



MaEr Fan Motor

CATALOGUE

浙江马尔风机有限公司
ZHEJIANG MAER FAN MOTOR CO.,LTD.

杭州马尔微电机有限公司
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浙江马尔风机有限公司,前身是杭州马尔微电机有限公司,公司坐落于浙江省海宁市长安镇,毗邻高铁海宁西站,沪杭高速长安出口,成立于1995年,有近20年生产外转子电机,风机的经验.公司生产的YWF系列外转子电机,有三相电机(S型),单相电容运转电机(D型),罩极电机,节能型EC风机,电机.电机额定转速从500r/min到3000r/min,输出功率范围5w到1800w,广泛用于离心风机和轴流风机上,公司生产的YWF系列外转子轴流风机的规格从Φ175到Φ900之间的各种规格,产品具有结构紧凑,效率高,噪音低,外形美观,安装方便,产品运行稳定等优点,广泛应用于机械设备,制冷设备及家用电器制造行业中。



公司以绿色,环保,低碳为理念,投产了新一代节能电机,风机,EC系列.该系列应用无刷直流电机驱动,使风机具有更高的工作效率,良好的调速性能,安全可靠的速度控制方法,为用户提供更大的选择余地。

公司生产的电机,风机系列产品获省,市检查优质称号,通过了CCC,CE认证,并取得了全国工业产品生产许可证。

公司通过了ISO9001:2008质量管理体系认证,有完善的质量保证体系和严格的质量保障措施。

公司凭借着以技术为先导,质量为根本的宗旨,愿以优秀的产品,良好的服务,与新老客户一起共创辉煌。

ZHEJIANG MAER FAN MOTOR CO.,LTD. Formerly name is HANGZHOU MAER MICRO MOTOR CO.,LTD. locate in Chang'an town,Haining city, Zhejiang Province, beside the HAINING WEST HIGH-SPEED RAIL STATION. Close to the Chang'an exit SHANGHAI HANGZHOU EXPRESS WAY. Corporation was founded in 1995. With around 20 years experience produce motor and fan motor. The YWF series products line of the external rotor motor used in the fans are widely applied in the centrifugal fans and the axial fans, which include three-phase motor (S), single-phase capacitance running motor (D), square shaded pole (Z) external rotor motor. The rating range of the rotation rate is 500r/min-3000r/min, and the input power is from 5W to 1800W. The YWF line of axial fan with external rotor motors has diversified specifications between Φ175mm and Φ900mm. With the merits of compact structure, high efficiency, low noise, good looking appearance and reliable operation etc., all the products are widely used in the refrigeration apparatus and household appliances.

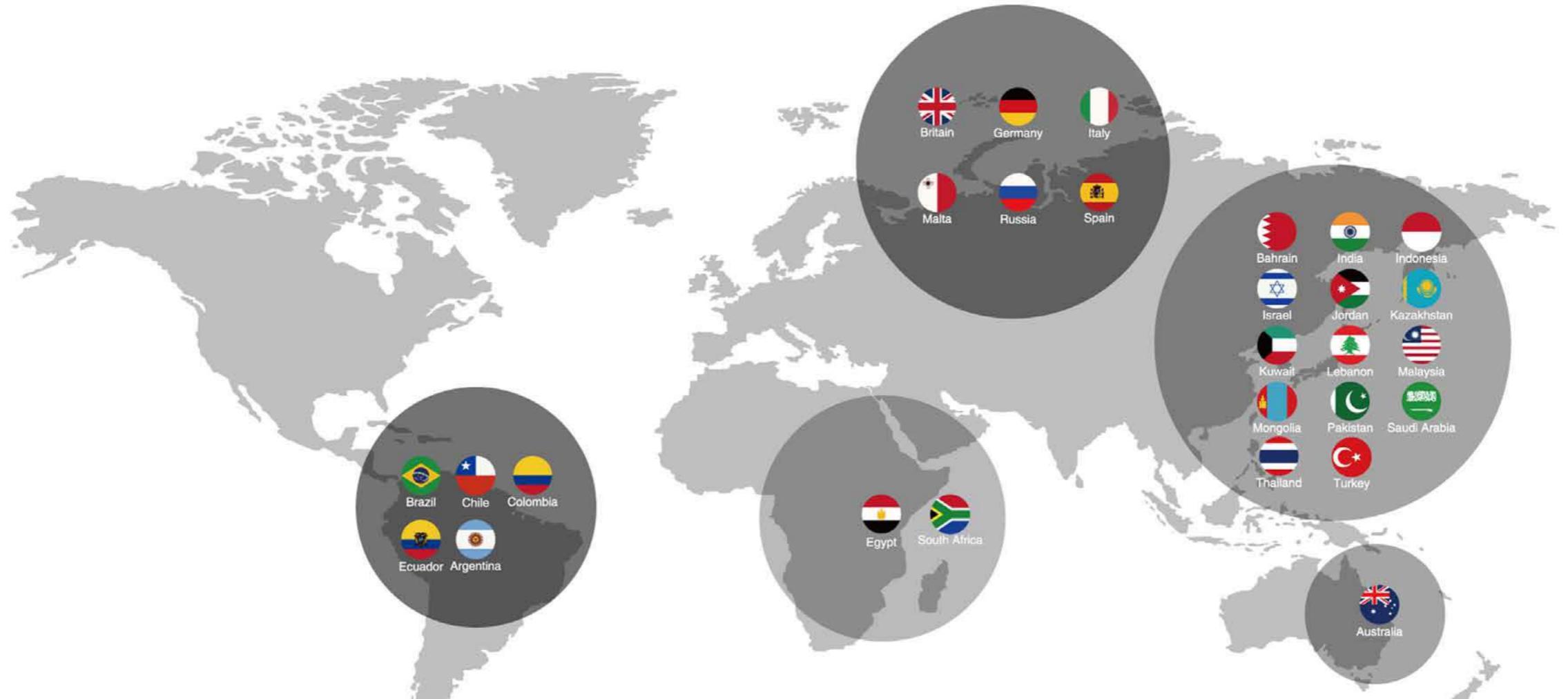
With the tenet of green, environmental protection and low carbon, a new product line- EC series now under produce. Driving with the brushless direct current electromotor, these new energy-saving and motor have the merits of high efficiency, flexible speed change control etc., which can give you wider choices.

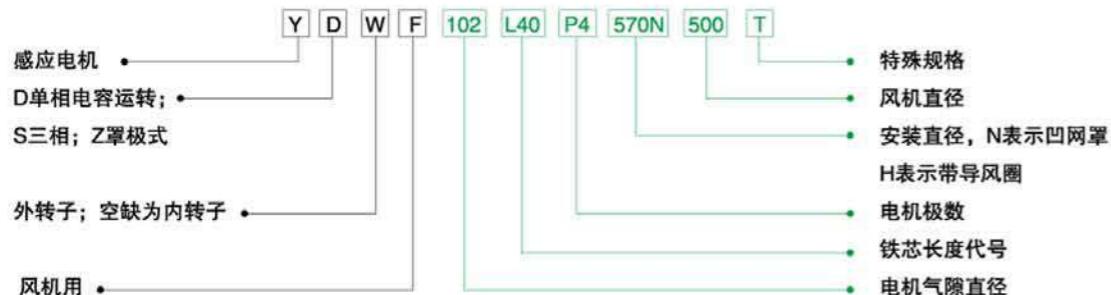
The motors and fans supplied by us were awarded the honor of high quality in an inspection within the province and city. Moreover the products passed the CE and CCC certifications in 2003. The company also obtain the national industrial production license.

The company is also certified by the quality management system of ISO 9001:2008, which has perfect quality assurance system and strict quality assuring measures.

With the tenet of leading by technology and based on quality, the company are always ready to provide excellent products and good service to build glory with all the clients.





**I、型号**

注：74系列的铁芯长度代号分别用L、M、S表示长、中、短，其后直接跟电机极数。

II、电压

常规产品：三相为AC380V/50Hz，单相电容运转电机和罩极电机为AC220V/50Hz，特殊电压和频率，以及非通用产品，订货时应特别说明。

III、风向

常规产品为吸风式：空气从电机向网罩流动。需反向时客户应说明吹风式。

IV、性能参数

对于相同风叶直径相同极数的50Hz风机，不管是单相还是三相，电机轴功率相同，如说明书参数表所附，为风机进出口均为零静压时测得。风机噪声为风机出口(45°)1米处的实测值。

V、风量曲线

按照GB/T 1236 (idt ISO 5801) 采用C型风管进气试验装置，锥形进口喷管，风机带网罩测得。所标压力为进口静压。

VI、电机温升为风机在零静压时测得，出厂时，一般风机温升控制在50K以下，冷风机温升控制在70K以下。电机绝缘级为B级时，适应环境温度为-40℃～+60℃，电机绝缘级为F级时，适应环境温度为-40℃～+75℃。超出上述温度范围，订货时应说明。

七、单相电机内均安装有热保护器，其动作温度为130±5℃(B级)或150±5℃(F级)。三相电机若需安装热保护器，订货时应说明。

八、当客户只需外转子电机（不带风叶和网罩，型号不带安装直径和风叶直径）用于离心风机时，应提供电机工作点的转速、功率和安装等数据，最好能提供风轮和蜗壳样品。

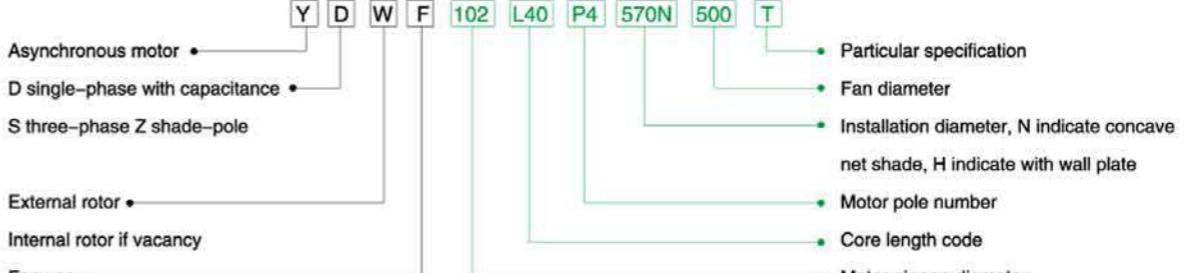
九、当客户需对外转子电机进行抽头调速时，为保证低速档的滑差性能要求，高速档的转速和风量相对于常规产品会有所调低。

十、常规产品引出线长度为0.8~1米，特殊长度及装接线盒需特殊说明。

十一、冷风机电机需经特殊工艺处理，以适应低温潮湿环境工作，订货时需说明。

十二、客户若需加大功率或特殊规格产品(如Φ315、Φ330、Φ380、Φ420等)需定制。

十三、说明书所标注重量为净重。

I、Model

Notice: 74 series core length code with L、M、S means long、medium、short, after it with the poles of the motor.

II、Voltage

Conventional products: three-phase motor is AC380V/50Hz, single-phase motor and shade-pole motor are AC220V/50Hz, special voltage or frequency, and universal product, need special state when orders.

III、Wind direction

Conventional products are suction type: air flow from motor to net shade. If reversed should be stated blowing type.

IV、Capability parameter

The 50Hz axial fan with same diameters and pole number,no matter single phase or three phase,motor shaft power is same, the parameter which showed as the instruction,which is tested when the inlet and outlet are static pressure. The noise of the fans is measured one meter away from the outlet (45°).

V、Air flow curve

The flux(Q) is measured ,using type C inlet tester according to GB/T 1236 (idt ISO 5801) and tapered import nozzle,while the blower is fixed on the tester with net shade.

VI、Motor temperature rising tested under inlet pressure is static,when finished, normal fans temperature rising controlled under 50K, air cooler fan controlled under 70K. When the motor insulation Class is B, the suitable working temperature is -40℃～+60℃, When the insulation Class is F, the environment range is -40℃～75℃. If beyond the above temperature range, should state when orders.

VII、All of the single phase motor with thermal protector inside, the operating temperature is 130±5℃(Cl.B) or 150±5℃(Cl.F).Three phase motor if need install the thermal protector, should state when orders.

VIII、When you need external rotor motor only (without fans and net shade, so no fixing diameter and fan diameter), for the centrifugal blower, you should offer the data of the working : speed, power, fix-size, may as well offer the sample of the fan.

IX、When you need tap speed change for the external rotor motor, the high speed and its flux will be reduced in order to ensure the slip capability of the low speed.

X、For the general products, the length of lead is 0.8~1 m, if need special length or junction box should be special noted.

XI、When booking need to indicate if the fan will be used in the air cooler machine, which need special treatment in order to adapt for low temperature and moisture environment.

XII、If customer need special enlarge power or special specification products(like Φ315、Φ330、Φ380、Φ420 and so on) need custom-made.

XIII、The weight marked in the instruction is net weight.



电机型号 Motor specification: _____ 风机直径 Fan diameter: _____ 数量 Quantity: _____ 台

一、电压和频率 Voltage and frequency:

1 三相电机 Three-phase motor:

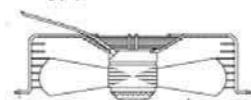
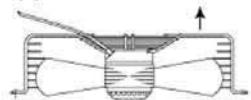
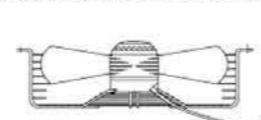
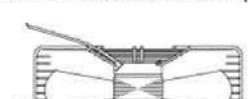
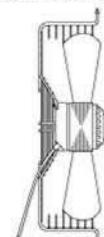
 AC380V/50Hz, AC380V/60Hz, 其它 others: AC ____ V/____ Hz.

2 单相电容运转电机 Single-phase motor:

 AC220V/50Hz, AC220V/60Hz, 其它 others: AC ____ V/____ Hz.**二、风向 Wind direction:** 吸风式: 空气从电机向网罩流动 吹风式: 空气从网罩向电机流动

Suction(S): air flow from motor to net shade

Blowing(B): air flow from net shade to motor

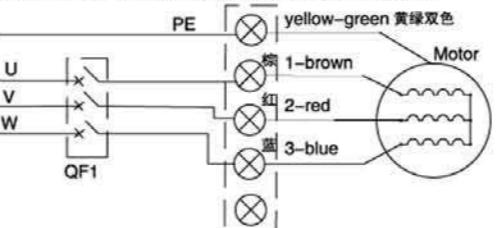
**三、用途 Used for:** 冷凝器 Condenser 冷干机 Cooling and dry machine 冷风机 Air-cooler 离心风机 Centrifugal fan 其它 Others**四、安装环境及方式 Environment and installation methods:** 室内 Indoor 室外垂直安装 Outdoor and vertical 端盖向上安装 Outdoor and upward 端盖向下安装 Outdoor and downward**五、网罩 Net shade:** 凹网罩N Concave grid N 平网罩P Flat Screen grid P 平板网罩B Flat net grid B 凹板网罩NB Concave flat grid NB 其它 Others**六、调速 Speed change:** 不调速, 参数按说明书 No speed change Y/△调速 Y/△ speed change 抽头调速 Tap speed change 带电子调速 With electronic speed controller 其它 Others**七、引出线 Lead cable:** 带接线盒 With junction box 引出线长0.8米~1米 Length of lead 0.8 m to 1 m 引出线长 Length of lead ____ m 边出线 Border outgoing line**八、离心风机用外转子电机 External rotor motor for centrifugal fan:** 转向(从出线端看) Rotation direction(look from the lead): 顺时针 Clock Wise (CW) 逆时针 Counter Clock Wise (CCW)**2法兰 Flange:** 有,常规尺寸 Yes,Conventional size 有,客户尺寸 Yes,Customer size 无,外径尺寸 No,the diameter of the rotor ____ mm, 公差 Tolerance ____.**九、其它(包括相同要求的其它规格) Others (include other specifications):**

需方 Demander: _____ 联系人 Contactor: _____

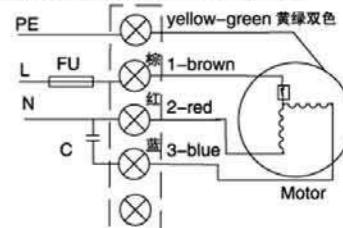
电话 Tel: _____ 传真 Fax: _____ 日期 Date: _____

接线图 / WIRING DIAGRAM**1. 普通三相风机接线图**

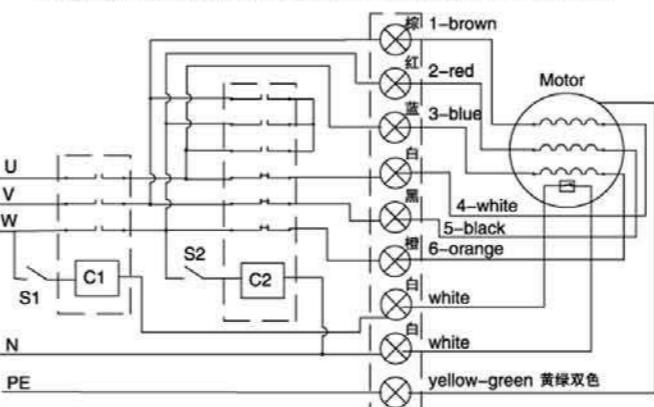
Wiring diagram for common three phase motor with thermal protector

**5. 普通单相风机接线图**

Wiring diagram for common single phase motor

**2. 三相Y/△运行、带热保护器风机接线图**

Wiring diagram for fans with thermal protector under three phase Y/△ connection



C1-运行控制接触器,S1接通,风机运行。

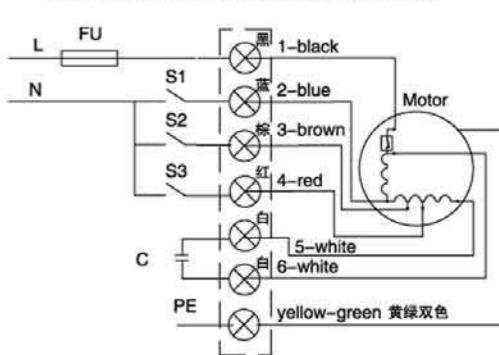
C2-Y/△运行控制接触器,S2断开,△接法;S2接通,Y接法。

C1-Run control touch machine,connect S1,run fan.

C2-Y/△ Control touch machine,S2 cut,△ connection;S2 connect,Y connection.

6. 单相抽头调速风机接线图

Wiring diagram for single phase tap speed change motor



警告:

S1、S2、S3必须互锁,每时只限于一只合上。

S1、S2、S3分别为高、中、低速档开关。电动机起动应由S1完成。

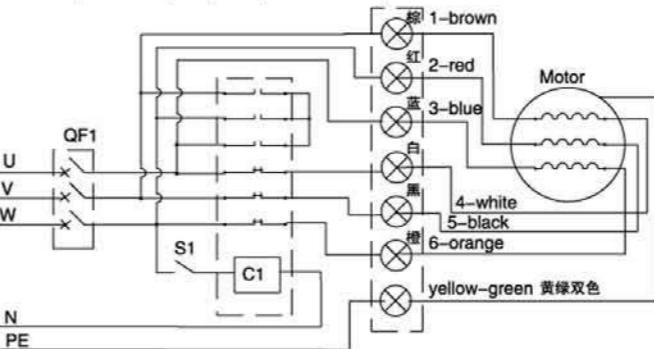
NOTICE:

S1、S2、S3 Must be locke each other,every time only one allowed shut.

S1、S2、S3 Is high, middle, and low speed switch motor start up should be done by S1.

3. 三相Y/△运行、不带热保护器风机接线图

Three phase motor,Y/△ operate,without thermal protector



QF1-运行控制空气开关,QF1接通,风机运行。

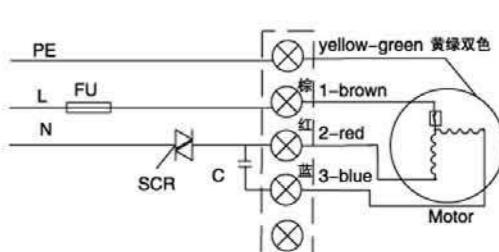
C1-Y/△运行控制接触器,S1断开,△接法;S1接通,Y接法。

QF1-Run control air switch,connect QF1,fan start.

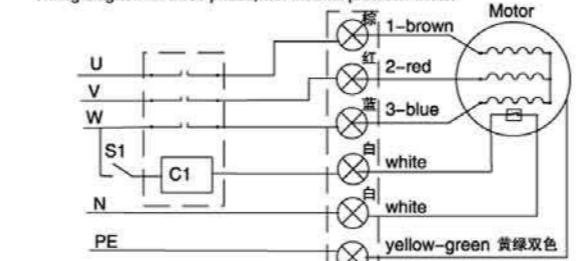
C1-Y/△ Run control touch machine,cut S1,△ connection,connect S1;Y connection.

7. 单相风机SCR调速接线图I

Wiring diagram drawing I for tap speed change single phase fan with SCR

**4. 三相风机带热保护器接线图**

Wiring diagram for three phase,with thermal protector motor

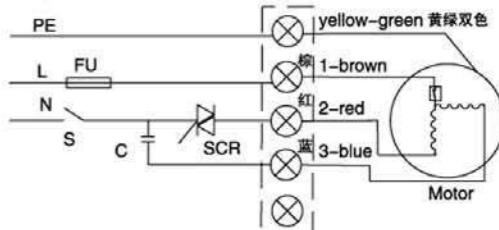


C1-运行控制接触器,S1接通,风机运行。

C1-Run control touch machine,S1 connect,fan start.

8. 单相风机SCR调速接线图II

Wiring diagram drawing II for tap speed change single phase fan with SCR



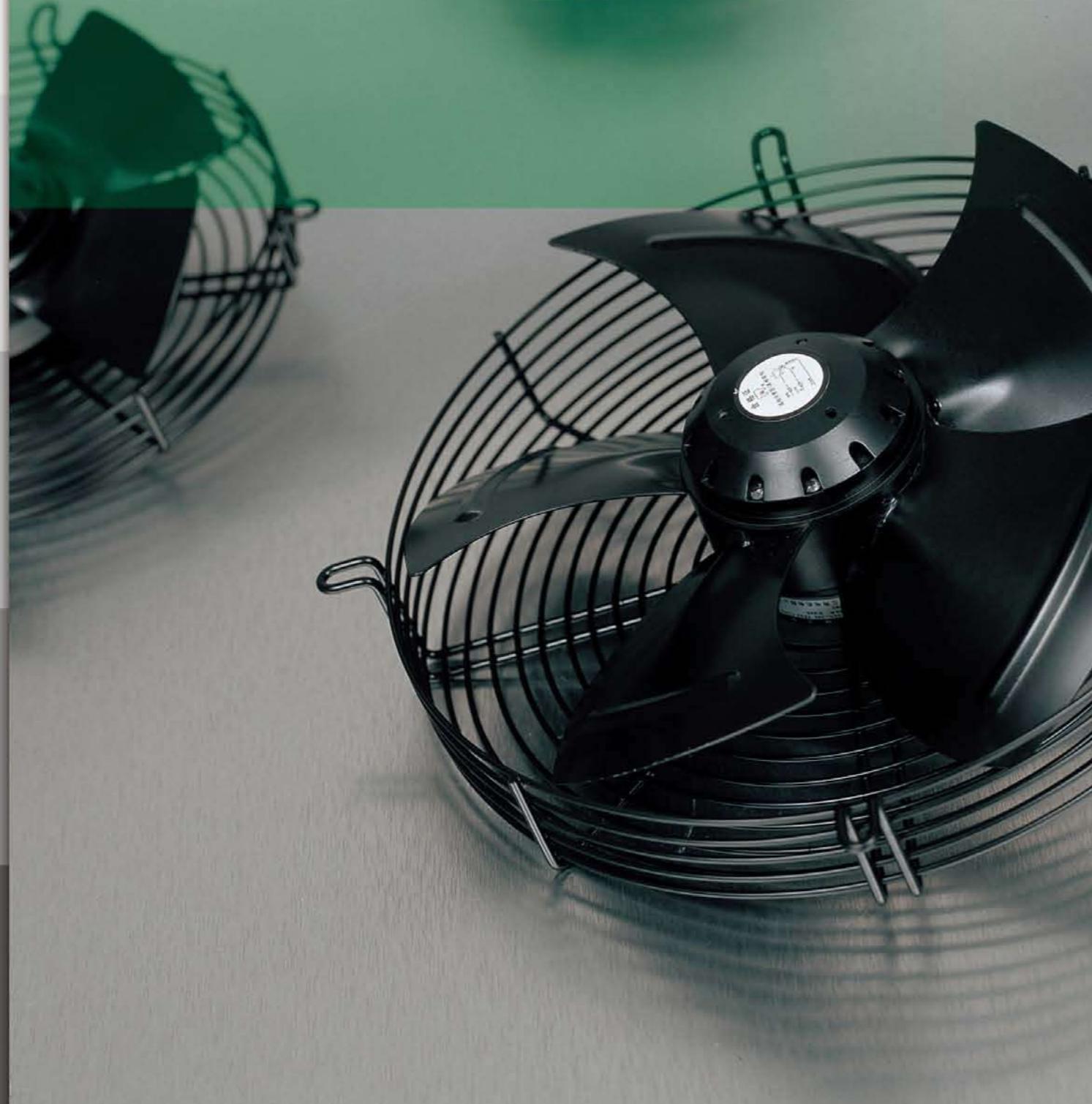


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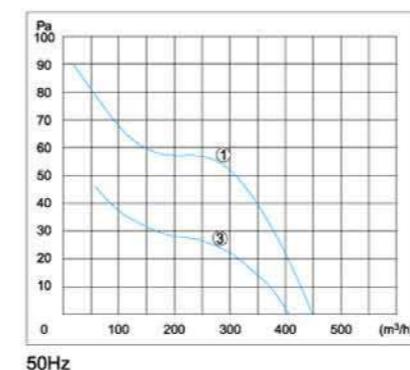
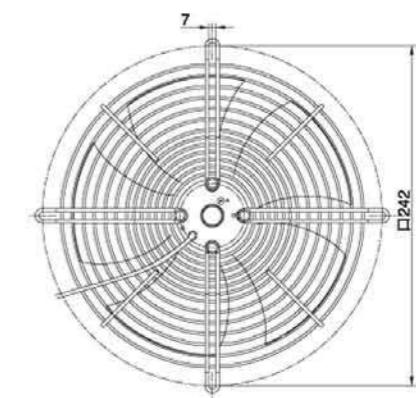
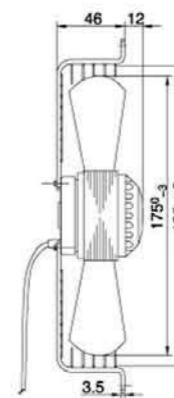
Professional - Honest - Human Oriented

外转子风机系列 AXIAL FAN MOTOR

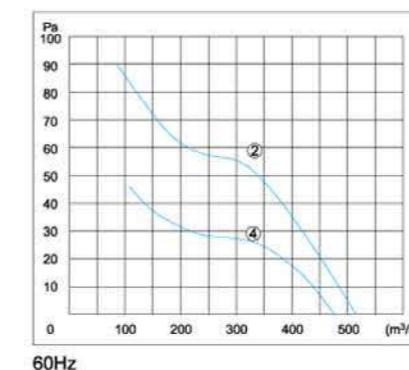


外转子风机系列 AXIAL FAN MOTOR

Φ175



50Hz



60Hz

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE µF/450V	NOISE dB(A)	NET Kg
YDWF52L20P2-242N-175	220	50	①	450	2600	27	0.15	1.5	61	1.3
		60	②	520	2810	32	0.16		62	
YZWF52L20P2-242N-175	220	50	③	410	2410	50	0.3	/	60	1.3
		60	④	480	2550	56	0.3		63	



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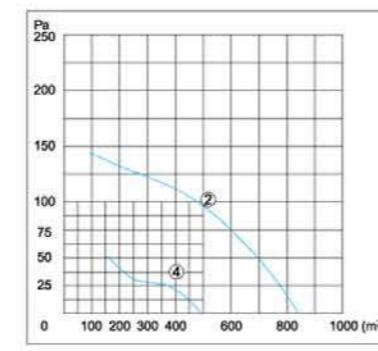
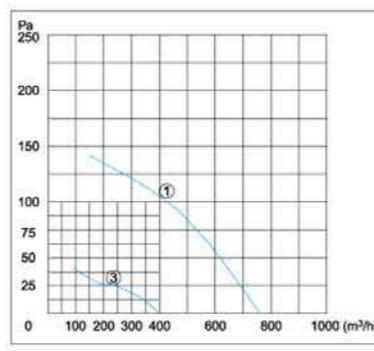
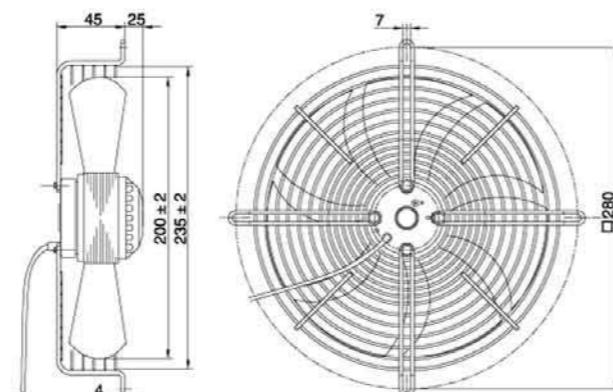
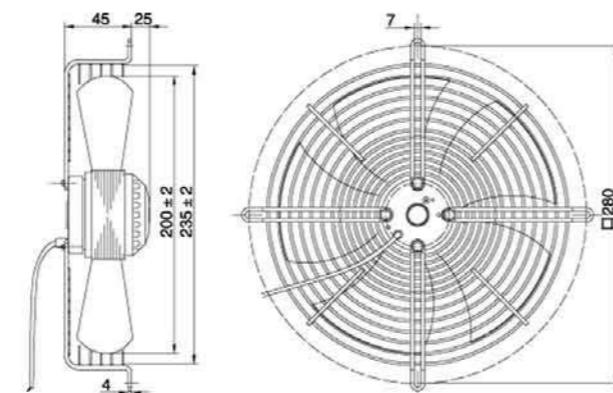
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maerwdj@yahoo.com.cn

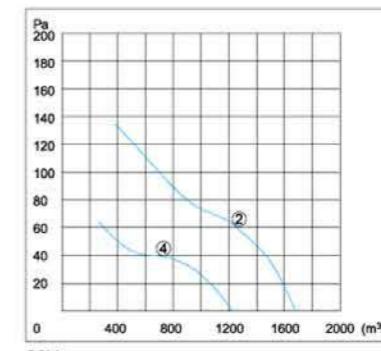
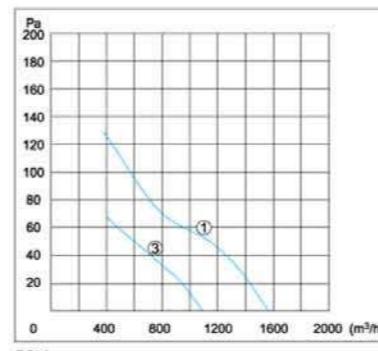
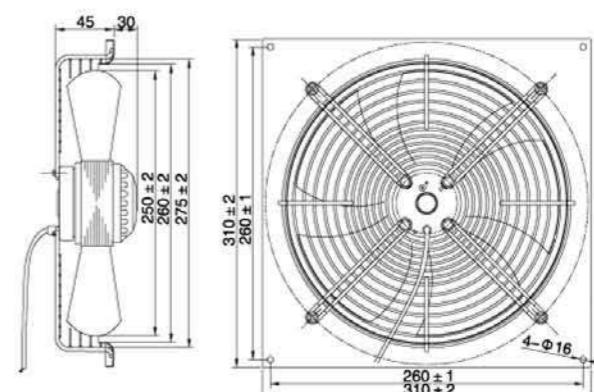
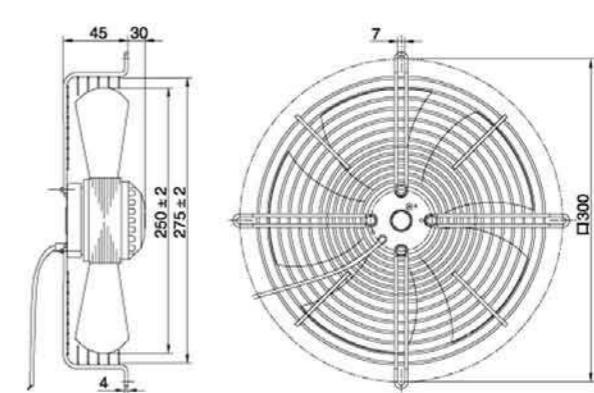
外转子风机系列 AXIAL FAN MOTOR

Φ200



外转子风机系列 AXIAL FAN MOTOR

Φ250



型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF68L15P2-280N-200	220	50	①	760	2500	67	0.24	1.5	66	2.3
		60	②	840	2730	78	0.37		68	
YSWF68L15P2-280N-200	380	50	①	760	2500	65	0.15	1	66	2.3
		60	②	840	2730	76	0.13		68	
YDWF68L15P4-280N-200	220	50	③	400	1410	30	0.15	1.5	53	2.3
		60	④	480	1700	35	0.17		54	
YSWF68L15P4-280N-200	380	50	③	400	1450	30	0.15	1	53	2.3
		60	④	480	1700	35	0.13		54	

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF68L25P2-300N-250	220	50	①	1580	2650	95	0.41	4	68	2.8
		60	②	1650	2880	115	0.57		70	
YSWF68L25P2-300N-250	380	50	①	1580	2650	95	0.2	1	68	2.8
		60	②	1680	2990	115	0.2		70	
YDWF68L25P4-300N-250	220	50	③	1100	1400	50	0.24	2	54	2.8
		60	④	1220	1600	57	0.24		55	
YSWF68L25P4-300N-250	380	50	③	1100	1400	50	0.18	1	54	2.8
		60	④	1220	1600	57	0.16		55	

注：上述数据为7叶时的参数。
Note: Above parameter is based on 7 impellers type.



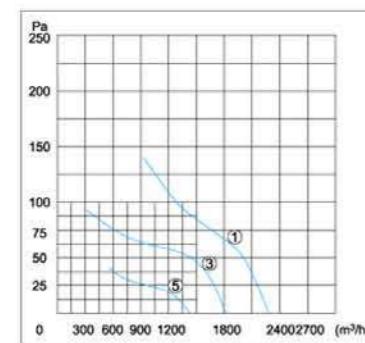
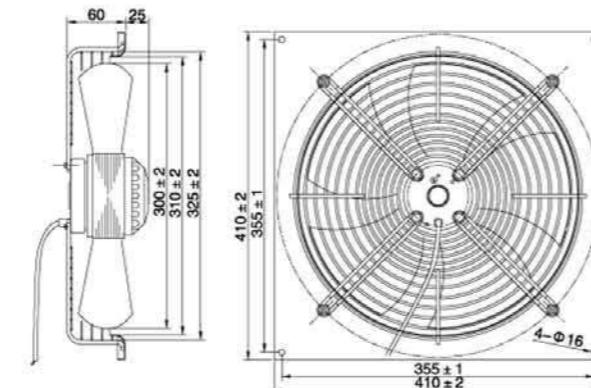
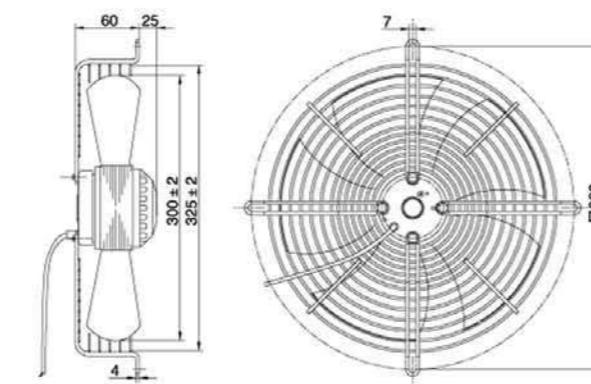
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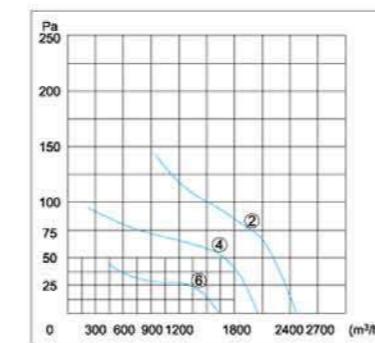


外转子风机系列 AXIAL FAN MOTOR

Φ300



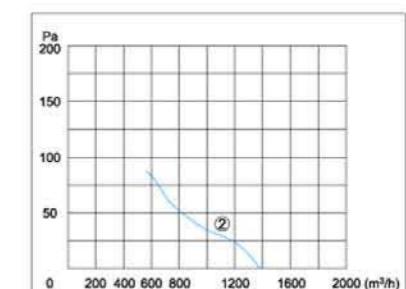
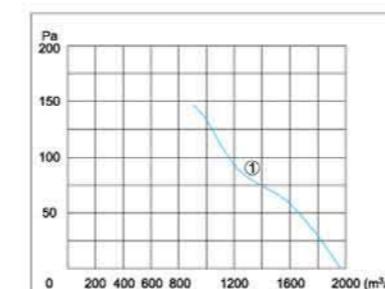
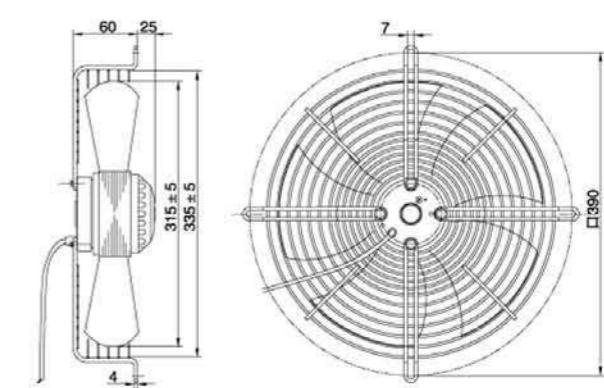
50Hz



60Hz

外转子风机系列 AXIAL FAN MOTOR

Φ315



型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF68L35P2-360N-300	220	50	①	2220	2700	160	0.75	6	70	3
		60	②	2450	2950	220	1.05		73	
YSWF68L35P2-360N-300	380	50	①	2220	2700	160	0.3	/	70	3
		60	②	2450	2950	210	0.33		73	
YDWF68M4-360N-300	220	50	③	1810	1380	90	0.43	3	59	3
		60	④	2050	1623	96	0.44		62	
YSWF68M4-360N-300	380	50	③	1810	1380	90	0.29	/	59	3
		60	④	2050	1630	96	0.39		62	
YDWF68M6-360N-300	220	50	⑤	1420	920	55	0.23	2	55	3
		60	⑥	1640	1070	63	0.28		56	

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF68M4-390N-315	220	50	①	1920	1380	90	0.43	3	60	3
YSWF68M4-390N-315	380	50	①	1920	1380	90	0.3	/	60	3
YDWF68M6-390N-315	220	50	②	1380	920	60	0.29	2	56	3



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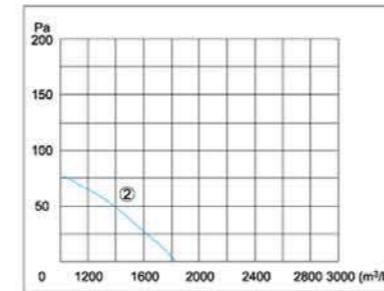
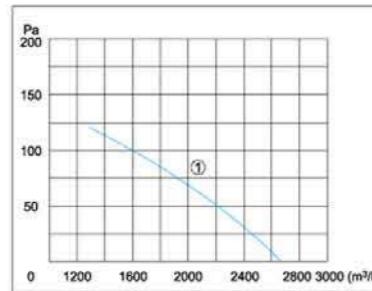
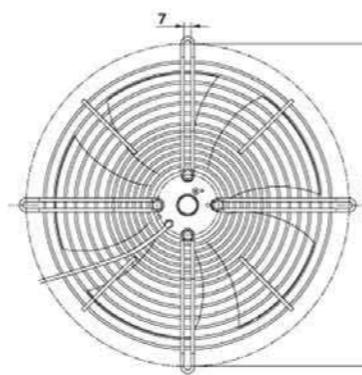
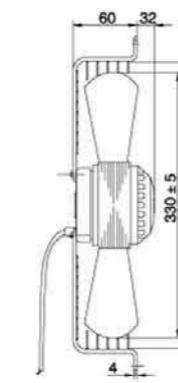
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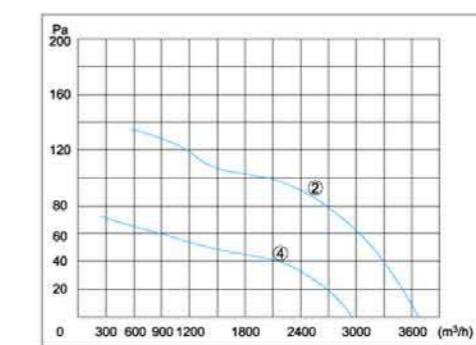
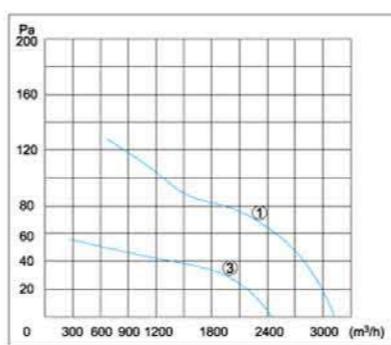
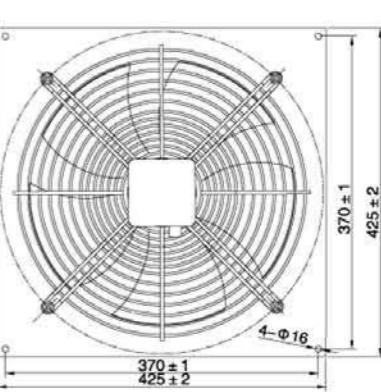
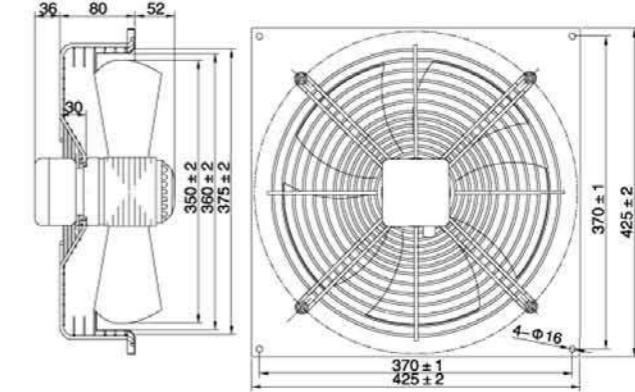
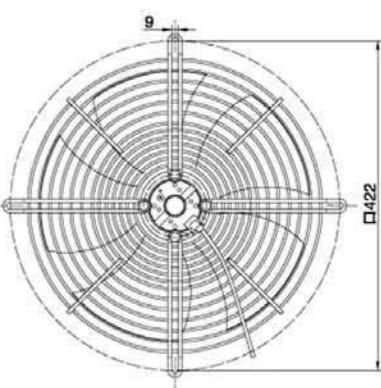
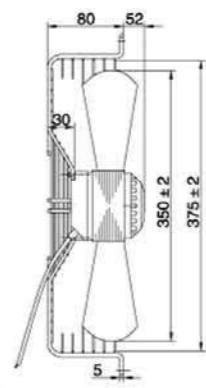
外转子风机系列 AXIAL FAN MOTOR

Φ330



外转子风机系列 AXIAL FAN MOTOR

Φ350



型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF68M4-400N-330	220	50	①	2650	1370	110	0.52	4	62	4
YSWF68M4-400N-330	380	50	①	2650	1370	110	0.32	/	62	4
YDWF68M6-400N-330	220	50	②	1820	910	68	0.34	3	56	4

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF74S4-422N-350	220	50	①	3150	1380	150	0.7	4	64	5
		60	②	3650	1600	190	0.88		68	
YSWF74S4-422N-350	380	50	①	3150	1380	150	0.37	/	64	5
		60	②	3650	1600	190	0.34		68	
YDWF74S6-422N-350	220	50	③	2410	915	94	0.45	4	57	5
		60	④	2930	1050	110	0.47		59	
YSWF74S6-422N-350	380	50	③	2410	915	94	0.29	/	57	5
		60	④	2930	1050	110	0.26		59	



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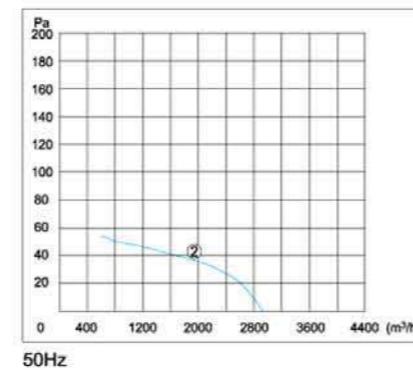
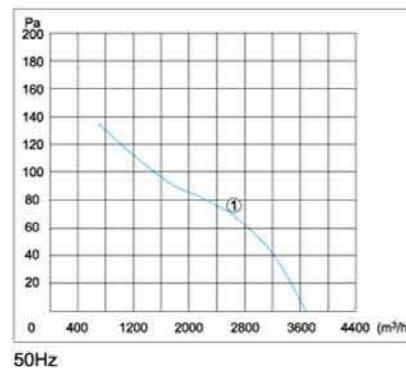
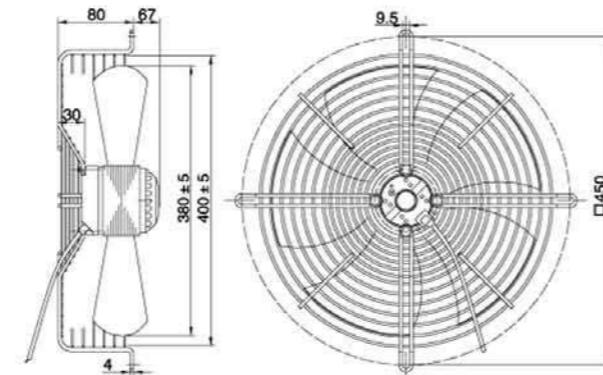
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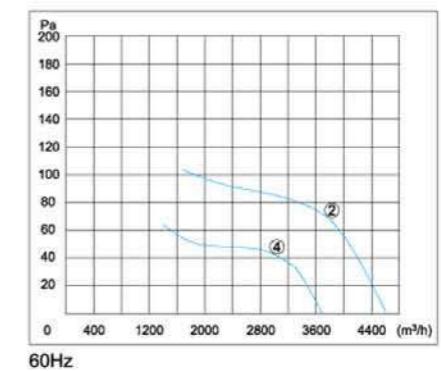
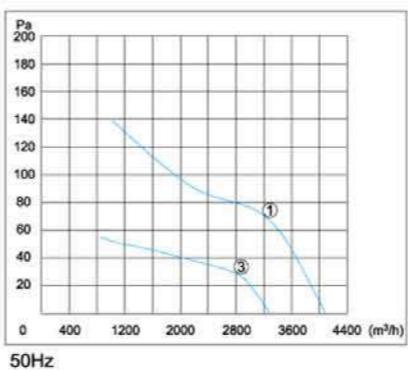
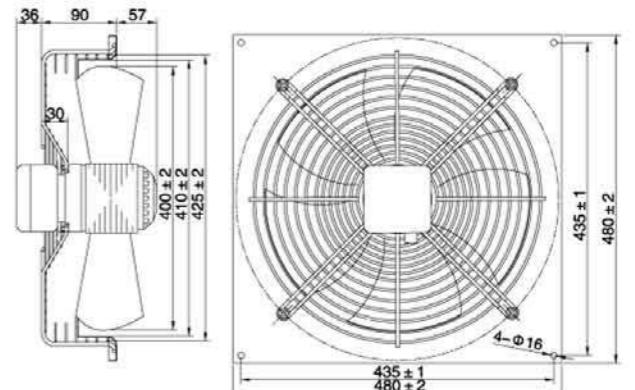
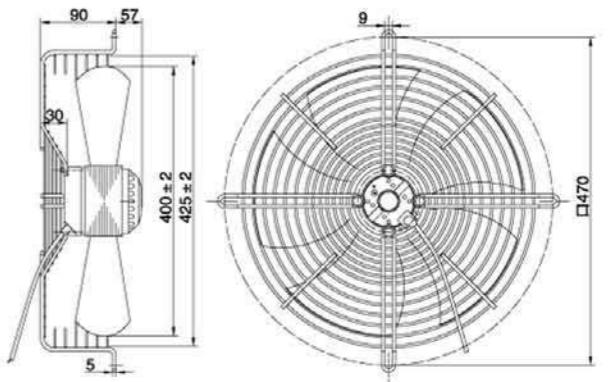
外转子风机系列 AXIAL FAN MOTOR

Φ380



外转子风机系列 AXIAL FAN MOTOR

Φ400



型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF74M4-450N-380	220	50	①	3630	1410	185	0.85	6	65	5.6
YSWF74M4-450N-380	380	50	①	3630	1410	185	0.46	/	65	5.6
YDWF74M6-450N-380	220	50	②	2860	925	110	0.55	5	56	5.6
YSWF74M6-450N-380	380	50	②	2860	925	110	0.35	/	56	5.6

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF74M4-470N-400	220	50	①	4235	1400	195	0.91	6	69	6
		60	②	4610	1620	245	1.1		73	
YSWF74M4-470N-400	380	50	①	4235	1400	190	0.48	/	69	6
		60	②	4950	1620	240	0.46		73	
YDWF74M6-470N-400	220	50	③	3290	920	120	0.56	5	60	6
		60	④	3710	1060	138	0.63		63	
YSWF74M6-470N-400	380	50	③	3290	920	120	0.38	/	60	6
		60	④	3710	1060	136	0.35		63	



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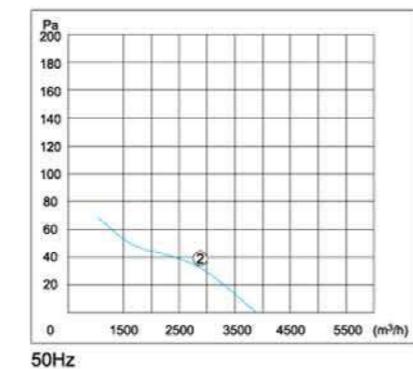
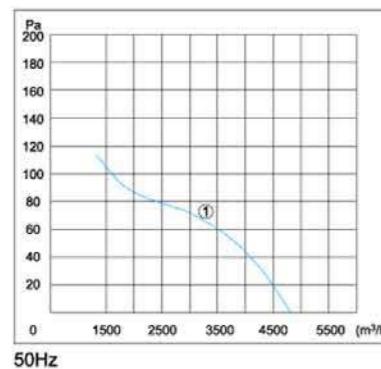
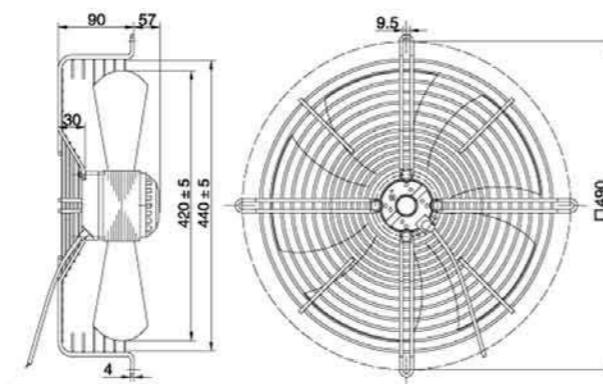
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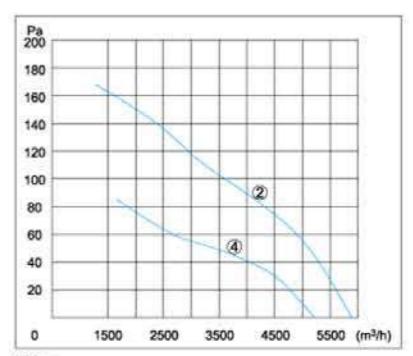
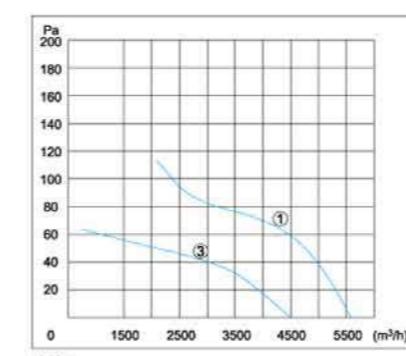
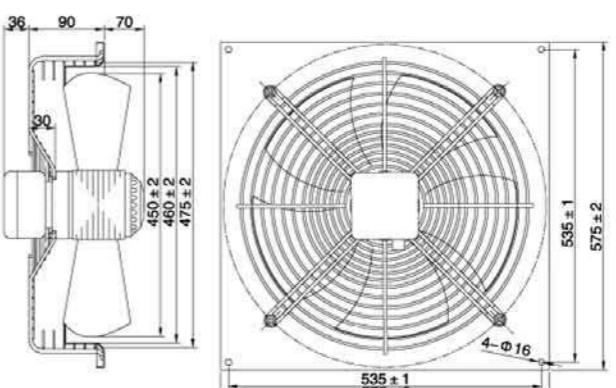
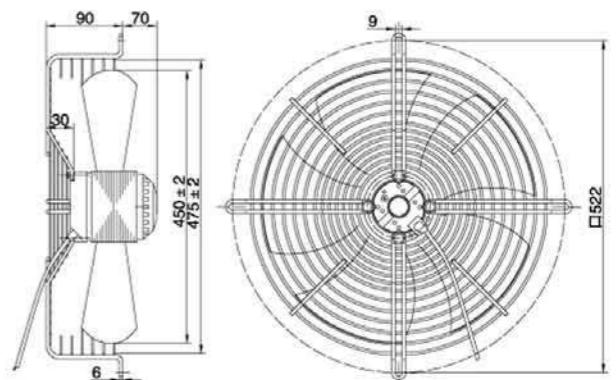
外转子风机系列 AXIAL FAN MOTOR

Φ420



外转子风机系列 AXIAL FAN MOTOR

Φ450



型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF74L4-490N-420	220	50	①	4790	1400	220	1.0	8	67	6.8
YSWF74L4-490N-420	380	50	①	4790	1400	220	0.58	/	67	6.8
YDWF74L6-490N-420	220	50	②	3880	930	150	0.82	6	58	6.8
YSWF74L6-490N-420	380	50	②	3880	930	150	0.51	/	58	6.8

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF74L4-522N-450	220	50	①	5580	1380	240	1.08	8	68	8
		60	②	5850	1600	305	1.4		72	
YSWF74L4-522N-450	380	50	①	5580	1380	240	0.6	/	68	8
		60	②	5850	1600	305	0.58		72	
YDWF74L6-522N-450	220	50	③	4500	920	160	0.75	6	62	8
		60	④	5240	1060	190	0.88		65	
YSWF74L6-522N-450	380	50	③	4500	920	160	0.53	/	62	8
		60	④	5240	1068	190	0.48		65	



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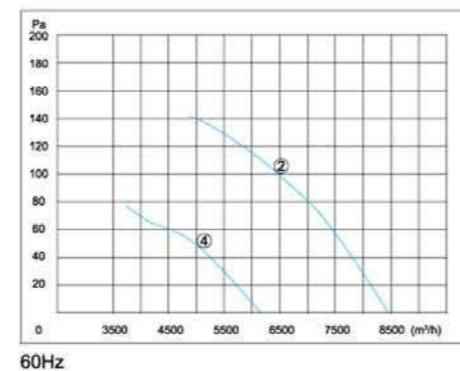
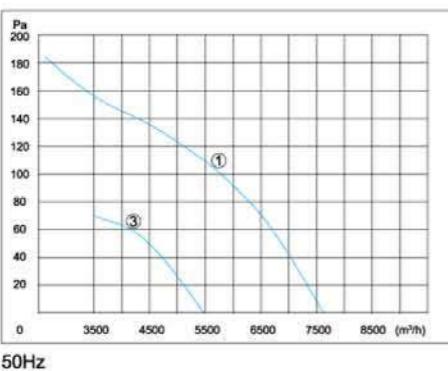
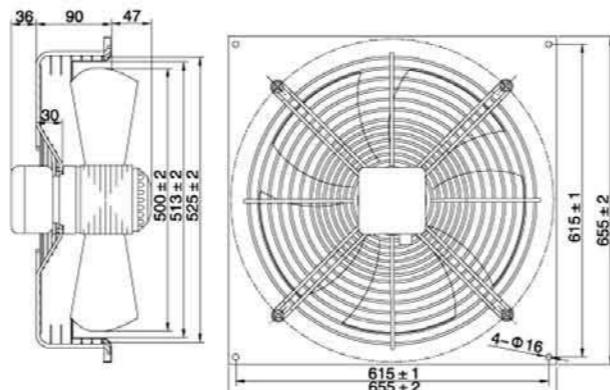
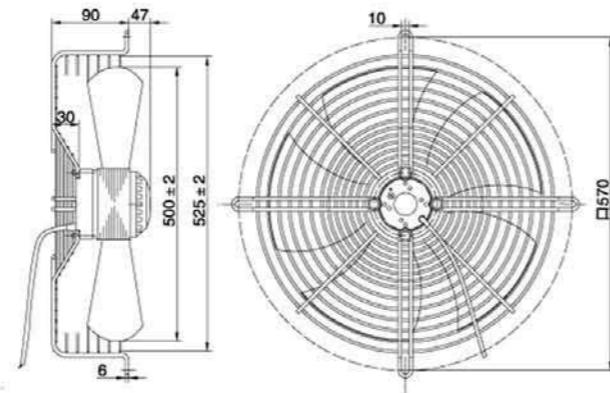
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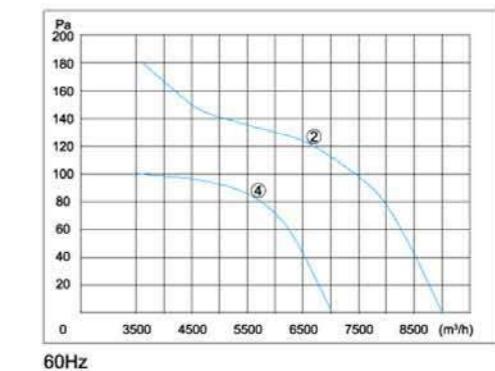
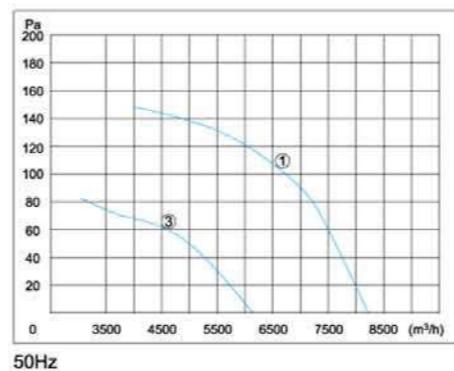
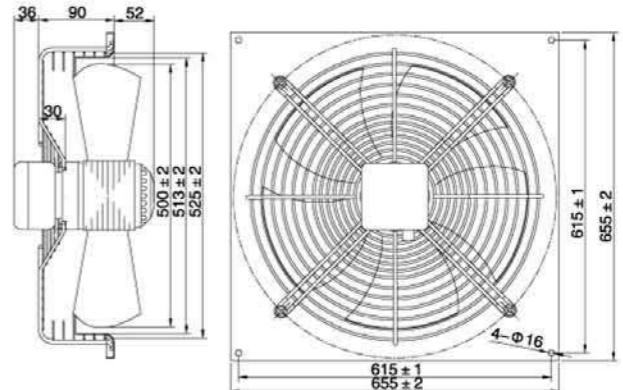
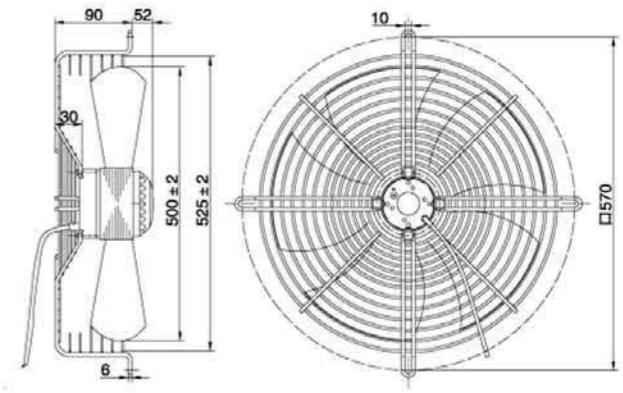
外转子风机系列 AXIAL FAN MOTOR

Φ500-L35



外转子风机系列 AXIAL FAN MOTOR

Φ500-L40



型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF102L35P4-570N-500	220	50	①	7620	1400	380	1.7	10	70	8.8
		60	②	8420	1630	480	2.1		73	
YSWF102L35P4-570N-500	380	50	①	7620	1400	380	0.85	/	70	8.8
		60	②	8420	1630	470	0.84		73	
YDWF102L35P6-570N-500	220	50	③	5460	905	200	0.91	8	67	8.8
		60	④	6200	1050	260	1.22		69	
YSWF102L35P6-570N-500	380	50	③	5490	930	205	0.58	/	67	8.8
		60	④	6200	1050	260	0.56		69	

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF102L40P4-570N-500	220	50	①	8250	1380	460	2.2	12	71	9.2
		60	②	9000	1670	560	2.42		74	
YSWF102L40P4-570N-500	380	50	①	8250	1380	460	1.0	/	71	9.2
		60	②	9000	1670	560	1.05		74	
YDWF102L40P6-570N-500	220	50	③	6200	925	240	1.2	10	67	9.2
		60	④	7000	1100	320	1.5		69	
YSWF102L40P6-570N-500	380	50	③	6200	925	240	0.63	/	67	9.2
		60	④	7000	1068	320	0.67		69	



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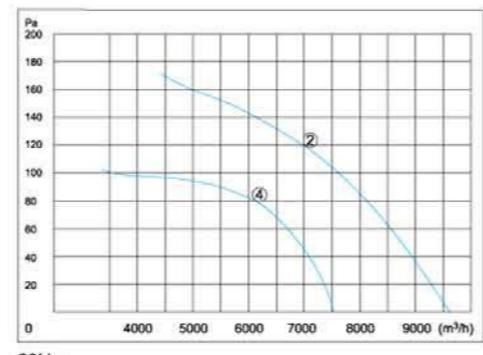
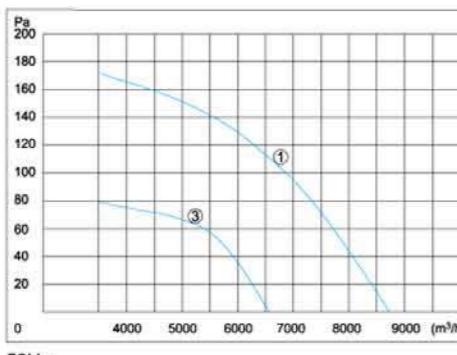
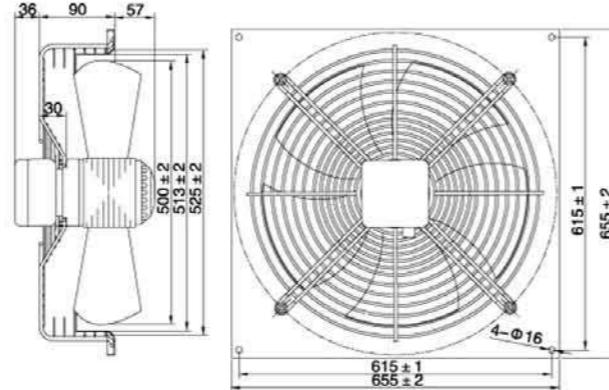
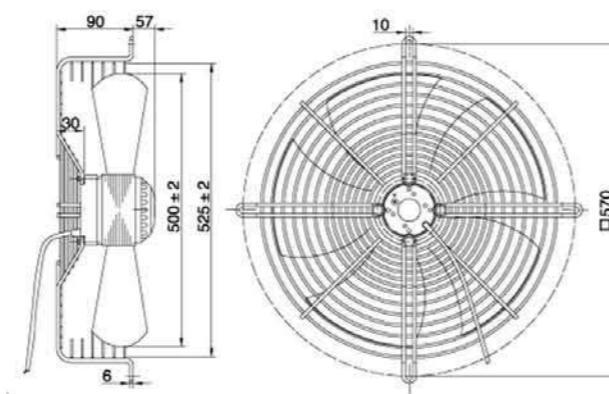
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外转子风机系列 AXIAL FAN MOTOR

Φ500-L45

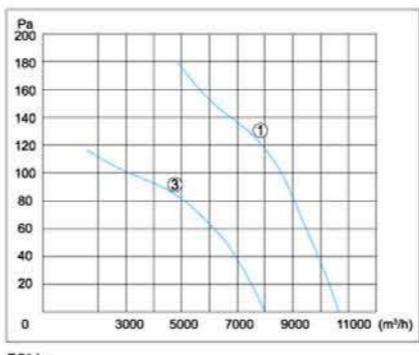
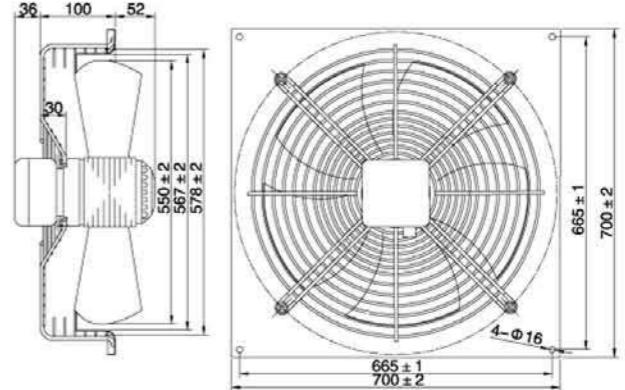
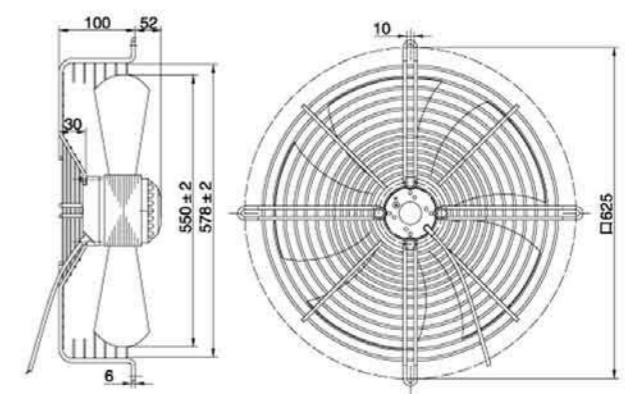


50Hz

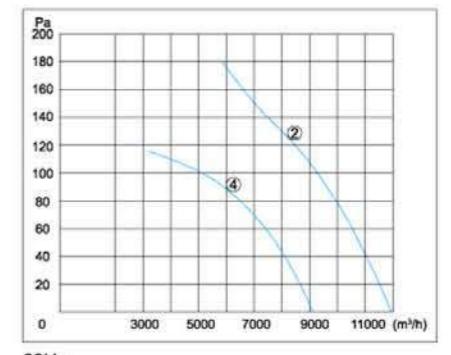
60Hz

外转子风机系列 AXIAL FAN MOTOR

Φ550



50Hz



60Hz

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF102L45P4-570N-500	220	50	①	8760	1390	520	2.3	16	72	9.8
		60	②	9600	1660	660	2.9		75	
YSWF102L45P4-570N-500	380	50	①	8760	1390	520	1.2	/	72	9.8
		60	②	9600	1672	650	1.2		75	
YDWF102L45P6-570N-500	220	50	③	6600	928	270	1.3	10	68	9.8
		60	④	7520	1080	375	1.7		71	
YSWF102L45P6-570N-500	380	50	③	6600	928	270	0.73	/	68	9.8
		60	④	7520	1065	375	0.73		71	

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF102L50P4-625N-550	220	50	①	10600	1410	550	2.6	16	76	11.5
		60	②	11900	1660	685	3.18		79	
YSWF102L50P4-625N-550	380	50	①	10600	1410	550	1.24	/	76	11.5
		60	②	11900	1660	680	1.25		79	
YDWF102L50P6-625N-550	220	50	③	8000	925	350	1.7	12	71	11.5
		60	④	9100	1047	474	2.07		74	
YSWF102L50P6-625N-550	380	50	③	8000	925	350	0.92	/	71	11.5
		60	④	9100	1070	476	0.95		74	



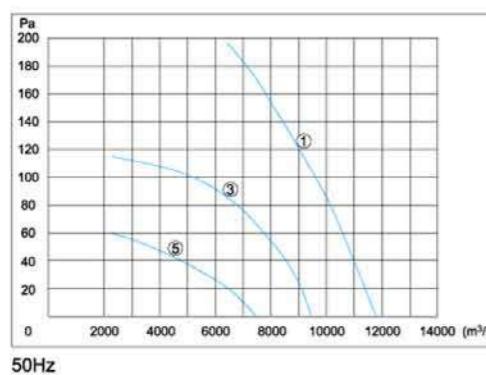
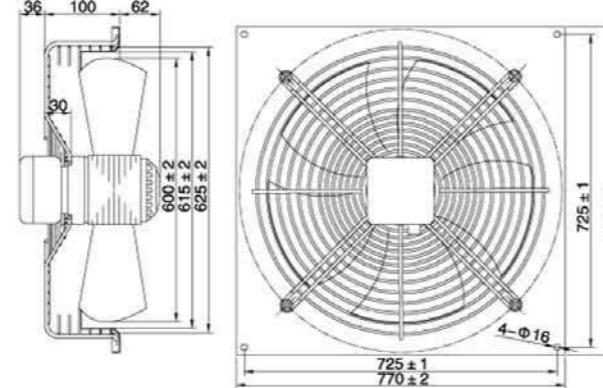
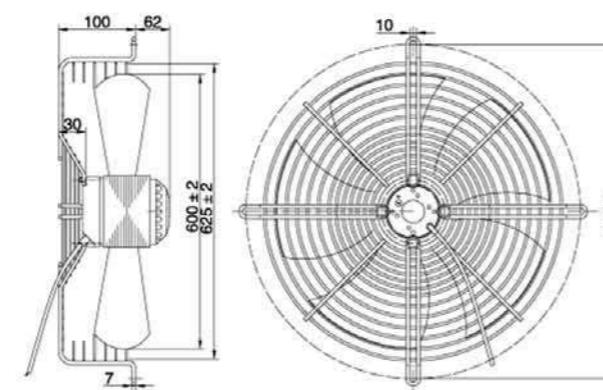
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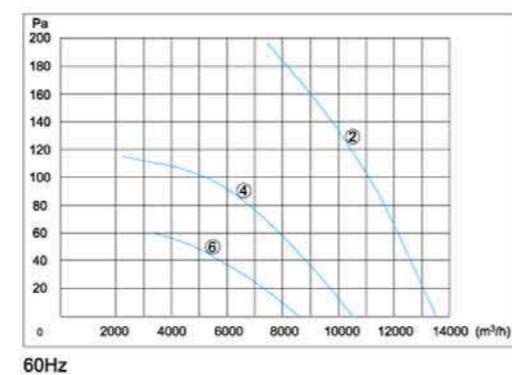


外转子风机系列 AXIAL FAN MOTOR

Φ600



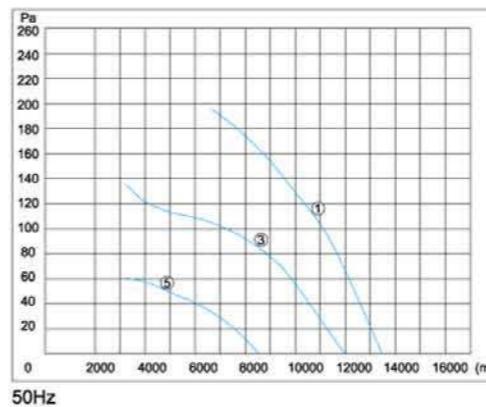
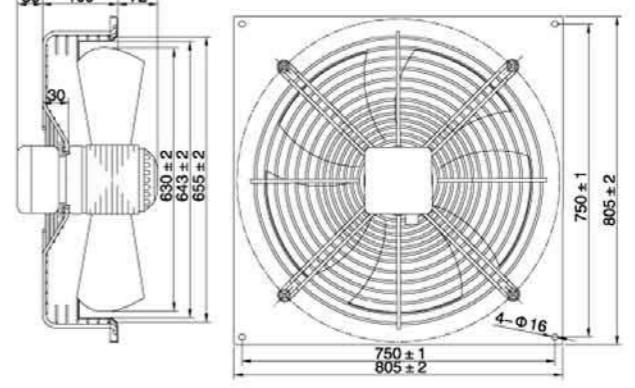
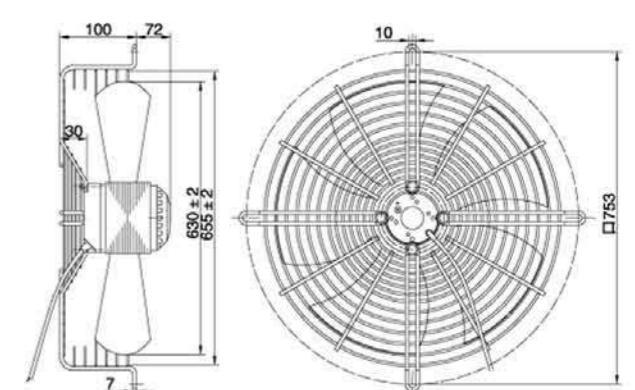
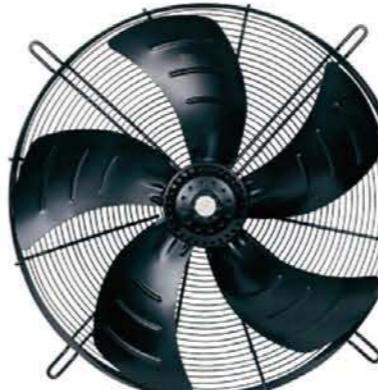
50Hz



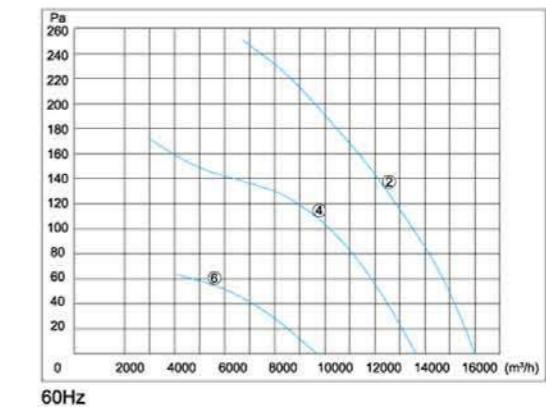
60Hz

外转子风机系列 AXIAL FAN MOTOR

Φ630



50Hz



60Hz

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF102L60P4-675N-600	220	50	①	11800	1380	710	3.3	20	76	13.5
		60	②	13500	1600	843	3.85		80	
YSWF102L60P4-675N-600	380	50	①	11800	1380	700	1.45	/	76	13.5
		60	②	13500	1649	840	1.43		80	
YDWF102L60P6-675N-600	220	50	③	9450	930	410	1.9	12	71	13.5
		60	④	10500	1100	480	2.2		74	
YSWF102L60P6-675N-600	380	50	③	9450	930	410	1.1	/	71	13.5
		60	④	10500	1070	510	1.01		74	
YDWF102L60P8-675N-600	220	50	⑤	7400	690	265	1.3	10	68	13.5
		60	⑥	8600	820	340	1.62		70	

型号	电压	频率	曲线编号	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF102L70P4-753N-630	220	50	①	13500	1410	780	3.6	20	77	15
		60	②	16000	1650	900	4.55		81	
YSWF102L70P4-753N-630	380	50	①	13500	1410	780	1.65	/	77	15
		60	②	16000	1685	945	1.7		81	
YDWF102L70P6-753N-630	220	50	③	12000	930	540	2.5	16	72	15
		60	④	13600	1053	605	2.78		75	
YSWF102L70P6-753N-630	380	50	③	12000	930	520	1.25	/	72	15
		60	④	13600	1112</td					



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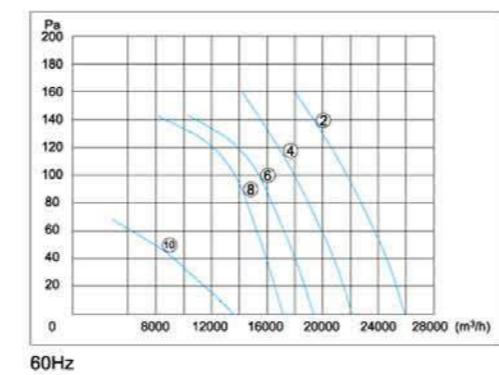
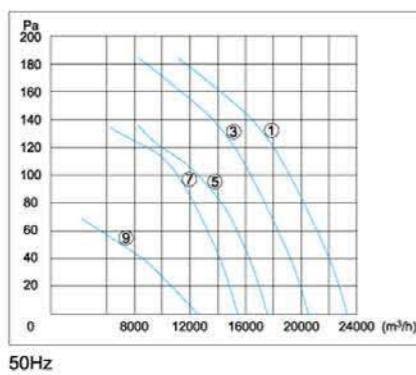
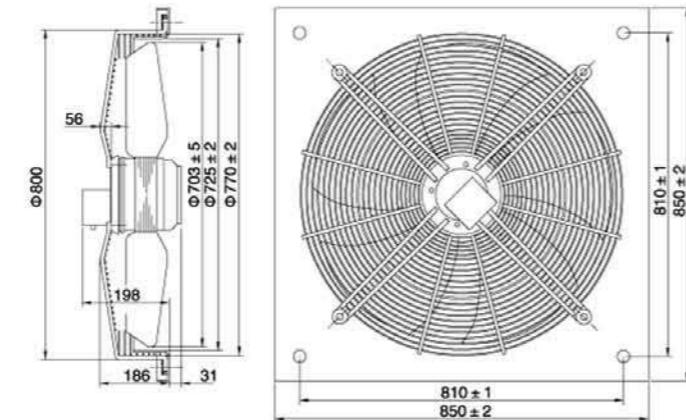
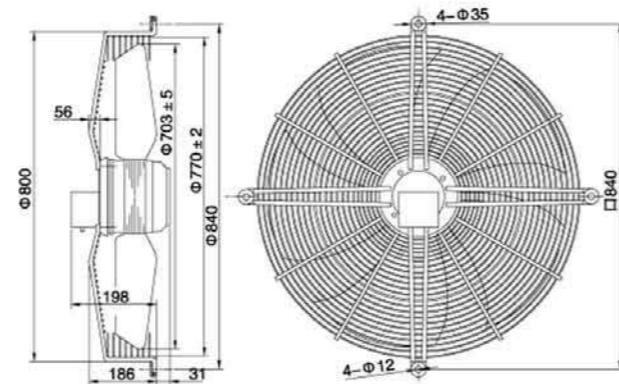
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外转子风机系列 AXIAL FAN MOTOR

Φ710



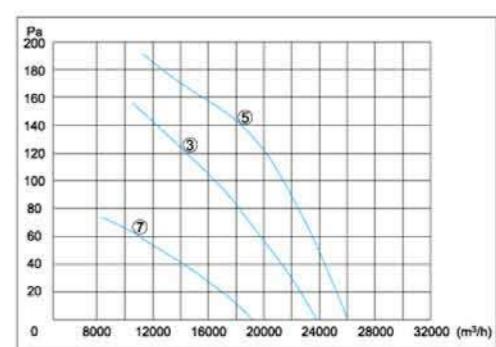
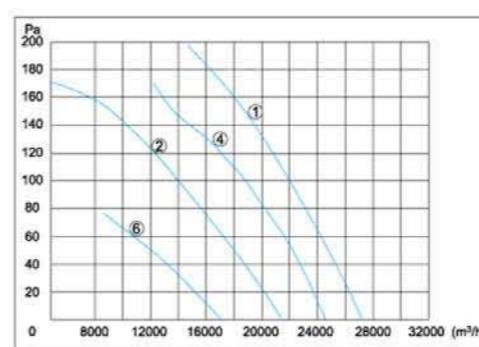
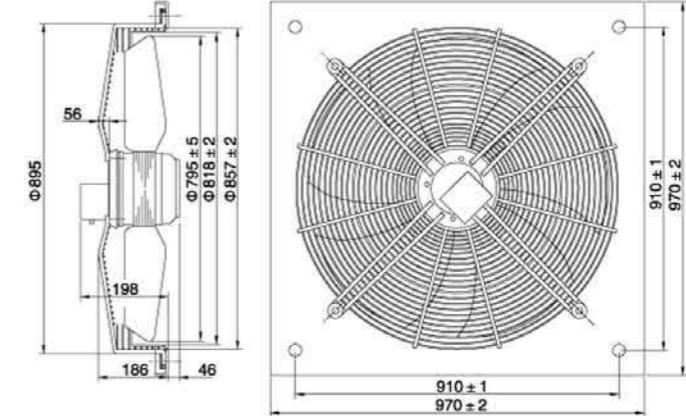
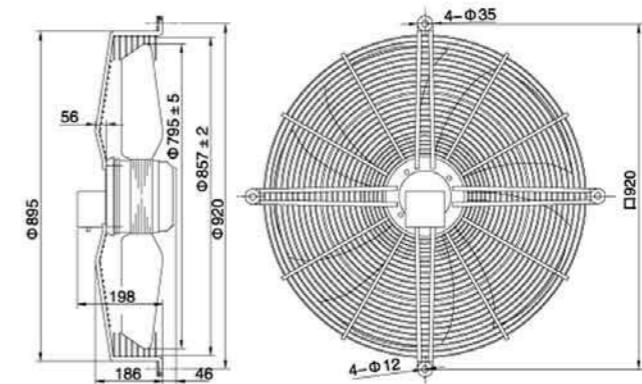
型号	电压	频率	曲线编号	风量	转速	输入功率	电流	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	NOISE dB(A)	NET Kg
YSWF127L65P4-840N-710	380	50	①	23500	1400	1600	3.2	84	26
		60	②	25800	1640	2050	3.5	88	
YSWF127L50P4-840N-710	380	50	③	20300	1400	1320	2.5	80	23
		60	④	22000	1620	1600	2.7	83	
YSWF127L65P6-840N-710	380	50	⑤	17700	925	1050	2.4	77	26
		60	⑥	19300	1060	1370	2.57	80	
YSWF127L50P6-840N-710	380	50	⑦	15300	920	850	1.95	73	23
		60	⑧	17200	1050	1100	2.0	76	
YSWF127L50P8-840N-710	380	50	⑨	12200	685	430	1.1	67	23
		60	⑩	13700	815	550	1.08	69	

注：三相电机为六个头接线，上述数据为△接法时的参数。

Note:Three phase fan with six terminals connect,△ connect method parament see above.

外转子风机系列 AXIAL FAN MOTOR

Φ800



型号	电压	频率	曲线编号	风量	转速	输入功率	电流	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	NOISE dB(A)	NET Kg
YSWF127L65P4-920N-800	380	50	①	27200	1400	1600	3.2	88	28
		50	②	21500	920	1100	2.4	83	
YSWF127L65P6-920N-800	380	50	③	23800	1060	1370	2.57	85	27
		60	④	24300	930	1400	3.4	84	
YSWF127L80P6-920N-800	380	50	⑤	26000	1070	1750	3.45	87	31
		60	⑥	17200	680	650	1.5	75	
YSWF127L65P8-920N-800	380	50	⑦	19000	805	820	1.52	77	27
		60	⑧	19000	805	820	1.52	77	

注：三相电机为六个头接线，上述数据为△接法时的参数。

Note:Three phase fan with six terminals connect,△ connect method parament see above.



MaEr Fan Motor

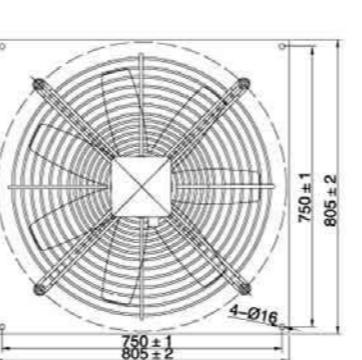
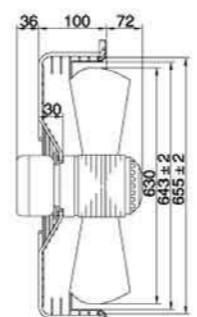
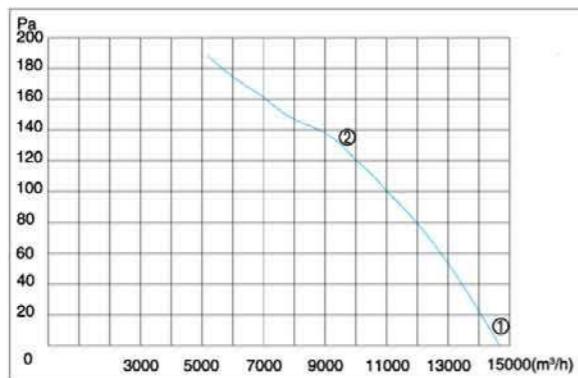
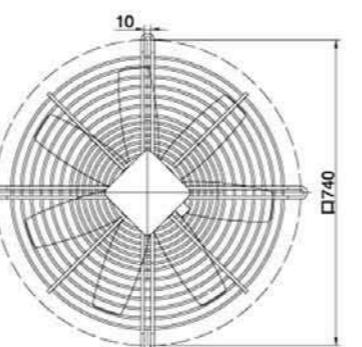
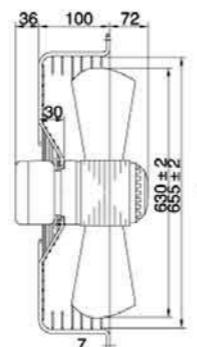
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LF2系列 外转子风机(适用于冷风机) AIR COOLER FAN LF2 SERIES

Φ630

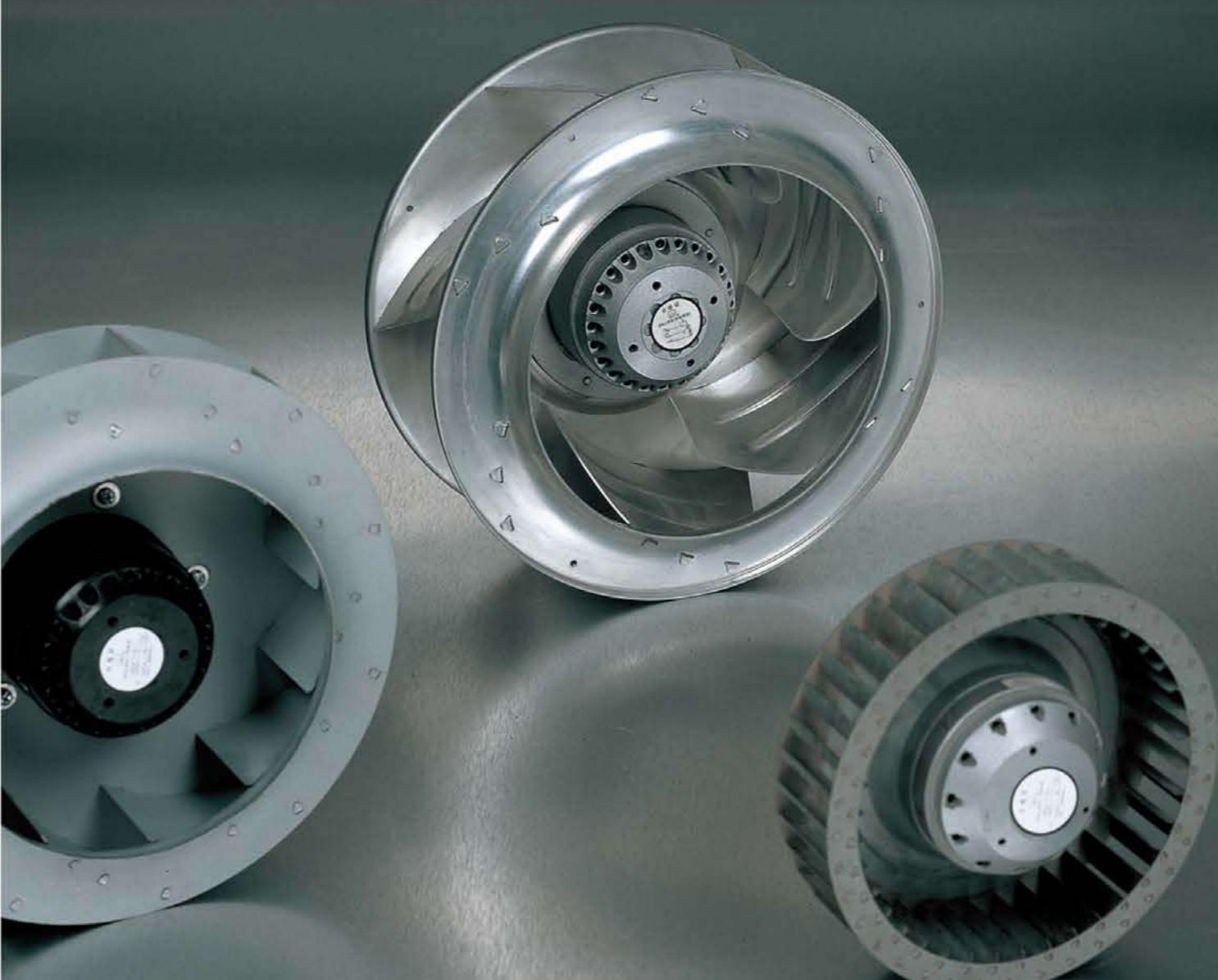


型号MODEL:YSWF102L70P4-7-753N-630LF2

电压	频率	电流	输入功率	转速	进口静压	风量	射程	噪声	温升	净重
VOLTAGE V	FREQUENCY Hz	CURRENT A	INPUT W	SPEED r/min	INLET PRESSURE Pa	AIR VOLUME m³/h	RANGE m	NOISE dB(A)	TEMPERATURE RISING K	NET Kg
① 380	50	1.8	850	1391	0	14600	35	84	58	17
②		1.98	945	1388	134	9319	27	86	69	

冷风机电机经特殊工艺处理，适应低温潮湿环境工作。建议所使用的风机在风压①和②之间使用。
Air cooler fan motor is adapt to low temperature and wet environments by special treatment.
Advise the air cooler fan used between pressure point ① and ②.

外转子离心风机&电机系列 CENTRIFUGAL FAN & MOTOR





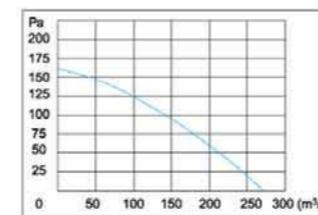
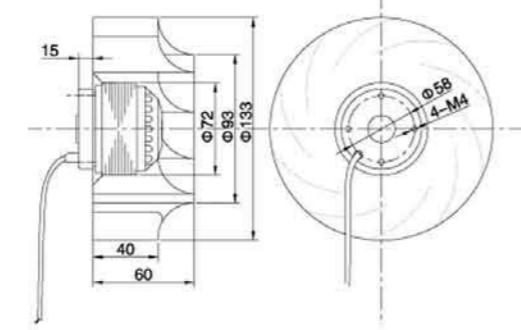
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maerwdj@yahoo.com.cn

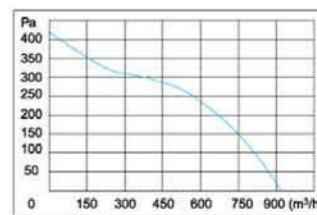
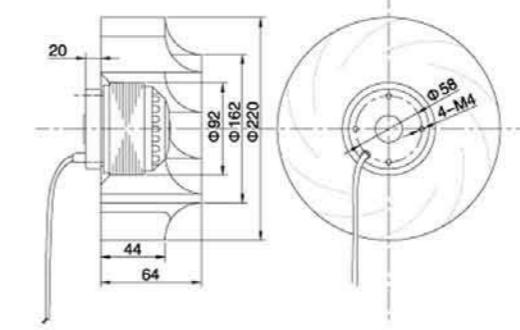
外转子离心风机 CENTRIFUGAL FAN

Φ133



外转子离心风机 CENTRIFUGAL FAN

Φ220

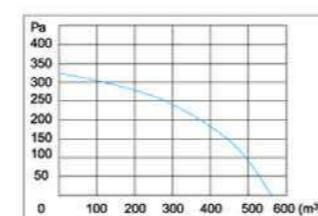
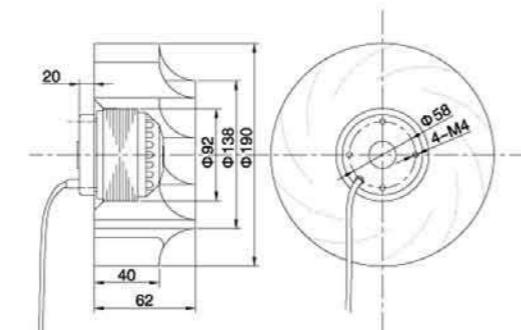


型号	电压	频率	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF52L20P2-133 x 60	220	50	270	2600	26	0.13	1.5	54	0.9
YZWF52L20P2-133 x 60	220	50	240	2410	40	0.25	/	53	0.9

型号	电压	频率	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF65L25P2-220 x 64	220	50	920	2700	100	0.52	3	72	1.9
YSWF65L25P2-220 x 64	380	50	920	2700	100	0.22	/	72	1.9

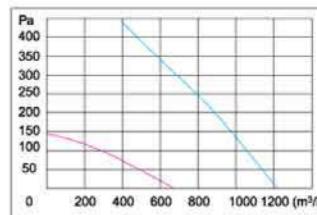
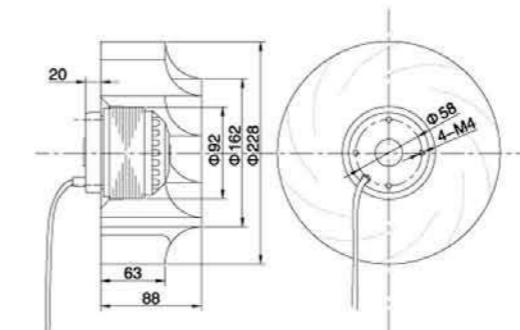
外转子离心风机 CENTRIFUGAL FAN

Φ190



外转子离心风机 CENTRIFUGAL FAN

Φ228



型号	电压	频率	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF65L15P2-190 x 62	220	50	578	2550	65	0.3	2	63	1.5
YSWF65L17P2-190 x 62	380	50	578	2550	60	0.2	/	63	1.5

型号	电压	频率	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF65L25P2-228 x 88	220	50	1200	2670	120	0.57	4	72	2.2
YSWF65L25P2-228 x 88	380	50	1200	2700	120	0.23	/	72	2.2
YDWF68L25P4-228 x 88	220	50	650	1420	44	0.24	2	60	2.1
YSWF68L25P4-228 x 88	380	50	650	1420	42	0.21	/	60	2.1



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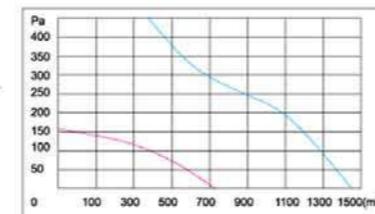
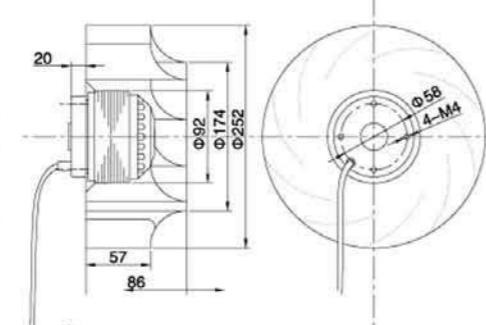
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maerwdj@yahoo.com.cn

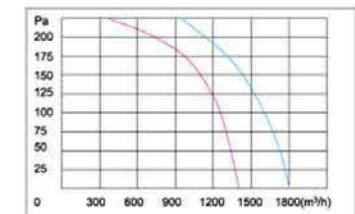
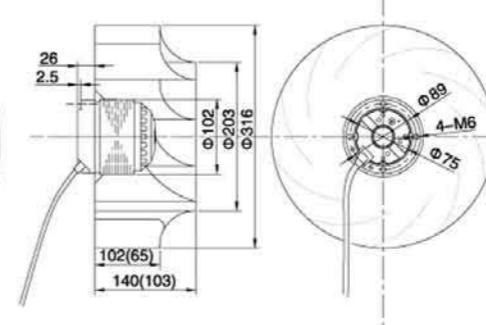
外转子离心风机 CENTRIFUGAL FAN

Φ250



外转子离心风机 CENTRIFUGAL FAN

Φ315

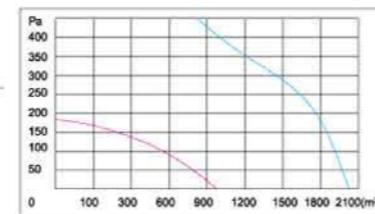
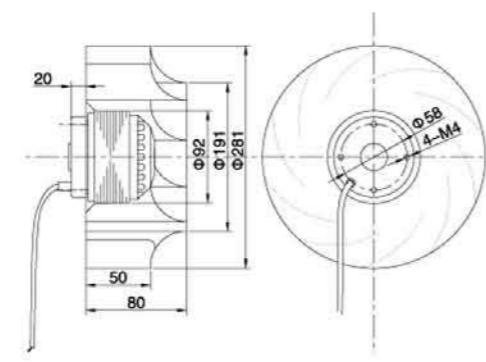


型号	电压	频率	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF65L35P2-250 x 86	220	50	1450	2690	180	0.8	6	75	2.2
YSWF65L35P2-250 x 86	380	50	1450	2600	160	0.37	/	75	2.2
YDWF68L25P4-250 x 86	220	50	750	1400	50	0.24	2	61	1.9
YSWF68L25P4-250 x 86	380	50	750	1400	50	0.2	/	61	1.9

型号	电压	频率	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF74S4-315 x 103	220	50	1800	1450	98	0.5	4	66	3.3
YSWF74S4-315 x 103	380	50	1800	1450	95	0.3	/	66	3.4
YDWF74S4-315 x 140	220	50	1380	1420	115	0.5	4	68	3.3
YSWF74S4-315 x 140	380	50	1380	1425	110	0.3	/	68	3.4

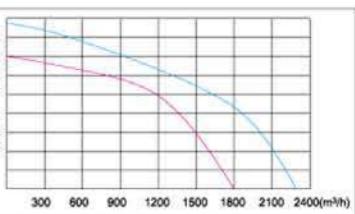
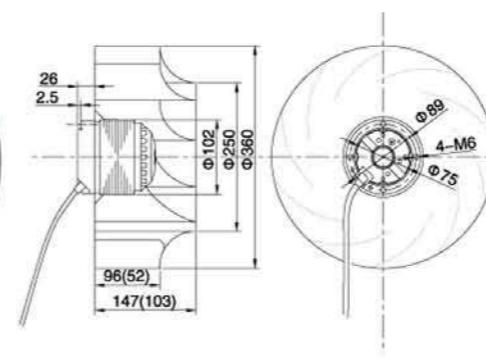
外转子离心风机 CENTRIFUGAL FAN

Φ280



外转子离心风机 CENTRIFUGAL FAN

Φ355



型号	电压	频率	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF65L42P2-280 x 80	220	50	2000	2530	250	1.1	8	75	3.4
YSWF65L42P2-280 x 80	380	50	1980	2500	220	0.4	/	75	3.4
YDWF68L35P4-280 x 80	220	50	1000	1400	85	0.4	3	64	3.1
YSWF68L35P4-280 x 80	380	50	1000	1400	85	0.3	/	64	3.1

型号	电压	频率	风量	转速	输入功率	电流	电容器	噪声	净重
MODEL	VOLTAGE V	FREQUENCY Hz	AIR VOLUME m³/h	SPEED r/min	INPUT W	CURRENT A	CAPACITANCE μF/450V	NOISE dB(A)	NET Kg
YDWF74M4-355 x 103	220	50	1800	1380	190	0.9	6	69	4.1
YSWF74M4-355 x 103	380	50	1800	1380	190	0.45	/	69	4.1
YDWF74M4-355 x 147	220	50	2380	1380	240	1.1	8	71	4.7
YSWF74M4-355 x 147	380	50	2380	1380	240	0.55	/	71	4.7



外转子离心风机用电机安装尺寸 CENTRIFUGAL FAN MOTOR



电机型号 MODEL	安装尺寸 INSTALLATION DIMENSION				外型尺寸 SHAPE SIZE					
	固定尺寸 FIXED DIMENSION		叶轮安装 IMPELLER INSTALLATION		轴向 SHAFT DIRECTION		径向直径 RADIAL DIAMETER			
	Φi	4-Mk	Φg	j-M5	b	d	e	a	f	h
YWF68L15P口	$\Phi 58$	4-M5 x 5max	$\Phi 110$	5-M5	26	15	26	$\Phi 30$	$\Phi 92$	$\Phi 130$
YWF68L25P口						25				
YWF68L35P口						35				
YWF68L40P口						40				
YWF74S口	$\Phi 89$	4-M6 x 20max	$\Phi 120$	5-M5	36	35	36	$\Phi 75$	$\Phi 102$	$\Phi 140$
YWF74M口						47				
YWF74L口						60				
YWF102L35P口						35				
YWF102L40P口	$\Phi 124$	4-M8 x 22max	$\Phi 154$	6-M5	42	40	42	$\Phi 102$	$\Phi 140$	$\Phi 170$
YWF102L50P口						50				
YWF102L60P口						60				
YWF102L70P口						70				
YWF127L50P口	$\Phi 140$	8-M10 x 15max	$\Phi 190$	6-M6	55	50	56	$\Phi 119$	$\Phi 172$	$\Phi 208$
YWF127L65P口						65				
YWF127L80P口						80				

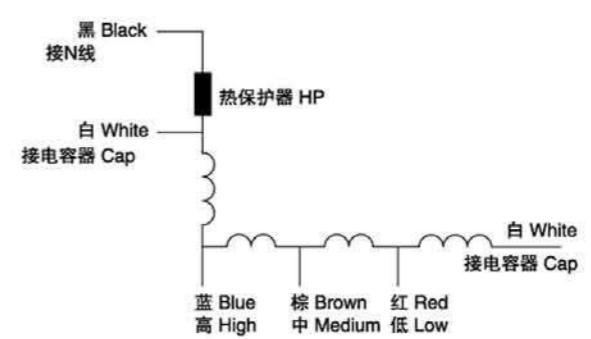
注：不加法兰时，电机外径尺寸公差为 ± 0.05 。
Note: If no flanges, the tolerance dimension of motor is ± 0.05 .

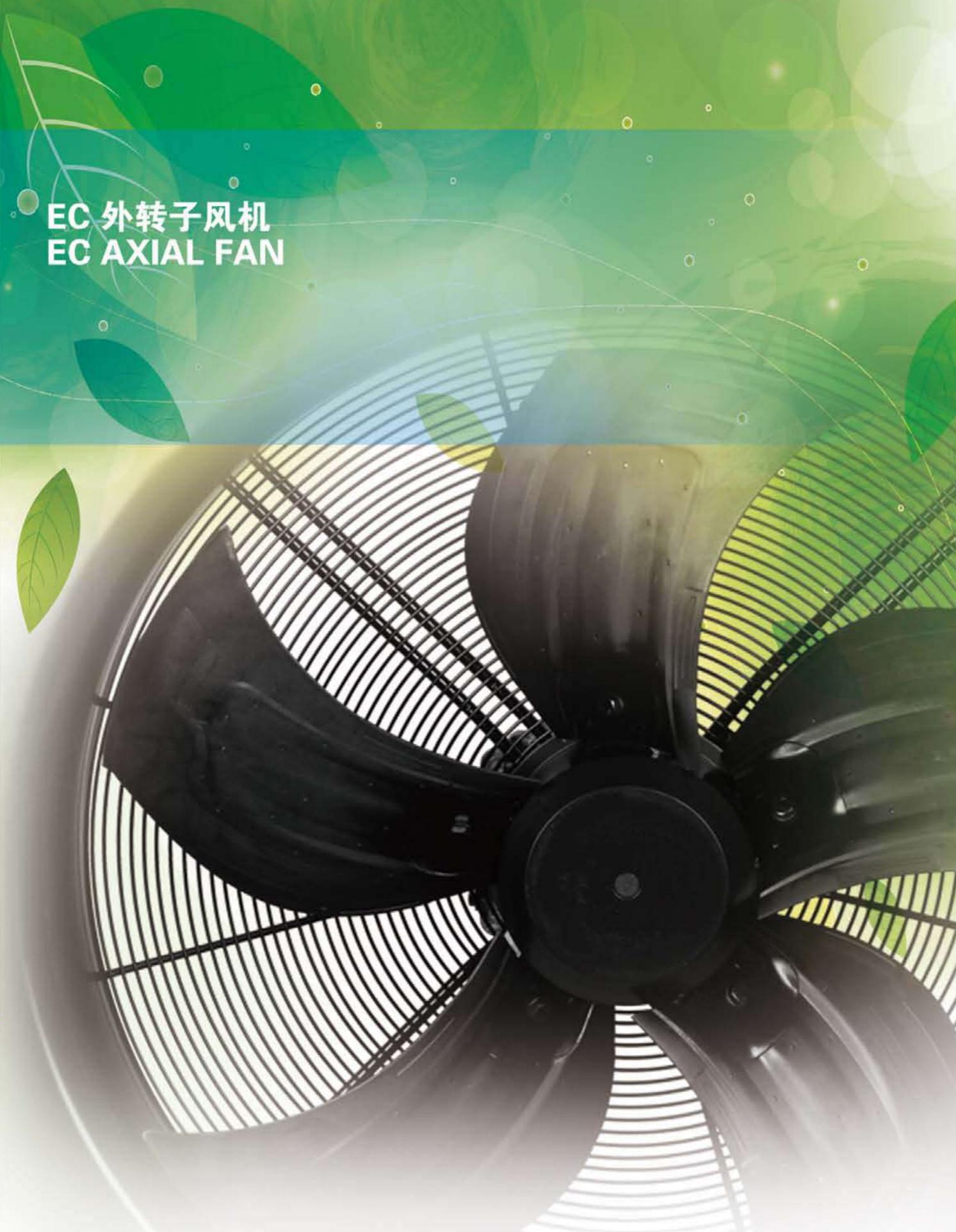
外转子离心风机用单相电机 – 性能参数

SINGLE PHASE MOTOR FOR CENTRIFUGAL FAN PROPERTY PARAMETER

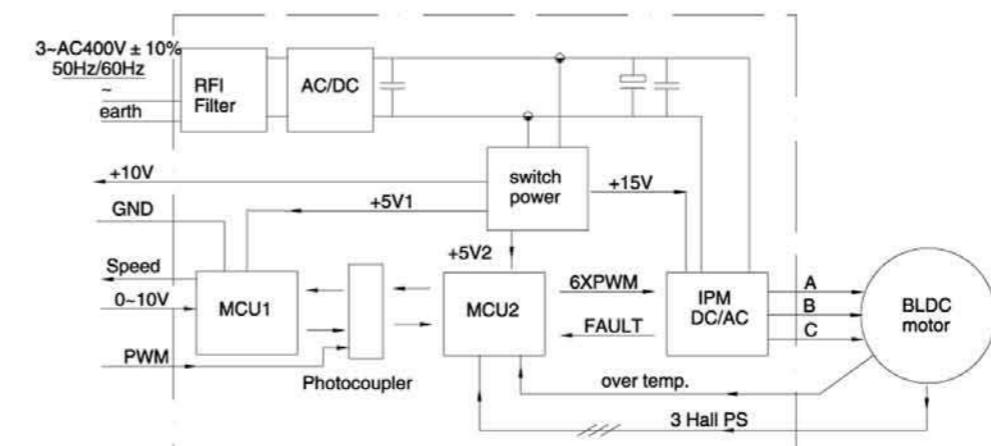
型号 MODEL	最大输入功率 INPUT(MAX) W	转速 SPEED r/min	最大输出功率 OUTPUT(MAX) W	电流 CURRENT A	电容器 CAPACITANCE μ F		净重 NET Kg
					C	H	
YDWF65L15P2	92	2500	45	0.42	1.5	1.27	
YDWF68L15P4	40	1380	20	0.2	1.5	1.27	
YDWF65L25P2	120	2600	60	0.35	4	1.75	
YDWF68L25P4	55	1400	25	0.24	2	1.59	
YDWF65L35P2	165	2610	95	0.72	6	1.8	
YDWF65L42P2	250	2500	150	1.1	8	2.3	
YDWF68L4	80	1380	37.5	0.42	3	2.29	
YDWF68L6	60	910	25	0.25	3	2.00	
YDWF74S4	150	1400	90	0.75	4	2.79	
YDWF74S6	90	920	50	0.42	4	2.79	
YDWF74M4	190	1380	120	0.88	6	3.35	
YDWF74M6	120	920	70	0.55	5	3.35	
YDWF74L4	260	1360	180	1.08	8	4.05	
YDWF74L6	160	920	90	0.8	6	4.05	
YDWF102L35P4	370	1400	250	1.5	10	5.42	
YDWF102L35P6	180	920	120	0.85	8	5.42	
YDWF102L40P4	460	1350	370	2.15	12	5.9	
YDWF102L40P6	240	910	180	1.2	10	5.9	
YDWF102L50P4	634	1380	450	2.93	16	6.83	
YDWF102L50P6	328	918	220	1.53	12	6.83	
YDWF102L60P4	714	1377	520	3.3	20	7.78	
YDWF102L65P6	415	920	285	1.93	12	7.78	
YDWF102L70P6	540	928	370	2.55	16	8.71	
YDWF102L70P8	327	680	210	1.5	12	8.71	
YSWF127L50P6	850	920	650	1.95	/	11	
YSWF127L65P6	1050	920	850	2.4	/	13.5	
YSWF127L80P6	1400	940	1100	3.08	/	15	
YSWF127L80P12	450	440	260	1.45	/	15	

- 用户根据需要，可在上述转速的50%~100%范围内，选择离心风机的额定转速。
 - 用户根据需要，可在额定转速的50%~100%范围内，选择三档或两档抽头调速，调速电机的接线图如图：
 - 三相离心风机电机的功率、转速可按第1条选择调整，但不能抽头调速。
1. You can choose the rated speed of centrifugal fan in the range of 50%~100% mentioned above.
2. You can choose three or two running speed of centrifugal fan in the range of 50%~100% mentioned above, connection is like the wire diagram.
3. For three-phase centrifugal fan, the power and speed can be adjusted in accordance with the choice of paragraph 1, but the fan cannot be made as tap speed change.

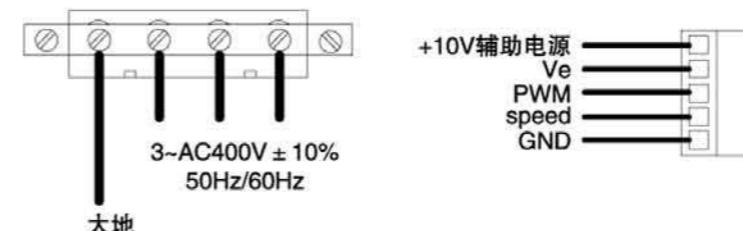


**EC150系列外转子永磁无刷直流风机说明****1. 整体说明:**

电动机为钢铁外壳的低噪声外转子永磁无刷直流电机，电动机端盖及控制器盒由铝合金制造，风叶材料为塑料，铝合金加强。风机整体黑色，F级绝缘，IP45。主要性能特点是大风量、低噪声、大范围高效率调速。



EC150系列外转子风机系统框图

2. 接线图:

注1：该接地线在控制器内部与相线之间接有防雷和抗静电器件，使用时需接地。电气强度试验时，与三根相线一起，对外壳进行AC1800V/1分钟耐压试验。

注2：引出线最小线径：电源线(3X0.75+PE0.75) mm²；控制线0.5mm²

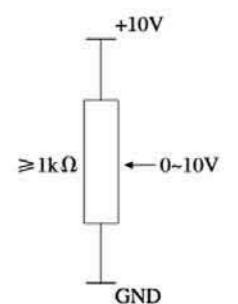
3. 速度控制及速度反馈（所有控制信号已与强电隔离）

1) 0~10V控制——电平信号Ve与本系统GND的电压差控制。1V启动，10V为最高转速1000r/min，其间线性正比。

2) 外部可变电阻控制——可由本系统提供的+10V辅助电源和GND之间接入参考电阻，产生0~10V控制电平。

3) PWM控制——控制端与本系统GND之间的PWM控制，V_p=3~5V。转换成控制电平U_e=10α(V)。α(0~1)为PWM的占空比。要求PWM频率小于2kHz但大于800Hz。

4) 速度反馈——速度反馈信号Speed为与GND之间输出方波信号，V_p=5V，频率为f_n。速度大小为：n=2f_n(r/min)。



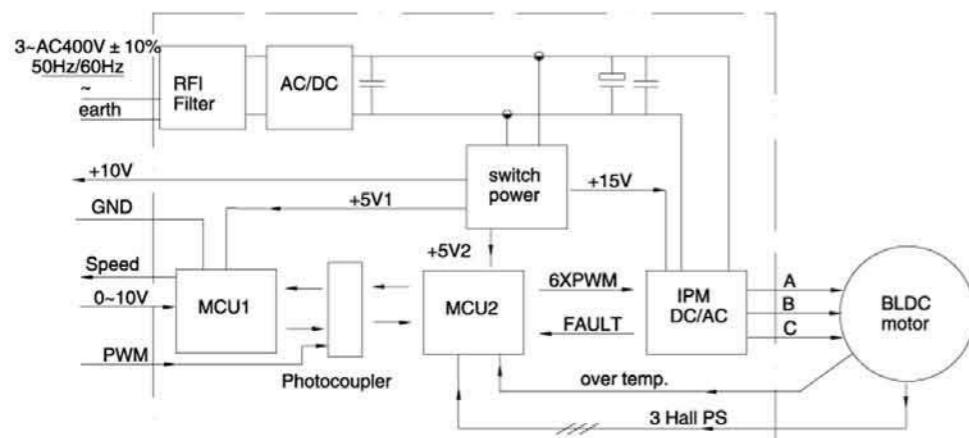
阻抗--电平转换示意图



EC150 SERIES PM-BLDC AXIAL FAN MOTOR INTRODUCTION

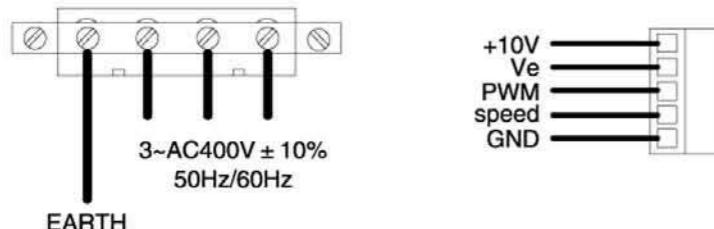
1. Completely introduction:

Low noise PM-BLDC motor with steel housing, motor end cover and controller box made by aluminum alloy, impeller material is plastic, special aluminum alloy. Axial fan motor in black, insulation level is class F, protection grade is IP45. Mainly features is bigger air volume low noise and wide range of high efficiency speed change.



EC150 series axial fan motor system chart.

2. Wiring diagram:

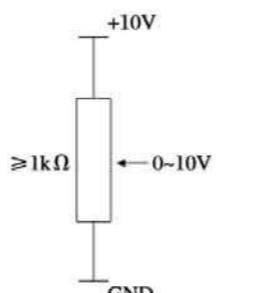


Notice1: This EARTH between controller and phase line with lightning protection equipment and antistatic device, when use must connect to ground. Electric strength test, should three phase line connect together, give a AC 1800V/1 min as breaking down test to the cover.

Notice2: Minimum cable diameter: cable (3x0.75+PE0.75) mm² : Control cable 0.5mm²

3. Speed control and speed feedback (all signal insulated with strong current)

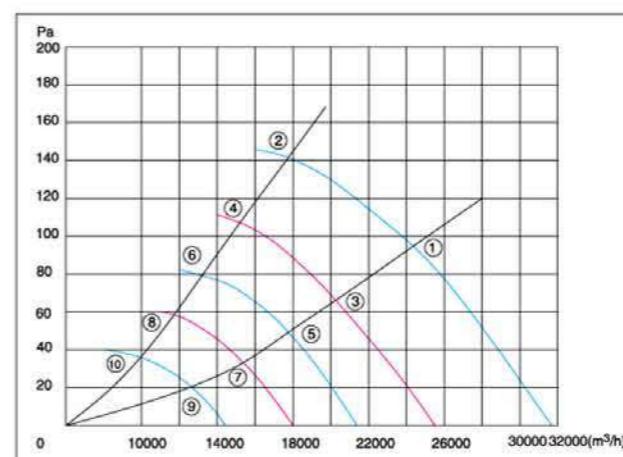
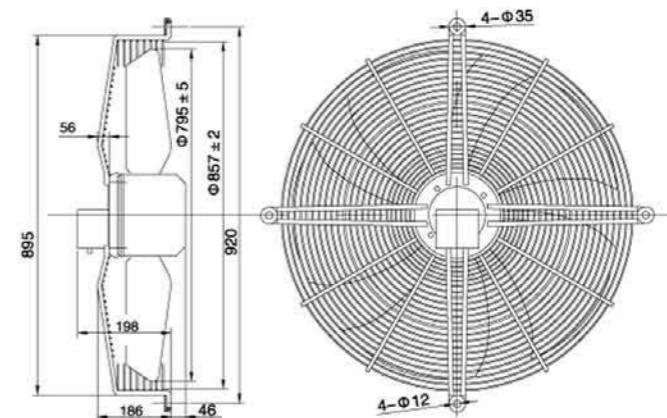
- 1) 0~10V control—level signal Ve and this system GND voltage difference. 1V start, 10V is the highest speed, between linear with direct ratio.
- 2) Outside changeable resistance control—this system supply with +10V power and GND reference impedance—electrical level conversion wiring as chart, come with 0~10V control electrical level.
- 3) PWM control—the PWM control between control side and the GND system, Vp=3~5V. Change to electrical Ue=10α(V). α(0~1) is the duty-ratio of PWM. The PWM's frequency required between 800Hz to 2KHZ.
- 4) Speed feedback—Speed feedback signal is the output echo signal between GND and Speed, Vp=5V, frequency is f_n. Speed is n=2f_n(r/min).



Electrical level conversion chart

EC150 系列外转子永磁无刷直流风机 EC150 SERIES PM-BLDC AXIAL FAN MOTOR

EC150-Φ800



型号	电压	频率	转速	输入功率	电流	最大风量	最大静压	环境温度	重量
MODEL	VOLTAGE V	FREQUENCY Hz	SPEED r/min	INPUT W	CURRENT A	BIGGEST AIR VOLUME m ³ /h	BIGGEST AIR PRSSURE pa	AIR TEMERATURE °C	WEIGHT Kg
EC150-800	400±10%	50/60	1000	1900	3.5	32000	145	-25~+60	

转速	曲线编号	输入功率	电流	进口静压	风量	噪声
SPEED r/min	CURVE NO.	INPUT W	CURRENT A	INLET PRESSURE pa	AIR VOLUME m ³ /h	NOISE dB(A)
1000	①	1750	3.2	95	24500	76
	②	1900	3.5	145	18000	
800	③	1085	2	66	20000	74
	④	1160	2.12	108	15000	
700	⑤	728	1.330	49	17750	72
	⑥	776	1.4	79	13000	
600	⑦	470	0.86	34	15300	67
	⑧	505	0.92	58	11800	
500	⑨	272	0.5	25	12000	65
	⑩	284	0.52	36	10000	

EC35系列节能电机

AXIAL FAN MOTOR

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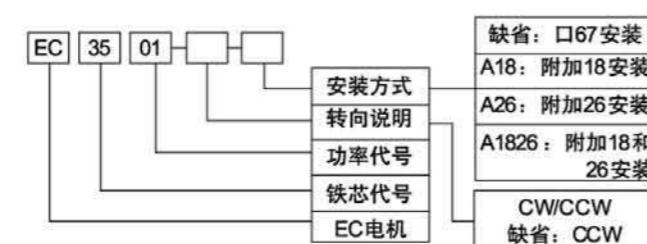
1.整体说明:

EC35系列节能电机为塑料与铝合金组合式外壳的小功率高效永磁无刷电机，防护等级为IP55，使用环境温度-10~+50℃。电动机具备三种安装方式，适用于替代各罩极电机的安装。

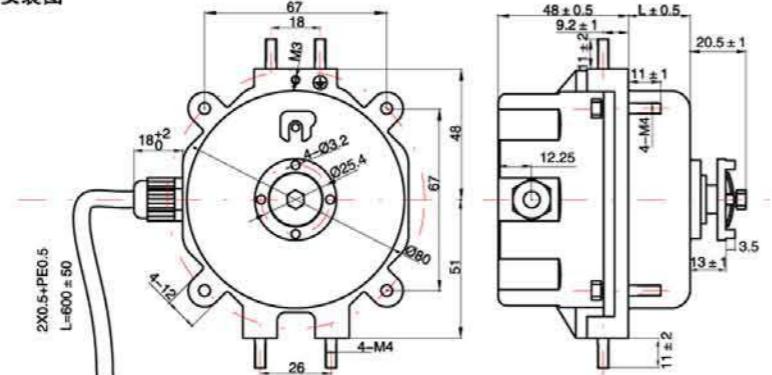
主要性能特点：

- (1) 电动机为采用分数槽技术的永磁无刷电机，振动和噪声低，效率超过各能效要求。
- (2) 电动机双重绝缘，安全等级高。
- (3) 电动机具备自动稳压功能，电压适用范围大，为AC230V ± 10%，50Hz-60Hz。
- (4) 电动机运用低噪声滚珠轴承，性能可靠，使用寿命长。
- (5) 电动机具备过压、过流、过热保护功能，运转过程中有重启现象时需检查有否过载。
- (6) 电动机具备起动和堵转保护功能，起动时有二到三次抖动是正常现象。

2.型号命名



3.外形安装图



4.电动机主要额定参数

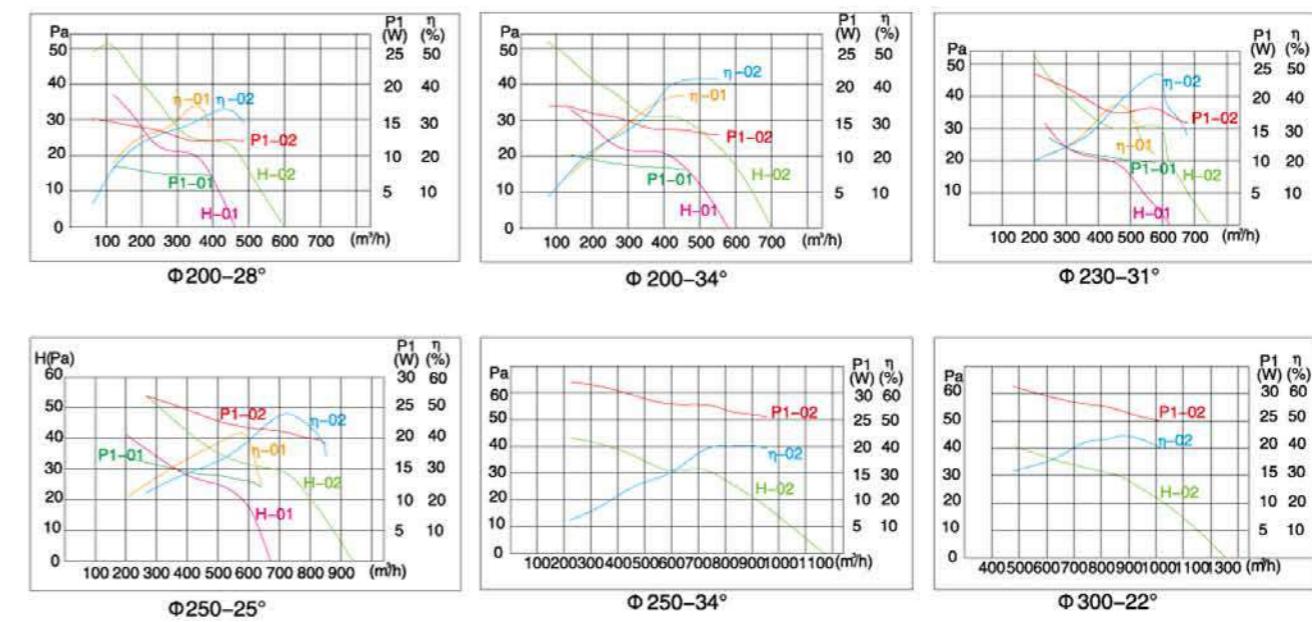
型号	L	额定输出功率 (W)	额定转速 (r/min)	额定电流 (A)	重量 (g)	备注
EC3501	22.8	7.35	1350	0.14	540	
EC3502	22.8	14.7	1350	0.28	550	
EC3503	28.8	22	1350	0.41	800	

5.风叶配合运行参数

风叶Blade	直径 DIAMETER mm	角度 ANGLE	EC3501		EC3502		EC3503		
			输入功率 INPUT W	转速 SPEED r/min	风量 AIR VOLUME m³/h	输入功率 INPUT W	转速 SPEED r/min	风量 AIR VOLUME m³/h	输入功率 INPUT W
Φ145	34°	5	1700		7.2	1960			
Φ175	34°	6.5	1630		9.5	1887			
Φ200	28°	8.8	1516	460	13	1788	600		
Φ200	34°	9.5	1490	570	14	1754	700		
Φ230	31°	11.5	1390	620	17.5	1650	750		
Φ250	25°	13	1325	660	20	1580	930		
Φ250	34°				26.5	1392	1170		
Φ300	22°				26.5	1392	1350		
Φ300	25°								
Φ300	28°								
Φ300	31°								

注：输入功率和转速在10℃时带网罩自由通风时测定；风量Q为零风压时的估算值。

6.风量曲线图



注1：曲线在10℃时带网罩由风管试验测定，效率 η 为风机整机效率，为空气功率与电功率之比

注2：曲线中-01表示用EC3501节能电机驱动时测试的结果；-02表示用EC3502节能电机驱动时测试的结果



1.PRODUCTS INTRODUCTION

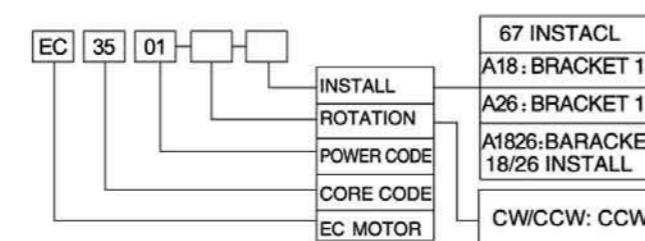
EC35 series energy saving motor made by plastic and aluminum alloy, combine end cover, low power high efficient permanent magnet brushless, protect level is IP55, working environment temperature is -10~+50°C. Motor with three different install method, used for instead shaded pole motor.

Mainly capable

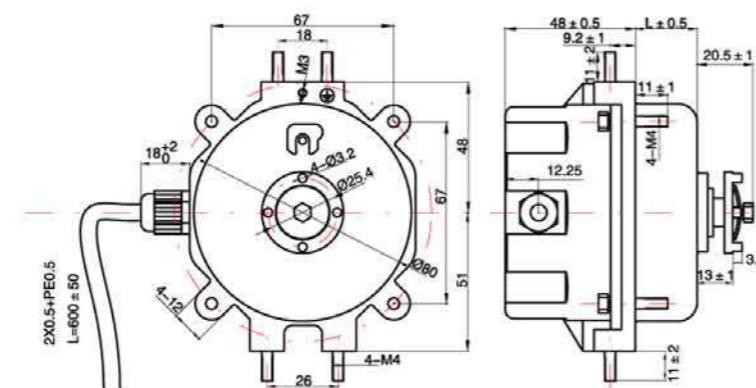
- Mainly capability.

 - 1) Motor with permanent magnet brushless DC motor, low vibration, lower noise, efficient higher than ErP 2013 require.
 - 2) Motor with double insulation, more safe.
 - 3). Motor with automatic voltage regulation function, the voltage suitable range is more big, with AC $230V \pm 10\%$, 50Hz~60Hz.
 - 4). Motor with low noise ball bearing, long life, stable quality.
 - 5). Motor with overload voltage, overload current and overload heat protector, when the motor working if there have any restart situation please check if the motor with and overload working.
 - 6). Motor with starting and blocking protection, when start vibration for twice or three times is normal phenomenon.

2. Mode



3. Installation diagram shape



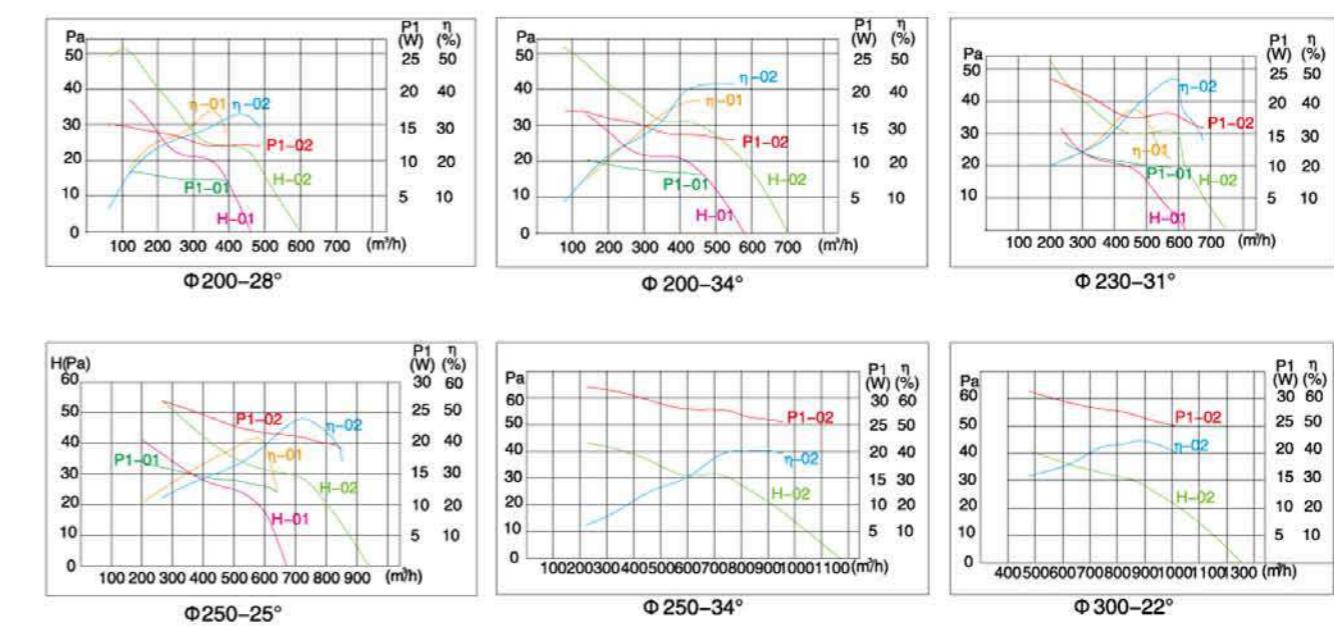
4. EC motor mainly rated parameters

Model	L	Rated output (W)	Rated speed (r/min)	Rated current (A)	Weight (g)	Notice
EC3501	22.8	7.35	1350	0.14	540	
EC3502	22.8	14.7	1350	0.28	550	
EC3503	28.8	22	1350	0.41	800	

5. Aluminum blade running parameters

Notice: Environment temperature 10°C, input power and speed with grill air flow. Air volume Q estimate when the air pressure is 0.

6 Air volume cur



NOTE1: above curve tested by air hose with grill under 10°C, efficient η is overall efficiency of the motor, ratio between air power and electric power

NOTE2: above curve-01 means the testing result for E03501 energy saving motor under operating;
above curve-02 means the testing result for E03502 energy saving motor under operating



MaEr Fan Motor

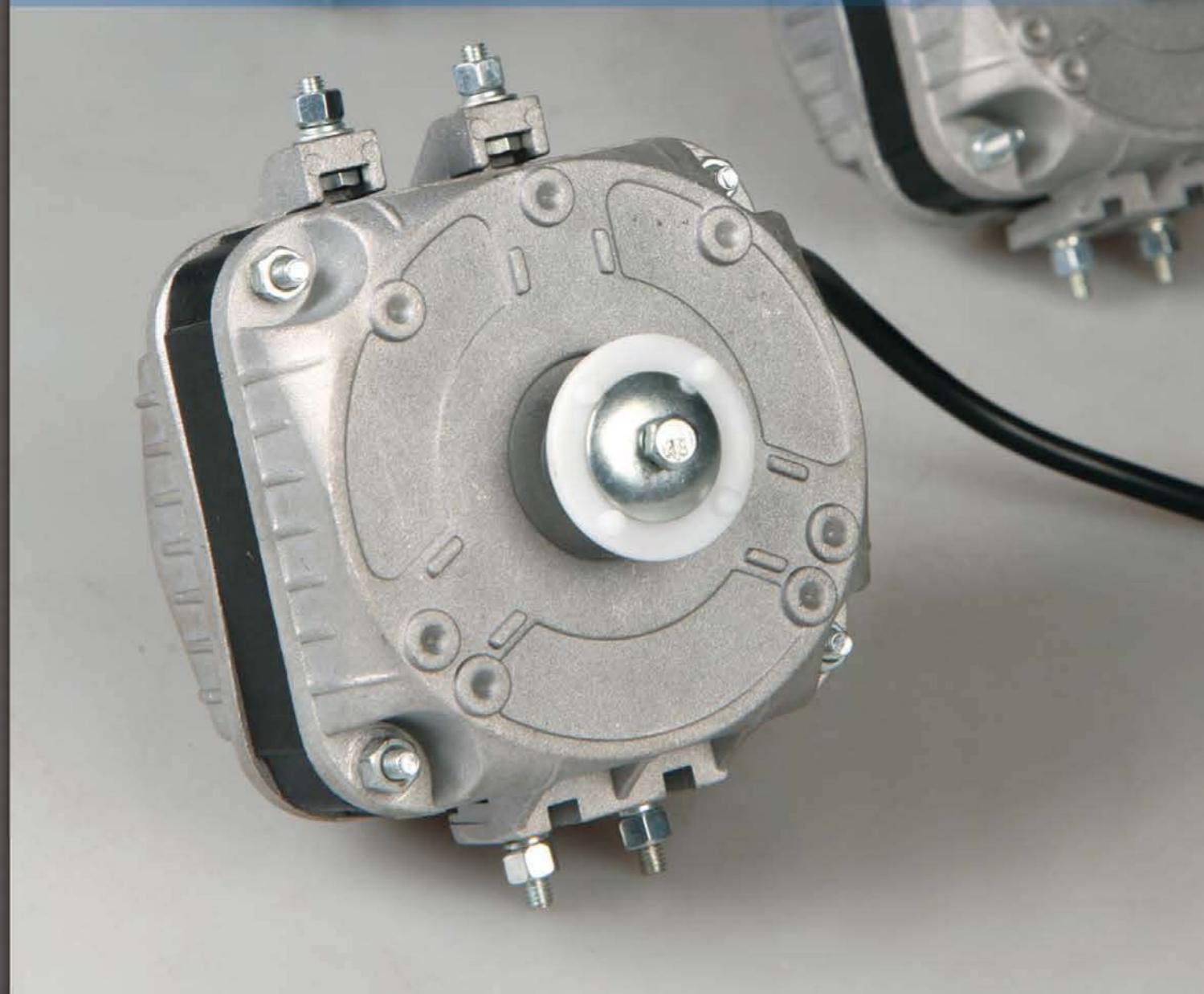
Professional · Honest · Human Oriented



maerfanmotor@gmail.com
maerwdj@yahoo.com.cn

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**罩极电机系列
SHADED POLE MOTOR**

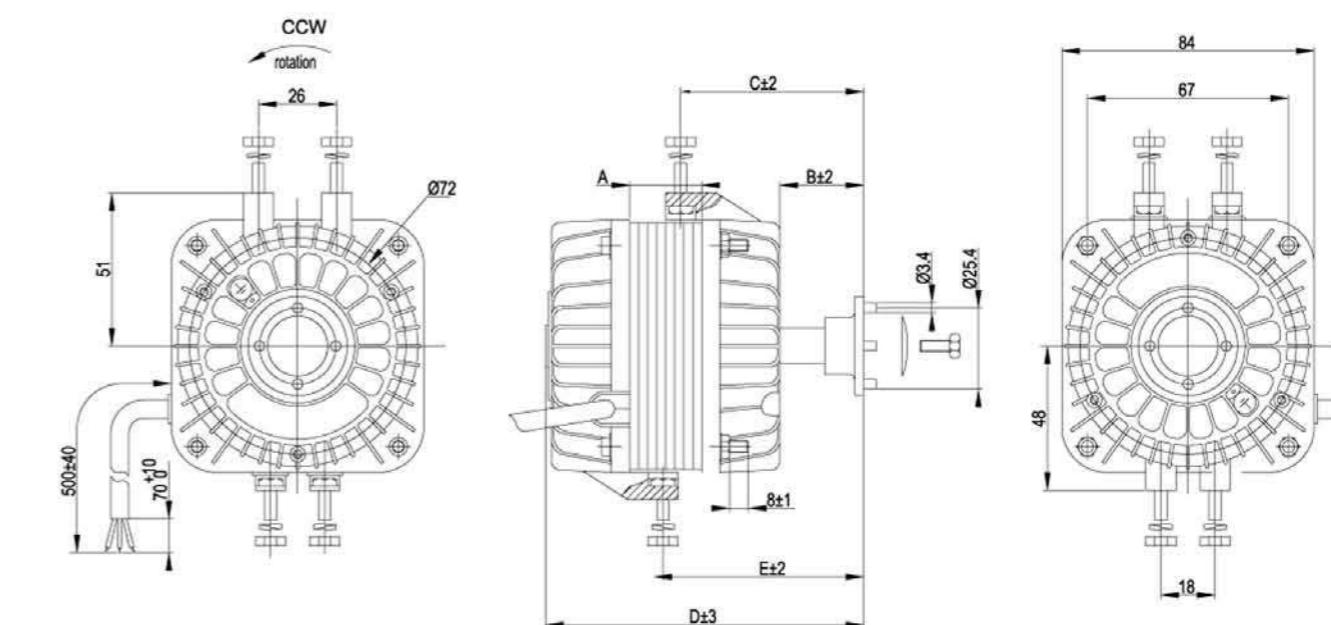


SHADED POLE MOTOR

**罩极电机
SHADED POLE MOTOR**



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SHADED POLE MOTOR

型号	电压	频率	输出功率	额定功率	额定电流	额定转速	净重	风叶尺寸	A	B	C	D
TYPE	VOLTAGE V	FREQUENCY Hz	OUTPUT W	RATED INPUT W	RATED CURRENT A	RATED SPEED r/min	NET WEIGHT KG	FAN BLADE mm	mm	mm	mm	mm
YZF3-13	220-240	50/60	3	26	0.17	1300	0.8	φ172	13	12	-	78
YZF5-13	220-240	50/60	5	30	0.20	1300	0.8	φ200	13	12	-	78
YZF7-20	220-240	50/60	7	31	0.23	1300	1.1	φ230	19	13	-	85
YZF10-20	220-240	50/60	10	36	0.25	1300	1.1	φ230	19	13	-	85
YZF16-25	220-240	50/60	16	60	0.45	1300	1.4	φ254	25	14	-	92
YZF18-30	220-240	50/60	18	70	0.50	1300	1.5	φ254	30	17	-	101
YZF25-40	220-240	50/60	25	90	0.70	1300	1.8	φ300	40	18	-	112
YZF34-45	220-240	50/60	34	110	0.85	1300	2.0	φ300	45	22	-	121