

# Brushless DC Fan - Ball Bearing

## 80mm × 80mm × 25mm

**multicomp** PRO

**RoHS  
Compliant**



### Specification

#### Mechanical Characteristic

Motor Design	Brushless DC motor
Bearing System	Precision ball bearing system
Materials of Frame	Thermoplastic PBT of UL 94V-0
Materials of Fan Blade	Thermoplastic PBT of UL 94V-0
Direction of Rotation	Counter-Clockwise Viewed From Front of Fan Blade
Mounting Holes	Diameter 4.3 mm in 8 Holes
Weight	91g

#### Electric Characteristic

Rated Voltage	24V DC
Rated Current	100mA / Max. 115mA
Rated Power Consumption	2.4 Watts / Max. 2.76 Watts
Operating Voltage Range	10V DC to 27.6V DC
Starting Voltage	10V DC (25°C Power on/off)
Operating Temperature Range	-10°C to + 70°C
Storage Temperature Range	-40°C To + 70°C

#### Performance Characteristic

Rated Speed	4200 RPM ± 10% at Rated Voltage
Air Flow	53 CFM
Static Pressure	0.3 Inch-H <sub>2</sub> O
Acoustic Noise	42.5 dB(A)
Insulation Class	UL Class A
Insulation Resistance Plastic Housing	10MΩ At 500V DC Between Internal Stator and Lead Wire (+)
Dielectric Strength	Applied AC 500V For one Minute or AC 600V for 2 Seconds Between Housing and Lead Wire (+)
Life Expectancy	70,000 Hours at 40°C, 65% humidity, 90% CL.
Protection	Automatic Restart Note: In a situation where the fan is locked by an external force while the electricity is on, an increase in coil temperature will be prevented by temporarily turning off the electrical power to the motor. The fan will automatically restart when the locked rotor condition is released. Polarity Protection

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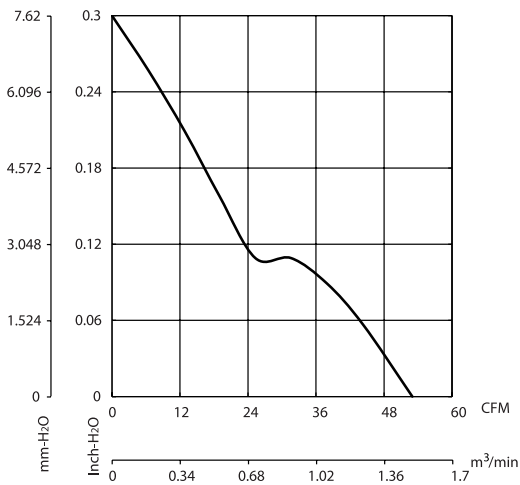
### Safety

SAFETY	UL	CUR	TUV	CE
NO.	E77551	E77551	✓	✓

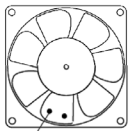
### Performance Curves

#### Static Pressure

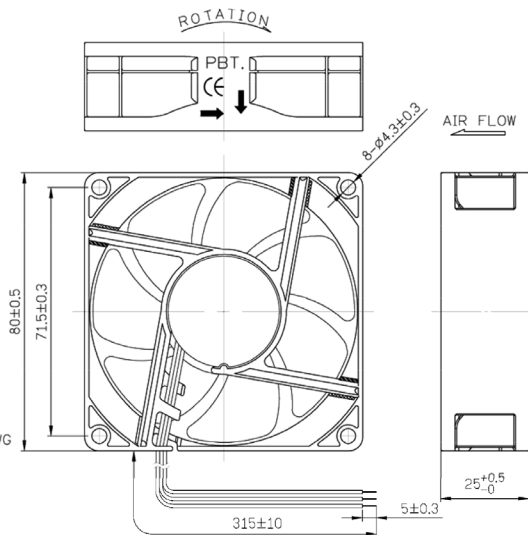
mm-H<sub>2</sub>O Inch-H<sub>2</sub>O



### Dimensions



Note: The glues on the impeller is for impeller balance. Please don't remove it.



NOTE:  
 1.LEAD WIRE:UL1007 #24AWG  
 RED WIRE -----(+)  
 BLACK WIRE -----(-)  
 YELLOW WIRE --(FG)  
 2.FRAME TYPE:FLANGE

Screw Type (Pan head)	Torque	Screw Spec.
		Size
Machine screw	3~4 Kgf-cm	M4.0
Self-tapping screw	5~6 Kgf-cm	5.0

Dimensions : Millimetres

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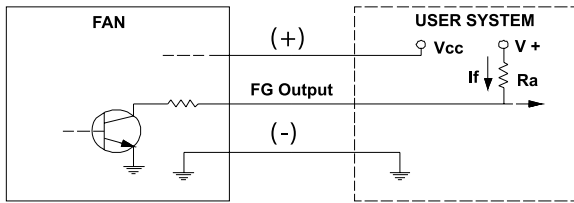
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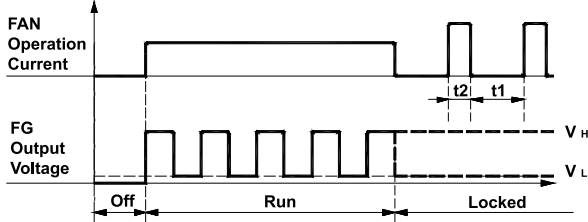
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### Fan 3rd Wire Signal

F Type (Frequency Generator)

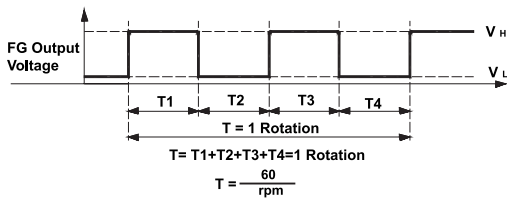


$$R_a \geq V^+ / I_f (\text{max})$$



### Electrical Characteristics: ( at Ta = 25°C, Vcc =Rated Volt.)

Parameter	Ratings			Unit
	Min.	Typ.	Max.	
FG Output (VH)	-	-	27.6	Voltage
Ratio(=t1/t2)	-	-	5	mA
FG Supply Voltage(V+)	-	-	0.5	Voltage
FG Output Current (If)	-	V+	-	
FG Output (VL)	-	10	-	



### Part Number Table

Description	Part Number
Brushless DC Fan, Ball Bearing, 24V DC, 80mm × 80mm × 25mm, 3 Wire Leads	MP006479

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