AXIAL FAN - EC Motor

LWAE3G250ST-7MEW-04

230V~50/60Hz

Ningbo Longwell Electric Technology CO.,LTD

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Nominal Data

Model		LWAE3G250ST-7MEW-04
Nominal Voltage :	[VAC]	230
Voltage Range :	[VAC]	176-264
Frequency :	[Hz]	50/60
Speed :	[rpm]	3150
Current :	[A]	0.9
Power input :	[W]	135
Air flow (Max) :	[m3/h]	1751
	[CFM]	1042
Static pressure (Max) :	[Pa]	290
Noise level :	dB(A)	69
Min.ambient Temp :	℃	-25
Max.ambient Temp :	℃	+ 60

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Technical Features

Material :	Sheet steel （Impeller）
Life Expectance :	40,000Hours(L10)，At 40℃ room, humidity 15%~65%RH
Service environment :	Operating temperature：-25~60℃；Operating humidity：0 ~ 85 % RH Storing temperature：-25 ~ 70℃；Storing humidity：0 ~ 95 % RH Applicable altitude range： ＜1000m
Insulation Class :	Class B（130℃）
Protection Type :	IP54
Speed Control :	Control input 0~10VDC/PWM
Production standard :	GB12350《Safety requirements of small power motors》 JB/T10563 《 technical specification for general purposes centrifugal fans》 EN60335-1《Household and similar electrical appliances-safety》 ISO5801-1997《Industrial fans-performance testing using standardized airways》 GB/T2888《 Methods of Noise Measurement for Fans Blowers Compressors and Roots Blowers》
Balancing :	At the rated voltage and frequency,the residual unbalance of the fan is not less than G6.3 (balancing precision grade)in each plane,according with JB/T9101
Vibration of the fan :	Vibration speed virtual value of fans accord with JB/T8689

Electrical Protection

Control signal :	Control signal VSP voltage range1.0±10VDC. PWM signal：frequency 1K~10KHz amplitude 10~12V duty cycle 0%~100% Tach output：1 Pulse/R
Protection :	Current limiting protection | Over-temperature protection | Over-current protection Locked-rotor protection | Over-voltage and under-voltage protection Input power supply lacks phase protection
Soft start :	Delay time <30 seconds to full speed
EMC :	Electromagnetic radiation in accordance with GB9254 provisions
Serial Communication :	/

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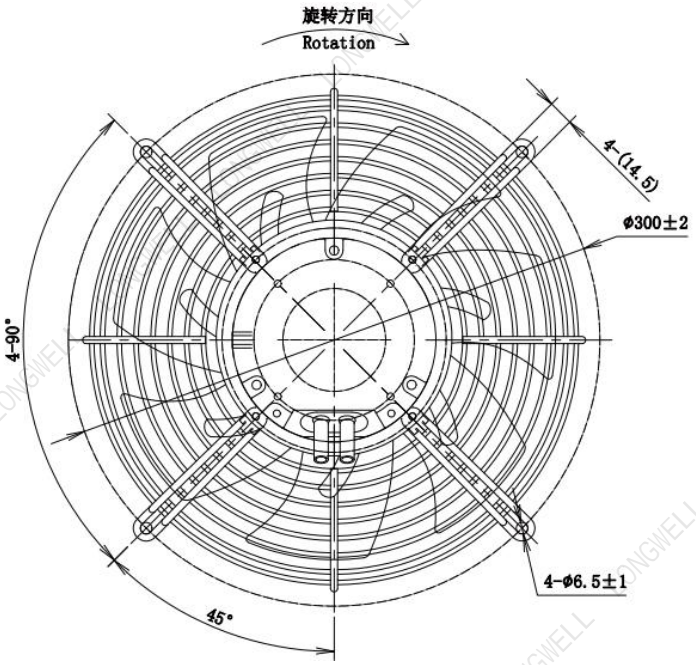
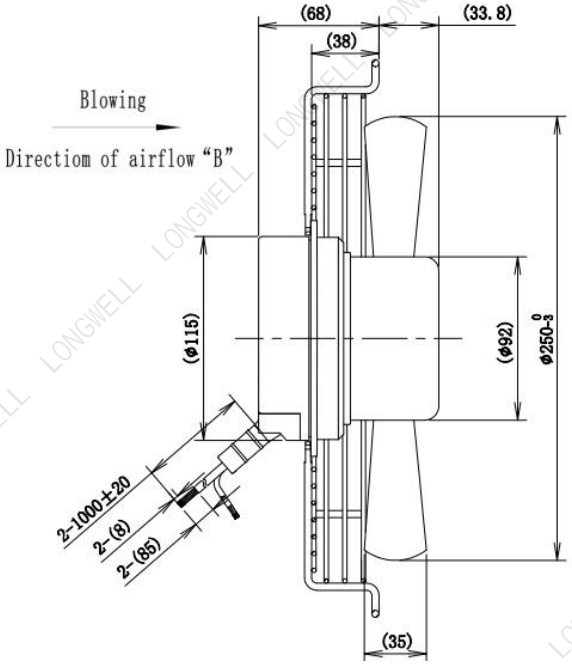
Product Drawing





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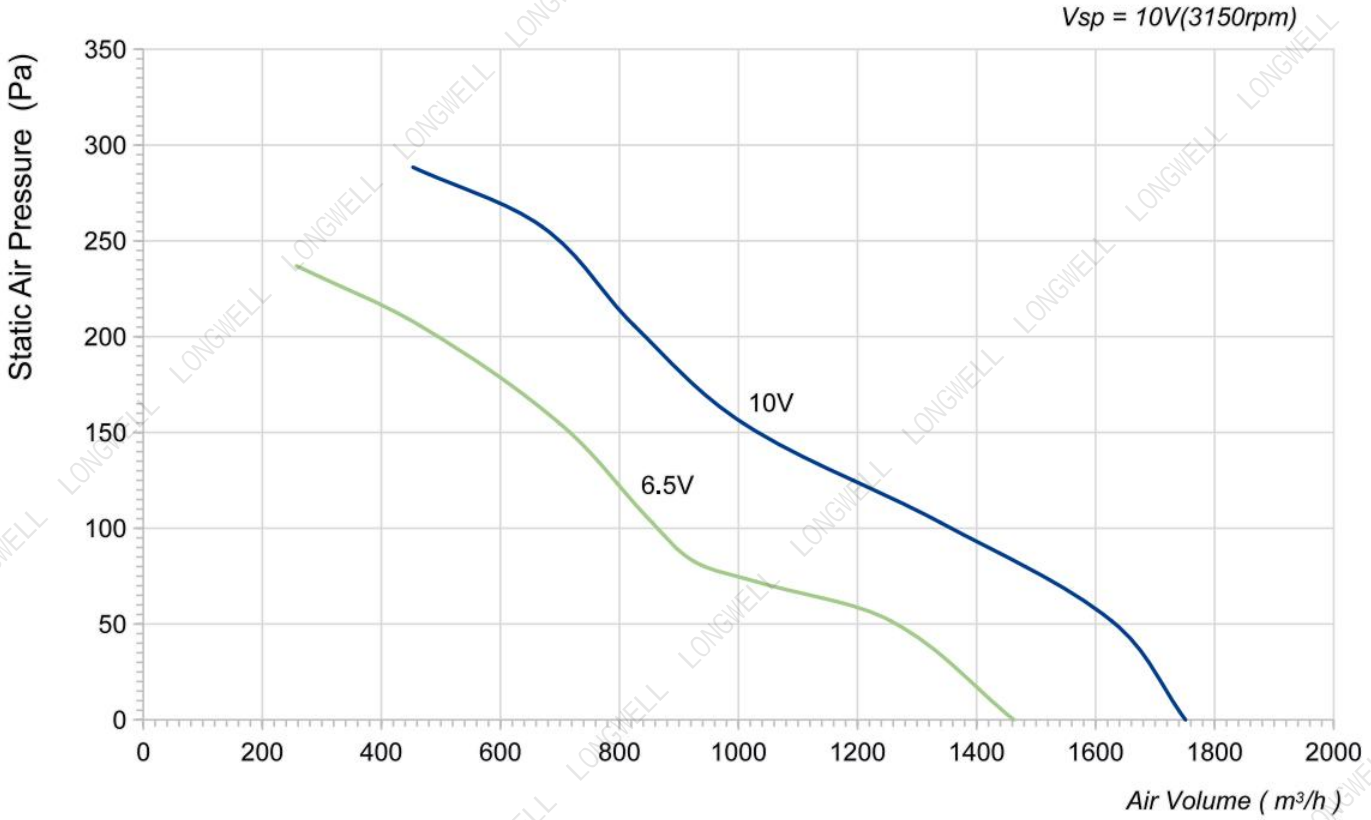
Charts :Air Flow



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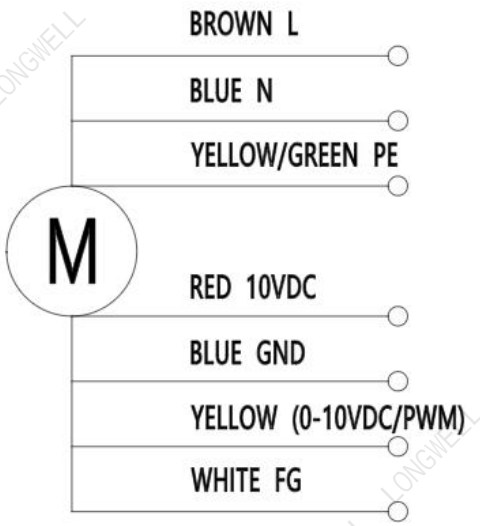
Wiring Diagram

L	Color	Function	Functional description
L1	Brown	L	Live line
	Blue	N	Naught line
	Yellow/Green	PE	Ground lead
L2	Red	+10VDC	Fixed voltage output 10VDC
	Blue	GND	Ground reference end of control signal
	Yellow	0-10VDC/PWM	Speed regulation signal input terminal, 0-10V voltage
	White	FG	Velocity feedback pulse output 1 Pulse/R



Label

警示语 ： Warning

1.电机、风机必须在规定的温度和湿度范围内使用，否则可能造成不可预测的损坏。

The fan and motor must be used within the prescribed scope of temperature and humidity otherwise it will cause an unexpected damage.

2. 请务必使用铭牌指示的正确电压接入产品，否则会造成风机损坏。

Provide the right voltage according to the nameplate otherwise it will damage the product.

3. 电机接线必须按接线图的指示，有接地线要求的产品请务必接上地线，不建议客户使用延长线，所有不按指示接线都可能造成电机烧坏。

Wiring depends on the wiring diagram and please connect the earth ground if required. We don't suggest to use the extension cord .Any wrong connection may cause the damage of the fan.

4. 在移动产品的时候，不得以风机扇叶为受力点搬运产品，否则会造成扇叶变形而使风机运转时震动过大。

Be careful when moving the fan and do not take the blades as a handle because it will cause the distortion and chatter.

5. 对于有接温控器要求的风机，请务必连接带温控器的引线，否则有可能造成电机内部温度过高而损坏。

Connect the thermostat if required otherwise it would damage the motor because of the over temperature.

6. 使用的安装螺丝不得超过要求长度，否则会造成风机损坏。

The length of the mounting screws shall not exceed the requirement, otherwise the fan will be damaged.

7. 请不要自主拆装风机，否则将影响扇叶平衡、防水等效果，严重的将引起安全问题。

Do not disassemble the fan arbitrarily. It may hurt the capacity of water tightness and dynamic balance or cause other

serious problems.

8. 风机的电气连接必须有合适的过流保护器以防止电流过大对产品造成损坏。

The over current protector is necessary in case the damage from the over current.

9. 请按风机的建议安装方向安装产品，任何不按产品的要求来安装将会影响风机的使用寿命。

Install the fan as required, any other installing direction would affect the service life of the product.

10. 配置导风圈的风机需按照推荐尺寸设计和安装，否则将影响产品性能。

The fan with inlet ring should be installed follow the requirements or it will affect the performance.

11. 对于未带电缆线之风机，客户所接电缆线的线径需在要求的范围内，否则将影响防水效果。

Users should use the standard cable when install the fan otherwise it will affect the water tightness.

12. 风机请安装在儿童不能接触到扇叶和带电的地方，也不允许儿童单独使用本产品。

The fan should keep away from the children especially the blade and electric parts .And the children are not allowed to operate the fan alone.

未按以上条例安装及使用风机，所造成的机器损坏或者事故，我公司均不承担任何责任. 敬请知悉！

Please be informed that we are not responsible for any damage or accidents caused by violating above rules to install and operate the fan.

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CUSTOMER APPROVAL

CUSTOMER SIGNATURE:

DATE :

Product Data Confirm :

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