

### General Data

No.	Name	Parameter
1.1	Max Air Flow	9300 m <sup>3</sup> /h A type air outlet wind tunnel)
1.2	Max Static Pressure	90 Pa A type air outlet wind tunnel)
1.3	Rated Speed	820 ± 100 r/min
1.4	Input Power	400 ± 16% W
1.5	Rated Voltage	230 VAC 50/60Hz
1.6	Operating Voltage	230 VAC 50/60Hz
1.7	Start Voltage	1.4VDC
1.8	Rated Current	1.9 ± 16% A
1.9	Noise Level	65 ± 5 dB(A)
1.10	Direction	CCW (seen on rotor of motor)
1.11	Insulation Class	F
1.12	Withstand voltage	1800 VDC      10 mA 60 s Voltage:1800 VDC Tripping current:10 mA Time: 60 s
1.13	Insulation Resistance	500VDC ≥50MΩ Voltage:500VDC Resistance: ≥50MΩ
1.14	Electrical Protection	Undervoltage protection Overvoltage protection Overcurrent protection Locked rotor protection Automatic restart capability Soft start
1.15	Speed Control	0~10 VDC & PWM

1.16	Grounding Resistance	$\leq 0.1\Omega$
1.17	IP Class	IP44
1.18	Signal Feedback	FG 1 FG sign:open-drain output, external pull-up resistor 1 pulses / R
1.19	Vibration	$\leq 4.6\text{mm/s}$
1.20		+10VDC
1.21	RoHS	RoHS All the material meets RoHS standard.

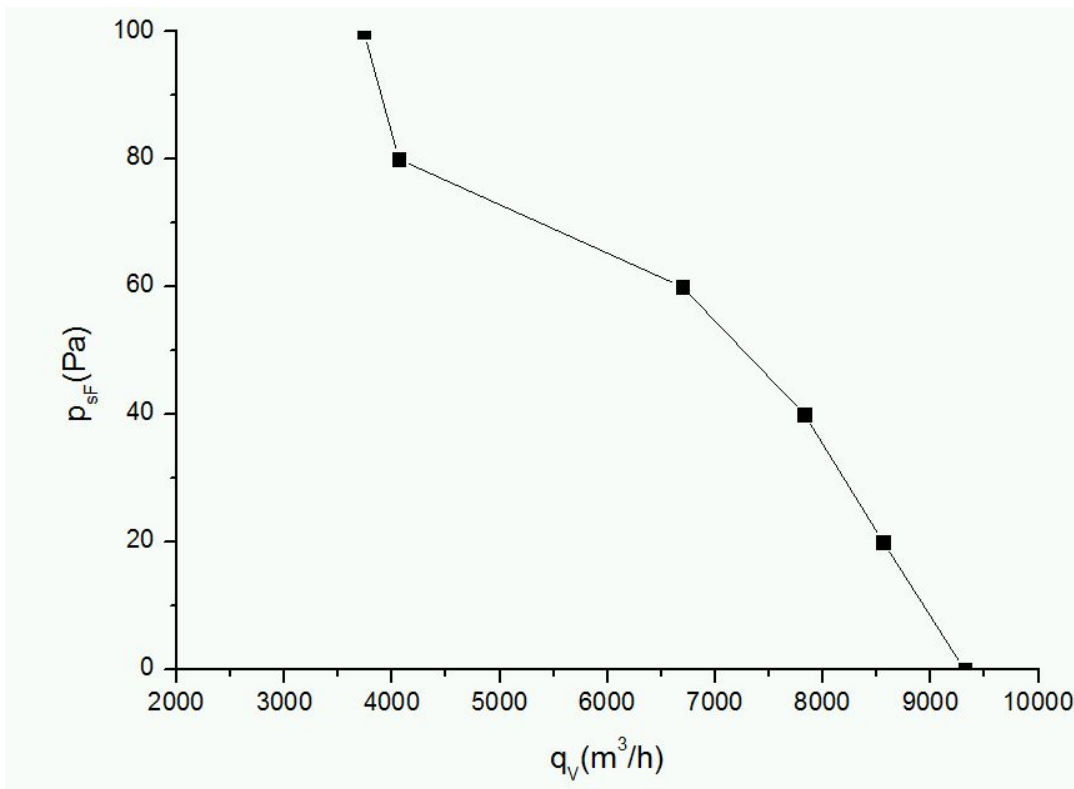
### Mechanical

No.	Name	Parameter
2.1	Dimension	see dimension drawing)
2.2	Material of Blades	SPCC
2.3	Number of Blades	5
2.4	Impeller Plate	/
2.5	Impeller Color	Black
2.6	Surface coat	
2.7	Bearing	6003ZZ Deep groove ball bearings 6003ZZ
2.8	Lead Wire	3×AWG#18 L=1.5m
2.9	Control wire	4×AWG#20 L=1.5m
2.10	Net Weight	13.8kg
2.11	Gross Weight	14.8kg
2.12	Carton Size	67X67X20cm
2.13	Package	Carton with shock- absorption material, put on pallet

### Operating Environment

No.	Name	Parameter
3.1	Operating Temperature	-25°C to 60°C
3.2	Storage Temperature	-40°C to 75°C
3.3	Operating Humidity	5% to 90% RH
3.4	Storage Humidity	5% to 95% RH

**Performance curve**



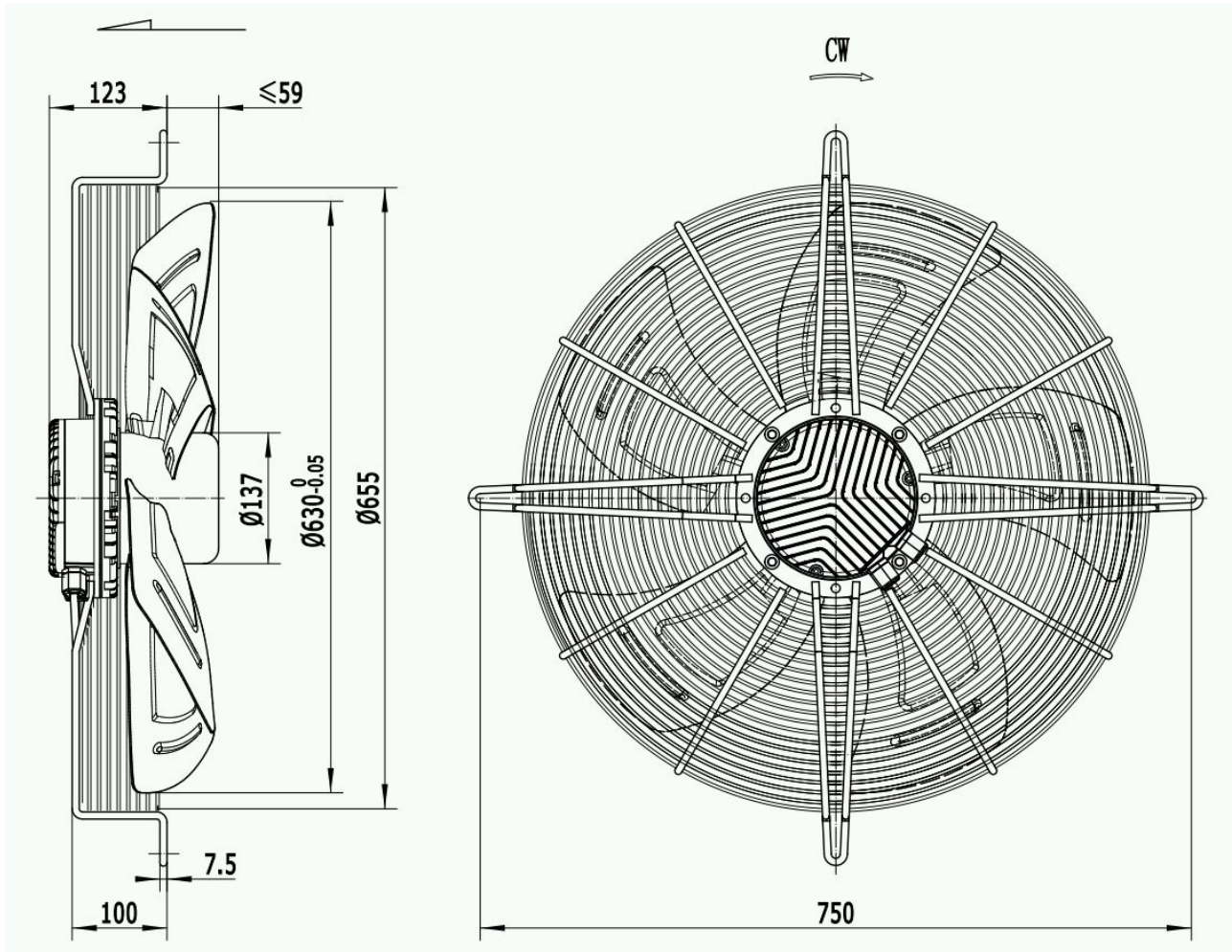
Testing Condition:

Input Voltage----230 VAC

Temperature----Room temperature

Humidity----65%RH

### Outline Drawing



**Note:**

1. Lead wire: 3×AWG#18

Brown: L

Blue: N

Yellow/Green: PE

2. Control wire: 4×AWG#20

Red: +10VDC Output

Yellow: 0~10VDC/PWM

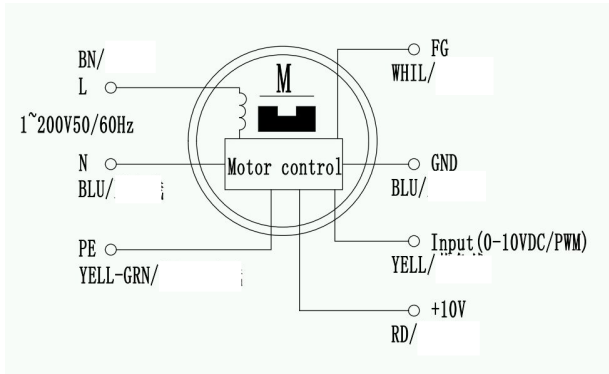
White: FG speed diagnostic output

Blue: GND

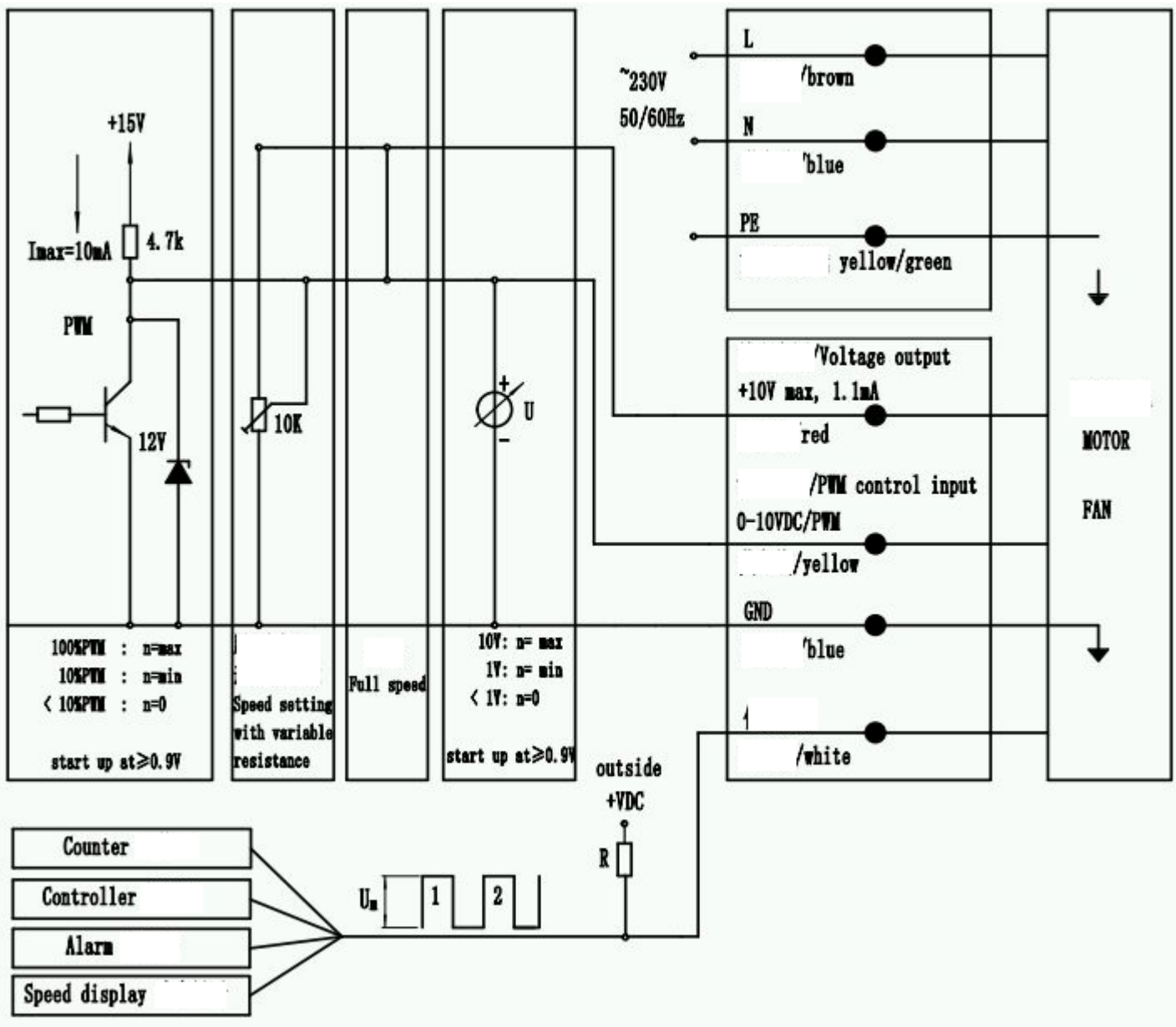
3. Attachment: Potentiometer.

### Connection Diagram

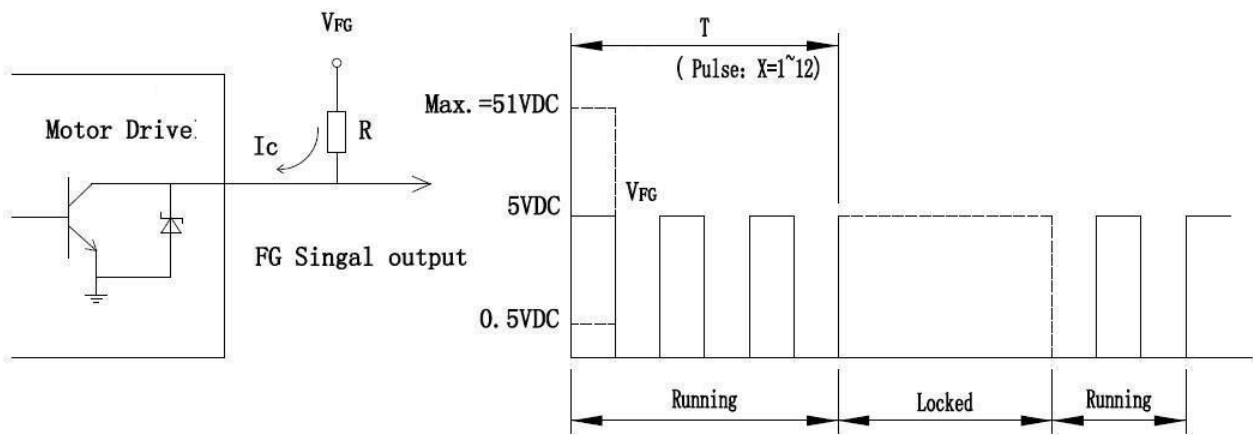
Motor connection diagram:



### Interface Circuit:

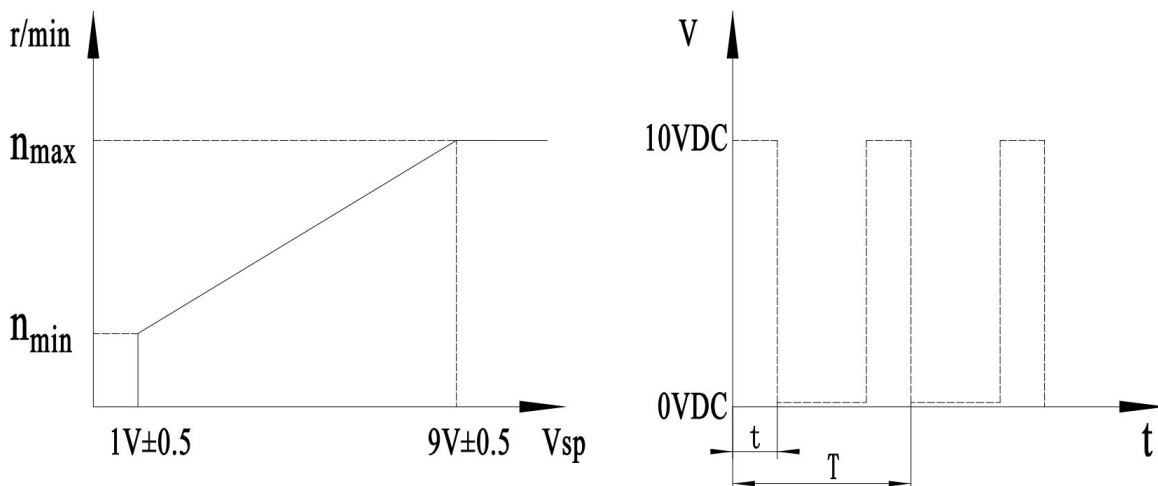


### FG signal connection diagram:



1. Output type: Open Collect.
2. R Design requirement:  
 $R \geq V_{FG}/I_c$ ,  $I_c=10\text{mA (Max.)}$ .  
 Normal:  $V_{FG}=5\text{VDC}$ ,  $R=1\text{k}\Omega$ .
3. The Max. pull-up voltage.  
 $V_{FG} =51\text{VDC (Max.)}$ .
4. Pulse number: 1 PPR .
5. Frequency and Speed calculation:  
 $n=\text{RPM}$   
 $T=60/n$  (s)  
 $F=(1/T)*X=(n/60)*X$  (Hz)  
 $n=(60*F)/X$  ( r/min )

### (4) Speed control signal diagram:



1. The speed control signal: 0~10VDC /PWM
2. At full speed ,speed wire can be directly connected with 48VDC or 24VDC or 12VDC or 10VDC

direct line.

3.PWM frequency 1~10kHz,duty cycle 0~100%.The speed control signal of support for 0.9~10VDC  
Analog voltage pulse with PWM compatible.