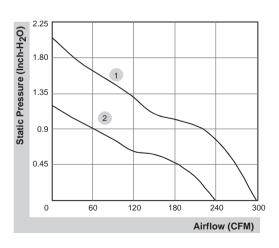
G99: AutoRestart and F type

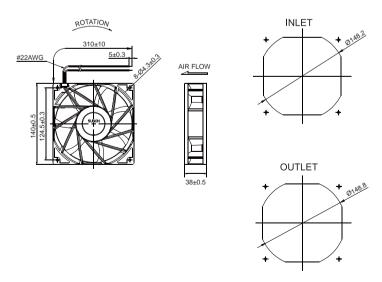
H99: AutoRestart and with PWM

Q99: AutoRestart , R type and with PWM  $\,$ 

S99: AutoRestart , F type and with PWM

#### ■ Air Flow-Static Pressure Characteristics

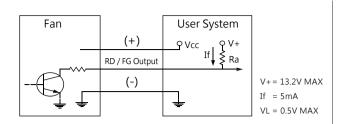




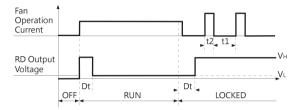
<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

<sup>\*</sup>Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.

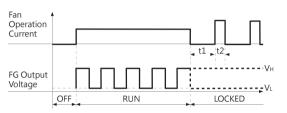




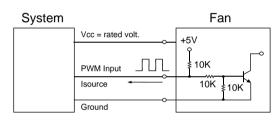
#### [RD Signal]

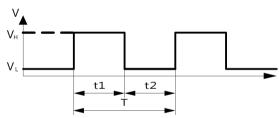


## [FG Signal] FG Output Voltage T1 T2 T3 T4 T = 1 Rotation T = T1 + T2 + T3 + T4 = 1 Rotation $T = \frac{60}{rpm}$



#### PWM Input Signal





## 1. Period: $T = \frac{1}{f_{PWM}} = t1 + t2(sec)$

2. Duty Cycle ( D.C. ) : 
$$\frac{t1}{t1+t2}*100 = \frac{t1}{T}*100(\%)$$

VH=2.3~5.5V

VL=0~0.8V

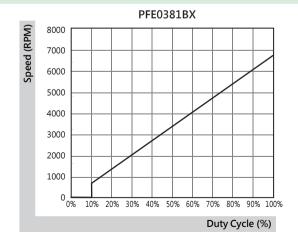
PWM FREQUENCY: 25KHZ

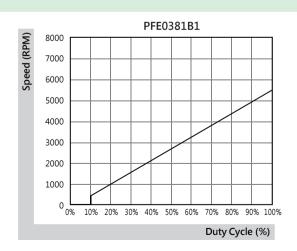
Isource=0.5mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 10%.

Please don't apply 1  $\sim$  9% duty cycle to prevent the unstable fan speed.





<sup>\*</sup>All model could be customized. Please contact with Sunon Sales.

 $<sup>{}^*</sup>Specifications \ are \ subject \ to \ change \ without \ notice. \ Please \ \ Visit \ SUNON \ website \ at \ \ www.sunon.com \ for \ update \ information.$ 



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