

LWAE3G500TS-5MNW-01

Ningbo Longwell Electric Technology CO.,LTD

NO.100, Ditang District ,Yuyao,Zhejiang Province,China 315400

Phone 86 574 6218 9863

Fax 86 574 6218 9863

sales@zjlongwell.com

www.longwellfans.com



Model No.:	LWAE3G500TS-5MNW-01
Version Number:	A0
Make :	Zhong
Review :	Jiang
Approvd :	Yao
Date:	20240417



Version number	Notes Remarks	Reason content	Revised by	Date

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Nominal Data

Project1	Unit	Rating
Nominal Voltage :	[VAC]	380
Voltage Range :	[VAC]	304~456
Frequency :	[Hz]	50/60
Speed :	[rpm]	1690
Current :	[A]	1.5
Power input :	[W]	850
Air flow (Max) :	[m3/h]	10506
	[CFM]	6254
Static pressure (Max) :	[Pa]	330
Noise level :	dB(A)	78
Max.ambient Temp :	°C	60
Min.ambient Temp :	°C	-25
Insulation Class :		Class F
Protection Type :		IP54
Work system :		S1

Technical Features

Production Reference 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》
Certification	CE
Environmental protection	RoHS、 Reach

Technical Features

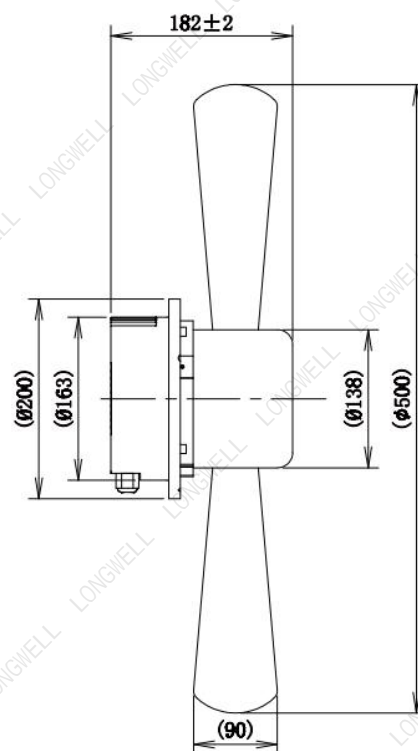
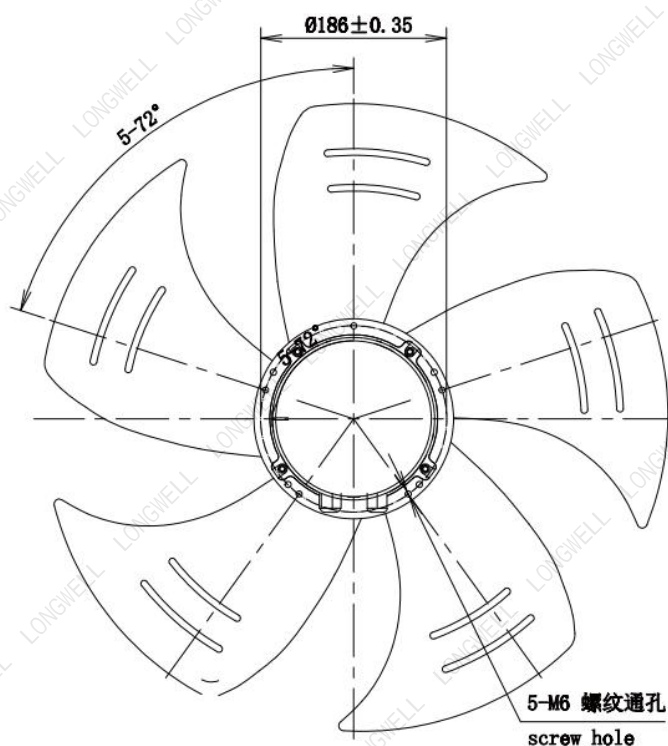
Service environment	Operating temperature: -25~60℃; Operating humidity: 30 ~ 95 % RH Storing temperature: -25 ~ 60℃; Storing humidity: 30 ~ 95 % RH Applicable altitude range: < 1000m
Life Expectance	40,000Hours(L10), At 40℃ room, humidity 15%~65%RH.
Balancing	According to JB/T 9101-1999 requirements G6.3
Vibration of the fan	Test method accord with JB/T 8689
Installation method	Horizontal or vertical installation
Material	Sheet steel (Impeller)
Bearing	Maintenance-free deep groove ball bearings
Weight	APPROX / (Kg)

Electrical Protection

Speed Control	Control input 0~10VDC or PWM
VSP Control	Control signal VSP voltage range 1 ± 0.1 VDC~ 9.5 ± 0.2 VDC (During normal operation, when the VSP voltage is below 1.0 ± 0.1 VDC, the motor switches from operating mode to standby mode)
PWM Control	PWM signal: frequency 1K ~ 10KHz, amplitude 10 ~ 12V, duty cycle 30% ~ 70% .
Signal Output	Tach output: 12 Pulse/R; FG internal open circuit output, external pull-up resistor R, pull-up voltage V.
Auxiliary power output	Output 10VDC, Max Current 10 mA
Protection	Over-temperature protection、Over-current protection、Locked-rotor protection'
Soft start	Delay time <30 seconds to full speed
Serial Communication	/
Dielectric resistance	AC2200V
Leakage current	3.5MAX (mA)

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Product Drawing



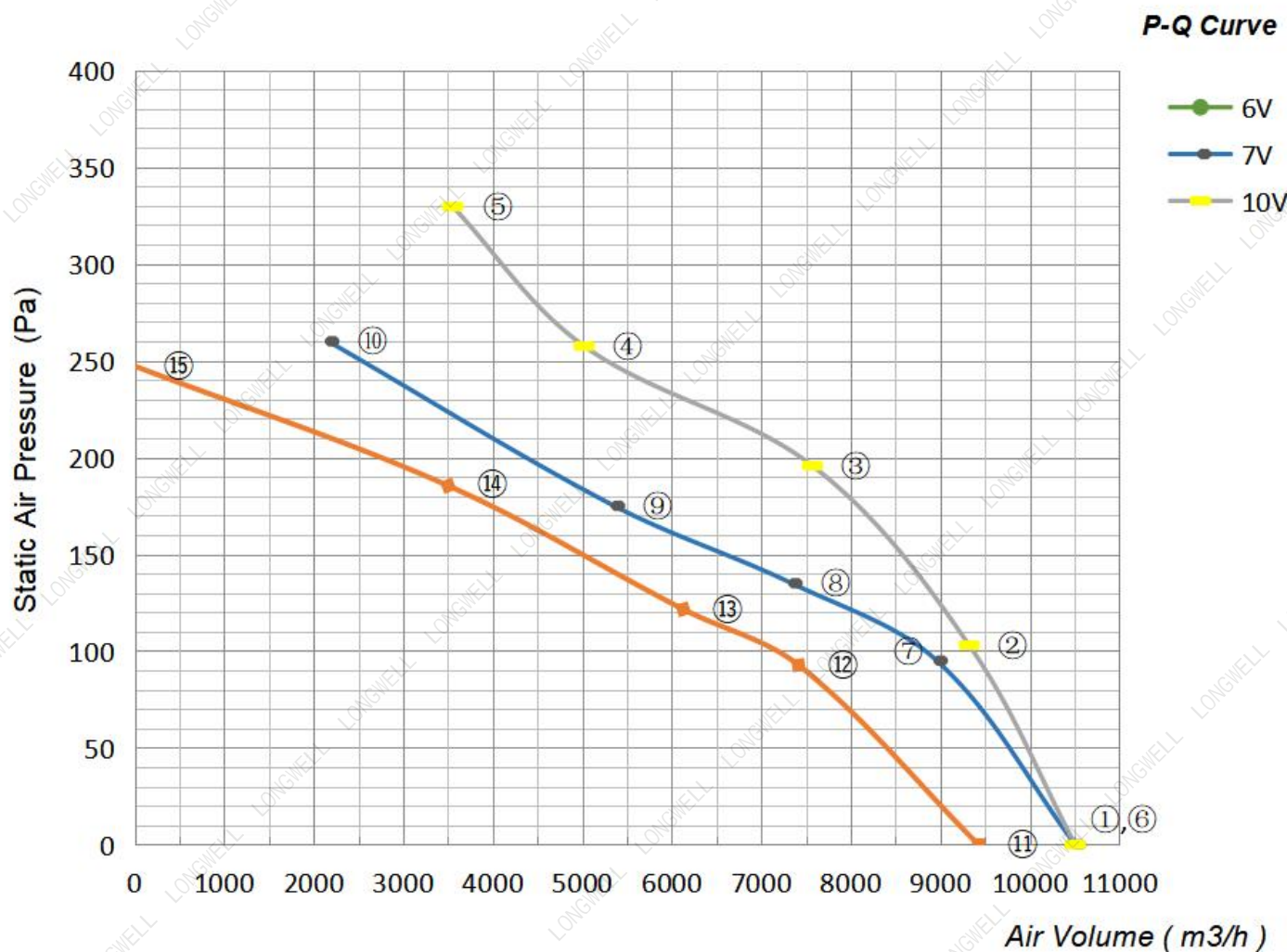
Wiring Diagram

L	Color	Function	Functional description
L1	Yellow/Green	PE	Ground lead
	Black	L1	Three-phase power supply terminal Voltage
	Black	L2	
	Black	L3	
L2	Yellow	Speed Control	Speed regulation signal input terminal,0-10VDC voltage or PWM
	White	FG	Velocity feedback pulse output 12 Pulse/R
	Red	+10VDC	Fixed voltage output 10VDC
	Blue	GND	Ground reference end of control signal

Label

Confirm by sales team when placing sample order or bulk order

Charts :Air Flow (P-Q)



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VSP	Voltage(V)	Speed(RPM)	Power input(W)	Airflow(m³ /h)	Static pressure(Pa)
10V	①	1747	886	10506	0
	②	1733	961	9322	103
	③	1720	1062	7571	196
	④	1709	1105	5021	258
	⑤	1667	1186	3554	330
7V	⑥	1744	872	10506	0
	⑦	1670	876	8961	95
	⑧	1554	763	7339	135
	⑨	1504	771	5356	175
	⑩	1379	738	2163	260
6V	⑪	1552	636	9425	0
	⑫	1435	574	7416	93
	⑬	1377	553	6129	122
	⑭	1352	601	3502	185
	⑮	1124	518	0	247

Warning:

1. The fan and motor must be used within the prescribed scope of temperature and humidity otherwise it will cause an unexpected damage.
2. Fan is not set wrong connection protection, Provide the right voltage and line sequence according to the nameplate otherwise it will damage the product.
3. 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. Be careful when moving the fan and do not take the blades as a handle because it will cause the distortion and chatter.
5. Connect the thermostat if required otherwise it would damage the motor because of the over temperature.
6. The length of the mounting screws shall not exceed the requirement, otherwise the fan will be damaged.
7. Do not disassemble the fan arbitrarily. It may hurt the capacity of water tightness and dynamic balance or cause other serious problems.
8. The over current protector is necessary in case the damage from the over current.
9. Install the fan as required, any other installing direction would affect the service life of the product.
10. The fan with inlet ring should be installed follow the requirements or it will affect the performance.
11. Users should use the standard cable when install the fan otherwise it will affect the water tightness.
12. 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.
13. Do not connect the white signal cable directly to the red signal cable or the external DC power supply. Otherwise, the fan may be damaged.
14. Please do not perform extraction and insertion of the connector under revolution irrespective of power on and power on and power off , and the fan should not touch or move when running.
15. Do not lift the fan wire when taking the fan, and do not impact the bearing during the handling process.
16. The version change may not be notified, please ask our company for the latest version when necessary.
17. 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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Approval

CUSTOMER APPROVAL

CUSTOMER SIGNATURE:

DATE :

Product Data Confirm :

Speed Control System :

☐

PWM

☐

0-10V

Note : Please check and mark the data when you sign the specification sheet .