

Axial Fan • DC Type ▶ With Induction Output Type

Fans

Code	Type		Material	Bearing	Service Life
ZHJ26	Axial Fan	DC Type	PBT	Double Ball	70000H

UL

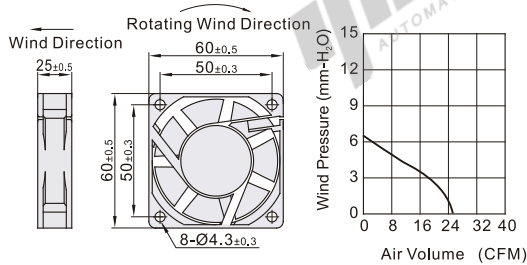
CE



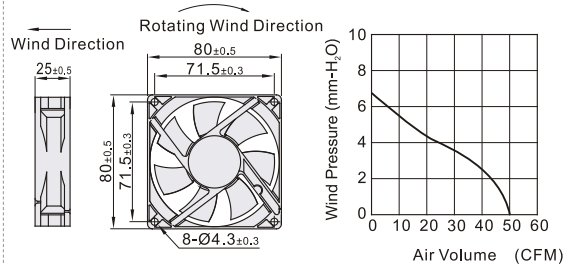
Features:

- Add sensor output function on the basis of ordinary DC Fan ;
- Can monitor Fan's rotation/stop status or output fan rotating speed ;
- Fan rotating speed can be adjusted by PWM control.

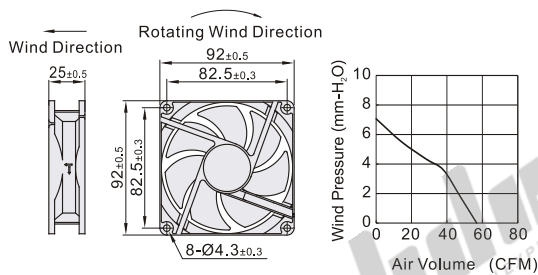
Dimensions: 60



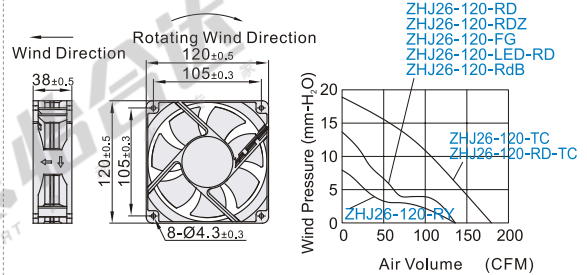
Dimensions: 80



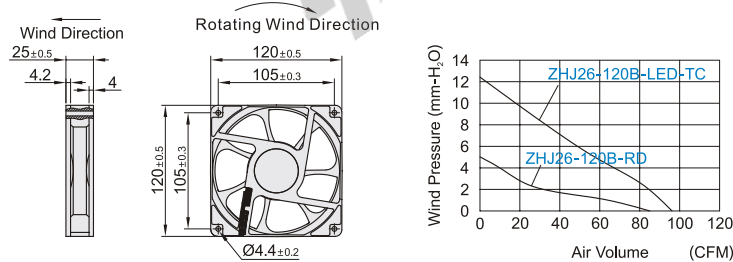
Dimensions: 92



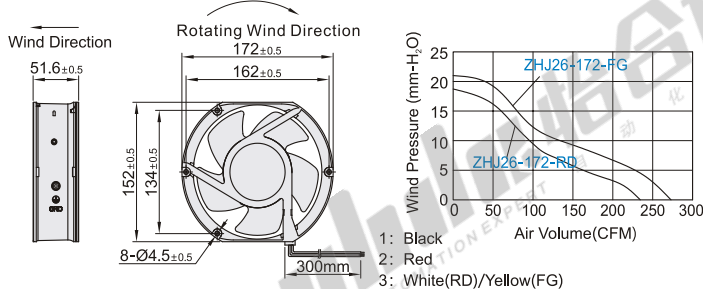
Dimensions: 120



Dimensions: 120B

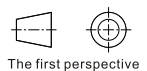


Dimensions: 172



Wiring Diagram

FAN	+Red Single Line
	- Black Single Line
	FG(Yellow Single Line)
	PWM(Blue Single Line)
	RD/RDB/RDZ(White Single Line)
	RY(Yellow and Blue Double Lines)
	LED(Red, Black and Yellow Three Wires) No Wiring
	TC(Black and Black Double Lines) No Wiring



The first perspective

Part Number Code	Dimensions	Output Function 1	Output Function 2	Length×Width ×Height	Input Voltage	Applicable Accessories	Rotating Speed Control Function	Electric Current (A)	Rotating Speed (RPM)	Air Volume (CFM)	Wind Pressure (mm-H ₂ O)	Noise (dB[A])	Weight (g)
60		RD(Run/Stop Status Output)		60×60×25	DC24V		PWM Control Mode	0.07	5000	25.6	6.5	40	57
80		FG(Rotating Speed Output)	—	80×80×25				0.14	4300	50.5	6.81	76	76
92				92×92×25				0.15	3500	62.13	7.02	38	79
120B		RD(Run/Stop Status Output)		120×120×25	DC12V	Iron Mesh	—	0.13	2500	85.5	5	36	176
		LED(With LED Light)	TC(Temperature Sensing Automatic Control Mode)					0.1~0.4	2000~4000	46.8~95.7	6.175~12.5	29.5~46.02	
								0.48	3200	123.2	11.4	44	260
ZHJ26		RD(Run/Stop Status Output)	TC(Temperature Sensing Automatic Control Mode)	120×120×38	DC24V	Strainer ZHJ41	Temperature Sensing Self-Control Mode	0.15~0.65	2000~4000	94.3~179.5	9.85~18.45	36~55.3	300
		RDZ(Run/Stop Status Output)						0.48	3200	123.2	11.4	44	260
		FG(Rotating Speed Output)	—					0.5	4200	145.7	13.97	54.5	300
		RY(Relay Signal)						0.15~0.65	2000~4000	94.3~179.5	9.85~18.45	36~55.3	300
		LED(With LED Light)	RD(Run/Stop Status Output)					0.48	3200	123.2	11.4	44	260
		RDZ(Run/Stop Status Output (PNP))						0.33	3200	123.2	11.3	48	260
172		RD(Run/Stop Status Output)	—	152×172×51.6			Blinds ZHJ43	0.52	3000	235.5	19.2	54	710
		FG(Rotating Speed Output)						0.77	3500	263	20.85	57	610

① TC: With temperature sensor;

① LED: With LED light, the light is green when the fan is working normally, and the light is red when the fan is not working;

① RY: Relay signal (when the Fan is running, the yellow and blue wires are not conducting; when the Fan is not energized and locked, the yellow and blue wires are conducting);

① RD: Turn/stop state, output NPN signal, **RdB**: Output PNP signal.

① Applicable Accessories: iron mesh/strainer-please refer to P227, blinds-please refer to P228.



Please order
as shown

Part Number Code	Dimensions	Output Function 1	Output Function 2
ZHJ26	120B	RD(Run/Stop Status Output)	—
		LED(With LED Light)	TC(Temperature Sensing Automatic Control Mode)

ZHJ26 — 120B — RD

ZHJ26 — 120B — LED — TC

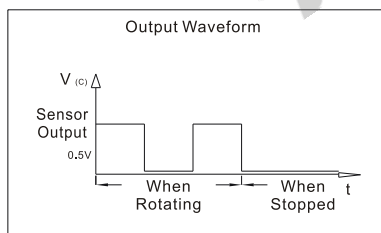
Temperature Control Instructions

Ambient Temperature	Change of Rotating Speed
≤25°C	2000RPM
25°C~35°C	2000~4000RPM(Increased With Temperature)
≥35°C	4000RPM (Full Speed)

Function Description

●FG function: (frequency generator or output tachometer) {yellow power cord}

This is an open-collector output which connected to a "pull-up" resistor and the input power supply voltage of compatible reading device, this output provides a Square wave signal (such as TTL input computer). The maximum collector voltage may be up to 72 volts DC and the maximum collector current is up to 10mA. The power supply of the reading device must have the same Ground potential as the fan.



●PWM function: (pulse width modulation signal control) {blue power line}

The PWM function can use the frequency and piezoelectricity to control the fan rotating speed. In this function, the frequency can be adjusted from 30Hz~30KHz, the high-level voltage range can be adjusted from 3V to 10V, and the low-level voltage range is ≤0.8V. fan rotating speed can be linearly control by adjusting the "duty cycle" until the maximum fan rotating speed. CS (constant speed), SS (soft start function) and CL (current limit) functions can be included. Three types of PWM function example diagrams are as follows:

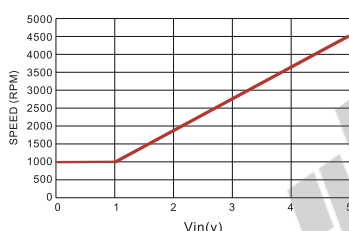


Fig.12a

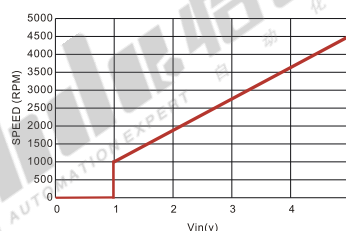


Fig.12b

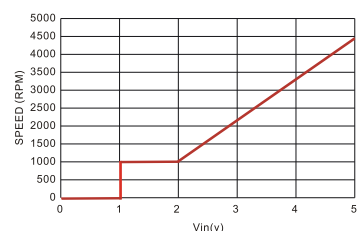
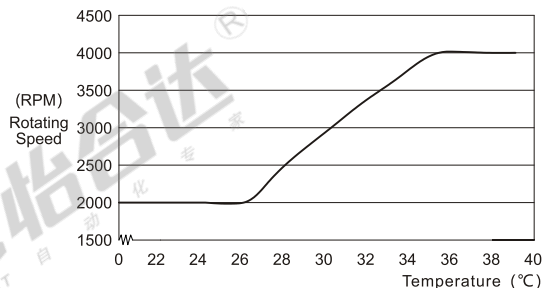


Fig.12c

Temperature Sensing Corresponding Graph



●RD function: (rotation detection function) {gray power cord}

This is an open collector function which is the same hardware function as the FG mentioned above. The signal pin outputs is low when the fan is running, and the outputs is high when the rotor is blocked.

