

Ningbo Longwell Electric Technology CO.,LTD

Yuyao,Zhejiang Province,China 315400

Phone 86 574 6218 9863

Fax 86 574 6218 9863

sales@zjlongwell.com

www.longwellfans.com

Nominal Data

Model		LWAE3G710TS-5PKW-03
Nominal Voltage :	[VAC]	380
Voltage Range :	[VAC]	304-456
Frequency :	[Hz]	50/60
Speed :	[rpm]	1200
Current :	[A]	1.97
Power input :	[W]	1146
Air flow (Max) :	[m3/h]	19177
	[CFM]	11415
Static pressure (Max) :	[Pa]	244
Noise level :	dB(A)	81
Min.ambient Temp :	℃	-25
Max.ambient Temp :	℃	+ 60

Technical Features

Material :	PA66 (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 F (155℃)
Protection Type :	IP54
Speed Control :	Control input 0~10VDC/PWM/RS485
Production standard :	GB12350 《Safety requirements of small power motors》 JB/T10562 《technical specification for general purposes axial 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

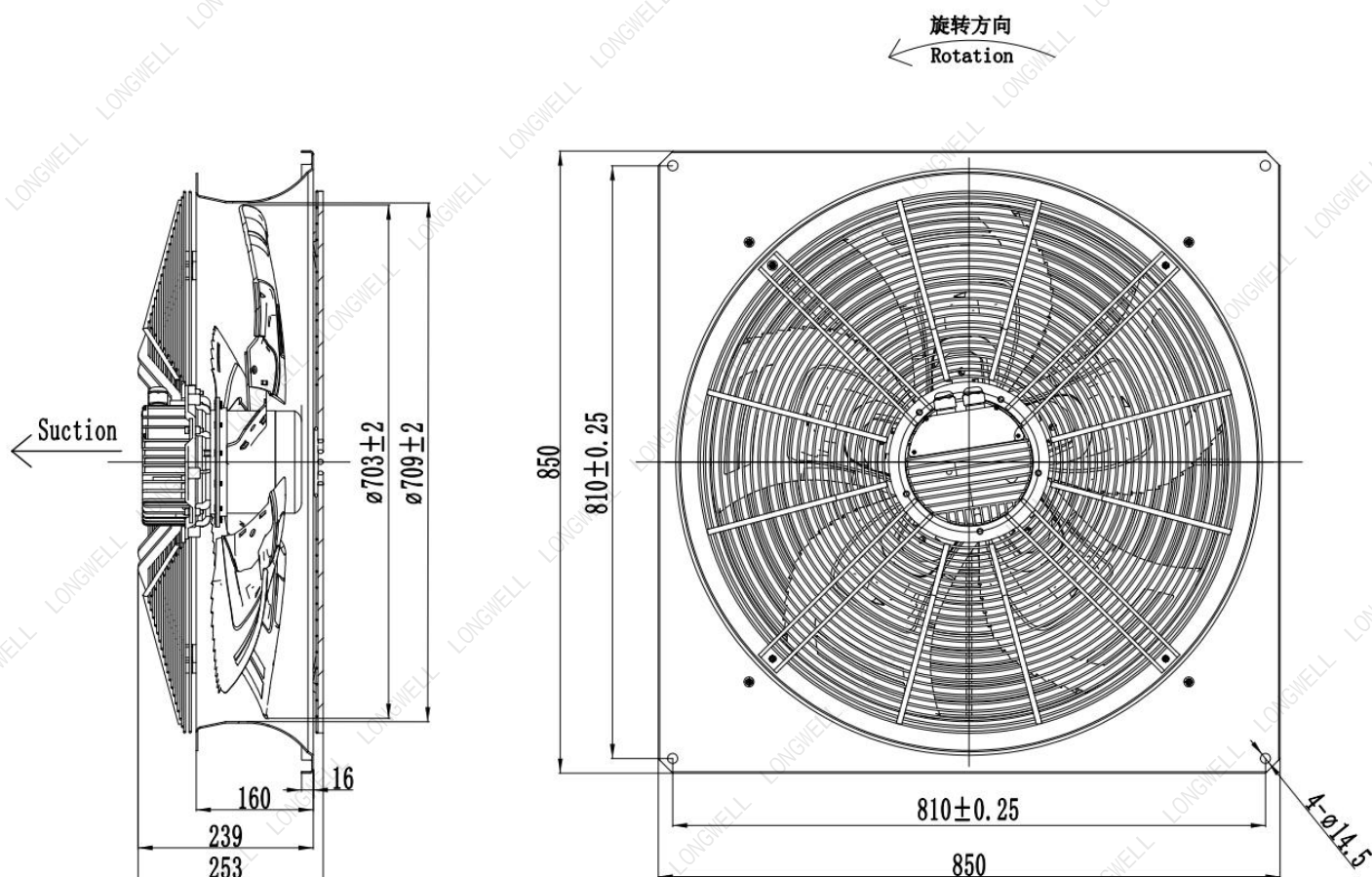
Electrical Protection

Control signal and speed relationship	Control signal VSP voltage range1.0±10VDC. PWM signal: frequency 1K~10KHz amplitude 10V duty cycle 0%~100%
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 <20 seconds to full speed
EMC	Electromagnetic radiation in accordance with GB9254 provisions
Serial Communication	/

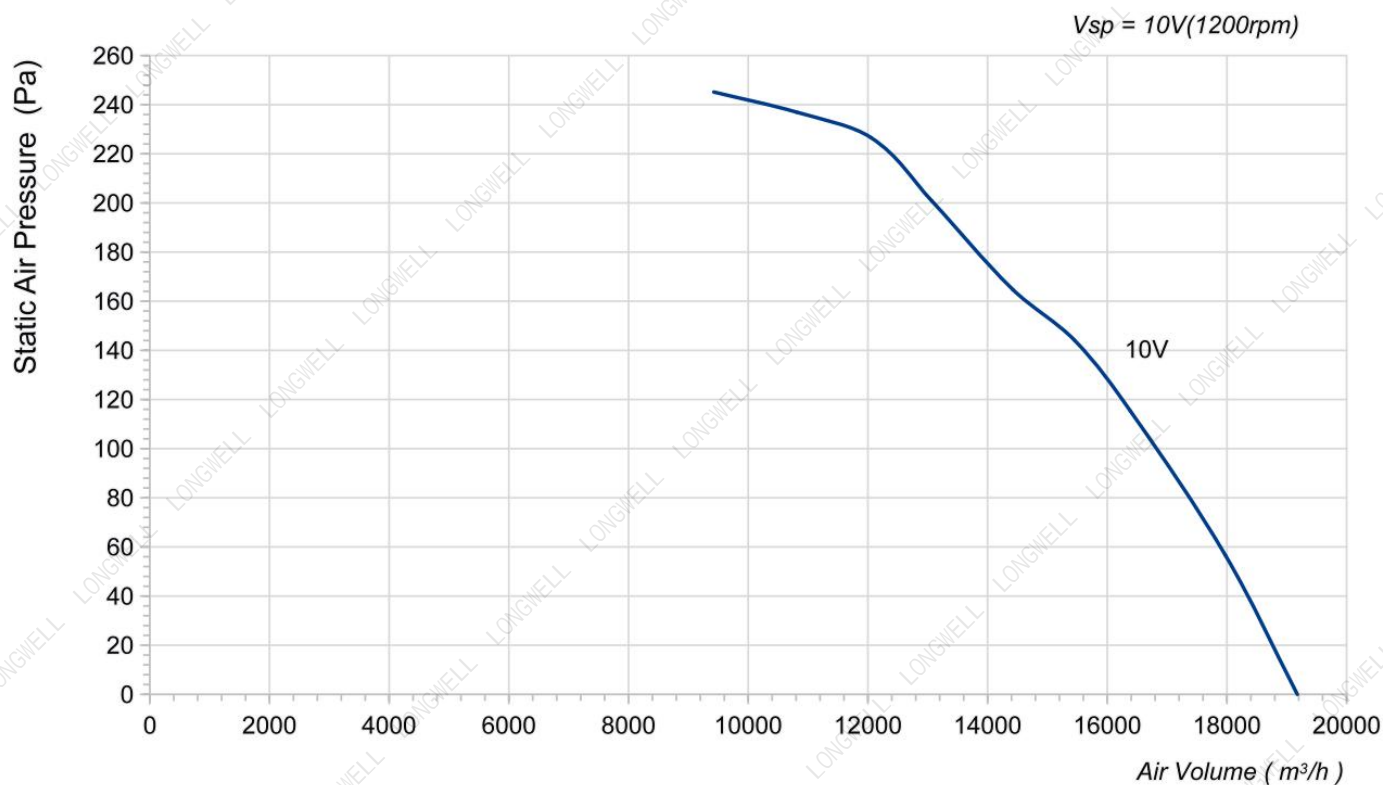
LWAE3G710TS-5PKW-03

380V~50/60Hz

Product Drawing



Charts :Air Flow



Wiring Diagram

NO.	Function	Functional description	NO.	Function	Functional description
PE	PE	Ground lead	RS485A	Bus connection RS485; RSA; MODBUS RTU	
P1	L3	AC power in, voltage input 3 380-480V; 50/60Hz	RS485B	Bus connection RS485; RSB; MODBUS RTU	
	L2	AC power in, voltage input 3 380-480V; 50/60Hz	GND	Ground reference end of control signal	
	L1	AC power in, voltage input 3 380-480V; 50/60Hz	Ain1 U	Speed regulation signal input terminal, 0~10V or PWM	
P2	NO	Status relay, normally open; close with error	4~20mA	Analogue control input 4~20mA	
	COM	Status relay, common connection	20V	Fixed voltage out 20VDC	
	NC	Status relay, normally turn-off; break with error	10V	Fixed voltage output 10VDC	
			FG	Speed Signal Feedback	
			Din1	Connection of Digital input 1 enabling of electronics enabling	
				opening pin or applied voltage 5-50V DC;	
				disabling: bridge to GND or applied voltage DC	

P3											P2			P1			PE	
RSA	RSB	RSA	RSB	GND	Ain1 U	4~20mA	20V	10V	Din1	GND	FG	NC	COM	NO	L3	L2	L1	PE

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.

LWAE3G710TS-5PKW-03

380V~50/60Hz

CUSTOMER APPROVAL

CUSTOMER SIGNATURE:

DATE :

Product Data Confirm :