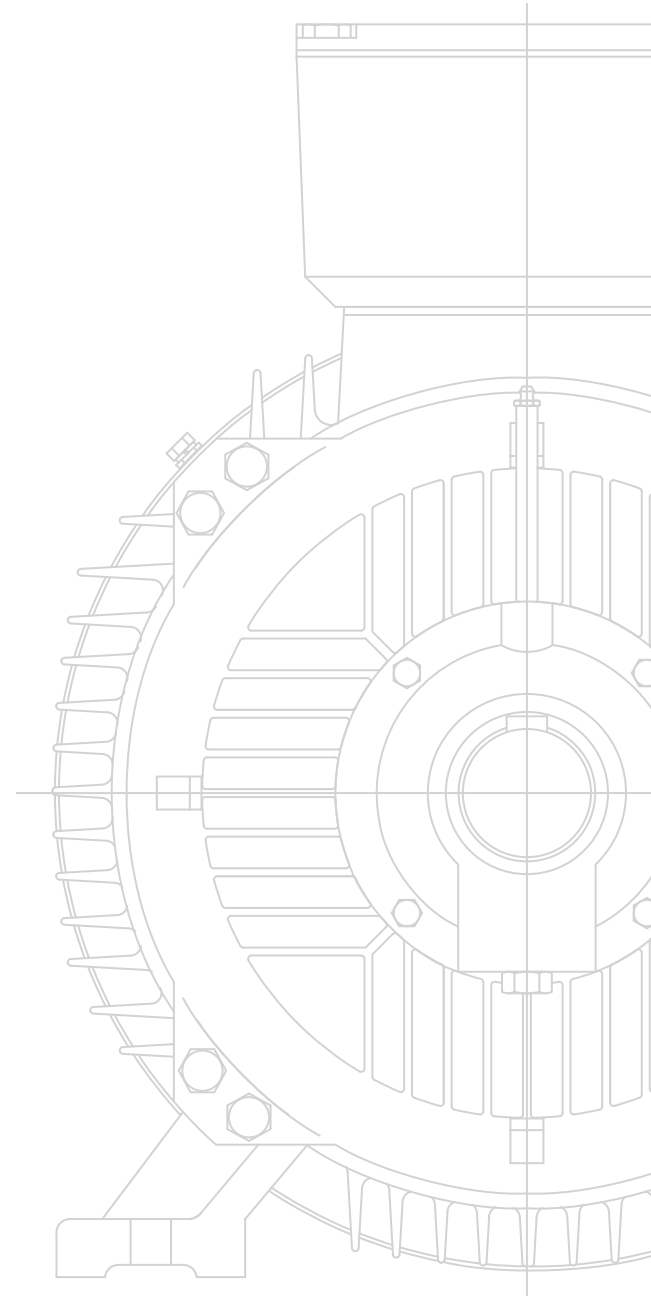




# Motor

## Product Manual

传递无限动力 转动精彩世界



无锡市亨达电机有限公司  
WUXI HENGDA MOTORS CO.,LTD.

24h服务热线  
**4000-999-510**

地址：江苏省无锡市新吴区城南路218号  
电话：4000-999-510 0510-68885100 68885200  
传真：0510-68885099  
邮编：214028  
网址：www.hengdamotor.com

Add: No. 218, Chengnan Road, Xinwu District,  
Wuxi City, Jiangsu Province, China  
Tel: 4000-999-510 0510-68885100 68885200  
Fax: 0510-68885099  
Postal Code: 214028  
Https: // www.hengdamotor.com



无锡市亨达电机有限公司  
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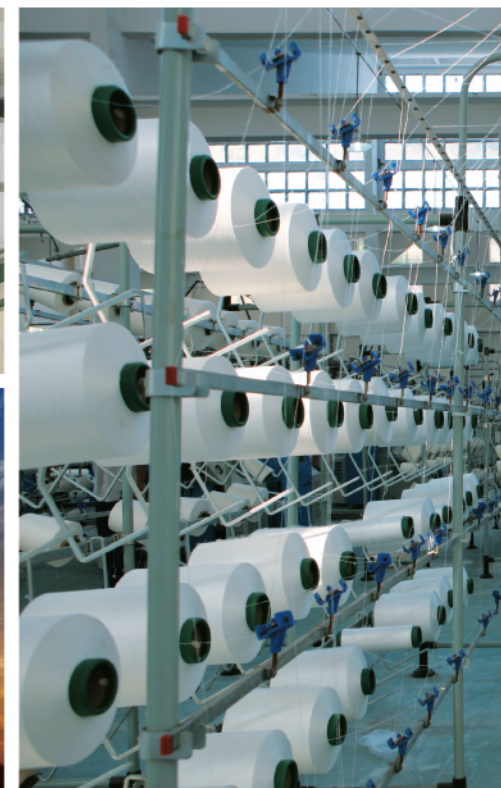
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## 公司简介

### Company Profile

无锡市亨达电机有限公司位于无锡市高新技术开发区，注册资金8000万元，拥有400余名多年从事电机制造的专业员工。亨达电机拥有超过20年的电机制造历史，积累了丰富的电机制造经验。公司努力以技术创新来推进企业的高速发展，成立了无锡市亨达电机有限公司技术研究院。2018年公司获得了国家高新技术企业称号。公司先后通过了ISO9001:2015版质量管理体系认证；中国质量认证中心的CCC安全认证、CQC安全认证及节能产品认证；欧盟CE安全认证；特种设备型式试验合格证、出口产品质量许可证及船用电机的型式认可证书。Y2VP系列变频调速三相异步电机连续多年被上海电机行业协会评为“行业名优产品”。

公司主要产品有通用电机、纺织电机、变频电机、冶金起重电机、起重变频电机、主轴马达、力矩电机、制动电机、稀土永磁同步电机、水冷电机、橡胶机电机、磁阻开关电机、船用电机及直驱电机等18个系列。其中变频电机、纺织专用电机、耐高温电机曾获得江苏省高新技术产品。

公司奉行以科技为先导，以服务为中心，以质量为基础的宗旨，从硬件和软件两方面着手抓质量管理。一方面不断引进高层次的技术、管理人才，建立了有效、可靠的技术、质量管理体系；另一方面加大技术改造和设备改造的力度，投入先进的设备和检测仪器控制和把关质量。公司现有员工400余名，其中大专以上学历100余名。目前公司拥有先进的主要加工设备280多台套，关键金加工工序全部采用数控设备加工，出厂试验采用全电脑测试系统，主要电气性能试验测试设备齐全，具有年生产电机15万台，150万千瓦的生产能力。

公司拥有专业的技术和售后服务团队，可以第一时间为您提供专属的技术及售后服务支持。

亨达公司凭借丰富的电机制造经验，专业的电机技术资源，致力于为客户提供节能、高效、稳定、高性价比的电机解决方案。

合作共赢、持续发展！一直是我们的追求！亨达有您更精彩！

Wuxi Hengda Motors Co., Ltd. is located in Wuxi High-tech Development Zone, with a registered capital of 80 million yuan and more than 400 professional employees who have been engaged in motor manufacturing for many years. Hengda Motor has more than 20 years of motor manufacturing history and has accumulated rich experience in motor manufacturing.

The company strives to promote the rapid development of the enterprise with technological innovation, and establishes the Technology Research Institute of Wuxi Hengda Motor Co., Ltd. In 2018, the company won the title of national high-tech enterprise. The company has successively passed ISO9001:2015 quality system certification, CCC safety certification, CQC safety certification and energy-saving product certification of China Quality Certification Center; EU CE safety certification; special equipment type test certificate, export product quality license and marine motor Type Approval Certificate. Y2VP series variable frequency three-phase asynchronous motor has been rated as Industry Famous Product by Shanghai Electric Motor Industry Association for many years. The company's main products are general-purpose motors, textile motors, VFD motors, metallurgical hoisting motors, hoisting variable frequency motors, spindle motors, torque motors, brake motors, rare earth permanent magnet synchronous motors, water-cooled motors, rubber machine motors, reluctance switch motors and there are 18 series in total. The frequency conversion motor, textile special motor and the

high temperature motor have won the high-tech products of Jiangsu Province.

The company has been paying more attention in engineering, service and quality. On the one hand, it continuously introduces high-level technical and management talents, and establishes an effective and reliable technology and quality management system; The company has more than 400 employees, including more than 100 college graduates. At present, the company has more than 280 sets of advanced main processing equipment. The key metal processing procedures are all processed by NC equipment. The factory test adopts a full computer testing system. The main electrical performance testing and testing equipment is fully equipped. It has an annual production capacity of 150,000 sets of motors and 1.5 million kilowatts

The company has a professional technical and after-sales service team, which can provide with exclusive technical and after-sales service support as soon as possible.

With extensive motor manufacturing experience and professional technical resources, Hengda is committed to providing customers with energy-saving, efficient, stable and cost-effective motor solutions.

Win-win cooperation and sustainable development is always our pursuit! Hengda's successful because of you.



# 资质荣誉

Honor and Qualifications

## 致力于为客户提供节能、高效、稳定、高性价比的电机解决方案

Providing customers with energy-saving, efficient, stable and cost-effective motor solutions





## 订货说明 Notice on Order

### 订货须知

1. 订货前, 请先查阅产品目录, 明确所需产品的型号规格等数据。如所需品种、规格与目录中有出入, 请即与我厂联系。如有特殊要求, 请事先提出具体而明确的要求, 与我厂有关部门协商, 经同意后签订合同或试制协议。
  2. 订货时请注明电动机型号、功率、电压、转速、工作制、结构及安装形式、励磁方式、励磁电压、出轴数、出线盒位置、旋转方向以及所需附件、备品名称等。
  3. 如使用环境特殊, 需要湿热带型, 原型号后面请注明“TH”。
- 备注: 样本中所提供的数据仅供用户参考, 为了不断采用新技术, 表中的数据会有所变动。

### 以下客户依个别需求选购:

- 特殊安装尺寸及轴伸尺寸
- 防护等级IP56
- 空间加热器
- 热保护器
- 振动探测器
- 轴承温度探测PT100
- 绕组温度探测
- 低振动低噪声
- 特殊涂装
- 特殊电压、特殊频率
- 铝机座
- 其他

### 包装

- 电动机采用木箱包装, 并在电动机上包塑料袋。包装箱外壁的文字和标志内容如下:
- a) 制造厂名称
  - b) 电动机型号、出厂编号
  - c) 电动机净重及毛重
  - d) 箱子外形尺寸
  - e) 按GB191标有“向上”、“防湿”、“由此吊起”等图示标记。

### 运输与储存

- 电动机允许用任何运输工具运输, 运输中严禁强烈撞击和直接淋雨雪。
- 电动机应贮存通风干燥、无腐蚀性气体的场所。

### 随机文件

- 每台电动机随下列文件, 文件放在防潮的袋内并固定在包装箱内:
- a) 合格证
  - b) 使用维护说明书

1. Please refer to our catalogue before ordering. If the types, ratings you need are not covered by our booklet please contact us. Should you have particular needs, please offer us specific proposal in advance. A contract or polot production agreement may be made when the requirements are fixed by common consent.
  2. Please write clearly the type, output, voltage, spe, duty, type of construction, excitation, field voltage, No. of shaft-end, location of terminal box, necessary accessories and spare parts etc.
  3. If the humid-tropical type required, please mark “TH” behind the orginal type number.
- Remarks: The data for the user reference are provided in the sample, in order to use the new technology unceasingly, the data in the table will change.

### Motor special options

Special mounting and shaft dimension	Winding temp. protector
IP56 Protection class: IP56	Low vibration & noise
Space heater	Special coating
Thermal protector	Special Voltage & frequency
Vibration detector	Alu. frame
PT100 Bearing PT100	Others

### Package

- The motor is packed in a wooden box and wrapped in a plastic bag on the motor, the mark includes the following,
- a) Manufacturer
  - b) Motor type and serial no.
  - c) Net and gross weight
  - d) Packing dimension
  - e) The marks according to GB 19, such as Lift only here, etc.

### Transportation and storage

- The motor is allowed to be transported with any means of transport, and strong impact, rain and snow are strictly prohibited during transport. The motor should be stored in a ventilated, dry, non-corrosive location.

### Documents

- Each motor is accompanied by the following documents, which are stored in a moisture-proof bag and fixed on package,
- a) Qualified certificate
  - b) Maintenance instructions

## 概述 Overview

### 适应环境

- 环境温度范围: -15~40°C  
 环境湿度: 低于相对湿度90%  
 海拔高度: 海拔1000m以下

### 工作环境

- 环境场所: 无腐蚀性气体、无粉尘、无重金属污染、无火焰、盐类无结晶场所。

### 应用

- 电源条件:  
 电压变动范围±5%, 频率变动范围±2%及电压频率合并变动范围±5%
- 客户选用: 以下客户可依个别需求选购
- 防护等级IP56
  - 空间加热器
  - 热保护器
  - 振动探测器
  - 特殊安装尺寸及轴伸尺寸
  - 低振动噪声
  - 轴承温度探测PT100(中心高H180及以上)
  - 绕组温度探测PT100
  - 特殊涂装
  - 其它

### 电压、频率

- 各种型号的电动机可以按以下要求供货: 额定电压为220V-△/380V-Y、380V-△/660V-Y, 电源频率为50Hz。这些规格符合IEC60038标准。允许电压频率变动范围为±5%。

### Ambient

- Temperature range: -15~40°C  
 Ambient humidity: 90% less than relative humidity  
 Altitude: less than 1000m above sea level

### Work Condition

- Ambient condition: no causticity gas, no dust, no heavy mental pollution, no flame, no salty, no crystal.

### Application

- Supply power:  
 Voltage variable: ±5%, frequency variable: ±2%, combine voltage and frequency variable: ±5%
- The following as options or cumstomera' request.
- Protection class IP56
  - Space heater
  - Heat protector
  - Vibration detector
  - Special mounting dimension and shaft dimension
  - Low vibration and low noise
  - Bearing thermometer PT100(frame size H180 and above)
  - Winding thermometer PT100
  - Special painting
  - Others

### Voltage、Frequency

- All the motors can be supplied according to the following standard:  
 Rated voltage: 220V-△/380V-Y, 380V-△/660V-Y. Frequency: 50Hz. These stand and comply with IEC60038 of voltage deviation ±5%.



## 合理的结构设计

### 灵活的引出线方向

电机出线盒的安装可以在电机的左侧、顶部及右侧,同时接线盒自身可旋转4\*90安装,用户在订货时可指定接线盒的方向及出线口的方向。

### 美观的电机造型

机座散热筋设计成水平、垂直分布,端盖、接线盒及风扇均为全新设计,外形别致美观。

### 牢固的零部件连接

执行电机行业标准,提高零部件连接可靠性。

## 优越的电机性能

### 高性能的防护等级

根据IEC60034-5标准(防止触及电动机内部的带电部件和转动部件上,避免灰尘的有害沉淀,防止任何方向的水滴溅射),承受任何方向的喷水无有害影响。如有特殊要求,电机照IP56防护等级进行设计。它们可以用于含尘的或潮湿的环境中,可按用户要求提供更高要求的防护等级。

### 提高绝缘性能,增加电机使用寿命

标准电机采用了F级绝缘系统,并按B级考核(80k)增加了电机运行的可靠性,提高了电机的使用寿命,还可以按用户要求提供更高等级的绝缘设计。

### 优良的转子加工制造工艺

每个转子加工完成后,都会做好妥善防护,并刷涂防护涂层。

### 选用高性能的轴承及润滑脂

轴承选用高性能的新型润滑脂,保证轴承关键部件连续长期可靠运行。

## 冷却与通风

机座号为80至355的电动机装有径流(离心)式冷却风扇,其冷却效能与电动机的转动方向无关(冷却方法符合IEC60034-6标准的IC411)。

另外可以换装独立强迫冷却风机(冷却方式符合IEC60034-6标准的IC416)。

## Mechanical Design

### Terminal box

Terminal boxes are mounted in basic design on the right side of the motor. The terminal boxes can be turned 4\*9 to allow cable entry from either side. Can be delivered also solution with terminal box on the top or left side.

### Polished appearance

The frame, cooling ribs, terminal box and fan cover have been reshaped to meet customers' design preference.

### Solid connection

Comply with motor assembly standard, improve thd reliability of the parts connectio.

## High Quality Performance

### High degrees of protection

All of the motors are designed as IP56 protection degrdd, higher protection degree than IP56 can be provided acc. To customers' requirement.

### Class F insulation offers higher reliability and security

Standard motors ard designde for class F and used in class B.

### Excellent rotor process craft

After accomplish each rotor process, all the rotors ard proper protected, and spray the corrosion-resistant paint.

### Choose higher capability bearing and grease

Choose higher capability grease, assure long credible operation of the bearing.

## Cooling and Ventilation

Standard motors with frame sizes 80to 355 are fitted with a radial-flow fan which functions independtly of rotation (cooling method IC411 to IEC 600346-6).

Additionally, an independent forced cooling fan can be replaced, (cooling method IC416 to IEC60034-6)

## 额定输出 Rated Output

额定输出是指:符合IEC60034-1标准的要求,电源电压为380V,频率为50Hz,冷却介质温度(CT)为40°C,设备安装地点的海拔高度在1000m以下的情况,连续工作可以允许的输出。

如果实际的条件偏离规定的数值,那么应该根据下表中规定的降容系数,降低电动机允许的最大输出。

海拔高度,单位:m

冷却介质温度,单位:°C

The rated output refers to continuous duty according to IEC 60034-1 at a frequency of 50Hz, a coolant temperature (CT) of 40°C and a site altitude of up to 1000m above sea level.

If the actual operating conditions deviate from this class, the maximum output should be adjusted according to the fol-lowing table.

Altitude above sea level (ASL) , in

Coolant temperature , in: °C

冷却介质温度 海拔	<30	30-40	45	50	55	60
1000	1.07	1.00	0.96	0.92	0.87	0.82
1500	1.04	0.97	0.93	0.89	0.84	0.79
2000	1.00	0.94	0.90	0.86	0.82	0.77
2500	0.96	0.90	0.86	0.83	0.78	0.74
3000	0.92	0.86	0.82	0.79	0.75	0.70
3500	0.88	0.82	0.79	0.75	0.71	0.67
4000	0.82	0.77	0.74	0.71	0.67	0.63

## 过载倍数

根据IEC60034标准的要求,各种电动机都是按照在额定电压和频率下能承受1.5倍额定电流,持续时间2分钟的条件进行设计。

## Overload Times

According to IEC 60034, the motors are intended to withstand 1.5 times the rated current for 2 minutes at rated voltage and frequency.



### 安装结构型式 Mechanical Design

1	B3 机座带底脚端盖无法兰	B3 With feet and without flange on the end-dhield
2	B5 机座不带底脚端盖有法兰	B5 Without feet and with flange on the end-dhield
3	B35 机座带底脚端盖有法兰	B35 With feet and with flange on the end-dhield

结构型式 Type of Construction	IEC34-7		可提供的机座号 Available Frame Number
	代码 I Code I	代码 II Code II	
	IMB3	IM1001	H80~355
	IMB5	IM3001	H80~280
	IMB6	IM1051	H80~160
	IMB7	IM1061	H80~160
	IMB8	IM1071	H80~160
	IMB14	IM3601	H80~132
	IMB34	IM2101	H80~132
	IMB35	IM2001	H80~355

结构型式 Type of Construction	IEC34-7		可提供的机座号 Available Frame Number
	代码 I Code I	代码 II Code II	
	IMV1	IM3011	H80~355
	IMV3	IM3031	H80~160
	IMV5	IM1011	H80~160
	IMV6	IM1031	H80~160
	IMV15	IM2011	H80~160
	IMV15	IM2111	H80~112
	IMV18	IM3611	H80~160

### 轴承 Bearings

机座号 Frame Size	轴伸端/Driving End		非轴伸端/Non-Driving End	
	2极/Poles	4,6极/Poles	2极/Poles	4,6极/Poles
80	6204-2Z-C3	6204-2Z-C3	6204-2Z-C3	6204-2Z-C3
90	6205-2Z-C3	6205-2Z-C3	6205-2Z-C3	6205-2Z-C3
100	6206-2Z-C3	6206-2Z-C3	6206-2Z-C3	6206-2Z-C3
112	6306-2Z-C3	6306-2Z-C3	6306-2Z-C3	6306-2Z-C3
132	6308-2Z-C3	6308-2Z-C3	6208-2Z-C3	6208-2Z-C3
160	6309-2Z-C3	6309-2Z-C3	6209-2Z-C3	6209-2Z-C3
180	6311-C3	6311-C3	6211-C3	6211-C3
200	6312-C3	6312-C3	6212-C3	6212-C3
225	6313-C3	6313-C3	6312-C3	6312-C3
250	6314-C3	6314-C3	6313-C3	6313-C3
280	6314-C3	6317-C3	6314-C3	6314-C3
315	6317-C3	6319-C3/NU319	6317-C3	6319-C3
355	6317-C3	6322-C3/NU322	6317-C3	6322-C3
400	6317-C3	6326-C3/NU326	6317-C3	6326-C3

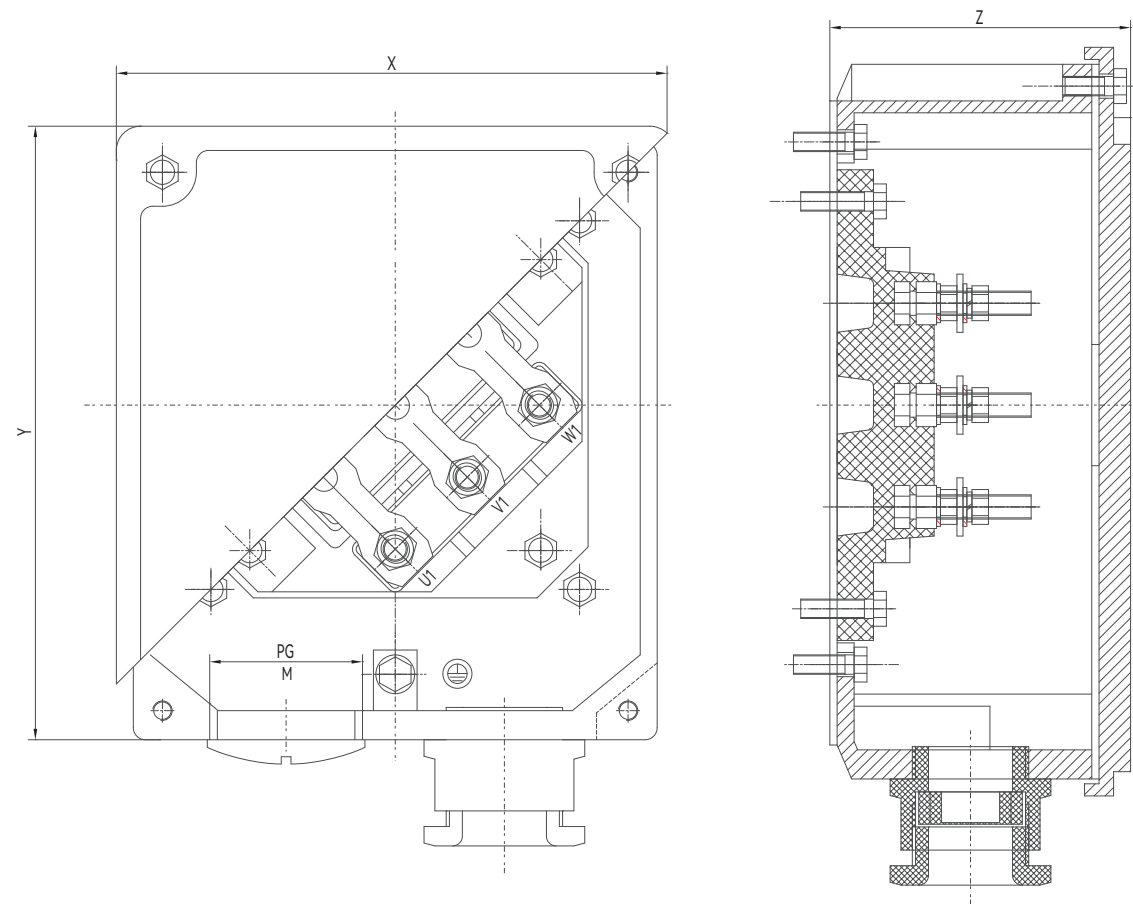
### 最大悬臂力 Maximum Radial Force

机座号 Frame Size	极数 Poles	悬臂力,单位:N Radialforc,in:N
80	2	640
	4	800
	6	920
90	2	700
	4	870
	6	1,000
100	2	970
	4	1,205
	6	1,390
112	2	1,240
	4	1,550
	6	1,790
132	2	1,485
	4	1,685
	6	2,156
160	2	1,570
	4	1,925
	6	2,125

机座号 Frame Size	极数 Poles	悬臂力,单位:N Radialforc,in:N
180	2	3,010
	4	3,695
	6	4,290
200	2	4,035
	4	4,830
	6	5,520
225	2	4,420
	4	5,450
	6	6,160
250	2	5,035
	4	6,190
	6	7,060
280	2	3,690
	4	9,220
	6	10,525
315	2	3,950
	4	9,900
	6	12,109



### 接线盒 Terminal Box



机座号 Frame Size	出线螺孔直径 Dia. of the Threda(mm)	外形尺寸 X×Y×Z(mm)
80	1-M24×1.5	103×103×55
90~100	1-M24×1.5	110×110×62
112~132	2-M30×2	124×124×70
160~180	2-M36×2	158×166×80
200~225	2-M48×2	200×220×105
250~280	2-M64×2	225×250×115
315	2-M64×2	308×340×165
355	2-M72×2	372×408×190

### 绝缘等级

电动机的绝缘系统由给定的绝缘等级根据其热阻确定。这种热电阻应通过电机绝缘系统中使用的整套电绝缘材料来保证。

热阻分类与电动机额定运行条件下绝缘热点的温度有关，允许平均温度的最高允许升高。

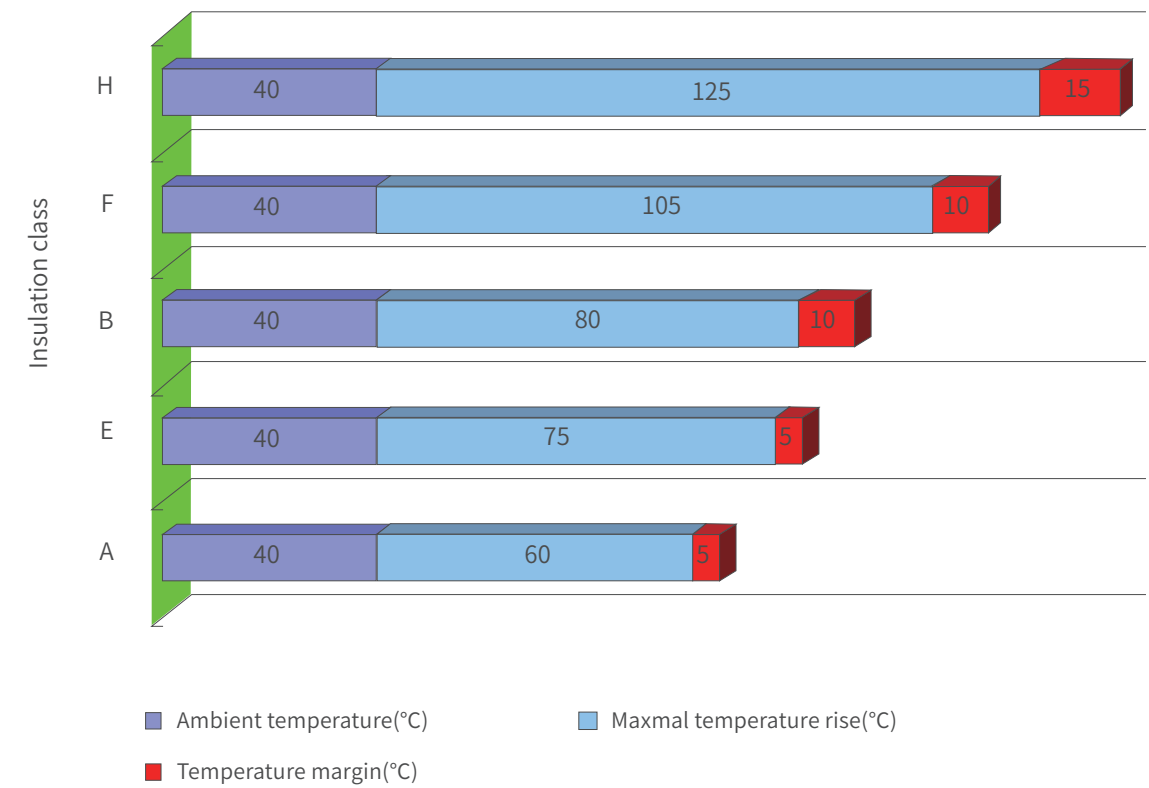
选择该温升时，应确保在最高允许环境温度下，绝缘热点的温度不会超过给定热阻等级的指定值。

### Insulation classification

The insulation system of an electric motor is determined by a given insulation class on the basis of its thermal resistance. This thermal resistance should be guaranteed by the entire set of electric insulating materials used in the motor insulating system.

Thermal resistance classification is related to the temperature of the hotspot in the insulation occurring during rated operating conditions of the electric motor, allowing for the highest permissible rise in average temperature.

This rise should be selected so that at the highest permissible ambient temperature, the temperature of the hotspot in insulation will not exceed the value assigned to a give thermal resistance class.





## 防护等级 IP

根据IEC60034-5标准, 电机配有IP代码, 该代码决定了外壳对接触危险部件、引入异物和/或水的防护等级。

IP代码由IP代码字母和两个必需数字组成, 意思是:			
第一位 (防止固体异物进入)		第二位数字 (防止水渗透及其有害影响)	
IP	定义	IP	定义
0	没有保护	0	没有保护
1	直径 $\geq$ 50mm	1	垂直下降
2	直径 $\geq$ 12.5mm	2	滴水(up to 15°)
3	直径 $\geq$ 2.5mm	3	防淋水
4	直径 $\geq$ 1.0mm	4	防溅
5	有限防尘保护	5	防喷水
		6	防强烈的喷水
		7	短时间浸泡
		8	永久浸泡

## Degree of protection IP

According to the IEC60034-5 standard the electric motors are provided with IP code which determines the degree of protection ensured by the housing against access to dangerous parts, introducing foreign matter and/ or water.

The IP code consists of IP code letters and two obligatory digits, meaning:			
The first digit (protection from introduction of solid foreign matter)		The second digit (protection against penetration of water and its harmful effects)	
IP	Definition	IP	Definition
0	No protection	0	No protection
1	Diameter $\geq$ 50mm	1	Dropping vertically
2	Diameter $\geq$ 12.5mm	2	Dropping (up to 15°)
3	Diameter $\geq$ 2.5mm	3	sprayed
4	Diameter $\geq$ 1.0mm	4	Splashed
5	Limited protection against dust	5	In stream
		6	In strong steam
		7	Under short-time immersion
		8	Under permanent immersion

## 振动等级

类别	轴中心高 (mm)	56 $\leq$ H $\leq$ 132			132<H $\leq$ 280			H>280		
		安装方式	位移 ( $\mu$ m)	速度 (mm/s)	加速度 ( $m/s^2$ )	位移 ( $\mu$ m)	速度 (mm/s)	加速度 ( $m/s^2$ )	位移 ( $\mu$ m)	速度 (mm/s)
A	自由悬置	25	1.6	2.5	35	2.2	3.5	45	2.8	4.4
	刚性安装	21	1.3	2.0	29	1.8	2.8	37	2.3	3.6
B	自由悬置	11	0.7	1.1	18	1.1	1.7	29	1.8	2.8
	刚性安装	-	-	-	14	0.9	1.4	24	1.5	2.4

- A级用于无特殊振动要求的电机。
- B级用于有特殊振动要求的电机
- 位移与速度、速度与加速度的界面频率分别为10hz和250hz。

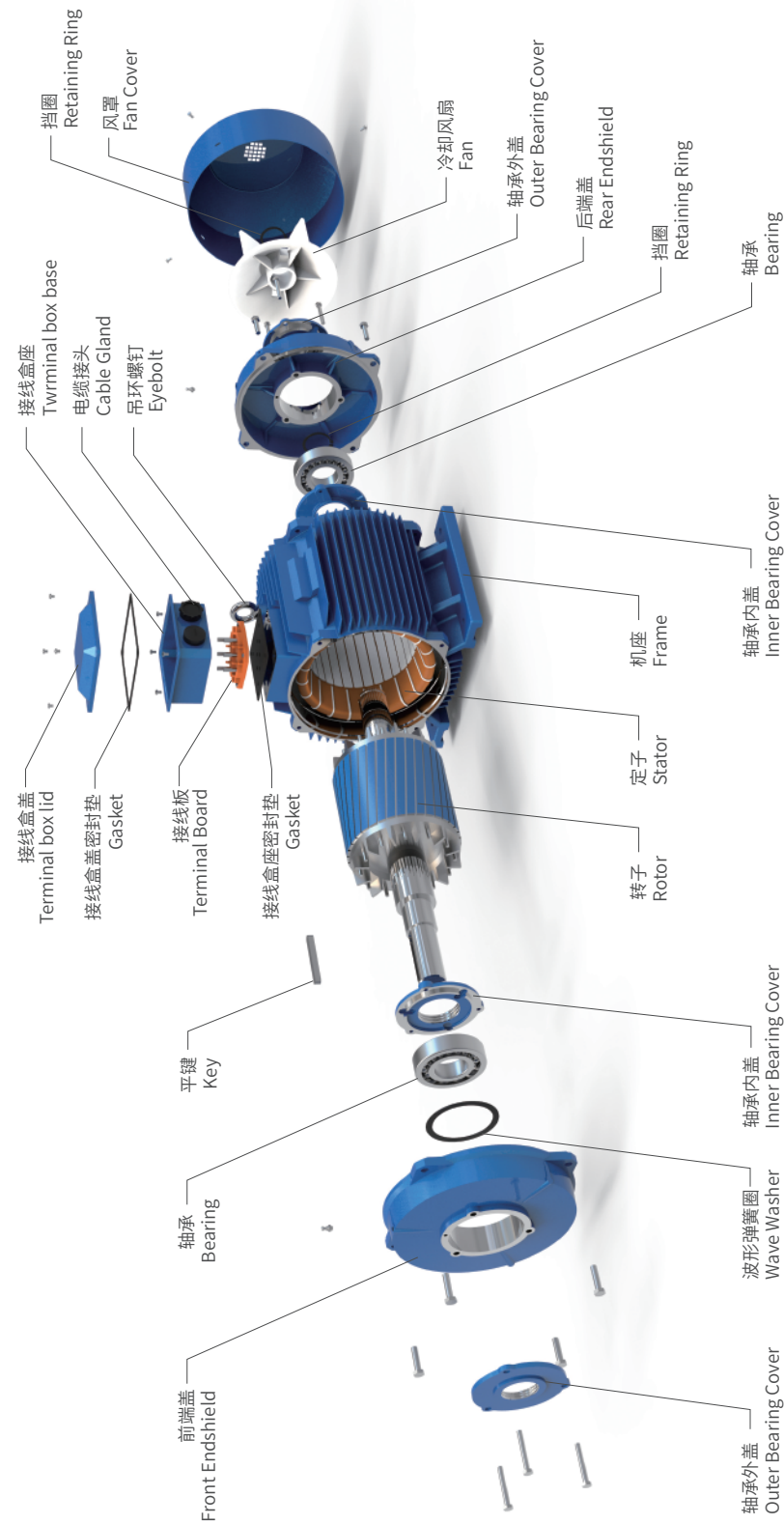
## Vibration Level

Level	Shaft height H (mm)	56 $\leq$ H $\leq$ 132			132<H $\leq$ 280			H>280		
		Motor installation	Seff ( $\mu$ m)	Veff (mm/s)	Aeff ( $m/s^2$ )	Seff ( $\mu$ m)	Veff (mm/s)	Aeff ( $m/s^2$ )	Seff ( $\mu$ m)	Veff (mm/s)
A	Free suspension	25	1.6	2.5	35	2.2	3.5	45	2.8	4.4
	Rigid mounting	21	1.3	2.0	29	1.8	2.8	37	2.3	3.6
B	Free suspension	11	0.7	1.1	18	1.1	1.7	29	1.8	2.8
	Rigid mounting	-	-	-	14	0.9	1.4	24	1.5	2.4

- Level A is to be used for motors without special vibration requirements.
- Level B is to be used for motor with special vibration requirements.
- The interface frequencies of displacement and velocity, velocity and acceleration are 10 Hz and 250 Hz respectively.



爆炸图  
Exploded View



概述

机座号: H80~H400  
功率: 0.18kW~630kW  
极数: 2P、4P、6P、8P

基本特征

绝缘等级: F(155)  
防护等级: IP55  
冷却方式: IC411、IC416  
额定电压: 380V  
接法: 3kW及以下Y接  
4kW及以上△接  
额定频率: 50Hz  
工作方式: S1  
运行条件: 户内  
环温: -15°C~+40°C  
海拔不超过1000m  
月平均最高相对湿度不超过90%

如实际使用条件特殊可参照上方参数单独定制。

If the actual working conditions are special, please refer to the above parameters for individual customization.

eg: H(180)/IP66/IC416/400V/60Hz/S2/WF1/45°C/G1500m

General introduction

Frame size: H80~H400  
Power: 0.18kW~630kW  
Poles: 2P、4P、6P、8P

General character

Insulation: F(155)  
Enclosure: IP55  
Cooling: IC411、IC416  
Voltage: 380V  
Connection: 'Y' connection for the motor of 3kW or lower  
'△' connection for the motor of 4kW or above  
Frequency: 50Hz  
Duty: S1  
Conditions: Indoor  
Ambient temperature: -15°C ~ +40°C  
Altitude should be lower than 1000m  
Relative humidity should be less than 90%

# YE3 系列

## 三相异步电动机

### YE3 series Three-phase Asynchronous Motor



YE3系列三相异步电动机,是为了建设节约型社会而开发的一种高效率节能型产品,其效率指标达到了国家中小型三相异步电动机能效限定值及能效等级GB18613-2012的2级和欧洲IE3的指标,平均效率比Y2系列电机高出4.0%。

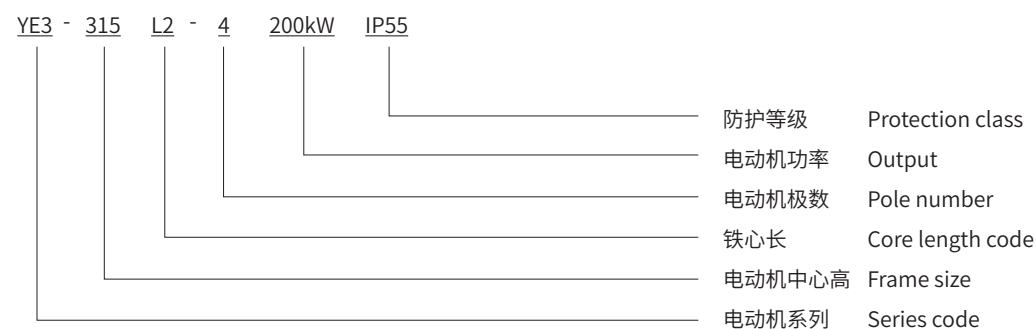
节能电机可以明显地减少预算的压力,显而易见:高的能源消耗会带来运行费用的明显增加,如果您减少这些费用,您就能增加利润,而且是纯利润,并且产品也能更加有利于保护环境,还能更加适应越来越强的节能意识和新的法律规定。

YE3 series three-phase asynchronous motor, is to build a conservation-oriented society and developed a high efficiency and energy-saving products, its efficiency reached the national small and medium-sized three-phase asynchronous motor energy efficiency limit value and energy efficiency level GB18613-2012 level 2 and European IE3 indicators, the average efficiency is 4.0% higher than the Y2 series motor.

Energy-efficient motors can significantly reduce the pressure on the budget, high energy consumption will lead to a significant increase in operating costs, if you reduce these costs, you can increase net profits, and the product can also be more conducive to the protection of the environment, but also more adaptable to the increasing awareness of energy savings and new legal regulations.

#### 型号含义 Meaning of type code

产品型号按下列顺序排列:



#### 技术数据 Technical Specifications

YE3: 2-POLE/50Hz/3000r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流	堵转转矩	最大转矩	噪声	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current	Locked Torque	Maximun Torque	Noise	Weight
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A	r/min	N.m	η%	COSΦ	I <sub>st</sub> /I <sub>N</sub>	T <sub>st</sub> /T <sub>N</sub>	T <sub>M</sub> /T <sub>N</sub>	dB(A)	Kg
YE3-80M1-2	0.75	1	1.7	1.6	2845	2.4	80.7	0.82	7.0	2.3	2.3	62	15
YE3-80M2-2	1.1	1.5	2.4	2.3	2840	3.5	82.7	0.83	7.6	2.2	2.3	62	16
YE3-90S-2	1.5	2	3.2	3.1	2840	4.8	84.2	0.84	7.9	2.2	2.3	67	22
YE3-90L-2	2.2	3	4.6	4.3	2840	7.0	85.9	0.85	7.9	2.2	2.3	67	25
YE3-100L-2	3	4	6.0	5.7	2860	9.6	87.1	0.87	8.5	2.2	2.3	74	33
YE3-112M-2	4	5.5	7.8	7.4	2890	12.7	88.1	0.88	8.5	2.2	2.3	77	40
YE3-132S1-2	5.5	7.5	10.6	10.1	2910	17.5	89.2	0.88	8.5	2.0	2.3	79	59
YE3-132S2-2	7.5	10	14.4	13.7	2905	23.9	90.1	0.88	8.5	2.0	2.3	79	62
YE3-160M1-2	11	15	20.6	19.6	2935	35.0	91.2	0.89	8.5	2.0	2.3	81	107
YE3-160M2-2	15	20	27.9	26.5	2935	47.8	91.9	0.89	8.5	2.0	2.3	81	117
YE3-160L-2	18.5	25	34.2	32.5	2935	58.9	92.4	0.89	8.5	2.0	2.3	81	134
YE3-180M-2	22	30	40.5	38.5	2940	70.0	92.7	0.89	8.5	2.0	2.3	83	169
YE3-200L1-2	30	40	54.9	52.1	2945	95.5	93.3	0.89	8.5	2.0	2.3	84	220
YE3-200L2-2	37	50	67.4	64.0	2945	117.8	93.7	0.89	8.5	2.0	2.3	84	239
YE3-225M-2	45	60	80.8	76.8	2950	143.3	94.0	0.90	8.0	2.0	2.3	86	297
YE3-250M-2	55	75	98.5	93.5	2965	175.1	94.3	0.90	8.0	2.0	2.3	89	380
YE3-280S-2	75	100	133.7	127.0	2965	238.8	94.7	0.90	7.5	1.8	2.3	91	510
YE3-280M-2	90	120	159.9	151.9	2965	286.5	95.0	0.90	7.5	1.8	2.3	91	540
YE3-315S-2	110	150	195.1	185.3	2975	350.2	95.2	0.90	7.5	1.8	2.3	92	920
YE3-315M-2	132	176	233.6	221.9	2975	420.2	95.4	0.90	7.5	1.8	2.3	92	970
YE3-315L1-2	160	215	279.4	265.5	2975	509.3	95.6	0.91	7.5	1.8	2.3	92	1080
YE3-315L2-2	200	270	348.6	331.1	2975	636.7	95.8	0.91	7.5	1.8	2.2	92	1170
YE3-355M-2	250	340	435.7	413.9	2970	795.8	95.8	0.91	7.5	1.6	2.2	100	1690
YE3-355L-2	315	420	549.0	521.5	2970	1002.8	95.8	0.91	7.5	1.6	2.2	100	1860
YE3-355X1-2	355	475	625.6	594.3	2970	1130.1	95.8	0.90	8.6	0.9	1.8	100	1960
YE3-355X2-2	400	500	704.9	669.6	2970	1273.3	95.8	0.90	8.6	0.9	1.8	100	1980
YE3-355X3-2	450	600	793.0	753.3	2970	1432.5	95.8	0.90	8.6	0.8	1.8	100	2330
YE3-355X4-2	500	670	881.1	837.1	2970	1591.7	95.8	0.90	8.6	0.8	1.8	100	2460
YE3-400M1-2	355	475	625.6	594.3	2970	1130.1	95.8	0.90	8.6	0.9	1.8	100	2370
YE3-400M2-2	400	535	704.9	669.6	2970	1273.3	95.8	0.90	8.6	0.9	1.8	100	2460
YE3-400M3-2	450	600	793.0	753.3	2970	1432.5	95.8	0.90	8.6	0.8	1.8	100	2700
YE3-400L-2	500	670	881.1	837.1	2970	1591.7	95.8	0.90	8.6	0.8	1.8	100	2900



### 技术数据 Technical Specifications

YE3: 4POLE/1500r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	噪声	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque	Noise	Weight
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A	r/min	N.m	η%	COSΦ	Ist/IN	Tst/TN	TM/TN	dB(A)	Kg
YE3-80M1-4	0.55	0.75	1.4	1.3	1380	3.5	80.8	0.75	6.6	2.4	2.3	56	14
YE3-80M2-4	0.75	1	1.8	1.7	1380	4.8	82.5	0.75	6.6	2.3	2.3	56	16
YE3-90S-4	1.1	1.5	2.6	2.5	1390	7.0	84.1	0.76	6.8	2.3	2.3	59	22
YE3-90L-4	1.5	2	3.5	3.3	1390	9.6	85.3	0.77	7.0	2.3	2.3	59	27
YE3-100L1-4	2.2	3	4.8	4.5	1410	14.0	86.7	0.81	7.6	2.3	2.3	64	34
YE3-100L2-4	3	4	6.3	6.0	1410	19.1	87.7	0.82	7.6	2.3	2.3	64	35
YE3-112M-4	4	5.5	8.4	7.9	1440	25.5	88.6	0.82	7.8	2.2	2.3	65	44
YE3-132S-4	5.5	7.5	11.2	10.7	1445	35.0	89.6	0.83	7.9	2.0	2.3	71	61
YE3-132M-4	7.5	10	15.0	14.3	1445	47.8	90.4	0.84	7.5	2.0	2.3	71	73
YE3-160M-4	11	15	21.5	20.4	1460	70.0	91.4	0.85	7.7	2.2	2.3	73	113
YE3-160L-4	15	20	28.8	27.3	1460	95.5	92.1	0.86	7.8	2.2	2.3	73	133
YE3-180M-4	18.5	25	35.3	33.5	1470	117.8	92.6	0.86	7.8	2.0	2.3	76	167
YE3-180L-4	22	30	41.8	39.7	1470	140.1	93.0	0.86	7.8	2.0	2.3	76	181
YE3-200L-4	30	40	56.6	53.8	1470	191.0	93.6	0.86	7.3	2.0	2.3	76	232
YE3-225S-4	37	50	69.6	66.1	1475	235.6	93.9	0.86	7.4	2.0	2.3	78	287
YE3-225M-4	45	60	84.4	80.2	1475	286.5	94.2	0.86	7.4	2.0	2.3	78	322
YE3-250M-4	55	75	102.7	97.6	1475	350.2	94.6	0.86	7.4	2.2	2.3	79	385
YE3-280S-4	75	100	136.3	129.5	1485	477.5	95.0	0.88	6.9	2.0	2.3	80	510
YE3-280M-4	90	120	163.2	155.1	1485	573.0	95.2	0.88	6.9	2.0	2.3	80	600
YE3-315S-4	110	150	196.8	187.0	1485	700.3	95.4	0.89	7.0	2.0	2.2	88	930
YE3-315M-4	132	176	235.7	223.9	1485	840.4	95.6	0.89	7.0	2.0	2.2	88	1010
YE3-315L1-4	160	215	285.1	270.9	1485	1018.7	95.8	0.89	7.1	2.0	2.2	88	1070
YE3-315L2-4	200	270	351.7	334.1	1485	1273.3	96.0	0.90	7.1	2.0	2.2	88	1170
YE3-355M-4	250	340	439.6	417.7	1490	1591.7	96.0	0.90	7.1	2.0	2.2	95	1720
YE3-355L-4	315	420	553.9	526.2	1490	2005.5	96.0	0.90	7.1	2.0	2.2	95	1870
YE3-355X1-4	355	475	638.5	606.5	1490	2260.2	96.0	0.88	8.4	0.9	1.8	95	1960
YE3-355X2-4	400	500	719.4	683.4	1490	2546.7	96.0	0.88	8.4	0.9	1.8	95	2120
YE3-355X3-4	450	600	809.3	768.9	1490	2865.0	96.0	0.88	8.4	0.8	1.8	95	2230
YE3-355X4-4	500	670	899.3	854.3	1490	3183.3	96.0	0.88	8.4	0.8	1.8	95	2380
YE3-400M1-4	355	475	638.5	606.5	1490	2260.2	96.0	0.88	8.4	0.9	1.8	95	2670
YE3-400M2-4	400	535	719.4	683.4	1490	2546.7	96.0	0.88	8.4	0.9	1.8	95	2800
YE3-400M3-4	450	600	809.3	768.9	1490	2865.0	96.0	0.88	8.4	0.8	1.8	95	2910
YE3-400L1-4	500	670	899.3	854.3	1490	3183.3	96.0	0.88	8.4	0.8	1.8	95	3030
YE3-400L2-4	560	750	995.9	946.1	1490	3565.3	96.0	0.89	8.5	0.8	1.8	95	3180
YE3-400L3-4	630	840	1120.3	1064.3	1490	4011.0	96.0	0.89	8.5	0.8	1.8	95	3250

### 技术数据 Technical Specifications

YE3: 6POLE/1000r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	噪声	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque	Noise	Weight
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A	r/min	N.m	η%	COSΦ	Ist/IN	Tst/TN	TM/TN	dB(A)	Kg
YE3-80M1-6	0.37	0.5	1.1	1.0	900	3.5	73.5	0.70	6.0	1.9	2.0	54	15
YE3-80M2-6	0.55	0.75	1.5	1.4	900	5.3	77.2	0.72	6.0	1.9	2.1	54	18
YE3-90S-6	0.75	1	2.0	1.9	915	7.2	78.9	0.71	6.0	2.0	2.1	57	23
YE3-90L-6	1.1	1.5	2.8	2.7	915	10.5	81.0	0.73	6.0	2.0	2.1	57	29
YE3-100L-6	1.5	2	3.8	3.6	920	14.3	82.5	0.73	6.5	2.0	2.1	61	38
YE3-112M-6	2.2	3	5.4	5.1	940	21.0	84.3	0.74	6.6	2.0	2.1	65	48
YE3-132S-6	3	4	7.2	6.8	960	28.7	85.6	0.74	6.8	2.0	2.1	69	65
YE3-132M1-6	4	5.5	9.5	9.0	960	38.2	86.8	0.74	6.8	2.0	2.1	69	73
YE3-132M2-6	5.5	7.5	12.7	12.0	960	52.5	88.0	0.75	7.0	2.0	2.1	69	82
YE3-160M-6	7.5	10	16.2	15.4	970	71.6	89.1	0.79	7.0	2.0	2.1	73	113
YE3-160L-6	11	15	23.1	22.0	970	105.1	90.3	0.80	7.2	2.0	2.1	73	134
YE3-180L-6	15	20	30.9	29.3	970	143.3	91.2	0.81	7.3	2.0	2.1	73	178
YE3-200L1-6	18.5	25	37.8	36.0	975	176.7	91.7	0.81	7.3	2.0	2.1	73	226
YE3-200L2-6	22	30	44.8	42.5	975	210.1	92.2	0.81	7.4	2.0	2.1	73	243
YE3-225M-6	30	40	59.1	56.2	980	286.5	92.9	0.83	6.9	2.0	2.1	74	294
YE3-250M-6	37	50	71.7	68.1	980	353.4	93.3	0.84	7.1	2.0	2.1	76	369
YE3-280S-6	45	60	85.8	81.6	980	429.8	93.7	0.85	7.3	2.0	2.0	78	513
YE3-280M-6	55	75	103.3	98.1	980	525.3	94.1	0.86	7.3	2.0	2.0	78	661
YE3-315S-6	75	100	143.4	136.2	985	716.3	94.6	0.84	6.6	2.0	2.0	83	910
YE3-315M-6	90	120	169.5	161.0	985	859.5	94.9	0.85	6.7	2.0	2.0	83	970
YE3-315L1-6	110	150	206.8	196.4	985	1050.5	95.1	0.85	6.7	2.0	2.0	83	1155
YE3-315L2-6	132	176	244.5	232.2	985	1260.6	95.4	0.86	6.8	2.0	2.0	83	1260
YE3-355M1-6	160	215	295.7	280.9	990	1528.0	95.6	0.86	6.8	1.8	2.0	85	1638
YE3-355M2-6	200	270	364.6	346.4	990	1910.0	95.8	0.87	6.8	1.8	2.0	85	1788
YE3-355L-6	250	340	455.7	433.0	990	2387.5	95.8	0.87	6.8	1.8	2.0	85	1931
YE3-355X1-6	315	420	609.3	578.8	990	3008.3	95.8	0.82	7.8	0.9	1.8	91	1960
YE3-355X2-6	355	475	686.6	652.3	990	3390.3	95.8	0.82	7.8	0.9	1.8	91	2200
YE3-355X3-6	400	535	764.3	726.1	990	3820.0	95.8	0.83	7.9	0.9	1.8	91	2270
YE3-400M1-6	315	420	609.3	578.8	990	3008.3	95.8	0.82	7.8	0.9	1.8	92	2410
YE3-400M2-6	355	475	686.6	652.3	990	3390.3	95.8	0.82	7.8	0.9	1.8	92	2560
YE3-400L1-6	400	535	764.3	726.1	990	3820.0	95.8	0.83	7.9	0.9	1.8	92	2770
YE3-400L2-6	450	600	859.9	816.9	990	4297.5	95.8	0.83	7.9	0.8	1.8	92	3020
YE3-400L3-6	500	670	955.4	907.7	990	4775.0	95.8	0.83	7.9	0.8	1.8	92	3310

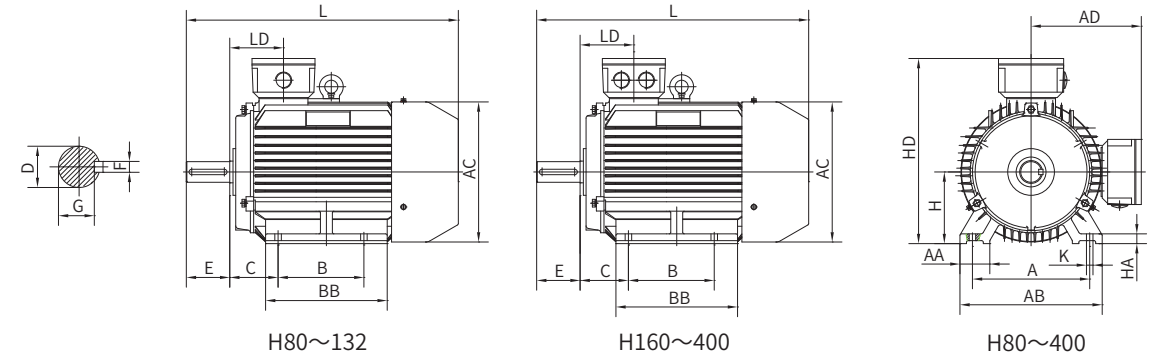
### 技术数据 Technical Specifications

YE3: 8POLE/750r/min

电机型号 Motor Type	功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	噪声	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque	Noise	Weight
	kW	HP	380V I <sub>N</sub> /A	400V I <sub>N</sub> /A	r/min	N.m	η%	COSΦ	Ist/IN	Tst/TN	TM/TN	dB(A)	Kg
YE3-80M1-8	0.18	0.24	0.8	0.7	665	2.3	58.7	0.61	5.2	1.8	1.9	52	16
YE3-80M2-8	0.25	0.33	1.0	0.9	665	3.2	64.1	0.61	5.7	1.8	1.9	52	19
YE3-90S-8	0.37	0.55	1.3	1.3	685	4.7	69.3	0.61	6.2	1.8	1.9	56	24
YE3-90L-8	0.55	0.75	1.9	1.8	685	7.0	73.0	0.61	5.9	1.8	2.0	56	30
YE3-100L1-8	0.75	1	2.3	2.2	705	9.6	75.0	0.67	6.2	1.8	2.0	59	39
YE3-100L2-8	1.1	1.5	3.1	3.0	705	14.0	77.7	0.69	6.2	1.8	2.0	59	45
YE3-112M-8	1.5	2	4.1	3.9	705	19.1	79.7	0.70	6.7	1.8	2.0	61	51
YE3-132S-8	2.2	3	5.7	5.5	720	28.0	81.9	0.71	6.7	1.8	2.0	64	66
YE3-132M-8	3	4	7.5	7.1	720	38.2	83.5	0.73	6.9	1.8	2.0	64	78
YE3-160M1-8	4	5.5	9.8	9.3	725	50.9	84.8	0.73	6.9	1.9	2.0	68	85
YE3-160M2-8	5.5	7.5	13.1	12.4	725	70.0	86.2	0.74	6.9	1.9	2.0	68	93
YE3-160L-8	7.5	10	17.4	16.5	725	95.5	87.3	0.75	6.6	1.9	2.0	68	116
YE3-180L-8	11	15	25.2	23.9	730	140.1	88.6	0.75	6.6	2.0	2.0	70	182
YE3-200L-8	15	20	33.5	31.8	730	191.0	89.6	0.76	6.8	2.0	2.0	73	228
YE3-225S-8	18.5	25	41.0	39.0	735	235.6	90.1	0.76	6.8	1.9	2.0	73	274
YE3-225M-8	22	30	47.3	44.9	735	280.1	90.6	0.78	7.0	1.9	2.0	73	294
YE3-250M-8	30	40	63.2	60.0	735	382.0	91.3	0.79	6.7	1.9	2.0	75	371
YE3-280S-8	37	50	77.5	73.6	735	471.1	91.8	0.79	6.7	1.9	2.0	76	520
YE3-280M-8	45	60	93.9	89.2	735	573.0	92.2	0.79	6.7	1.9	2.0	76	672
YE3-315S-8	55	75	111.5	106.0	745	700.3	92.5	0.81	6.8	1.8	2.0	82	915
YE3-315M-8	75	100	151.1	143.6	745	955.0	93.1	0.81	6.3	1.8	2.0	82	976
YE3-315L1-8	90	120	178.5	169.6	745	1146.0	93.4	0.82	6.4	1.8	2.0	82	1156
YE3-315L2-8	110	150	217.5	206.6	745	1400.7	93.7	0.82	6.4	1.8	2.0	82	1271
YE3-355M1-8	132	176	260.2	247.2	745	1680.8	94.0	0.82	6.4	1.8	2.0	89	1658
YE3-355M2-8	160	215	314.4	298.7	745	2037.3	94.3	0.82	6.4	1.8	2.0	89	1796
YE3-355L-8	200	270	387.0	367.7	745	2546.7	94.6	0.83	6.4	1.8	2.0	89	1931
YE3-355X1-8	250	340	501.9	476.8	745	3183.3	94.6	0.80	7.5	1.1	2.0	89	1960
YE3-355X2-8	315	420	632.4	600.8	745	4011.0	94.6	0.80	7.5	0.9	1.8	89	1980
YE3-400M1-8	250	340	501.9	476.8	745	3183.3	94.6	0.80	7.5	1.1	1.8	91	2770
YE3-400M2-8	280	380	562.1	534.0	745	3565.3	94.6	0.80	7.5	0.9	1.8	91	2880
YE3-400L1-8	315	420	632.4	600.8	745	4011.0	94.6	0.80	7.5	0.9	1.8	91	3010
YE3-400L2-8	355	475	712.7	677.1	745	4520.3	94.6	0.80	7.5	0.9	1.8	91	3150
YE3-400L3-8	400	535	803.1	762.9	745	5093.3	94.6	0.80	7.5	0.9	1.8	91	3230

### 安装及外形尺寸 Mounting and Overall Dimensins

IMB3 H80~400



机座号 Frame size	极数 Poles	尺寸 Dimensions in mm																	
		A	AA	B	C	D*	E	F	G	H	K	AB	AC	AD	HD	L	BB	HA	LD
80	2, 4, 6, 8	125	34	100	50	19	40	6	15.5	80	10	165	167	145	220	300	142	12	72
90S	2, 4, 6, 8	140	36	100	56	24	50	8	20	90	10	180	190	170	265	360	180	12	76
90L	2, 4, 6, 8	140	36	125	56	24	50	8	20	90	10	180	190	170	265	390	220	12	76
100L	2, 4, 6, 8	160	40	140	63	28	60	8	24	100	12	205	206	180	270	435	233	14	83
112M	2, 4, 6, 8	190	45	140	70	28	60	8	24	112	12	230	235	200	310	468	216	15	87
132S	2, 4, 6, 8	216	55	140	89	38	80	10	33	132	12	270	296	230	350	510	226	18	99
132M	2, 4, 6, 8	216	55	178	89	38	80	10	33	132	12	270	296	230	350	550	256	18	99
160M	2, 4, 6, 8	254	65	210	108	42	110	12	37	160	14.5	320	335	265	425	615	315	20	146
160L	2, 4, 6, 8	254	65	254	108	42	110	12	37	160	14.5	320	335	265	425	660	355	20	146
180M	2, 4, 6, 8	279	70	241	121	48	110	14	42.5	180	14.5	355	365	285	460	685	359	22	161
180L	4, 6, 8	279	70	279	121	48	110	14	42.5	180	14.5	355	365	285	460	720	394	22	161
200L	2, 4, 6, 8	318	70	305	133	55	110	16	49	200	18.5	395	418	325	525	790	454	25	186
225S	4, 8	356	75	286	149	60	140	18	53	225	18.5	435	465	350	575	825	431	28	189
225M	2	356	75	311	149	55	110	16	49	225	18.5	435	465	350	575	820	466	28	189
	4, 6, 8	356	75	311	149	60	140	18	53	225	18.5	435	465	350	575	850	466	28	189
250M	2	406	80	349	168	60	140	18	53	250	24	490	525	405	655	915	515	30	207
	4, 6, 8	406	80	349	168	65	140	18	58	250	24	490	525	405	655	915	515	30	207
280S	2	457	85	368	190	65	140	18	58	280	24	550	588	435	705	990	510	35	215
	4, 6, 8	457	85	368	190	75	140	20	67.5	280	24	550	588	435	705	990	510	35	215
280M	2	457	85	419	190	65	140	18	58	280	24	550	588	435	705	1040	550	35	215
	4, 6, 8	457	85	419	190	75	140	20	67.5	280	24	550	588	435	705	1040	550	35	215
315S	2	508	120	406	216	65	140	18	58	315	28	635	620	555	870	1205	570	45	257
	4, 6, 8	508	120	406	216	80	170	22	71	315	28	635	620	555	870	1235	570	45	257
315M	2	508	120	457/508	216	65	140	18	58	315	28	635	620	555	870	1315	680	45	257
	4, 6, 8	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1345	680	45	257
315L	2	508	120	457/508	216	65	140	18	58	315	28	635	620	555	870	1315	680	45	257
	4, 6, 8	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1345	680	45	257
355M	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	750	52	284
	4, 6, 8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1530	750	52	284
355L	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	750	52	284
	4, 6, 8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1530	750	52	284
355X	2	630	120	630/710/800	254	75	140	22	71	355	35	760	770	760	1010	1550	750	52	284
	4, 6, 8	630	120	630/710/800	254	95	170	28	100	355	35	760	770	760	1010	1580	750	52	284
400	2	686	120	630/710	280	85	170	22	76	400	35	840	860	900	1080	1890	1090	53	370
	4, 6, 8	686	120	630/710	280	110	210	28	109	400	35	840	860	900	1080	1930	1090	53	370

注: D尺寸公差: φ19-28为j6; φ38-48为k6; φ55-110为m6。

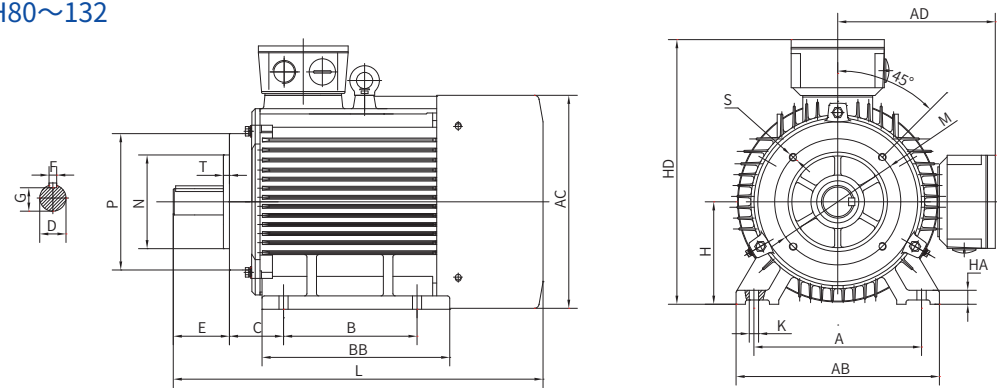
Notes: Tolerance for D dimension: j6 for φ19-28 ; k6 for φ38-48; m6 for φ55-110.





### 安装及外形尺寸 Mounting and Overall Dimensions

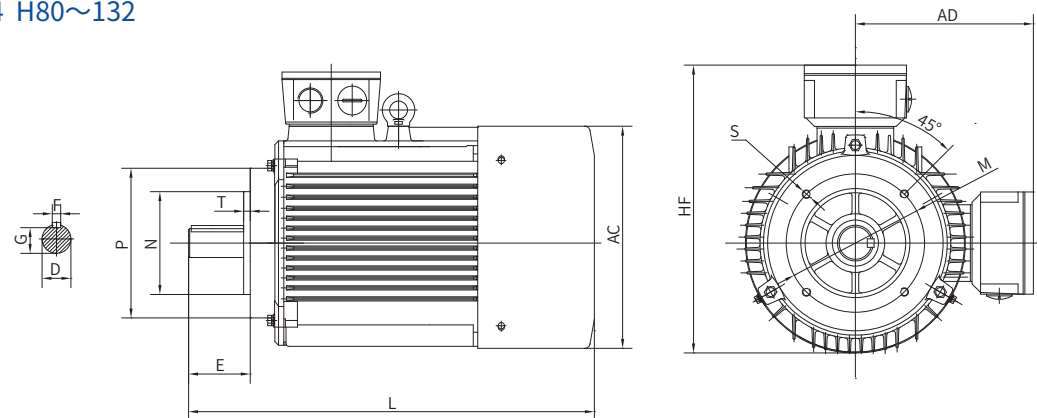
IMB34 H80~132



机座号 Frame size	极数 Poles	尺寸 Dimensions in mm												外形尺寸 Overall dimensions				凸缘孔数 Flange holes				
		A	B	C	D*	E	F	G	H	K	M	N*	P	R*	S	T	AB		AC	AD	HD	L
80	2,4,6,8	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3	160	160	145	220	300	4
90S	2,4,6,8	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3	180	175	170	265	360	4
90L	2,4,6,8	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3	180	175	170	265	390	4
100L	2,4,6,8	160	140	63	28	60	8	24	100	12	130	110	160	0	M8	3.5	200	220	180	270	435	4
112M	2,4,6,8	190	140	70	28	60	8	24	112	12	130	110	160	0	M8	3.5	230	220	200	310	468	4
132S	2,4,6,8	216	140	89	38	80	10	33	132	12	165	130	200	0	M10	4	265	260	210	350	510	4
132M	2,4,6,8	216	178	89	38	80	10	33	132	12	165	130	200	0	M10	4	265	260	210	350	550	4

注: N尺寸公差为j6。Notes: Tolerance for N dimension is j6.

### IMB14 H80~132

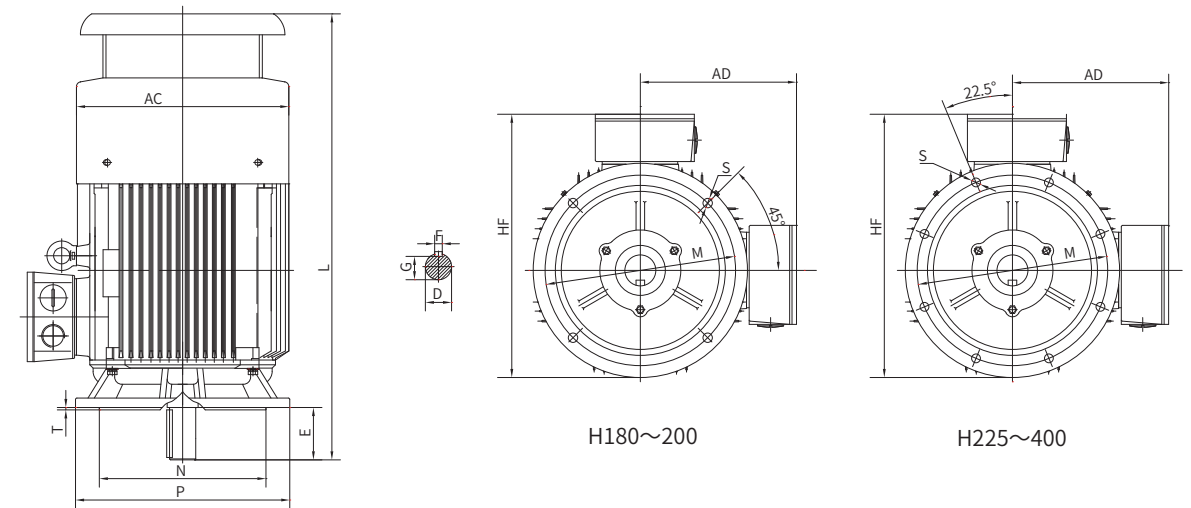


机座号 Frame size	极数 Poles	尺寸 Dimensions in mm											凸缘孔数 Flange holes	外形尺寸 Overall dimensions			
		D*	E	F	G	M	N*	P	R	S	T	AC		AD	HF	L	
80	2,4,6,8	19	40	6	15.5	100	80	120	0	M6	3	4	167	145	220	300	
90S	2,4,6,8	24	50	8	20	115	95	140	0	M8	3	4	190	170	265	360	
90L	2,4,6,8	24	50	8	20	115	95	140	0	M8	3	4	190	170	265	390	
100L	2,4,6,8	28	60	8	24	130	110	160	0	M8	3.5	4	206	180	270	435	
112M	2,4,6,8	28	60	8	24	130	110	160	0	M8	3.5	4	235	200	310	468	
132S	2,4,6,8	38	80	10	33	165	130	200	0	M10	4	4	260	210	350	510	
132M	2,4,6,8	38	80	10	33	165	130	200	0	M10	4	4	260	210	350	550	

注: N尺寸公差为j6。Notes: Tolerance for N dimension is j6.

### 安装及外形尺寸 Mounting and Overall Dimensions

IMV1 H180~400



机座号 Frame Size	极数 Poles	尺寸 Dimensions in mm										凸缘孔数 Flange holes	外形尺寸 Overall dimensions			
		D*	E	F	G	M	N*	P	R	S	T		AC	AD	HF	L
180M	2,4,6,8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	795
180L	4,6,8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	830
200L	2,4,6,8	55	110	16	49	350	300	400	0	18.5	5	4	418	325	595	935
225S	2,4,6,8	60	140	18	53	400	350	450	0	18.5	5	8	465	350	647	975
225M	2	55	140	16	49	400	350	450	0	18.5	5	8	465	350	647	980
	4,6,8	18		53	1010											
250M	2	60	140	18	53	500	450	550	0	18.5	5	8	525	405	726	1110
	4,6,8	65		58	1110											
280S	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1105
	4,6,8	75		20	67.5											1125
280M	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1137
	4,6,8	75		20	67.5											1157
315S	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1355
	4,6,8	80	170	22	71											1385
315M	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1465
	4,6,8	80	170	22	71											1495
315L	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1465
	4,6,8	80	170	22	71											1495
355M	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1630
	4,6,8	95	170	25	86											1660
355L	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1630
	4,6,8	95	170	25	86											1660
355X	2	75	140	22	71	840	780	900	0	24	6	8	770	760	1220	1655
	4,6,8	95	170	28	100											1685
400	2	85	170	22	76	840	780	900	0	28	6	8	860	760	1255	1940
	4,6,8	110	210	28	109											1970

注: 1) D尺寸公差: φ19-28为j6; φ38-48为k6; φ55-110为m6。2) N尺寸公差为j6。  
Notes: 1) Tolerance for D dimension: j6 for φ19-28; k6 for φ38-48; m6 for φ55-110.  
2) Tolerance for N dimension is j6.



# YE4 系列

## 三相异步电动机

### YE4 series Three-phase Asynchronous Motor



YE4系列三相异步电动机是采用新材料、新工艺和优化设计而制造的全封闭、自扇冷鼠笼三相异步电动机。本系列电机满足IEC 60034-30-2014中IE4能效以及JB/T 13299-2017中YE4性能要求。安装尺寸、测试方法等满足相应IEC及国标要求。

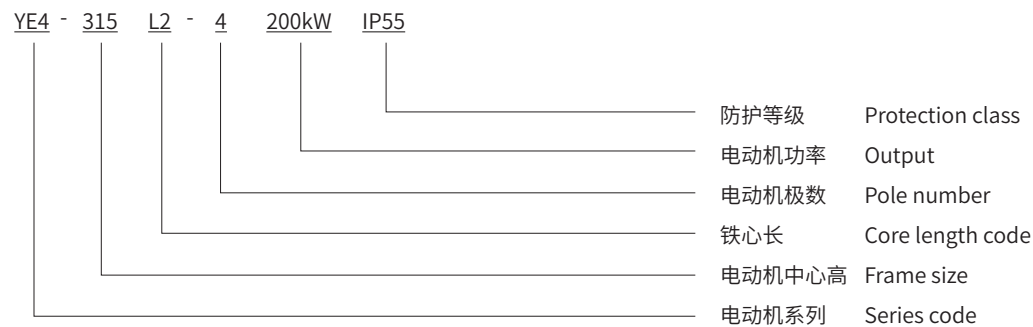
YE4系列电机效率高, 起动转矩大, 噪音低, 冷却散热条件成熟。本系列电机为一般用途的三相异步电动机, 可用于驱动各种通用机械设备, 如压缩机、风机、水泵等机械设备, 也可在石油、化工、医药、矿山及其它环境下使用。

YE4 series three-phase asynchronous motor is a totally enclosed fan cooled three-phase asynchronous motor manufactured by new materials, new processes and optimized design. This series of motors meets IE4 energy efficiency in IEC60034-30-2014 and YE4 performance requirements in JB/T 13299-2017. The mounting dimension, test method, etc. meet the corresponding IEC and national standard requirements.

YE4 series motor has high efficiency, good starting torque, low noise, perfect cooling and heat dissipation conditions. This series of motors are general-purpose three-phase asynchronous motors, which can be used to drive a variety of general mechanical equipment, such as compressors, fans, pumps and other mechanical equipment, and can also be used in petroleum, chemical, pharmaceutical, mining and other environments.

#### 型号含义 Meaning of type code

产品型号按下列顺序排列:



#### 技术数据 Technical Specifications

YE4: 2-POLE/50Hz/3000r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	噪声	重量
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A									
	Rated Power	Current	Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque	Noise	Weight		
	η%	COSΦ	I <sub>st</sub> /I <sub>N</sub>	T <sub>st</sub> /T <sub>N</sub>	T <sub>M</sub> /T <sub>N</sub>	dB(A)	Kg						
YE4-80M1-2	0.75	1	1.6	1.6	2900	2.4	83.5	0.83	8.5	2.2	2.3	62	18
YE4-80M2-2	1.1	1.5	2.4	2.2	2900	3.5	85.2	0.83	8.5	2.2	2.3	62	20
YE4-90S-2	1.5	2	3.1	2.9	2890	4.8	86.5	0.85	9.0	2.2	2.3	67	28
YE4-90L-2	2.2	3	4.4	4.2	2895	7.0	88.0	0.86	9.0	2.2	2.3	67	32
YE4-100L-2	3	4	5.9	5.6	2905	9.6	89.1	0.87	9.5	2.2	2.3	74	45
YE4-112M-2	4	5.5	7.7	7.3	2910	12.7	90.0	0.88	9.5	2.2	2.3	77	53
YE4-132S1-2	5.5	7.5	10.4	9.9	2950	17.5	90.9	0.88	9.5	2.0	2.3	79	75
YE4-132S2-2	7.5	10	14.0	13.3	2950	23.9	91.7	0.89	9.5	2.0	2.3	79	81
YE4-160M1-2	11	15	20.3	19.3	2955	35.0	92.6	0.89	9.5	2.0	2.3	81	127
YE4-160M2-2	15	20	27.4	26.1	2955	47.8	93.3	0.89	9.5	2.0	2.3	81	148
YE4-160L-2	18.5	25	33.7	32.0	2955	58.9	93.7	0.89	9.5	2.0	2.3	81	165
YE4-180M-2	22	30	40.0	38.0	2970	70.0	94.0	0.89	9.5	2.0	2.3	83	195
YE4-200L1-2	30	40	54.2	51.5	2975	95.5	94.5	0.89	9.0	2.0	2.3	84	230
YE4-200L2-2	37	50	66.6	63.3	2975	117.8	94.8	0.89	9.0	2.0	2.3	84	252
YE4-225M-2	45	60	80.9	76.8	2975	143.3	95.0	0.89	9.0	2.0	2.3	86	305
YE4-250M-2	55	75	98.5	93.6	2985	175.1	95.3	0.89	9.0	2.0	2.3	89	434
YE4-280S-2	75	100	133.9	127.2	2985	238.8	95.6	0.89	8.5	1.8	2.3	91	534
YE4-280M-2	90	120	160.4	152.4	2985	286.5	95.8	0.89	8.5	1.8	2.3	91	564
YE4-315S-2	110	150	195.6	185.8	2990	350.2	96.0	0.89	8.5	1.8	2.3	92	1036
YE4-315M-2	132	176	234.2	222.5	2990	420.2	96.2	0.89	8.5	1.8	2.3	92	1086
YE4-315L1-2	160	215	283.6	269.5	2990	509.3	96.3	0.89	8.5	1.8	2.2	92	1230
YE4-315L2-2	200	270	353.8	336.1	2990	636.7	96.5	0.89	8.5	1.8	2.2	92	1303
YE4-355M-2	250	340	432.6	410.9	2990	795.8	96.5	0.91	8.5	1.6	2.2	97	1904
YE4-355L-2	315	420	545.0	517.8	2990	1002.8	96.5	0.91	8.5	1.6	2.2	97	2224
YE4-355X1-2	355	475	621.1	590.0	2990	1130.1	96.5	0.90	8.6	0.9	1.8	97	2250
YE4-355X2-2	400	500	699.8	664.8	2990	1273.3	96.5	0.90	8.6	0.9	1.8	97	2290
YE4-355X3-2	450	600	787.2	747.9	2990	1432.5	96.5	0.90	8.6	0.8	1.8	97	2410
YE4-355X4-2	500	670	874.7	831.0	2990	1591.7	96.5	0.90	8.6	0.8	1.8	97	2540
YE4-400M1-2	355	475	621.1	590.0	2990	1130.1	96.5	0.90	8.6	0.9	1.8	97	2450
YE4-400M2-2	400	535	699.8	664.8	2990	1273.3	96.5	0.90	8.6	0.9	1.8	97	2540
YE4-400M3-2	450	600	787.2	747.9	2990	1432.5	96.5	0.90	8.6	0.8	1.8	97	2780
YE4-400L-2	500	670	874.7	831.0	2990	1591.7	96.5	0.90	8.6	0.8	1.8	97	2980

### 技术数据 Technical Specifications

#### YE4: 4-POLE/50Hz/1500r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	噪声	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque	Noise	Weight
	kW	HP	380V I <sub>N</sub> /A	400V I <sub>N</sub> /A	r/min	N.m	η%	COSφ	Ist/IN	Tst/TN	TM/TN	dB(A)	Kg
YE4-80M1-4	0.55	0.75	1.3	1.3	1440	3.5	83.9	0.74	8.5	2.3	2.3	56	18
YE4-80M2-4	0.75	1	1.8	1.7	1440	4.8	85.7	0.74	8.5	2.3	2.3	56	23
YE4-90S-4	1.1	1.5	2.6	2.4	1450	7.0	87.2	0.75	8.5	2.3	2.3	59	31
YE4-90L-4	1.5	2	3.4	3.2	1450	9.6	88.2	0.76	9.0	2.3	2.3	59	39
YE4-100L1-4	2.2	3	4.7	4.5	1460	14.0	89.5	0.79	9.0	2.3	2.3	64	39
YE4-100L2-4	3	4	6.3	6.0	1460	19.1	90.4	0.80	9.5	2.3	2.3	64	53
YE2-112M-4	4	5.5	8.3	7.9	1460	25.5	91.1	0.80	9.5	2.3	2.3	65	70
YE4-132S-4	5.5	7.5	11.4	10.8	1475	35.0	91.9	0.80	9.5	2.0	2.3	71	81
YE4-132M-4	7.5	10	15.2	14.4	1475	47.8	92.6	0.81	9.5	2.0	2.3	71	90
YE4-160M-4	11	15	21.6	20.5	1475	70.0	93.3	0.83	9.5	2.0	2.3	73	152
YE4-160L-4	15	20	28.9	27.4	1475	95.5	93.9	0.84	9.5	2.0	2.3	73	188
YE4-180M-4	18.5	25	35.1	33.3	1480	117.8	94.2	0.85	9.5	2.0	2.3	76	198
YE4-180L-4	22	30	41.6	39.5	1480	140.1	94.5	0.85	9.5	2.0	2.3	76	212
YE4-200L-4	30	40	56.5	53.7	1485	191.0	94.9	0.85	9.0	2.0	2.3	76	271
YE4-225S-4	37	50	69.5	66.0	1485	235.6	95.2	0.85	9.0	2.0	2.3	78	337
YE4-225M-4	45	60	84.3	80.1	1485	286.5	95.4	0.85	9.0	2.0	2.3	78	368
YE4-250M-4	55	75	101.5	96.5	1490	350.2	95.7	0.86	9.0	2.0	2.3	79	464
YE4-280S-4	75	100	136.4	129.6	1490	477.5	96.0	0.87	8.5	2.0	2.3	80	583
YE4-280M-4	90	120	161.7	153.6	1490	573.0	96.1	0.88	8.5	2.0	2.3	80	661
YE4-315S-4	110	150	195.0	185.3	1490	700.3	96.3	0.89	8.5	1.8	2.2	88	1021
YE4-315M-4	132	176	233.8	222.1	1490	840.4	96.4	0.89	8.5	1.8	2.2	88	1101
YE4-315L1-4	160	215	279.6	265.6	1490	1018.7	96.6	0.90	8.5	1.8	2.2	88	1186
YE4-315L2-4	200	270	349.2	331.7	1490	1273.3	96.7	0.90	8.5	1.8	2.2	88	1270
YE4-355M-4	250	340	436.5	414.6	1490	1591.7	96.7	0.90	8.5	1.8	2.2	92	2041
YE4-355L-4	315	420	549.9	522.4	1490	2005.5	96.7	0.90	8.5	1.8	2.2	92	2148
YE4-355X1-4	355	475	633.9	602.2	1490	2260.2	96.7	0.88	8.5	0.9	1.8	92	2260
YE4-355X2-4	400	500	714.2	678.5	1490	2546.7	96.7	0.88	8.5	0.9	1.8	92	2300
YE4-355X3-4	450	600	803.5	763.3	1490	2865.0	96.7	0.88	8.5	0.8	1.8	92	2410
YE4-355X4-4	500	670	892.7	848.1	1490	3183.3	96.7	0.88	8.5	0.8	1.8	92	2560
YE4-400M1-4	355	475	633.9	602.2	1490	2260.2	96.7	0.88	8.5	0.9	1.8	93	2850
YE4-400M2-4	400	535	714.2	678.5	1490	2546.7	96.7	0.88	8.5	0.9	1.8	93	2980
YE4-400M3-4	450	600	803.5	763.3	1490	2865.0	96.7	0.88	8.5	0.8	1.8	93	3090
YE4-400L1-4	500	670	892.7	848.1	1490	3183.3	96.7	0.88	8.5	0.8	1.8	93	3210
YE4-400L2-4	560	750	988.6	939.2	1490	3565.3	96.7	0.89	8.6	0.8	1.8	93	3360
YE4-400L3-4	630	840	1112.2	1056.6	1490	4011.0	96.7	0.89	8.6	0.8	1.8	93	3430

### 技术数据 Technical Specifications

#### YE4: 6-POLE/50Hz/1000r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	噪声	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque	Noise	Weight
	kW	HP	380V I <sub>N</sub> /A	400V I <sub>N</sub> /A	r/min	N.m	η%	COSφ	Ist/IN	Tst/TN	TM/TN	dB(A)	Kg
YE4-90S-6	0.75	1	2.0	1.9	960	7.2	82.7	0.70	7.5	2.1	2.1	57	24
YE4-90L-6	1.1	1.5	2.8	2.7	960	10.5	84.5	0.70	7.5	2.1	2.1	57	32
YE4-100L-6	1.5	2	3.7	3.6	965	14.3	85.9	0.71	7.5	2.1	2.1	61	42
YE4-112M-6	2.2	3	5.4	5.1	940	21.0	87.4	0.71	7.5	2.1	2.1	65	55
YE4-132S-6	3	4	7.2	6.9	975	28.7	88.6	0.71	7.5	2.0	2.1	69	72
YE4-132M1-6	4	5.5	9.4	9.0	975	38.2	89.5	0.72	8.0	2.0	2.1	69	78
YE4-132M2-6	5.5	7.5	12.8	12.2	975	52.5	90.5	0.72	8.0	2.0	2.1	69	82
YE4-160M-6	7.5	10	16.4	15.6	980	71.6	91.3	0.76	8.0	2.0	2.1	73	143
YE4-160L-6	11	15	23.5	22.3	980	105.1	92.3	0.77	8.5	2.0	2.1	73	159
YE4-180L-6	15	20	30.7	29.1	985	143.3	92.9	0.80	8.5	2.0	2.1	73	201
YE4-200L1-6	18.5	25	37.6	35.7	985	176.7	93.4	0.80	8.5	2.0	2.1	73	236
YE4-200L2-6	22	30	44.0	41.8	985	210.1	93.7	0.81	8.5	2.0	2.1	73	250
YE4-225M-6	30	40	59.0	56.1	985	286.5	94.2	0.82	8.3	2.0	2.1	74	319
YE4-250M-6	37	50	71.7	68.1	990	353.4	94.5	0.83	8.3	2.0	2.1	76	384
YE4-280S-6	45	60	86.9	82.6	990	429.8	94.8	0.83	8.5	2.0	2.0	78	513
YE4-280M-6	55	75	104.6	99.4	990	525.3	95.1	0.84	8.5	2.0	2.0	78	698
YE4-315S-6	75	100	142.2	135.1	990	716.3	95.4	0.84	8.0	1.6	2.0	83	976
YE4-315M-6	90	120	168.3	159.9	990	859.5	95.6	0.85	8.0	1.6	2.0	83	1053
YE4-315L1-6	110	150	205.2	195.0	990	1050.5	95.8	0.85	8.0	1.6	2.0	83	1238
YE4-315L2-6	132	176	242.9	230.8	990	1260.6	96.0	0.86	8.0	1.6	2.0	83	1385
YE4-355M1-6	160	215	293.8	279.2	990	1528.0	96.2	0.86	8.0	1.6	2.0	85	1873
YE4-355M2-6	200	270	366.9	348.6	990	1910.0	96.3	0.86	8.0	1.6	2.0	85	2173
YE4-355L-6	250	340	457.7	434.8	990	2387.5	96.5	0.86	8.0	1.6	2.0	85	2252
YE4-355X1-6	315	420	604.2	574.0	990	3008.3	96.6	0.82	7.9	0.9	1.8	91	2290
YE4-355X2-6	355	475	680.9	646.9	990	3390.3	96.6	0.82	7.9	0.9	1.8	91	2380
YE4-355X3-6	400	535	758.0	720.1	990	3820.0	96.6	0.83	8.0	0.9	1.8	91	2450
YE4-400M1-6	315	420	604.2	574.0	990	3008.3	96.6	0.82	7.9	0.9	1.8	92	2590
YE4-400M2-6	355	475	680.9	646.9	990	3390.3	96.6	0.82	7.9	0.9	1.8	92	2740
YE4-400L1-6	400	535	758.0	720.1	990	3820.0	96.6	0.83	8.0	0.9	1.8	92	2950
YE4-400L2-6	450	600	852.8	810.1	990	4297.5	96.6	0.83	8.0	0.8	1.8	92	3200
YE4-400L3-6	500	670	947.5	900.1	990	4775.0	96.6	0.83	8.0	0.8	1.8	92	3490



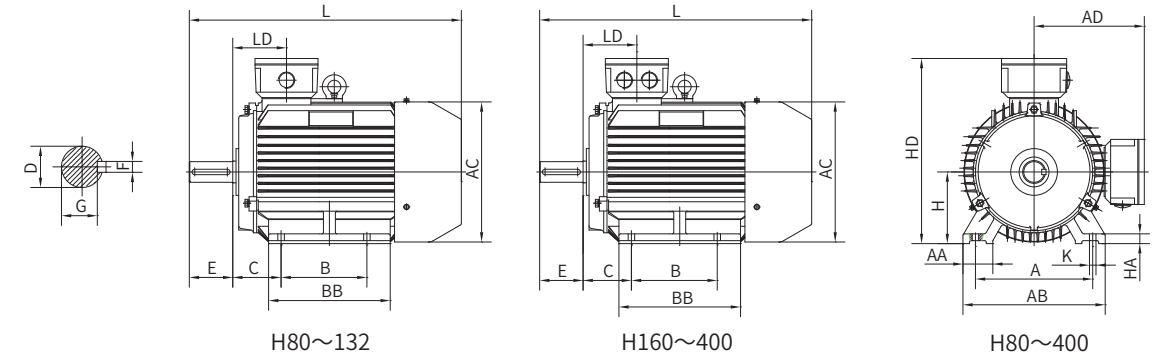
### 技术数据 Technical Specifications

YE4: 8-POLE/50Hz/750r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流	堵转转矩	最大转矩	噪声	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current	Locked Torque	Maximum Torque	Noise	Weight
	kW	HP	380V I <sub>N</sub> /A	400V I <sub>N</sub> /A	r/min	N.m	η%	COSφ	I <sub>st</sub> /I <sub>N</sub>	T <sub>st</sub> /T <sub>N</sub>	T <sub>M</sub> /T <sub>N</sub>	dB(A)	Kg
YE4-100L1-8	0.75	1	2.2	2.1	710	9.6	78.4	0.66	7.0	2.0	2.0	59	37
YE4-100L2-8	1.1	1.5	3.1	2.9	710	14.0	80.8	0.67	7.0	2.0	2.0	59	45
YE4-112M-8	1.5	2	4.0	3.8	710	19.1	82.6	0.69	7.0	2.0	2.0	61	56
YE4-132S-8	2.2	3	5.7	5.4	725	28.0	84.5	0.70	7.5	1.8	2.0	64	70
YE4-132M-8	3	4	7.6	7.2	725	38.2	85.9	0.70	7.8	1.8	2.0	64	87
YE4-160M1-8	4	5.5	9.8	9.3	730	50.9	87.1	0.71	7.9	1.8	2.0	68	132
YE4-160M2-8	5.5	7.5	13.1	12.5	730	70.0	88.3	0.72	8.1	1.8	2.0	68	143
YE4-160L-8	7.5	10	17.2	16.4	730	95.5	89.3	0.74	7.8	1.8	2.0	68	164
YE4-180L-8	11	15	25.0	23.7	735	140.1	90.4	0.74	7.9	1.8	2.0	70	188
YE4-200L-8	15	20	33.3	31.7	735	191.0	91.2	0.75	8.0	1.8	2.0	73	226
YE4-225S-8	18.5	25	40.9	38.8	740	235.6	91.7	0.75	8.1	1.8	2.0	73	243
YE4-225M-8	22	30	47.8	45.4	740	280.1	92.1	0.76	8.3	1.8	2.0	73	286
YE4-250M-8	30	40	63.9	60.7	740	382.0	92.7	0.77	7.9	1.8	2.0	75	359
YE4-280S-8	37	50	77.4	73.5	740	471.1	93.1	0.78	7.9	1.8	2.0	76	519
YE4-280M-8	45	60	93.9	89.2	740	573.0	93.4	0.78	7.9	1.8	2.0	76	673
YE4-315S-8	55	75	111.5	105.9	745	700.3	93.7	0.80	8.2	1.6	2.0	82	827
YE4-315M-8	75	100	151.2	143.7	745	955.0	94.2	0.80	7.6	1.6	2.0	82	945
YE4-315L1-8	90	120	178.8	169.9	745	1146.0	94.4	0.81	7.7	1.6	2.0	82	1138
YE4-315L2-8	110	150	217.9	207.0	745	1400.7	94.7	0.81	7.7	1.6	2.0	82	1235
YE4-355M1-8	132	176	260.9	247.9	745	1680.8	94.9	0.81	7.7	1.6	2.0	89	1745
YE4-355M2-8	160	215	311.7	296.2	745	2037.3	95.1	0.82	7.7	1.6	2.0	89	1991
YE4-355L-8	200	270	388.5	369.0	745	2546.7	95.4	0.82	7.8	1.6	1.8	89	2059
YE4-355X1-8	250	340	497.7	472.8	745	3183.3	95.4	0.80	7.6	1.1	1.8	89	2130
YE4-355X2-8	315	420	627.1	595.8	745	4011.0	95.4	0.80	7.6	0.9	1.8	89	2190
YE4-400M1-8	250	340	497.7	472.8	745	3183.3	95.4	0.80	7.6	1.1	1.8	91	2970
YE4-400M2-8	280	380	557.4	529.6	745	3565.3	95.4	0.80	7.6	0.9	1.8	91	3080
YE4-400L1-8	315	420	627.1	595.8	745	4011.0	95.4	0.80	7.6	0.9	1.8	91	3210
YE4-400L2-8	355	475	706.7	671.4	745	4520.3	95.4	0.80	7.6	0.9	1.8	91	3350
YE4-400L3-8	400	535	796.3	756.5	745	5093.3	95.4	0.80	7.6	0.9	1.8	91	3430

### 安装及外形尺寸 Mounting and Overall Dimensions

IMB3 H80~400



机座号 Frame size	极数 Poles	尺寸 Dimensions in mm																	
		A	AA	B	C	D*	E	F	G	H	K	AB	AC	AD	HD	L	BB	HA	LD
80	2, 4, 6, 8	125	34	100	50	19	40	6	15.5	80	10	165	167	145	220	300	142	12	72
90S	2, 4, 6, 8	140	36	100	56	24	50	8	20	90	10	180	190	170	265	360	180	12	76
90L	2, 4, 6, 8	140	36	125	56	24	50	8	20	90	10	180	190	170	265	390	220	12	76
100L	2, 4, 6, 8	160	40	140	63	28	60	8	24	100	12	205	206	180	270	435	233	14	83
112M	2, 4, 6, 8	190	45	140	70	28	60	8	24	112	12	230	235	200	310	468	216	15	87
132S	2, 4, 6, 8	216	55	140	89	38	80	10	33	132	12	270	296	230	350	510	226	18	99
132M	2, 4, 6, 8	216	55	178	89	38	80	10	33	132	12	270	296	230	350	550	256	18	99
160M	2, 4, 6, 8	254	65	210	108	42	110	12	37	160	14.5	320	335	265	425	660	315	20	146
160L	2, 4, 6, 8	254	65	254	108	42	110	12	37	160	14.5	320	335	265	425	690	355	20	146
180M	2, 4, 6, 8	279	70	241	121	48	110	14	42.5	180	14.5	355	365	285	460	720	359	22	161
180L	4, 6, 8	279	70	279	121	48	110	14	42.5	180	14.5	355	365	285	460	770	394	22	161
200L	2, 4, 6, 8	318	70	305	133	55	110	16	49	200	18.5	395	418	325	525	790	454	25	186
225S	4, 8	356	75	286	149	60	140	18	53	225	18.5	435	465	350	575	825	431	28	189
225M	2	356	75	311	149	55	110	16	49	225	18.5	435	465	350	575	820	466	28	189
	4, 6, 8	356	75	311	149	60	140	18	53	225	18.5	435	465	350	575	850	466	28	189
250M	2	406	80	349	168	60	140	18	53	250	24	490	525	405	655	915	515	30	207
	4, 6, 8	406	80	349	168	65	140	18	58	250	24	490	525	405	655	915	515	30	207
280S	2	457	85	368	190	65	140	18	58	280	24	550	588	435	705	990	510	35	215
	4, 6, 8	457	85	368	190	75	140	20	67.5	280	24	550	588	435	705	990	510	35	215
280M	2	457	85	419	190	65	140	18	58	280	24	550	588	435	705	1040	550	35	215
	4, 6, 8	457	85	419	190	75	140	20	67.5	280	24	550	588	435	705	1040	550	35	215
315S	2	508	120	406	216	65	140	18	58	315	28	635	620	555	870	1205	570	45	257
	4, 6, 8	508	120	406	216	80	170	22	71	315	28	635	620	555	870	1235	570	45	257
315M	2	508	120	457/508	216	65	140	18	58	315	28	635	620	555	870	1315	680	45	257
	4, 6, 8	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1345	680	45	257
315L	2	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1345	680	45	257
	4, 6, 8	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1345	680	45	257
355M	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	750	52	284
	4, 6, 8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1530	750	52	284
355L	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	750	52	284
	4, 6, 8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1530	750	52	284
355X	2	630	120	630/710/800	254	75	140	22	71	355	35	760	770	655	1010	1550	750	52	284
	4, 6, 8	630	120	630/710/800	254	95	170	28	100	355	35	760	770	655	1010	1580	750	52	284
400	2	686	120	630/710	280	85	170	22	76	400	35	840	860	680	1080	1890	1090	53	370
	4, 6, 8	686	120	630/710	280	110	210	28	109	400	35	840	860	680	1080	1930	1090	53	370

注: D尺寸公差: φ19-28为j6; φ38-48为k6; φ55-110为m6。

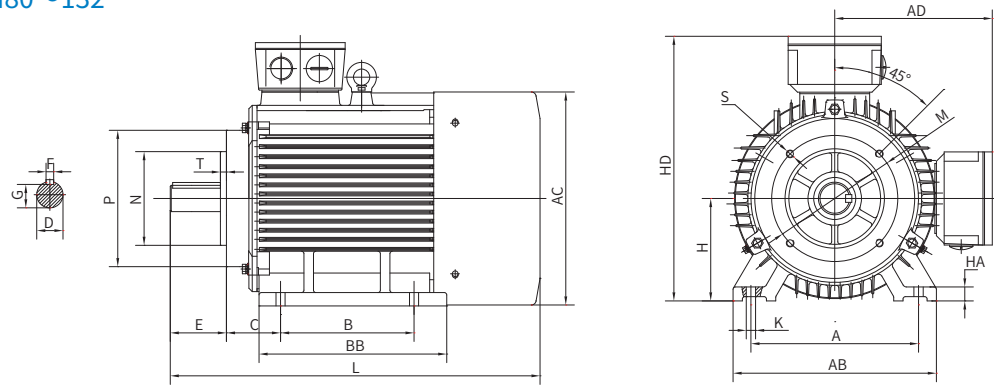
Notes: Tolerance for D dimension: j6 for φ19-28; k6 for φ38-48; m6 for φ55-110.





### 安装及外形尺寸 Mounting and Overall Dimensions

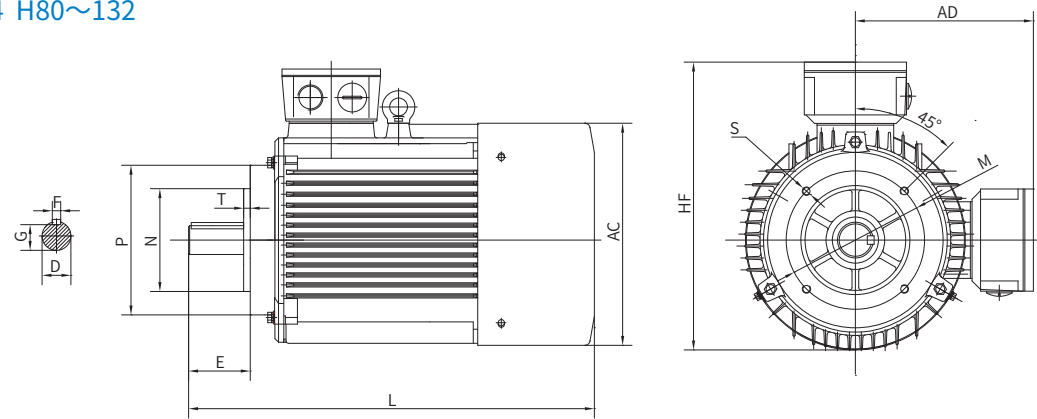
IMB34 H80~132



机座号 Frame size	极数 Poles	尺寸 Dimensions in mm														外形尺寸 Overall dimensions				凸缘孔数 Flange holes		
		A	B	C	D*	E	F	G	H	K	M	N*	P	R*	S	T	AB	AC	AD		HD	L
80	2, 4, 6, 8	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3	165	167	145	220	300	4
90S	2, 4, 6, 8	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3	180	190	170	265	360	4
90L	2, 4, 6, 8	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3	180	190	170	265	390	4
100L	2, 4, 6, 8	160	140	63	28	60	8	24	100	12	130	110	160	0	M8	3.5	205	206	180	270	435	4
112M	2, 4, 6, 8	190	140	70	28	60	8	24	112	12	130	110	160	0	M8	3.5	230	235	200	310	468	4
132S	2, 4, 6, 8	216	140	89	38	80	10	33	132	12	165	130	200	0	M10	4	265	260	210	350	510	4
132M	2, 4, 6, 8	216	178	89	38	80	10	33	132	12	165	130	200	0	M10	4	265	260	210	350	550	4

注: N尺寸公差为j6。 Notes: Tolerance for N dimension is j6.

### IMB14 H80~132

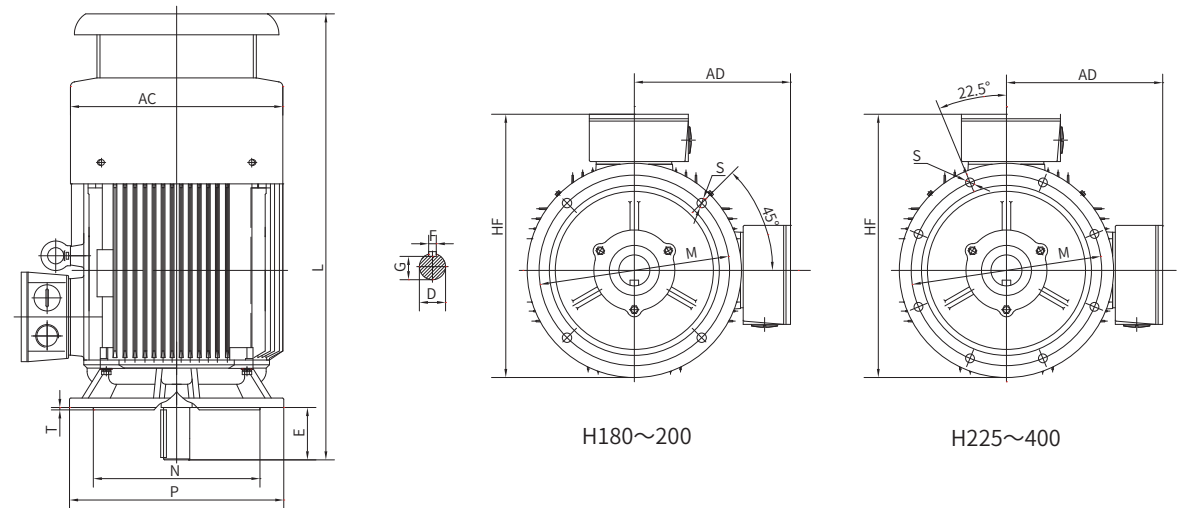


机座号 Frame size	极数 Poles	尺寸 Dimensions in mm											凸缘孔数 Flange holes	外形尺寸 Overall dimensions			
		D*	E	F	G	M	N*	P	R	S	T	AC		AD	HF	L	
80	2, 4, 6, 8	19	40	6	15.5	100	80	120	0	M6	3	4	167	145	—	300	
90S	2, 4, 6, 8	24	50	8	20	115	95	140	0	M8	3	4	190	170	—	360	
90L	2, 4, 6, 8	24	50	8	20	115	95	140	0	M8	3	4	190	170	—	390	
100L	2, 4, 6, 8	28	60	8	24	130	110	160	0	M8	3.5	4	206	180	245	435	
112M	2, 4, 6, 8	28	60	8	24	130	110	160	0	M8	3.5	4	235	200	275	468	
132S	2, 4, 6, 8	38	80	10	33	165	130	200	0	M10	4	4	260	210	350	510	
132M	2, 4, 6, 8	38	80	10	33	165	130	200	0	M10	4	4	260	210	350	550	

注: N尺寸公差为j6。 Notes: Tolerance for N dimension is j6.

### 安装及外形尺寸 Mounting and Overall Dimensions

IMV1 H180~400



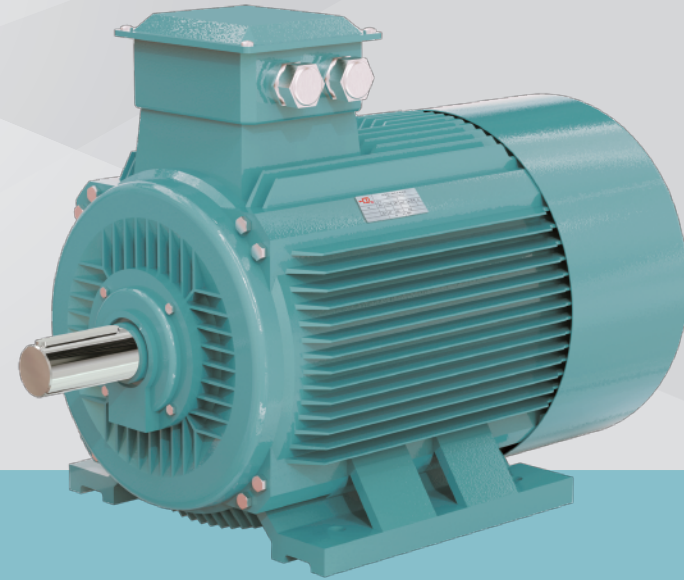
机座号 Frame Size	极数 Poles	尺寸 Dimensions in mm										凸缘孔数 Flange holes	外形尺寸 Overall dimensions			
		D*	E	F	G	M	N*	P	R	S	T		AC	AD	HF	L
180M	2, 4, 6, 8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	795
180L	4, 6, 8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	830
200L	2, 4, 6, 8	55	110	16	49	350	300	400	0	18.5	5	4	418	325	595	935
225S	2, 4, 6, 8	60	140	18	53	400	350	450	0	18.5	5	8	465	350	647	975
225M	2	55	140	16	49	400	350	450	0	18.5	5	8	465	350	647	980
	4, 6, 8	60	18	53	1010											
250M	2	60	140	18	53	500	450	550	0	18.5	5	8	525	405	726	1110
	4, 6, 8	65	18	58	1110											
280S	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1105
	4, 6, 8	75	20	67.5	1125											
280M	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1137
	4, 6, 8	75	20	67.5	1157											
315S	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1355
	4, 6, 8	80	170	22	71											
315M	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1465
	4, 6, 8	80	170	22	71											
315L	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1465
	4, 6, 8	80	170	22	71											
355M	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1630
	4, 6, 8	95	170	25	86											
355L	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1630
	4, 6, 8	95	170	25	86											
355X	2	75	140	22	71	840	780	900	0	24	6	8	770	760	1220	1655
	4, 6, 8	95	170	28	100											
400	2	85	170	22	76	840	780	900	0	28	6	8	860	760	1255	1940
	4, 6, 8	110	210	28	109											

注: 1) D尺寸公差: φ19-28为j6; φ38-48为k6; φ55-110为m6。 2) N尺寸公差为j6。  
Notes: 1) Tolerance for D dimension: j6 for φ19-28 ; k6 for φ38-48; m6 for φ55-110.  
2) Tolerance for N dimension is j6.

# YE5 系列

## 三相异步电动机

### YE5 series Three-phase Asynchronous Motor



YE5系列三相异步电动机是我公司自主开发推出的全封闭、自扇冷、鼠笼式IE5效率三相异步电动机，效率指标达到 GB18613- 2020《中小型三相异步电动机能效限定值及能效等级》中最高能效等级1级与IEC60034-30的IE5保持一致，且具有性能优良，使用安全可靠，振动、噪声比同类产品低的特点，符合环保要求。

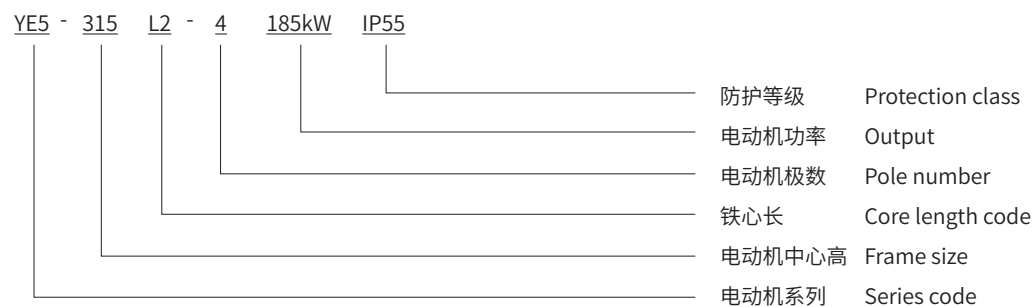
YE5系列三相异步电动机具有外形美观、高效率、低噪音、低振动、安全可靠、维护方便等特点，广泛应用于纺织机械、金属制品、电工机械、造纸机械、风机、水泵、空压机、机床、减速机、包装机械、矿山机械、建筑机械等各类传动机械行业。

YE5 series three-phase asynchronous motor is a fully enclosed, self-cooled, squirrel cage IE5 efficiency three-phase asynchronous motor independently developed and launched by our company. the efficiency index reaches the highest energy efficiency level 1 of GB18613- 2020 "Energy efficiency limit and Energy efficiency Grade of small and medium-sized three-phase Asynchronous Motor", which is consistent with the IE5 of IEC60034-30, and has the characteristics of excellent performance, safe and reliable use, and lower vibration and noise than similar products. Meet the requirements of environmental protection.

With the characteristics of beautiful appearance, high efficiency, low noise, low vibration, safety and reliability, and convenient maintenance, YE5 series three-phase asynchronous motors are widely used in textile machinery, metal products, electrical machinery, paper machinery, fans, water pumps, air compressors, machine tools, reducers, packaging machinery, mining machinery, construction machinery and other transmission machinery industries.

#### 型号含义 Meaning of type code

产品型号按下列顺序排列：



#### 技术数据 Technical Specifications

YE5: 2-POLE/50Hz/3000r/min

电机型号 Motor Type	功率	转速	效率 100%负载	功率 因数	额定电流	堵转电流 额定电流	额定转矩	堵转转矩 额定转矩	最大转矩 额定转矩	噪声	重量
	Power	Speed	Efficiency	Power Factor	Current	Locked Current Rated Current	Rated Torque	Locked Torque Rated Torque	Maximun Torque Rated Torque	Noise	Weight
	kW	r/min	$\eta\%$	COS $\Phi$	380V I <sub>N</sub> A	I <sub>st</sub> /I <sub>N</sub>	T <sub>N</sub> (N.m)	T <sub>st</sub> /T <sub>N</sub>	T <sub>M</sub> /T <sub>N</sub>	dB(A)	Kg
YE5-80M1-2	0.75	2905	86.3	0.82	1.6	10.0	2.4	1.8	2.3	62	19
YE5-80M2-2	1.1	2905	87.8	0.80	2.4	10.5	3.5	1.8	2.3	62	20
YE5-90S-2	1.5	2915	88.9	0.85	3.0	10.5	4.8	1.8	2.3	67	24
YE5-90L-2	2.2	2915	90.2	0.85	4.4	10.5	7.0	1.8	2.3	67	29
YE5-100L-2	3	2915	91.1	0.85	5.9	10.5	9.6	1.8	2.3	74	36
YE5-112M-2	4	2920	91.8	0.87	7.6	10.5	12.7	1.8	2.3	77	46
YE5-132S1-2	5.5	2955	92.6	0.86	10.5	10.5	17.5	2.0	2.3	79	76
YE5-132S2-2	7.5	2955	93.3	0.86	14.2	10.5	23.9	2.0	2.3	79	81
YE5-160M1-2	11	2960	94.0	0.87	20.4	10.5	35.0	2.0	2.3	81	136
YE5-160M2-2	15	2960	94.5	0.87	27.7	10.5	47.8	2.0	2.3	81	161
YE5-160L-2	18.5	2960	94.9	0.87	34.0	10.5	58.9	2.0	2.3	81	172
YE5-180M-2	22	2965	95.1	0.87	40.4	10.0	70.0	2.0	2.3	83	210
YE5-200L1-2	30	2975	95.5	0.88	54.2	10.0	95.5	2.0	2.3	84	265
YE5-200L2-2	37	2975	95.8	0.88	66.7	10.0	117.8	2.0	2.3	84	291
YE5-225M-2	45	2975	96.0	0.88	80.9	10.0	143.3	2.0	2.3	86	335
YE5-250M-2	55	2985	96.2	0.88	98.7	9.5	175.1	2.0	2.3	89	519
YE5-280S-2	75	2985	96.5	0.88	134.2	9.5	238.8	1.8	2.3	91	615
YE5-280M-2	90	2985	96.6	0.88	160.9	9.5	286.5	1.8	2.3	91	650
YE5-315S-2	110	2985	96.8	0.88	196.2	9.5	350.2	1.8	2.3	92	1102
YE5-315M-2	132	2985	96.9	0.88	235.2	9.5	420.2	1.8	2.3	97	1136
YE5-315L1-2	160	2985	97.0	0.88	284.8	9.5	509.3	1.8	2.2	97	1329
YE5-315L2-2	185	2985	97.1	0.88	329.0	8.8	588.9	1.8	2.2	97	1469
YE5-315L3-2	200	2985	97.2	0.88	355.3	8.8	636.7	1.8	2.2	97	1535
YE5-355M1-2	220	2985	97.2	0.88	390.8	8.8	700.3	1.6	2.2	97	1818
YE5-355M2-2	250	2985	97.2	0.90	434.2	8.5	795.8	1.6	2.2	97	1946
YE5-355L1-2	280	2985	97.2	0.90	486.3	8.5	891.3	1.6	2.2	97	2032
YE5-355L2-2	315	2985	97.2	0.90	547.1	8.5	1002.8	0.9	2.2	97	2222



### 技术数据 Technical Specifications

#### YE5: 4-POLE/50Hz/1500r/min

电机型号 Motor Type	功率	转速	效率 100%负载	功率 因数	额定电流	堵转电流 额定电流	额定转矩	堵转转矩 额定转矩	最大转矩 额定转矩	噪声	重量
	Power	Speed	Efficiency	Power Factor	Current	Locked Current Rated Current	Rated Torque	Locked Torque Rated Torque	Maximun Torque Rated Torque	Noise	Weight
	kW	r/min	$\eta\%$	COS $\Phi$	380V I <sub>N</sub> A	I <sub>st</sub> /I <sub>N</sub>	TN (N.m)	T <sub>st</sub> /TN	TM/TN	dB(A)	Kg
YE5-80M1-4	0.55	1445	86.7	0.73	1.3	8.5	3.5	2.1	2.3	56	19
YE5-80M2-4	0.75	1445	88.2	0.73	1.8	8.5	4.8	2.1	2.3	56	25
YE5-90S-4	1.1	1455	89.5	0.74	2.5	8.5	7.0	2.1	2.3	59	26
YE5-90L-4	1.5	1455	90.4	0.73	3.5	9.5	9.6	2.1	2.3	59	30
YE5-100L1-4	2.2	1460	91.4	0.77	4.7	9.5	14.0	2.1	2.3	64	40
YE5-100L2-4	3	1460	92.1	0.77	6.4	10.5	19.1	2.1	2.3	64	44
YE5-112M-4	4	1465	92.8	0.76	8.6	10.5	25.5	2.1	2.3	65	53
YE5-132S-4	5.5	1475	93.4	0.77	11.6	9.5	35.0	2.0	2.3	71	82
YE5-132M-4	7.5	1475	94.0	0.77	15.7	9.5	47.8	2.0	2.3	71	97
YE5-160M-4	11	1475	94.6	0.81	21.8	9.5	70.0	2.0	2.3	73	143
YE5-160L-4	15	1475	95.1	0.81	29.6	9.5	95.5	2.0	2.3	73	166
YE5-180M-4	18.5	1480	95.3	0.81	36.4	9.5	117.8	2.0	2.3	76	211
YE5-180L-4	22	1480	95.5	0.81	43.2	9.5	140.1	2.0	2.3	76	183
YE5-200L-4	30	1485	95.9	0.81	58.7	9.5	191.0	2.0	2.3	76	274
YE5-225S-4	37	1485	96.1	0.83	70.5	9.5	235.6	2.0	2.3	78	346
YE5-225M-4	45	1485	96.3	0.83	85.5	9.5	286.5	2.0	2.3	78	417
YE5-250M-4	55	1490	96.5	0.82	105.6	9.5	350.2	2.0	2.3	79	502
YE5-280S-4	75	1490	96.7	0.87	135.5	8.5	477.5	2.0	2.3	80	616
YE5-280M-4	90	1490	96.9	0.88	160.4	8.5	573.0	2.0	2.3	80	717
YE5-315S-4	110	1490	97.0	0.89	193.6	8.5	700.3	1.8	2.2	88	1054
YE5-315M-4	132	1490	97.1	0.89	232.1	8.5	840.4	1.8	2.2	88	1171
YE5-315L1-4	160	1490	97.2	0.89	281.0	8.5	1018.7	1.8	2.2	88	1236
YE5-315L2-4	185	1490	97.3	0.89	324.6	8.5	1177.8	1.8	2.2	88	1353
YE5-315L3-4	200	1490	97.4	0.89	350.5	8.5	1273.3	1.8	2.2	88	1420
YE5-355M1-4	220	1490	97.4	0.89	385.6	8.5	1400.7	1.8	2.2	92	2041
YE5-355M2-4	250	1490	97.4	0.89	438.2	8.5	1591.7	1.8	2.2	92	2190
YE5-355L1-4	280	1490	97.4	0.88	496.3	8.5	1782.7	1.8	2.2	92	2190
YE5-355L2-4	315	1490	97.4	0.88	558.4	8.5	2005.5	0.9	2.2	92	2319

### 技术数据 Technical Specifications

#### YE5: 6-POLE/50Hz/1000r/min

电机型号 Motor Type	功率	转速	效率 100%负载	功率 因数	额定电流	堵转电流 额定电流	额定转矩	堵转转矩 额定转矩	最大转矩 额定转矩	噪声	重量
	Power	Speed	Efficiency	Power Factor	Current	Locked Current Rated Current	Rated Torque	Locked Torque Rated Torque	Maximun Torque Rated Torque	Noise	Weight
	kW	r/min	$\eta\%$	COS $\Phi$	380V I <sub>N</sub> A	I <sub>st</sub> /I <sub>N</sub>	TN (N.m)	T <sub>st</sub> /TN	TM/TN	dB(A)	Kg
YE5-90S-6	0.75	960	85.7	0.68	2.0	7.5	7.2	1.8	2.1	57	24
YE5-90L-6	1.1	960	87.2	0.68	2.8	7.5	10.5	1.8	2.1	57	33
YE5-100L-6	1.5	965	88.4	0.71	3.6	7.5	14.3	1.8	2.1	61	44
YE5-112M-6	2.2	970	89.7	0.71	5.2	7.5	21.0	1.8	2.1	65	54
YE5-132S-6	3	975	90.6	0.70	7.2	8.5	28.7	2.0	2.1	69	73
YE5-132M1-6	4	975	91.4	0.71	9.4	8.5	38.2	2.0	2.1	69	77
YE5-132M2-6	5.5	980	92.2	0.71	12.8	8.5	52.5	2.0	2.1	69	89
YE5-160M-6	7.5	980	92.9	0.76	16.1	8.5	71.6	2.0	2.1	73	145
YE5-160L-6	11	980	93.7	0.77	23.2	9.0	105.1	2.0	2.1	73	173
YE5-180L-6	15	985	94.3	0.80	30.2	9.0	143.3	2.0	2.1	73	215
YE5-200L1-6	18.5	985	94.6	0.80	37.1	8.5	176.7	2.0	2.1	73	245
YE5-200L2-6	22	985	94.9	0.80	44.0	8.5	210.1	2.0	2.1	73	261
YE5-225M-6	30	990	95.3	0.82	58.3	8.3	286.5	2.0	2.1	74	346
YE5-250M-6	37	990	95.6	0.83	70.8	8.3	353.4	2.0	2.1	76	415
YE5-280S-6	45	990	95.8	0.83	86.0	8.5	429.8	2.0	2.0	78	550
YE5-280M-6	55	990	96.0	0.84	103.6	8.5	525.3	2.0	2.0	78	712
YE5-315S-6	75	990	96.3	0.84	140.9	8.0	716.3	1.6	2.0	83	1030
YE5-315M-6	90	990	96.5	0.85	166.7	8.0	859.5	1.6	2.0	83	1102
YE5-315L1-6	110	990	96.6	0.85	203.5	8.0	1050.5	1.6	2.0	83	1288
YE5-315L2-6	132	990	96.8	0.86	240.9	8.0	1260.6	1.6	2.0	83	1468
YE5-355M1-6	160	995	96.9	0.85	295.2	8.0	1528.0	1.6	2.0	85	2044
YE5-355M2-6	185	995	97.0	0.84	345.0	8.0	1766.8	1.6	2.0	85	2322
YE5-355M3-6	200	995	97.0	0.84	372.9	8.0	1910.0	1.6	2.0	85	2364
YE5-355L1-6	220	995	97.0	0.84	410.2	8.0	2101.0	1.6	2.0	85	2428
YE5-355L2-6	250	995	97.0	0.84	466.2	8.0	2387.5	1.6	2.0	85	2493

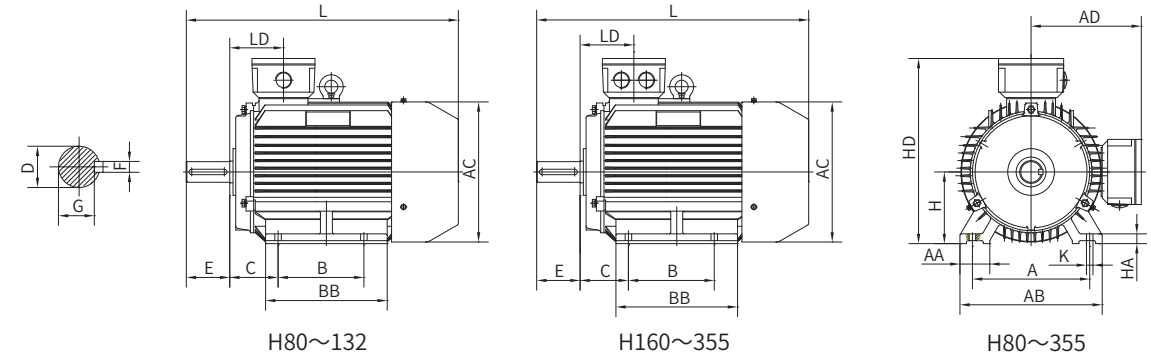
### 技术数据 Technical Specifications

YE5: 8-POLE/50Hz/750r/min

电机型号 Motor Type	功率	转速	效率 100%负载	功率 因数	额定电流	堵转电流 额定电流	额定转矩	堵转转矩 额定转矩	最大转矩 额定转矩	噪声	重量
	Power	Speed	Efficiency	Power Factor	Current	Locked Current Rated Current	Rated Torque	Locked Torque Rated Torque	Maximun Torque Rated Torque	Noise	Weight
	kW	r/min	$\eta\%$	COS $\Phi$	380V I <sub>N</sub> /A	I <sub>st</sub> /I <sub>N</sub>	TN (N.m)	T <sub>st</sub> /TN	TM/TN	dB(A)	Kg
YE5-100L1-8	0.75	715	82.0	0.66	2.1	7.0	9.6	2.0	2.0	59	37
YE5-100L2-8	1.1	715	84.0	0.66	3.0	7.0	14.0	2.0	2.0	59	46
YE5-112M-8	1.5	720	85.5	0.67	4.0	7.0	19.1	2.0	2.0	61	54
YE5-132S-8	2.2	725	87.2	0.69	5.6	7.5	28.0	1.8	2.0	64	74
YE5-132M-8	3	725	88.4	0.69	7.5	7.9	38.2	1.8	2.0	64	91
YE5-160M1-8	4	725	89.4	0.69	9.9	7.9	50.9	1.8	2.0	68	140
YE5-160M2-8	5.5	725	90.4	0.70	13.2	8.1	70.0	1.8	2.0	68	150
YE5-160L-8	7.5	730	91.3	0.70	17.8	7.8	95.5	1.8	2.0	68	177
YE5-180L-8	11	735	92.2	0.72	25.2	7.9	140.1	1.8	2.0	70	188
YE5-200L-8	15	735	92.9	0.72	34.1	8.0	191.0	1.8	2.0	73	227
YE5-225S-8	18.5	735	93.3	0.75	40.2	8.1	235.6	1.8	2.0	73	230
YE5-225M-8	22	740	93.6	0.76	47.0	8.3	280.1	1.8	2.0	73	277
YE5-250M-8	30	740	94.1	0.77	62.9	7.9	382.0	1.8	2.0	75	339
YE5-280S-8	37	740	94.4	0.77	77.3	7.9	471.1	1.8	2.0	76	526
YE5-280M-8	45	740	94.7	0.78	92.6	7.9	573.0	1.8	2.0	76	693
YE5-315S-8	55	740	94.9	0.78	112.9	8.2	700.3	1.6	2.0	82	827
YE5-315M-8	75	740	95.3	0.78	153.3	7.6	955.0	1.6	2.0	82	962
YE5-315L1-8	90	740	95.5	0.78	183.6	7.7	1146.0	1.6	2.0	82	1155
YE5-315L2-8	110	740	95.7	0.78	223.9	7.7	1400.7	1.6	2.0	82	1276
YE5-355M1-8	132	745	95.9	0.79	264.7	7.7	1680.8	1.6	2.0	89	1734
YE5-355M2-8	160	745	96.1	0.79	320.2	7.7	2037.3	1.6	2.0	89	2098
YE5-355M3-8	185	745	96.2	0.79	369.9	7.8	2355.7	1.6	2.0	89	2162
YE5-355L1-8	200	745	96.3	0.79	399.4	7.8	2546.7	1.6	2.0	89	2204
YE5-355L2-8	220	745	96.3	0.79	439.4	7.8	2801.3	1.1	1.8	89	2251

### 安装及外形尺寸 Mounting and Overall Dimensins

IMB3 H80~355



机座号 Frame size	极数 Poles	尺寸 Dimensions in mm																	
		A	AA	B	C	D*	E	F	G	H	K	AB	AC	AD	HD	L	BB	HA	LD
80M	2,4	125	34	100	50	19	40	6	15.5	80	10	165	175	145	220	300	142	12	72
90S	2,4,6	140	36	100	56	24	50	8	20	90	10	180	205	175	265	360	180	12	76
90L	2,4,6	140	36	125	56	24	50	8	20	90	10	180	205	175	265	390	220	12	76
100L	2,4,6,8	160	40	140	63	28	60	8	24	100	12	205	215	180	270	435	233	14	83
112M	2,4,6,8	190	45	140	70	28	60	8	24	112	12	230	235	200	310	435	216	15	87
132S	2,4,6,8	216	55	140	89	38	80	10	33	132	12	270	296	230	350	510	231	18	99
132M	4,6,8	216	55	178	89	38	80	10	33	132	12	270	296	230	350	540	261	18	99
160M	2,4,6,8	254	65	210	108	42	110	12	37	160	14.5	320	335	265	420	670	303	20	146
160L	2,4,6,8	254	65	254	108	42	110	12	37	160	14.5	320	335	265	420	710	343	20	146
180M	2,4	279	70	241	121	48	110	14	42.5	180	14.5	355	365	285	460	730	359	22	161
180L	4,6,8	279	70	279	121	48	110	14	42.5	180	14.5	355	365	285	460	765	394	22	161
200L	2,4,6,8	318	70	305	133	55	110	16	49	200	18.5	395	418	325	525	870	454	25	186
225S	4,8	356	75	286	149	60	140	18	53	225	18.5	435	465	350	575	895	431	28	189
225M	2	356	75	311	149	55	110	16	49	225	18.5	435	465	350	575	895	465	28	189
	4,6,8	356	75	311	149	60	140	18	53	225	18.5	435	465	350	575	925	465	28	189
250M	2	406	80	349	168	60	140	18	53	250	24	490	525	405	655	985	515	30	207
	4,6,8	406	80	349	168	65	140	18	58	250	24	490	525	405	655	985	515	30	207
280S	2	457	85	368	190	65	140	18	58	280	24	550	588	415	705	995	510	35	215
	4,6,8	457	85	368	190	75	140	20	67.5	280	24	550	588	415	705	995	510	35	215
280M	2	457	85	419	190	65	140	18	58	280	24	550	588	415	705	1040	550	35	215
	4,6,8	457	85	419	190	75	140	20	67.5	280	24	550	588	415	705	1040	550	35	215
315S	2	508	120	406	216	65	140	18	58	315	28	635	620	525	845	1205	570	45	257
	4,6,8	508	120	406	216	80	170	22	71	315	28	635	620	525	845	1235	570	45	257
315M	2	508	120	457/508	216	65	140	18	58	315	28	635	620	525	845	1315	680	45	257
	4,6,8	508	120	457/508	216	80	170	22	71	315	28	635	620	525	845	1345	680	45	257
315L	2	508	120	457/508	216	65	140	18	58	315	28	635	620	525	845	1315	680	45	257
	4,6,8	508	120	457/508	216	80	170	22	71	315	28	635	620	525	845	1345	680	45	257
355M	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	750	52	284
	4,6,8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1545	750	52	284
355L	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	750	52	284
	4,6,8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1545	750	52	284

注: D尺寸公差:  $\phi 19-28$ 为j6;  $\phi 38-48$ 为k6;  $\phi 55-95$ 为m6。

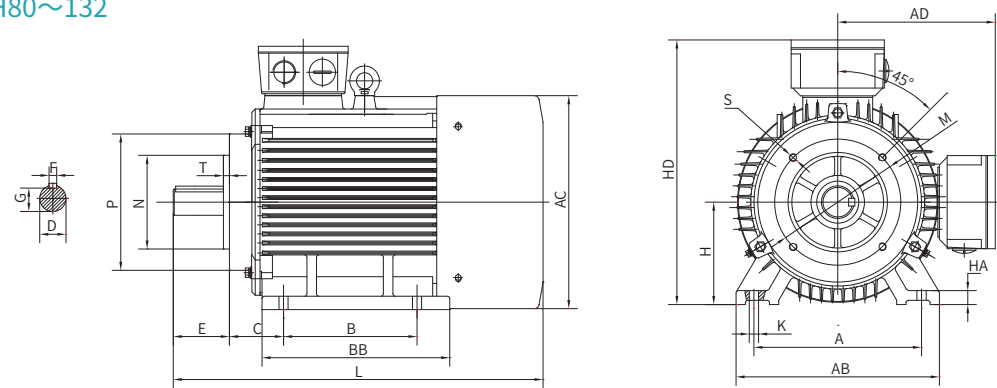
Notes: Tolerance for D dimension: j6 for  $\phi 19-28$ ; k6 for  $\phi 38-48$ ; m6 for  $\phi 55-95$ .





### 安装及外形尺寸 Mounting and Overall Dimensions

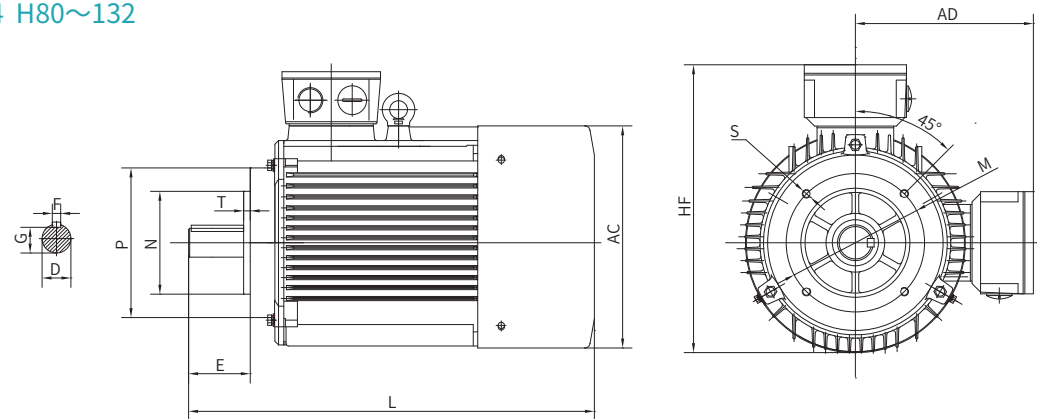
#### IMB34 H80~132



机座号 Frame size	极数 Poles	尺寸 Dimensions in mm												外形尺寸 Overall dimensions				凸缘孔数 Flange holes					
		A	B	C	D*	E	F	G	H	K	M	N*	P	R*	S	T	AB		AC	AD	HD	BB	L
80M	2,4,6,8	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3	165	175	145	220	142	300	4
90S	2,4,6,8	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3	180	205	175	265	180	360	4
90L	2,4,6,8	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3	180	205	175	265	220	390	4
100L	2,4,6,8	160	140	63	28	60	8	24	100	12	130	110	160	0	M8	3.5	205	215	180	270	233	435	4
112M	2,4,6,8	190	140	70	28	60	8	24	112	12	130	110	160	0	M8	3.5	230	235	200	310	216	435	4
132S	2,4,6,8	216	140	89	38	80	10	33	132	12	165	130	200	0	M10	4	265	296	230	350	226	510	4
132M	2,4,6,8	216	178	89	38	80	10	33	132	12	165	130	200	0	M10	4	265	296	230	350	256	540	4

注: N尺寸公差为j6。Notes: Tolerance for N dimension is j6.

#### IMB14 H80~132

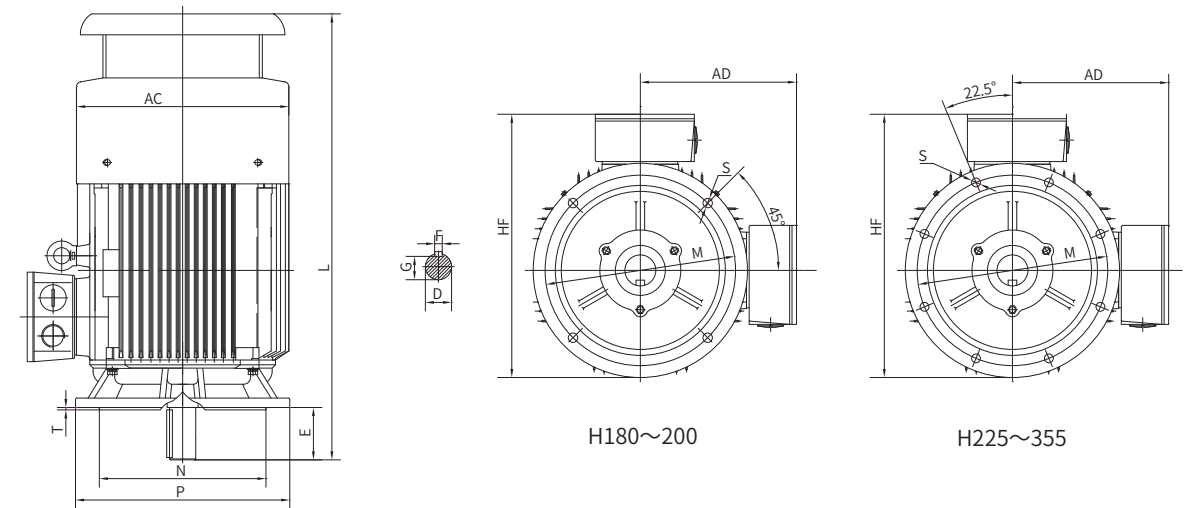


机座号 Frame size	极数 Poles	尺寸 Dimensions in mm										凸缘孔数 Flange holes	外形尺寸 Overall dimensions			
		D*	E	F	G	M	N*	P	R	S	T		AC	AD	HF	L
80M	2,4,6,8	19	40	6	15.5	100	80	120	0	M6	3	4	175	145	—	300
90S	2,4,6,8	24	50	8	20	115	95	140	0	M8	3	4	205	175	—	360
90L	2,4,6,8	24	50	8	20	115	95	140	0	M8	3	4	205	175	—	390
100L	2,4,6,8	28	60	8	24	130	110	160	0	M8	3.5	4	215	180	245	435
112M	2,4,6,8	28	60	8	24	130	110	160	0	M8	3.5	4	235	200	275	435
132S	2,4,6,8	38	80	10	33	165	130	200	0	M10	4	4	296	230	350	510
132M	2,4,6,8	38	80	10	33	165	130	200	0	M10	4	4	296	230	350	540

注: N尺寸公差为j6。Notes: Tolerance for N dimension is j6.

### 安装及外形尺寸 Mounting and Overall Dimensions

#### IMV1 H180~355



机座号 Frame Size	极数 Poles	尺寸 Dimensions in mm										凸缘孔数 Flange holes	外形尺寸 Overall dimensions			
		D*	E	F	G	M	N*	P	R	S	T		AC	AD	HF	L
180M	2,4,6,8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	790
180L	4,6,8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	825
200L	2,4,6,8	55	110	16	49	350	300	400	0	18.5	5	4	418	325	595	940
225S	2,4,6,8	60	140	18	53	400	350	450	0	18.5	5	8	465	350	647	985
225M	2	55	140	16	49	400	350	450	0	18.5	5	8	465	350	647	985
	4,6,8	60		18	53											1015
250M	2	60	140	18	53	500	450	550	0	18.5	5	8	525	405	726	1090
	4,6,8	65		18	58											1115
280S	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1115
	4,6,8	75		20	67.5											1160
280M	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1160
	4,6,8	75		20	67.5											1160
315S	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1355
	4,6,8	80		22	71											1385
315M	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1465
	4,6,8	80		22	71											1495
315L	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1465
	4,6,8	80		22	71											1495
355M	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1620
	4,6,8	95		25	86											1665
355L	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1620
	4,6,8	95		25	86											1665

注: 1) D尺寸公差: φ19-28为j6; φ38-48为k6; φ55-95为m6。2) N尺寸公差为j6。  
Notes: 1) Tolerance for D dimension: j6 for φ19-28; k6 for φ38-48; m6 for φ55-95.

2) Tolerance for N dimension is j6.

# YE3VP 系列

## 变频调速三相异步电动机

### YE3VP series Frequency-variable Induction Motor



YE3VP系列变频调速三相异步电动机是根据国家政策和响应市场的需求,在2011年开发研制的高效变频调速电动机,其工频380V、50Hz的效率指标达到了国家中小型三相异步电动机能效限定值及能效级GB18613-2012的3级。它具有效率高、噪音低,振动小,调速范围广,运行可靠等优点。

该系列电机采用优越的电磁设计方案及低能耗的冷轧硅钢板和纯度很高的防电晕电磁漆包线,以使电机在低速时恒转矩输出及在高频段保持一定的过载能力。采用性能优良的电磁线及绝缘材料,可靠的浸渍过程及检测措施,使电机在变频器高频载波引起的过电压方面具有很强的适应能力。

YE3VP系列变频调速电机采用独立的风机冷却,以保证电机在低速长期运行时温升不超过允许值。

YE3VP系列电机安装尺寸与功率的对应关系,除外形轴向长度外,安装尺寸与Y2VP系列电机一样,便于选型,安装,维护和互换。

YE3VP系列电机可方便的安装制动装置,编码器,测速机以实现快速制动和自动控制。

YE3VP系列变频调速电机,广泛用于纺织、风机,水泵调节流量及机床、化工冶金、钢铁等行业的恒转矩(基频以下)和恒功率(基频以上)调速,并可以满足造纸、电缆、塑料、包装、电梯、起重等特殊领域的需要。

YE3VP frequency conversion motor is based on national policies and in response to market demand, in 2011, developed high efficiency variable frequency motor. 380V, 50Hz efficiency indicators reached the national small and medium-sized three-phase asynchronous motor energy efficiency limit value and energy efficiency level GB18613-2012 level 3. It has the advantages of high efficiency, low noise, small vibration, wide speed range, and reliable operation.

This series of motors adopts superior electromagnetic design and low energy consumption of cold-rolled silicon steel sheets and high purity anti-corona copper wire, so that the motor at low speed constant torque output and in the high frequency maintain a certain overload ability. The use of excellent performance of copper wires and insulation materials, reliable impregnation process and detection measures, so that the motor has a strong adaptability during motor overloading when working together with frequency inverter.

YE3VP motor adopts independent fan cooling to ensure that the temperature rise of the motor does not exceed the allowable value when running at low speed for a long time. Ye3VP series motor mounting dimension and power correspondence, except for the axial length, the mounting dimension is the same as the Y2VP series motor, easy to install and maintain, etc.

YE3VP series motors can be easily installed with brakes, encoders for fast braking and automatic control.

YE3VP series motor, widely used in textile, fan, water pump and machine tools, chemical metallurgy, steel and other industries of constant torque (below the base frequency) and constant power (above the base frequency) speed regulation, and can meet the needs of papermaking, cable, plastics, packaging, elevators, lifting and other special fields.

### 技术数据 Technical Specifications

YE3VP: 2-POLE/50Hz/3000r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流	堵转转矩	最大转矩	轴流风机功率	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current	Locked Torque	Maximun Torque	Axial fan power	Weight
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A	r/min	N.m	η%	COSΦ	Ist/IN	Tst/TN	TM/TN	dB(A)	Kg
YE3VP80M1-2	0.75	1	1.7	1.6	2845	2.4	80.7	0.82	7.0	2.3	2.3	30	17
YE3VP80M2-2	1.1	1.5	2.4	2.3	2840	3.5	82.7	0.83	7.6	2.2	2.3	30	18
YE3VP90S-2	1.5	2	3.2	3.1	2840	4.8	84.2	0.84	7.9	2.2	2.3	31	24
YE3VP90L-2	2.2	3	4.6	4.3	2840	7.0	85.9	0.85	7.9	2.2	2.3	31	27
YE3VP100L-2	3	4	6.0	5.7	2860	9.6	87.1	0.87	8.5	2.2	2.3	40	35
YE3VP112M-2	4	5.5	7.8	7.4	2890	12.7	88.1	0.88	8.5	2.2	2.3	43	43
YE3VP132S1-2	5.5	7.5	10.6	10.1	2910	17.5	89.2	0.88	8.5	2.0	2.3	37	62
YE3VP132S2-2	7.5	10	14.4	13.7	2905	23.9	90.1	0.88	8.5	2.0	2.3	37	64
YE3VP160M1-2	11	15	20.6	19.6	2935	35.0	91.2	0.89	8.5	2.0	2.3	80	112
YE3VP160M2-2	15	20	27.9	26.5	2935	47.8	91.9	0.89	8.5	2.0	2.3	80	122
YE3VP160L-2	18.5	25	34.2	32.5	2935	58.9	92.4	0.89	8.5	2.0	2.3	80	139
YE3VP180M-2	22	30	40.5	38.5	2940	70.0	92.7	0.89	8.5	2.0	2.3	90	174
YE3VP200L1-2	30	40	54.9	52.1	2945	95.5	93.3	0.89	8.5	2.0	2.3	130	225
YE3VP200L2-2	37	50	67.4	64.0	2945	117.8	93.7	0.89	8.5	2.0	2.3	130	245
YE3VP225M-2	45	60	80.8	76.8	2950	143.3	94.0	0.90	8.0	2.0	2.3	135	251
YE3VP250M-2	55	75	98.5	93.5	2965	175.1	94.3	0.90	8.0	2.0	2.3	165	390
YE3VP280S-2	75	100	133.7	127.0	2965	238.8	94.7	0.90	7.5	1.8	2.3	370	525
YE3VP280M-2	90	120	159.9	151.9	2965	286.5	95.0	0.90	7.5	1.8	2.3	370	555
YE3VP315S-2	110	150	195.1	185.3	2975	350.2	95.2	0.90	7.5	1.8	2.3	750	950
YE3VP315M-2	132	176	233.6	221.9	2975	420.2	95.4	0.90	7.5	1.8	2.3	750	1000
YE3VP315L1-2	160	215	279.4	265.5	2975	509.3	95.6	0.91	7.5	1.8	2.3	750	1110
YE3VP315L2-2	200	270	348.6	331.1	2975	636.7	95.8	0.91	7.5	1.8	2.2	750	1220
YE3VP355M-2	250	340	435.7	413.9	2970	795.8	95.8	0.91	7.5	1.6	2.2	1500	1720
YE3VP355L-2	315	420	549.0	521.5	2970	1002.8	95.8	0.91	7.5	1.6	2.2	1500	1910
YE3VP355X1-2	355	475	625.6	594.3	2970	1130.1	95.8	0.90	8.6	0.9	1.8	1500	1990
YE3VP355X2-2	400	500	704.9	669.6	2970	1273.3	95.8	0.90	8.6	0.9	1.8	1500	2010
YE3VP355X3-2	450	600	793.0	753.3	2970	1432.5	95.8	0.90	8.6	0.8	1.8	1500	2360
YE3VP355X4-2	500	670	881.1	837.1	2970	1591.7	95.8	0.90	8.6	0.8	1.8	1500	2490
YE3VP400M1-2	355	475	625.6	594.3	2970	1130.1	95.8	0.90	8.6	0.9	1.8	2200	2400
YE3VP400M2-2	400	535	704.9	669.6	2970	1273.3	95.8	0.90	8.6	0.9	1.8	2200	2490
YE3VP400M3-2	450	600	793.0	753.3	2970	1432.5	95.8	0.90	8.6	0.8	1.8	2200	2730
YE3VP400L-2	500	670	881.1	837.1	2970	1591.7	95.8	0.90	8.6	0.8	1.8	2200	2930

### 技术数据 Technical Specifications

#### YE3VP: 4-POLE/50Hz/1500r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流	堵转转矩	最大转矩	轴流风机功率	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current	Locked Torque	Maximun Torque	Axial fan power	Weight
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A	r/min	N.m	η%	COSφ	Ist/IN	Tst/TN	TM/TN	W	Kg
YE3VP80M1-4	0.55	0.75	1.4	1.3	1380	3.5	80.8	0.75	86.6	2.4	2.3	30	16
YE3VP80M2-4	0.75	1	1.8	1.7	1380	4.8	82.5	0.75	6.6	2.3	2.3	30	18
YE3VP90S-4	1.1	1.5	2.6	2.5	1390	7.0	84.1	0.76	6.8	2.3	2.3	31	24
YE3VP90L-4	1.5	2	3.5	3.3	1390	9.6	85.3	0.77	7.0	2.3	2.3	31	29
YE3VP100L1-4	2.2	3	4.8	4.5	1410	14.0	86.7	0.81	7.6	2.3	2.3	40	36
YE3VP100L2-4	3	4	6.3	6.0	1410	19.1	87.7	0.82	7.6	2.3	2.3	40	38
YE3VP112M-4	4	5.5	8.4	7.9	1440	25.5	88.6	0.82	7.8	2.2	2.3	43	46
YE3VP132S-4	5.5	7.5	11.2	10.7	1445	35.0	89.6	0.83	7.9	2.0	2.3	37	64
YE3VP132M-4	7.5	10	15.0	14.3	1445	47.8	90.4	0.84	7.5	2.0	2.3	37	76
YE3VP160M-4	11	15	21.5	20.4	1460	70.0	91.4	0.85	7.7	2.2	2.3	80	118
YE3VP160L-4	15	20	28.8	27.3	1460	95.5	92.1	0.86	7.8	2.2	2.3	80	138
YE3VP180M-4	18.5	25	35.3	33.5	1470	117.8	92.6	0.86	7.8	2.0	2.3	90	172
YE3VP180L-4	22	30	41.8	39.7	1470	140.1	93.0	0.86	7.8	2.0	2.3	90	186
YE3VP200L-4	30	40	56.6	53.8	1470	191.0	93.6	0.86	7.3	2.0	2.3	130	238
YE3VP225S-4	37	50	69.6	66.1	1475	235.6	93.9	0.86	7.4	2.0	2.3	135	293
YE3VP225M-4	45	60	84.4	80.2	1475	286.5	94.2	0.86	7.4	2.0	2.3	135	330
YE3VP250M-4	55	75	102.7	97.6	1475	350.2	94.6	0.86	7.4	2.2	2.3	165	392
YE3VP280S-4	75	100	136.3	129.5	1485	477.5	95.0	0.88	6.9	2.0	2.3	370	520
YE3VP280M-4	90	120	163.2	155.1	1485	573.0	95.2	0.88	6.9	2.0	2.3	370	615
YE3VP315S-4	110	150	196.8	187.0	1485	700.3	95.4	0.89	7.0	2.0	2.2	750	945
YE3VP315M-4	132	176	235.7	223.9	1485	840.4	95.6	0.89	7.0	2.0	2.2	750	1025
YE3VP315L1-4	160	215	285.1	270.9	1485	1018.7	95.8	0.89	7.1	2.0	2.2	750	1085
YE3VP315L2-4	200	270	351.7	334.1	1485	1273.3	96.0	0.90	7.1	2.0	2.2	750	1190
YE3VP355M-4	250	340	439.6	417.7	1490	1591.7	96.0	0.90	7.1	2.0	2.2	1500	1750
YE3VP355L-4	315	420	553.9	526.2	1490	2005.5	96.0	0.90	7.1	2.0	2.2	1500	1920
YE3VP355X1-4	355	475	638.5	606.5	1490	2260.2	96.0	0.88	8.4	0.9	1.8	1500	1990
YE3VP355X2-4	400	500	719.4	683.4	1490	2546.7	96.0	0.88	8.4	0.9	1.8	1500	2150
YE3VP355X3-4	450	600	809.3	768.9	1490	2865.0	96.0	0.88	8.4	0.8	1.8	1500	2260
YE3VP355X4-4	500	670	899.3	854.3	1490	3183.3	96.0	0.88	8.4	0.8	1.8	1500	2410
YE3VP400M1-4	355	475	638.5	606.5	1490	2260.2	96.0	0.88	8.4	0.9	1.8	2200	2700
YE3VP400M2-4	400	535	719.4	683.4	1490	2546.7	96.0	0.88	8.4	0.9	1.8	2200	2830
YE3VP400M3-4	450	600	809.3	768.9	1490	2865.0	96.0	0.88	8.4	0.8	1.8	2200	2940
YE3VP400L1-4	500	670	899.3	854.3	1490	3183.3	96.0	0.88	8.4	0.8	1.8	2200	3060
YE3VP400L2-4	560	750	995.9	946.1	1490	3565.3	96.0	0.89	8.5	0.8	1.8	2200	3210
YE3VP400L3-4	630	840	1120.3	1064.3	1490	4011.0	96.0	0.89	8.5	0.8	1.8	2200	3280

### 技术数据 Technical Specifications

#### YE3VP: 6-POLE/50Hz/1000r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流	堵转转矩	最大转矩	轴流风机功率	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current	Locked Torque	Maximun Torque	Axial fan power	Weight
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A	r/min	N.m	η%	COSφ	Ist/IN	Tst/TN	TM/TN	W	Kg
YE3VP80M1-6	0.37	0.5	1.1	1.0	900	3.5	73.5	0.70	6.0	1.9	2.0	30	17
YE3VP80M2-6	0.55	0.75	1.5	1.4	900	5.3	77.2	0.72	6.0	1.9	2.1	30	19
YE3VP90S-6	0.75	1	2.0	1.9	915	7.2	78.9	0.71	6.0	2.0	2.1	31	24
YE3VP90L-6	1.1	1.5	2.8	2.7	915	10.5	81.0	0.73	6.0	2.0	2.1	31	31
YE3VP100L-6	1.5	2	3.8	3.6	920	14.3	82.5	0.73	6.5	2.0	2.1	40	41
YE3VP112M-6	2.2	3	5.4	5.1	940	21.0	84.3	0.74	6.6	2.0	2.1	43	51
YE3VP132S-6	3	4	7.2	6.8	960	28.7	85.6	0.74	6.8	2.0	2.1	37	68
YE3VP132M1-6	4	5.5	9.5	9.0	960	38.2	86.8	0.74	6.8	2.0	2.1	37	76
YE3VP132M2-6	5.5	7.5	12.7	12.0	960	52.5	88.0	0.75	7.0	2.0	2.1	37	86
YE3VP160M-6	7.5	10	16.2	15.4	970	71.6	89.1	0.79	7.0	2.0	2.1	80	117
YE3VP160L-6	11	15	23.1	22.0	970	105.1	90.3	0.80	7.2	2.0	2.1	80	140
YE3VP180L-6	15	20	30.9	29.3	970	143.3	91.2	0.81	7.3	2.0	2.1	90	185
YE3VP200L1-6	18.5	25	37.8	36.0	975	176.7	91.7	0.81	7.3	2.0	2.1	130	235
YE3VP200L2-6	22	30	44.8	42.5	975	210.1	92.2	0.81	7.4	2.0	2.1	130	249
YE3VP225M-6	30	40	59.1	56.2	980	286.5	92.9	0.83	6.9	2.0	2.1	135	308
YE3VP250M-6	37	50	71.7	68.1	980	353.4	93.3	0.84	7.1	2.0	2.1	165	374
YE3VP280S-6	45	60	85.8	81.6	980	429.8	93.7	0.85	7.3	2.0	2.0	370	518
YE3VP280M-6	55	75	103.3	98.1	980	525.3	94.1	0.86	7.3	2.0	2.0	370	670
YE3VP315S-6	75	100	143.4	136.2	985	716.3	94.6	0.84	6.6	2.0	2.0	750	920
YE3VP315M-6	90	120	169.5	161.0	985	859.5	94.9	0.85	6.7	2.0	2.0	750	980
YE3VP315L1-6	110	150	206.8	196.4	985	1050.5	95.1	0.85	6.7	2.0	2.0	750	1165
YE3VP315L2-6	132	176	244.5	232.2	985	1260.6	95.4	0.86	6.8	2.0	2.0	750	1276
YE3VP355M1-6	160	215	295.7	280.9	990	1528.0	95.6	0.86	6.8	1.8	2.0	1500	1653
YE3VP355M2-6	200	270	364.6	346.4	990	1910.0	95.8	0.87	6.8	1.8	2.0	1500	1804
YE3VP355L-6	250	340	455.7	433.0	990	2387.5	95.8	0.87	6.8	1.8	2.0	1500	1961
YE3VP355X1-6	315	420	609.3	578.8	990	3008.3	95.8	0.82	7.8	0.9	1.8	1500	1990
YE3VP355X2-6	355	475	686.6	652.3	990	3390.3	95.8	0.82	7.8	0.9	1.8	1500	2230
YE3VP355X3-6	400	535	764.3	726.1	990	3820.0	95.8	0.83	7.9	0.9	1.8	1500	2300
YE3VP400M1-6	315	420	609.3	578.8	990	3008.3	95.8	0.82	7.8	0.9	1.8	2200	2440
YE3VP400M2-6	355	475	686.6	652.3	990	3390.3	95.8	0.82	7.8	0.9	1.8	2200	2590
YE3VP400L1-6	400	535	764.3	726.1	990	3820.0	95.8	0.83	7.9	0.9	1.8	2200	2800
YE3VP400L2-6	450	600	859.9	816.9	990	4297.5	95.8	0.83	7.9	0.8	1.8	2200	3050
YE3VP400L3-6	500	670	955.4	907.7	990	4775.0	95.8	0.83	7.9	0.8	1.8	2200	3340



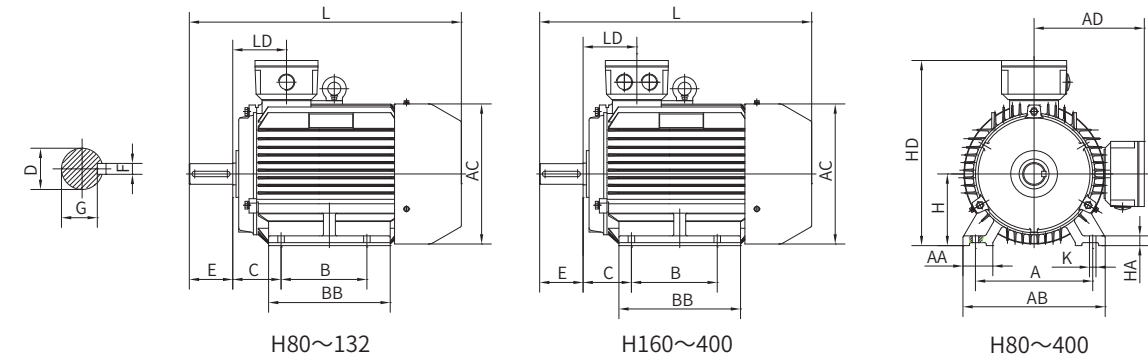
### 技术数据 Technical Specifications

YE3VP: 8-POLE/50Hz/750r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流	堵转转矩	最大转矩	轴流风机功率	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current	Locked Torque	Maximum Torque	Axial fan power	Weight
	kW	HP	380V I <sub>N</sub> /A	400V I <sub>N</sub> /A	r/min	N.m	η%	COSφ	Ist/IN	Tst/TN	TM/TN	W	Kg
YE3VP80M1-8	0.18	0.24	0.8	0.7	665	2.3	58.7	0.61	5.2	1.8	1.9	30	18
YE3VP80M2-8	0.25	0.33	1.0	0.9	665	3.2	64.1	0.61	5.7	1.8	1.9	30	21
YE3VP90S-8	0.37	0.55	1.3	1.3	685	4.7	69.3	0.61	6.2	1.8	1.9	31	26
YE3VP90L-8	0.55	0.75	1.9	1.8	685	7.0	73.0	0.61	5.9	1.8	2.0	31	32
YE3VP100L1-8	0.75	1	2.3	2.2	705	9.6	75.0	0.67	6.2	1.8	2.0	40	42
YE3VP100L2-8	1.1	1.5	3.1	3.0	705	14.0	77.7	0.69	6.2	1.8	2.0	40	48
YE3VP112M-8	1.5	2	4.1	3.9	705	19.1	79.7	0.70	6.7	1.8	2.0	43	54
YE3VP132S-8	2.2	3	5.7	5.5	720	28.0	81.9	0.71	6.7	1.8	2.0	37	70
YE3VP132M-8	3	4	7.5	7.1	720	38.2	83.5	0.73	6.9	1.8	2.0	37	82
YE3VP160M1-8	4	5.5	9.8	9.3	725	50.9	84.8	0.73	6.9	1.9	2.0	80	90
YE3VP160M2-8	5.5	7.5	13.1	12.4	725	70.0	86.2	0.74	6.9	1.9	2.0	80	98
YE3VP160L-8	7.5	10	17.4	16.5	725	95.5	87.3	0.75	6.6	1.9	2.0	80	121
YE3VP180L-8	11	15	25.2	23.9	730	140.1	88.6	0.75	6.6	2.0	2.0	90	190
YE3VP200L-8	15	20	33.5	31.8	730	191.0	89.6	0.76	6.8	2.0	2.0	130	236
YE3VP225S-8	18.5	25	41.0	39.0	735	235.6	90.1	0.76	6.8	1.9	2.0	135	280
YE3VP225M-8	22	30	47.3	44.9	735	280.1	90.6	0.78	7.0	1.9	2.0	135	300
YE3VP250M-8	30	40	63.2	60.0	735	382.0	91.3	0.79	6.7	1.9	2.0	165	378
YE3VP280S-8	37	50	77.5	73.6	735	471.1	91.8	0.79	6.7	1.9	2.0	370	530
YE3VP280M-8	45	60	93.9	89.2	735	573.0	92.2	0.79	6.7	1.9	2.0	370	682
YE3VP315S-8	55	75	111.5	106.0	745	700.3	92.5	0.81	6.8	1.8	2.0	750	930
YE3VP315M-8	75	100	151.1	143.6	745	955.0	93.1	0.81	6.3	1.8	2.0	750	991
YE3VP315L1-8	90	120	178.5	169.6	745	1146.0	93.4	0.82	6.4	1.8	2.0	750	1171
YE3VP315L2-8	110	150	217.5	206.6	745	1400.7	93.7	0.82	6.4	1.8	2.0	750	1286
YE3VP355M1-8	132	176	260.2	247.2	745	1680.8	94.0	0.82	6.4	1.8	2.0	1500	1678
YE3VP355M2-8	160	215	314.4	298.7	745	2037.3	94.3	0.82	6.4	1.8	2.0	1500	1816
YE3VP355L-8	200	270	387.0	367.7	745	2546.7	94.6	0.83	6.4	1.8	2.0	1500	1951
YE3VP355X1-8	250	340	501.9	476.8	745	3183.3	94.6	0.80	7.5	1.1	2.0	1500	1990
YE3VP355X2-8	315	420	632.4	600.8	745	4011.0	94.6	0.80	7.5	0.9	1.8	1500	2010
YE3VP400M1-8	250	340	501.9	476.8	745	3183.3	94.6	0.80	7.5	1.1	1.8	2200	2800
YE3VP400M2-8	280	380	562.1	534.0	745	3565.3	94.6	0.80	7.5	0.9	1.8	2200	2910
YE3VP400L1-8	315	420	632.4	600.8	745	4011.0	94.6	0.80	7.5	0.9	1.8	2200	3040
YE3VP400L2-8	355	475	712.7	677.1	745	4520.3	94.6	0.80	7.5	0.9	1.8	2200	3180
YE3VP400L3-8	400	535	803.1	762.9	745	5093.3	94.6	0.80	7.5	0.9	1.8	2200	3260

### 安装及外形尺寸 Mounting and Overall Dimensions

IMB3 H80~400



机座号 Frame size	极数 Poles	尺寸 Dimensions in mm																	
		A	AA	B	C	D*	E	F	G	H	K	AB	AC	AD	HD	L	BB	HA	LD
80	2, 4, 6, 8	125	34	100	50	19	40	6	15.5	80	10	165	167	145	220	365	142	12	72
90S	2, 4, 6, 8	140	36	100	56	24	50	8	20	90	10	180	190	170	265	415	180	12	76
90L	2, 4, 6, 8	140	36	125	56	24	50	8	20	90	10	180	190	170	265	445	220	12	76
100L	2, 4, 6, 8	160	40	140	63	28	60	8	24	100	12	205	206	180	270	500	233	14	83
112M	2, 4, 6, 8	190	45	140	70	28	60	8	24	112	12	230	235	200	310	520	216	15	87
132S	2, 4, 6, 8	216	55	140	89	38	80	10	33	132	12	270	296	230	350	575	226	18	99
132M	2, 4, 6, 8	216	55	178	89	38	80	10	33	132	12	270	296	230	350	620	256	18	99
160M	2, 4, 6, 8	254	65	210	108	42	110	12	37	160	14.5	320	335	265	425	660	315	20	146
160L	2, 4, 6, 8	254	65	254	108	42	110	12	37	160	14.5	320	335	265	425	705	355	20	146
180M	2, 4, 6, 8	279	70	241	121	48	110	14	42.5	180	14.5	355	365	285	460	740	359	22	161
180L	4, 6, 8	279	70	279	121	48	110	14	42.5	180	14.5	355	365	285	460	780	394	22	161
200L	2, 4, 6, 8	318	70	305	133	55	110	16	49	200	18.5	395	418	325	525	825	454	25	186
225S	4, 8	356	75	286	149	60	140	18	53	225	18.5	435	465	350	575	875	431	28	189
225M	2	356	75	311	149	55	110	16	49	225	18.5	435	465	350	575	870	466	28	189
225M	4, 6, 8	356	75	311	149	60	140	18	53	225	18.5	435	465	350	575	900	466	28	189
250M	2	406	80	349	168	60	140	18	53	250	24	490	525	405	655	990	515	30	207
250M	4, 6, 8	406	80	349	168	65	140	18	58	250	24	490	525	405	655	990	515	30	207
280S	2	457	85	368	190	65	140	18	58	280	24	550	588	435	705	1090	510	35	215
280S	4, 6, 8	457	85	368	190	75	140	20	67.5	280	24	550	588	435	705	1090	510	35	215
280M	2	457	85	419	190	65	140	18	58	280	24	550	588	435	705	1140	550	35	215
280M	4, 6, 8	457	85	419	190	75	140	20	67.5	280	24	550	588	435	705	1140	550	35	215
315S	2	508	120	406	216	65	140	18	58	315	28	635	620	555	870	1315	570	45	257
315S	4, 6, 8	508	120	406	216	80	170	22	71	315	28	635	620	555	870	1345	570	45	257
315M	2	508	120	457/508	216	65	140	18	58	315	28	635	620	555	870	1415	680	45	257
315M	4, 6, 8	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1445	680	45	257
315L	2	508	120	457/508	216	65	140	18	58	315	28	635	620	555	870	1415	680	45	257
315L	4, 6, 8	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1445	680	45	257
355M	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1730	750	52	284
355M	4, 6, 8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1760	750	52	284
355L	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1730	750	52	284
355L	4, 6, 8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1760	750	52	284
355X	2	630	120	630/710/800	254	75	140	22	71	355	35	760	770	655	1010	2100	750	52	284
355X	4, 6, 8	630	120	630/710/800	254	95	170	28	100	355	35	760	770	655	1010	2130	750	52	284
400	2	686	120	630/710	280	85	170	22	76	400	35	840	860	680	1080	2100	1090	53	370
400	4, 6, 8	686	120	630/710	280	110	210	28	109	400	35	840	860	680	1080	2140	1090	53	370

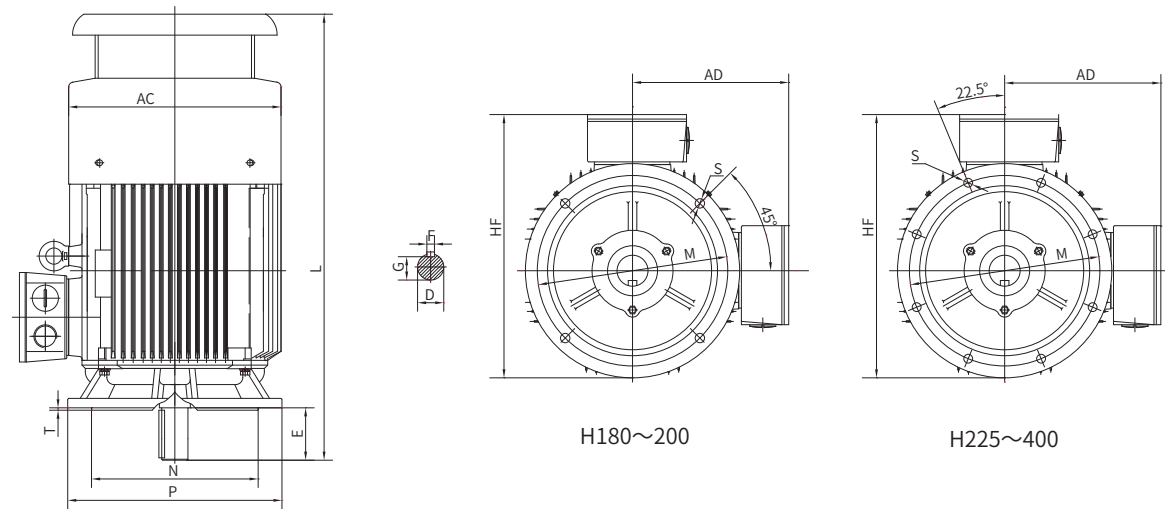
注:注:D尺寸公差:φ19-28为j6;φ38-48为k6;φ55-110为m6。

Notes: Tolerance for D dimension: j6 for φ19-28; k6 for φ38-48; m6 for φ55-110.



### 安装及外形尺寸 Mounting and Overall Dimensions

IMV1 H180~400



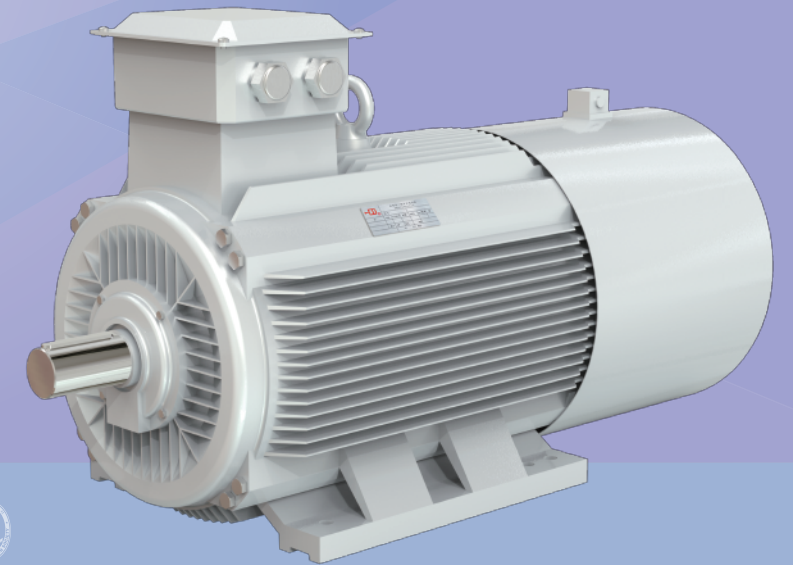
机座号 Frame size	极数 Poles											凸缘孔数 Flange holes				
		D*	E	F	G	M	N*	P	R	S	T		AC	AD	HF	L
180M	2、4、6、8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	800
180L	4、6、8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	840
200L	2、4、6、8	55	110	16	49	350	300	400	0	18.5	5	4	418	325	595	885
225S	2、4、6、8	60	140	18	53	400	350	450	0	18.5	5	8	465	350	647	935
225M	2	55	140	16	49	400	350	450	0	18.5	5	8	465	350	647	930
	4、6、8	60		18	53											960
250M	2	60	140	18	53	500	450	550	0	18.5	5	8	525	405	726	1050
	4、6、8	65		18	58											1050
280S	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1150
	4、6、8	75		20	67.5											1150
280M	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1200
	4、6、8	75		20	67.5											1200
315S	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1375
	4、6、8	80		22	71											1405
315M	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1475
	4、6、8	80		22	71											1505
315L	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1475
	4、6、8	80		22	71											1505
355M	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1790
	4、6、8	95		25	86											1820
355L	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1790
	4、6、8	95		25	86											1820
355X	2	75	140	22	71	840	780	900	0	24	6	8	770	655	1220	2025
	4、6、8	95		28	100											2075
400	2	85	170	22	76	840	780	900	0	28	6	8	860	680	1255	2150
	4、6、8	110		28	109											2190

注: 1) D尺寸公差: φ19-28为j6; φ38-48为k6; φ55-110为m6。 2) N尺寸公差为j6。  
Notes: 1) Tolerance for D dimension: j6 for φ19-28; k6 for φ38-48; m6 for φ55-110. 2) Tolerance for N dimension is j6.

# YE4VP 系列

## 变频调速三相异步电动机

### YE4VP series Frequency-variable Induction Motor



YE4VP系列变频调速三相异步电动机是根据国家政策和响应市场的需求,在2011年开发研制的高效变频调速电动机,其工频380V、50Hz的效率指标达到了国家中小型三相异步电动机能效限定值及能效级GB18613-2012的2级。它具有效率高、噪音低,振动小,调速范围广,运行可靠等优点。

该系列电机采用优越的电磁设计方案及低能耗的冷轧硅钢板和纯度很高的防电晕电磁漆包线,以使电机在低速时恒转矩输出及在高频段保持一定的过载能力。采用性能优良的电磁线及绝缘材料,可靠的浸渍过程及检测措施,使电机在变频器高频载波引起的过电压方面具有很强的适应能力。

YE4VP系列变频调速电机采用独立的风机冷却,以保证电机在低速长期运行时温升不超过允许值。

YE4VP系列电机安装尺寸与功率的对应关系,除外形轴向长度外,安装尺寸与Y2VP系列电机一样,便于选型,安装,维护和互换。

YE4VP系列电机可方便的安装制动装置,编码器,测速机以实现快速制动和自动控制。

YE4VP系列变频调速电机,广泛用于纺织、风机,水泵调节流量及机床、化工冶金、钢铁等行业的恒转矩(基频以下)和恒功率(基频以上)调速,并可以满足造纸、电缆、塑料、包装、电梯、起重等特殊领域的需要。

YE4VP frequency conversion motor is based on national policies and in response to market demand, in 2011, developed high efficiency variable frequency motor. 380V, 50Hz efficiency indicators reached the national small and medium-sized three-phase asynchronous motor energy efficiency limit value and energy efficiency level GB18613-2012 level 2. It has the advantages of high efficiency, low noise, small vibration, wide speed range, and reliable operation.

This series of motors adopts superior electromagnetic design and low energy consumption of cold-rolled silicon steel sheets and high purity anti-corona copper wire, so that the motor at low-speed constant torque output and in the high frequency maintain a certain overload ability. The use of excellent performance of copper wires and insulation materials, reliable impregnation process and detection measures, so that the motor has a strong adaptability during motor overloading when working together with frequency inverter.

YE4VP motor adopts independent fan cooling to ensure that the temperature rise of the motor does not exceed the allowable value when running at low speed for a long time. YE4VP series motor mounting dimension and power correspondence, except for the axial length, the mounting dimension is the same as the Y2VP series motor, easy to install and maintain, etc.

YE4VP series motor, widely used in textile, fan, water pump and machine tools, chemical metallurgy, steel and other industries of constant torque (below the base frequency) and constant power (above the base frequency) speed regulation, and can meet the needs of papermaking, cable, plastics, packaging, elevators, lifting and other special fields.



### 技术数据 Technical Specifications

YE4VP: 2-POLE/50Hz/3000r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	轴流 风机 功率	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque	Axial fan power	Weight
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A	r/min	N.m	η%	COSφ	Ist/IN	Tst/TN	TM/TN	W	kg
YE4VP80M1-2	0.75	1	1.6	1.6	2900	2.4	83.5	0.83	8.5	2.2	2.3	30	20
YE4VP80M2-2	1.1	1.5	2.4	2.2	2900	3.5	85.2	0.83	8.5	2.2	2.3	30	22
YE4VP90S-2	1.5	2	3.1	2.9	2890	4.8	86.5	0.85	9.0	2.2	2.3	31	30
YE4VP90L-2	2.2	3	4.4	4.2	2895	7.0	88.0	0.86	9.0	2.2	2.3	31	34
YE4VP100L-2	3	4	5.9	5.6	2905	9.6	89.1	0.87	9.5	2.2	2.3	40	48
YE4VP112M-2	4	5.5	7.7	7.3	2910	12.7	90.0	0.88	9.5	2.2	2.3	43	56
YE4VP132S1-2	5.5	7.5	10.4	9.9	2950	17.5	90.9	0.88	9.5	2.0	2.3	37	78
YE4VP132S2-2	7.5	10	14.0	13.3	2950	23.9	91.7	0.89	9.5	2.0	2.3	37	85
YE4VP160M1-2	11	15	20.3	19.3	2955	35.0	92.6	0.89	9.5	2.0	2.3	80	135
YE4VP160M2-2	15	20	27.4	26.1	2955	47.8	93.3	0.89	9.5	2.0	2.3	80	156
YE4VP160L-2	18.5	25	33.7	32.0	2955	58.9	93.7	0.89	9.5	2.0	2.3	80	173
YE4VP180M-2	22	30	40.0	38.0	2970	70.0	94.0	0.89	9.5	2.0	2.3	90	203
YE4VP200L1-2	30	40	54.2	51.5	2975	95.5	94.5	0.89	9.0	2.0	2.3	130	240
YE4VP200L2-2	37	50	66.6	63.3	2975	117.8	94.8	0.89	9.0	2.0	2.3	130	262
YE4VP225M-2	45	60	80.9	76.8	2975	143.3	95.0	0.89	9.0	2.0	2.3	135	315
YE4VP250M-2	55	75	98.5	93.6	2985	175.1	95.3	0.89	9.0	2.0	2.3	165	445
YE4VP280S-2	75	100	133.9	127.2	2985	238.8	95.6	0.89	8.5	1.8	2.3	370	546
YE4VP280M-2	90	120	160.4	152.4	2985	286.5	95.8	0.89	8.5	1.8	2.3	370	576
YE4VP315S-2	110	150	195.6	185.8	2990	350.2	96.0	0.89	8.5	1.8	2.3	750	1051
YE4VP315M-2	132	176	234.2	222.5	2990	420.2	96.2	0.89	8.5	1.8	2.3	750	1102
YE4VP315L1-2	160	215	283.6	269.5	2990	509.3	96.3	0.89	8.5	1.8	2.2	750	1245
YE4VP315L2-2	200	270	353.8	336.1	2990	636.7	96.5	0.89	8.5	1.8	2.2	750	1318
YE4VP355M-2	250	340	432.6	410.9	2990	795.8	96.5	0.91	8.5	1.6	2.2	750	1919
YE4VP355L-2	315	420	545.0	517.8	2990	1002.8	96.5	0.91	8.5	1.6	2.2	1500	2244
YE4VP355X1-2	355	475	621.1	590.0	2990	1130.1	96.5	0.90	8.6	0.9	1.8	1500	2270
YE4VP355X2-2	400	500	699.8	664.8	2990	1273.3	96.5	0.90	8.6	0.9	1.8	1500	2325
YE4VP355X3-2	450	600	787.2	747.9	2990	1432.5	96.5	0.90	8.6	0.8	1.8	1500	2445
YE4VP355X4-2	500	670	874.7	831.0	2990	1591.7	96.5	0.90	8.6	0.8	1.8	1500	2575
YE4VP400M1-2	355	475	621.1	590.0	2990	1130.1	96.5	0.90	8.6	0.9	1.8	2200	2485
YE4VP400M2-2	400	535	699.8	664.8	2990	1273.3	96.5	0.90	8.6	0.9	1.8	2200	2575
YE4VP400M3-2	450	600	787.2	747.9	2990	1432.5	96.5	0.90	8.6	0.8	1.8	2200	2815
YE4VP400L-2	500	670	874.7	831.0	2990	1591.7	96.5	0.90	8.6	0.8	1.8	2200	3015

### 技术数据 Technical Specifications

YE4VP: 4-POLE/50Hz/1500r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	轴流 风机 功率	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque	Axial fan power	Weight
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A	r/min	N.m	η%	COSφ	Ist/IN	Tst/TN	TM/TN	W	Kg
YE4VP80M1-4	0.55	0.75	1.3	1.3	1440	3.5	83.9	0.74	8.5	2.3	2.3	30	20
YE4VP80M2-4	0.75	1	1.8	1.7	1440	4.8	85.7	0.74	8.5	2.3	2.3	30	25
YE4VP90S-4	1.1	1.5	2.6	2.5	1450	7.0	87.2	0.75	8.5	2.3	2.3	31	33
YE4VP90L-4	1.5	2	3.4	3.3	1450	9.6	88.2	0.76	9.0	2.3	2.3	31	41
YE4VP100L1-4	2.2	3	4.7	4.5	1460	14.0	89.5	0.79	9.0	2.3	2.3	40	46
YE4VP100L2-4	3	4	6.3	6.0	1460	19.1	90.4	0.80	9.5	2.3	2.3	40	56
YE4VP112M-4	4	5.5	8.3	7.9	1460	25.5	91.1	0.80	9.5	2.3	2.3	43	73
YE4VP132S-4	5.5	7.5	11.4	10.7	1475	35.0	91.9	0.80	9.5	2.0	2.3	37	84
YE4VP132M-4	7.5	10	15.2	14.3	1475	47.8	92.6	0.81	9.5	2.0	2.3	37	94
YE4VP160M-4	11	15	21.6	20.4	1475	70.0	93.3	0.83	9.5	2.0	2.3	80	158
YE4VP160L-4	15	20	28.9	27.3	1475	95.5	93.9	0.84	9.5	2.0	2.3	80	194
YE4VP180M-4	18.5	25	35.1	33.5	1480	117.8	94.2	0.85	9.5	2.0	2.3	90	204
YE4VP180L-4	22	30	41.6	39.7	1480	140.1	94.5	0.85	9.5	2.0	2.3	90	222
YE4VP200L-4	30	40	56.5	53.8	1485	191.0	94.9	0.85	9.0	2.0	2.3	130	278
YE4VP225S-4	37	50	69.5	66.1	1485	235.6	95.2	0.85	9.0	2.0	2.3	135	347
YE4VP225M-4	45	60	84.3	80.2	1485	286.5	95.4	0.85	9.0	2.0	2.3	135	376
YE4VP250M-4	55	75	101.5	97.6	1490	350.2	95.7	0.86	9.0	2.0	2.3	165	474
YE4VP280S-4	75	100	136.4	129.5	1490	477.5	96.0	0.87	8.5	2.0	2.3	370	593
YE4VP280M-4	90	120	161.7	155.1	1490	573.0	96.1	0.88	8.5	2.0	2.3	370	671
YE4VP315S-4	110	150	195.0	187.0	1490	700.3	96.3	0.89	8.5	1.8	2.2	750	1036
YE4VP315M-4	132	176	233.8	223.9	1490	840.4	96.4	0.89	8.5	1.8	2.2	750	1117
YE4VP315L1-4	160	215	279.6	270.9	1490	1018.7	96.6	0.90	8.5	1.8	2.2	750	2001
YE4VP315L2-4	200	270	349.2	334.1	1490	1273.3	96.7	0.90	8.5	1.8	2.2	750	1285
YE4VP355M-4	250	340	436.5	417.7	1490	1591.7	96.7	0.90	8.5	1.8	2.2	1500	2056
YE4VP355L-4	315	420	549.9	526.2	1490	2005.5	96.7	0.90	8.5	1.8	2.2	1500	2168
YE4VP355X1-4	355	475	633.9	606.5	1490	2260.2	96.7	0.88	8.5	0.9	1.8	1500	2280
YE4VP355X2-4	400	500	714.2	683.4	1490	2546.7	96.7	0.88	8.5	0.9	1.8	1500	2320
YE4VP355X3-4	450	600	803.5	768.9	1490	2865.0	96.7	0.88	8.5	0.8	1.8	1500	2445
YE4VP355X4-4	500	670	892.7	854.3	1490	3183.3	96.7	0.88	8.5	0.8	1.8	1500	2595
YE4VP400M1-4	355	475	633.9	606.5	1490	2260.2	96.7	0.88	8.5	0.9	1.8	2200	2885
YE4VP400M2-4	400	535	714.2	683.4	1490	2546.7	96.7	0.88	8.5	0.9	1.8	2200	3015
YE4VP400M3-4	450	600	803.5	768.9	1490	2865.0	96.7	0.88	8.5	0.8	1.8	2200	3125
YE4VP400L1-4	500	670	892.7	854.3	1490	3183.3	96.7	0.88	8.5	0.8	1.8	2200	3245
YE4VP400L2-4	560	750	988.6	946.1	1490	3565.3	96.7	0.89	8.6	0.8	1.8	2200	3395
YE4VP400L3-4	630	840	1112.2	1064.3	1490	4011.0	96.7	0.89	8.6	0.8	1.8	2200	3465

### 技术数据 Technical Specifications

YE4VP: 6-POLE/50Hz/1000r/min

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	轴流 风机 功率	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque	Axial fan power	Weight
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A	r/min	N.m	η%	COSφ	Ist/IN	Tst/TN	TM/TN	W	Kg
YE4VP90S-6	0.75	1	2.0	1.9	960	7.2	82.7	0.70	7.5	2.1	2.1	31	24
YE4VP90L-6	1.1	1.5	2.8	2.7	960	10.5	84.5	0.70	7.5	2.1	2.1	31	32
YE4VP100L-6	1.5	2	3.7	3.6	965	14.3	85.9	0.71	7.5	2.1	2.1	40	42
YE4VP112M-6	2.2	3	5.4	5.1	940	21.0	87.4	0.71	7.5	2.1	2.1	43	55
YE4VP132S-6	3	4	7.2	6.9	975	28.7	88.6	0.71	7.5	2.0	2.1	37	72
YE4VP132M1-6	4	5.5	9.4	9.0	975	38.2	89.5	0.72	8.0	2.0	2.1	37	78
YE4VP132M2-6	5.5	7.5	12.8	12.2	975	52.5	90.5	0.72	8.0	2.0	2.1	37	82
YE4VP160M-6	7.5	10	16.4	15.6	980	71.6	91.3	0.76	8.0	2.0	2.1	80	143
YE4VP160L-6	11	15	23.5	22.3	980	105.1	92.3	0.77	8.5	2.0	2.1	80	159
YE4VP180L-6	15	20	30.7	29.1	985	143.3	92.9	0.80	8.5	2.0	2.1	90	201
YE4VP200L1-6	18.5	25	37.6	35.7	985	176.7	93.4	0.80	8.5	2.0	2.1	130	236
YE4VP200L2-6	22	30	44.0	41.8	985	210.1	93.7	0.81	8.5	2.0	2.1	130	250
YE4VP225M-6	30	40	59.0	56.1	985	286.5	94.2	0.82	8.3	2.0	2.1	135	319
YE4VP250M-6	37	50	71.7	68.1	990	353.4	94.5	0.83	8.3	2.0	2.1	165	384
YE4VP280S-6	45	60	86.9	82.6	990	429.8	94.8	0.83	8.5	2.0	2.0	370	513
YE4VP280M-6	55	75	104.6	99.4	990	525.3	95.1	0.84	8.5	2.0	2.0	370	698
YE4VP315S-6	75	100	142.2	135.1	990	716.3	95.4	0.84	8.0	1.6	2.0	750	976
YE4VP315M-6	90	120	168.3	159.9	990	859.5	95.6	0.85	8.0	1.6	2.0	750	1053
YE4VP315L1-6	110	150	205.2	195.0	990	1050.5	95.8	0.85	8.0	1.6	2.0	750	1238
YE4VP315L2-6	132	176	242.9	230.8	990	1260.6	96.0	0.86	8.0	1.6	2.0	750	1385
YE4VP355M1-6	160	215	293.8	279.2	990	1528.0	96.2	0.86	8.0	1.6	2.0	1500	1873
YE4VP355M2-6	200	270	366.9	348.6	990	1910.0	96.3	0.86	8.0	1.6	2.0	1500	2173
YE4VP355L-6	250	340	457.7	434.8	990	2387.5	96.5	0.86	8.0	1.6	2.0	1500	2252
YE4VP355X1-6	315	420	604.2	574.0	990	3008.3	96.6	0.82	7.9	0.9	1.8	1500	2320
YE4VP355X2-6	355	475	680.9	646.9	990	3390.3	96.6	0.82	7.9	0.9	1.8	1500	2410
YE4VP355X3-6	400	535	758.0	720.1	990	3820.0	96.6	0.83	8.0	0.9	1.8	1500	2480
YE4VP400M1-6	315	420	604.2	574.0	990	3008.3	96.6	0.82	7.9	0.9	1.8	2200	2620
YE4VP400M2-6	355	475	680.9	646.9	990	3390.3	96.6	0.82	7.9	0.9	1.8	2200	2770
YE4VP400L1-6	400	535	758.0	720.1	990	3820.0	96.6	0.83	8.0	0.9	1.8	2200	2980
YE4VP400L2-6	450	600	852.8	810.1	990	4297.5	96.6	0.83	8.0	0.8	1.8	2200	3230
YE4VP400L3-6	500	670	947.5	900.1	990	4775.0	96.6	0.83	8.0	0.8	1.8	2200	3520

### 技术数据 Technical Specifications

YE4VP: 8-POLE/50Hz/750r/min

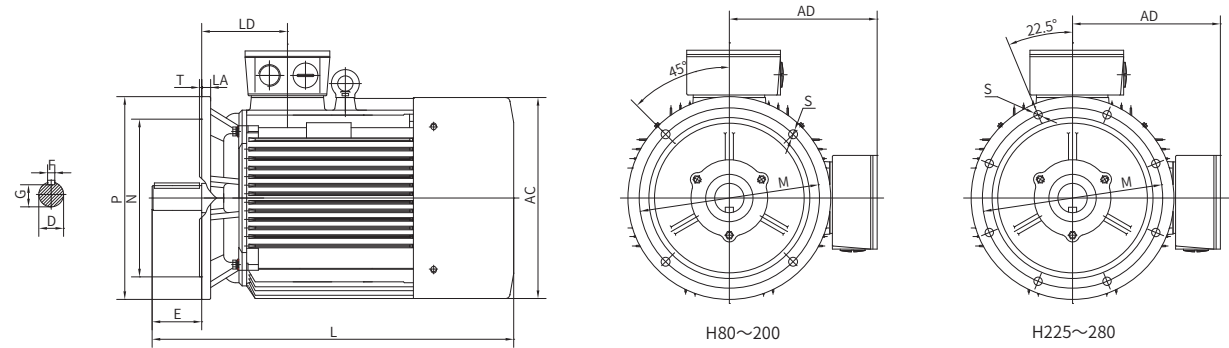
电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩	轴流 风机 功率	重量
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque	Axial fan power	Weight
	kW	HP	380V I <sub>N</sub> A	400V I <sub>N</sub> A	r/min	N.m	η%	COSφ	Ist/IN	Tst/TN	TM/TN	W	Kg
YE4VP100L1-8	0.75	1	2.2	2.1	710	9.6	78.4	0.66	7.0	2.0	2.0	40	39
YE4VP100L2-8	1.1	1.5	3.1	2.9	710	14.0	80.8	0.67	7.0	2.0	2.0	40	47
YE4VP112M-8	1.5	2	4.0	3.8	710	19.1	82.6	0.69	7.0	2.0	2.0	43	58
YE4VP132S-8	2.2	3	5.7	5.4	725	28.0	84.5	0.70	7.5	1.8	2.0	37	72
YE4VP132M-8	3	4	7.6	7.2	725	38.2	85.9	0.70	7.8	1.8	2.0	37	89
YE4VP160M1-8	4	5.5	9.8	9.3	730	50.9	87.1	0.71	7.9	1.8	2.0	80	136
YE4VP160M2-8	5.5	7.5	13.1	12.5	730	70.0	88.3	0.72	8.1	1.8	2.0	80	146
YE4VP160L-8	7.5	10	17.2	16.4	730	95.5	89.3	0.74	7.8	1.8	2.0	80	168
YE4VP180L-8	11	15	25.0	23.7	735	140.1	90.4	0.74	7.9	1.8	2.0	90	192
YE4VP200L-8	15	20	33.3	31.7	735	191.0	91.2	0.75	8.0	1.8	2.0	130	230
YE4VP225S-8	18.5	25	40.9	38.8	740	235.6	91.7	0.75	8.1	1.8	2.0	135	251
YE4VP225M-8	22	30	47.8	45.4	740	280.1	92.1	0.76	8.3	1.8	2.0	135	298
YE4VP250M-8	30	40	63.9	60.7	740	382.0	92.7	0.77	7.9	1.8	2.0	165	406
YE4VP280S-8	37	50	77.4	73.5	740	471.1	93.1	0.78	7.9	1.8	2.0	370	529
YE4VP280M-8	45	60	93.9	89.2	740	573.0	93.4	0.78	7.9	1.8	2.0	370	689
YE4VP315S-8	55	75	111.5	105.9	745	700.3	93.7	0.80	8.2	1.6	2.0	750	845
YE4VP315M-8	75	100	151.2	143.7	745	955.0	94.2	0.80	7.6	1.6	2.0	750	964
YE4VP315L1-8	90	120	178.8	169.9	745	1146.0	94.4	0.81	7.7	1.6	2.0	750	1158
YE4VP315L2-8	110	150	217.9	207.0	745	1400.7	94.7	0.81	7.7	1.6	2.0	750	1255
YE4VP355M1-8	132	176	260.9	247.9	745	1680.8	94.9	0.81	7.7	1.6	2.0	1500	1770
YE4VP355M2-8	160	215	311.7	296.2	745	2037.3	95.1	0.82	7.7	1.6	2.0	1500	2015
YE4VP355L-8	200	270	388.5	369.0	745	2546.7	95.4	0.82	7.8	1.6	1.8	1500	2084
YE4VP355X1-8	250	340	497.7	472.8	745	3183.3	95.4	0.80	7.6	1.1	1.8	1500	2160
YE4VP355X2-8	315	420	627.1	595.8	745	4011.0	95.4	0.80	7.6	0.9	1.8	1500	2220
YE4VP400M1-8	250	340	497.7	472.8	745	3183.3	95.4	0.80	7.6	1.1	1.8	2200	3000
YE4VP400M2-8	280	380	557.4	529.6	745	3565.3	95.4	0.80	7.6	0.9	1.8	2200	3110
YE4VP400L1-8	315	420	627.1	595.8	745	4011.0	95.4	0.80	7.6	0.9	1.8	2200	3240
YE4VP400L2-8	355	475	706.7	671.4	745	4520.3	95.4	0.80	7.6	0.9	1.8	2200	3380
YE4VP400L3-8	400	535	796.3	756.5	745	5093.3	95.4	0.80	7.6	0.9	1.8	2200	3460





### 安装及外形尺寸 Mounting and Overall Dimensions

IMB5 H80~280



机座号 Frame size	凸缘号 Flange No.	极数 Poles	尺寸 Dimensions in mm															
			D*	E	F	G	M	N*	P	S	T	凸缘孔数 Flange holes	AC	L	LD	LA	AD	R
80	FF165	2、4、6、8	19	40	6	15.5	165	130	200	12	3.5	4	167	365	72	12	145	0
90S	FF165	2、4、6、8	24	50	8	20	165	130	200	12	3.5	4	190	415	76	12	170	0
90L	FF165	2、4、6、8	24	50	8	20	165	130	200	12	3.5	4	190	445	76	12	170	0
100L	FF215	2、4、6、8	28	60	8	24	215	180	250	14.5	4	4	206	500	83	13	180	0
112M	FF215	2、4、6、8	28	60	8	24	215	180	250	14.5	4	4	235	520	87	14	200	0
132S	FF265	2、4、6、8	38	80	10	33	265	230	300	14.5	4	4	296	575	99	14	230	0
132M	FF265	2、4、6、8	38	80	10	33	265	230	300	14.5	4	4	296	620	99	14	230	0
160M	FF300	2、4、6、8	42	110	12	37	300	250	350	18.5	5	4	335	660	146	15	265	0
160L	FF300	2、4、6、8	42	110	12	37	300	250	350	18.5	5	4	335	705	146	15	265	0
180M	FF300	2、4、6、8	48	110	14	42.5	300	250	350	18.5	5	4	365	740	161	15	285	0
180L	FF300	2、4、6、8	48	110	14	42.5	300	250	350	18.5	5	4	365	780	161	15	285	0
200L	FF350	2、4、6、8	55	110	16	49	350	300	400	18.5	5	4	418	825	186	17	325	0
225S	FF400	4、8	60	140	18	53	400	350	450	18.5	5	8	465	875	189	20	350	0
225M	FF400	2	55	110	16	49	400	350	450	18.5	5	8	465	870	189	20	350	0
225M	FF400	4、6、8	60	140	18	53	400	350	450	18.5	5	8	465	900	189	20	350	0
250M	FF500	2	60	140	18	53	500	450	550	18.5	5	8	525	990	207	22	405	0
250M	FF500	4、6、8	65	140	18	58	500	450	550	18.5	5	8	525	990	207	22	405	0
280S	FF500	2	65	140	18	58	500	450	550	18.5	5	8	588	1090	215	22	435	0
280S	FF500	4、6、8	75	140	20	67.5	500	450	550	18.5	5	8	588	1090	215	22	435	0
280M	FF500	2	65	140	18	58	500	450	550	18.5	5	8	588	1140	215	22	435	0
280M	FF500	4、6、8	75	140	20	67.5	500	450	550	18.5	5	8	588	1140	215	22	435	0

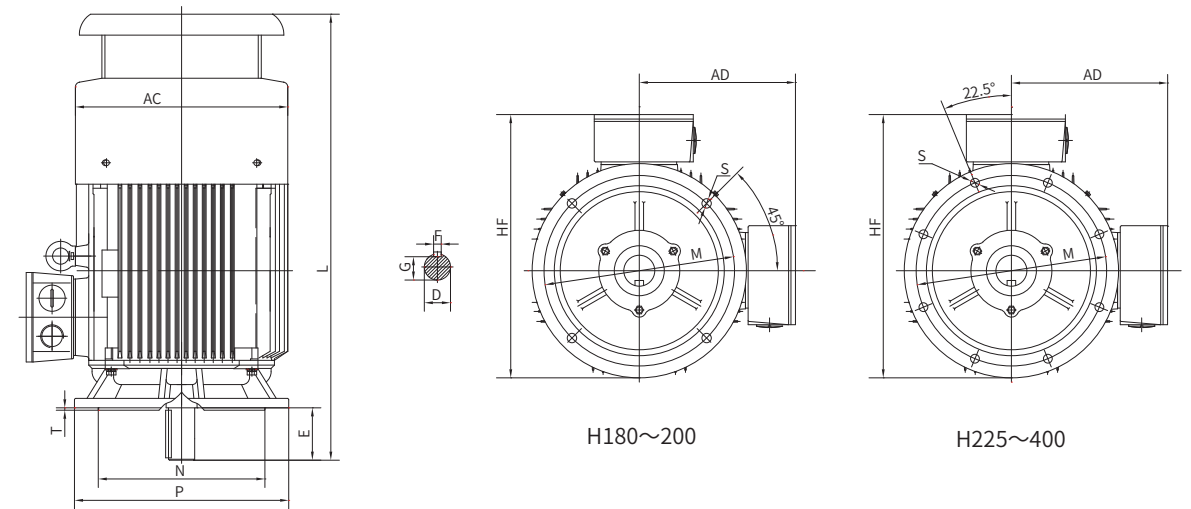
注:1) R是法兰安装面至轴肩的距离。 2) D尺寸公差:D尺寸公差:φ19-28为j6;φ38-48为k6;φ55-75为m6。

Notes:1) R means the distance from flange mounting interface to auxiliary shoulder.

2) Tolerance for D dimension: j6 for φ19-28 ;k6 for φ38-48; m6 for φ55-75.

### 安装及外形尺寸 Mounting and Overall Dimensions

IMV1 H180~400



机座号 Frame size	极数 Poles												凸缘孔数 Flange holes	AC	AD	HF	L
		D*	E	F	G	M	N*	P	R	S	T						
180M	2、4、6、8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	840	
180L	4、6、8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	890	
200L	2、4、6、8	55	110	16	49	350	300	400	0	18.5	5	4	418	325	595	885	
225S	2、4、6、8	60	140	18	53	400	350	450	0	18.5	5	8	465	350	647	935	
225M	2	55	140	16	49	400	350	450	0	18.5	5	8	465	350	647	930	
225M	4、6、8	60	140	18	53	400	350	450	0	18.5	5	8	465	350	647	960	
250M	2	60	140	18	53	500	450	550	0	18.5	5	8	525	405	726	1050	
250M	4、6、8	65	140	18	58	500	450	550	0	18.5	5	8	525	405	726	1050	
280S	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1150	
280S	4、6、8	75	140	20	67.5	500	450	550	0	18.5	5	8	588	435	820	1150	
280M	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1200	
280M	4、6、8	75	140	20	67.5	500	450	550	0	18.5	5	8	588	435	820	1200	
315S	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1375	
315S	4、6、8	80	170	22	71	600	550	660	0	24	6	8	620	555	950	1405	
315M	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1475	
315M	4、6、8	80	170	22	71	600	550	660	0	24	6	8	620	555	950	1505	
315L	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1475	
315L	4、6、8	80	170	22	71	600	550	660	0	24	6	8	620	555	950	1505	
355M	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1790	
355M	4、6、8	95	170	25	86	740	680	800	0	24	6	8	710	655	1145	1820	
355X	2	75	140	22	71	840	780	900	0	24	6	8	770	655	1220	2025	
355X	4、6、8	95	170	28	100	840	780	900	0	24	6	8	770	655	1220	2075	
400	2	85	170	22	76	840	780	900	0	28	6	8	860	680	1255	2150	
400	4、6、8	110	210	28	109	840	780	900	0	28	6	8	860	680	1255	2190	

注:1) D尺寸公差:φ19-28为j6;φ38-48为k6;φ55-110为m6。 2) N尺寸公差为j6。

Notes:1) Tolerance for D dimension: j6 for φ19-28 ;k6 for φ38-48; m6 for φ55-110. 2) Tolerance for N dimension is j6.

# XYT 系列

## 稀土永磁同步电动机

### XYT series Rare Earth Permanent Magnet Synchronous Motor



众所周知,电动机是将电能转化为机械能的机械,而这种能量的转换,必须以磁场为平台。在同样负载条件下,永磁同步电动机与异步电动机相比,减少了定子电流和定子铜损耗。由于稀土永磁电动机以同步转速运转,定子转子间无滑差,在稳定运行时没有转子铜耗和铁耗,进而可以减小风扇,相应的风摩损耗亦可减小。基于稀土永磁电动机不需要无功励磁电流,所以可显著提高功率因数至极限值(1.0);由于稀土永磁电动机各项损耗的减小,其效率得以明显的提高,与同规格异步电动机相比,效率可提高4~8个百分点,而且永磁同步电动机在20%~120%额定负载范围内可保持较高的效率和功率因数,使轻载时节能更为显著。

在多年工程实践基础上,本公司设计、研制和生产了XYT系列稀土永磁同步电动机。可广泛用于驱动各类通用设备,如水泵、风机、压缩机、纺织机械、金属拉丝、搅拌机、各类轻工设备,也可适用于石油、化工、医药、水泥、矿山、船舶等环境有特殊要求的行业。

应用实践证明,采用XYT系列稀土永磁同步电动机,能适应多种负载工况要求,有明显的节能效果,运行可靠安全、替代成本低、投资回收期短,得到了国家“电机系统节能工程”的推荐,并被国家财政部、国家安全发改委批准,本公司和XYT系列产品被批准纳入惠民工程。

As we all know, the induction motor is a machine that converts electrical energy into mechanical energy, and the conversion of this energy must be based on the magnetic field as a platform. Under the same load conditions, permanent magnet synchronous motors reduce stator current and stator copper losses compared to asynchronous motors. Because the rare earth permanent magnet motor runs at a synchronous speed, there is no slip difference between the stator, rotors, and there is no rotor copper consumption and iron consumption during stable operation, which can reduce the fan, and the corresponding wind friction loss can also be reduced. Based on the rare earth permanent magnet motor does not require reactive excitation current, the power factor can be significantly improved to the limit value (1.0); Due to the reduction of the losses of rare earth permanent magnet motors, its efficiency can be significantly improved, compared with the same specifications of asynchronous motors, the efficiency can be increased by 4 to 8 percentage points, and the permanent magnet synchronous motor can maintain high efficiency and power factor in the rated load range of 20% to 120%, making energy savings more significant at light load.

On the basis of years of engineering practice, the company designed, developed and produced XYT series three-phase rare earth permanent magnet synchronous motor, can be widely used to drive all kinds of general equipment, such as pumps, fans, compressors, textile machinery, metal drawing, mixers, all kinds of light industry equipment, but also for petroleum, chemical, pharmaceutical, cement, mining, shipbuilding and other environments have special requirements of the industry.

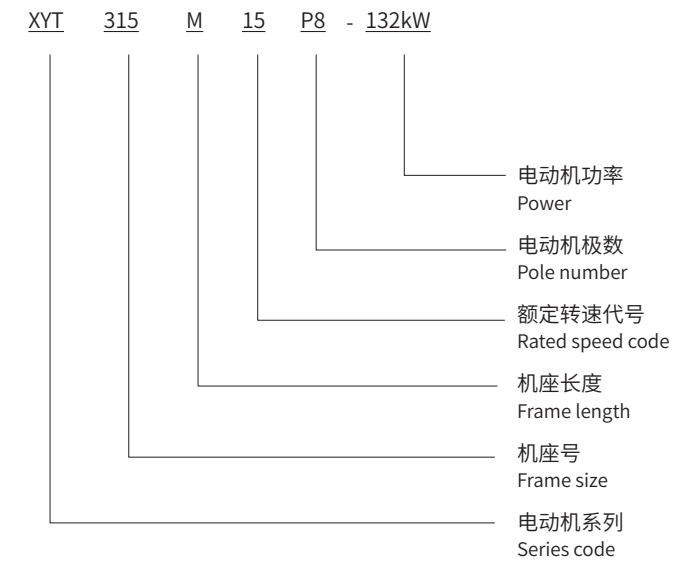
The performance has proved that the use of XYT series three-phase rare earth permanent magnet synchronous motor, can adapt to a variety of load conditions requirements, has obvious energy-saving effect, reliable and safe operation, low replacement cost, short payback period, has been recommended by the national "motor system energy-saving project", and approved by the Ministry of Finance, national security development and Reform Commission, the company and XYT series products were approved into the project to benefit the people.

### 型号说明

依据GB/T4831-1984《电机产品型号编制方法》,本公司超超高效率永磁电动机的名称代号用“XYT”表示,“X”表示“高效”,“Y”表示“永磁”,“T”表示“同步电动机”。永磁电动机的型号由产品名称代号、机座号、铁心长度、极数等组成。

### Model description

According to GB/T4831-1984 "Motor Product Model Compilation Method", the name code of the company's ultra-ultra-high efficiency permanent magnet motor is represented by "XYT", "X" means "high efficiency", "Y" means "permanent magnet", and "T" means "synchronous motor". The model of the permanent magnet motor is composed of product name code, frame number, core length, pole number, etc.



### 电压和频率

本公司可接受用户特殊电压的永磁电动机的订货。

允许电压偏差±5%,频率偏差±2%条件下连续运行,实现规定的基本功能。但其性能不必与额定电压和频率时的性能完全相符,可能呈现某些差异,温升可较额定电压和频率时高。

### Voltage and frequency

The company can accept the user's special voltage permanent magnet motor order.

The allowable voltage deviation  $\pm 5\%$ , frequency deviation  $\pm 2\%$  continuous operation, to achieve the specified basic functions. However, its performance does not have to be exactly the same as the performance at the rated voltage and frequency, and there may be some differences, and the temperature rise can be higher than that of the rated voltage and frequency.

### 失步转矩

永磁电动机的失步转矩高低,反映了永磁电动机的过载能力大小,失步转矩是永磁电动机的重要性能。

XYT系列永磁同步电动机的失步转矩倍数在2.0~2.5范围内,具有良好的过载能力。

永磁电动机在热状态和逐渐增加转矩的情况下,能够承受永磁电动机性能表中规定的失步转矩值(计及容差),历时15s而无转速突变,停转及发生有害变形。此时,电压和频率应维持在额定值。

### Pull-out torque

The level of the pull-out torque of the permanent magnet motor reflects the overload capacity, and the pull-out torque is the important performance of the permanent magnet motor.

The pull-out torque multiple of XYT series permanent magnet synchronous motors is in the range of 2.0 to 2.5, and it has good overload capacity.

In the case of thermal state and gradually increasing torque, the PM motor can withstand the stepless torque value specified in the performance table of the permanent magnet motor (taking into account tolerance), which lasts for 15 seconds without sudden change in speed, stop rotation and harmful deformation. At this point, the voltage and frequency should be maintained at the rated value.

### 额定输出

额定输出是指,符合GB755标准的要求,电压、频率为额定值,冷却介质温度(CT)为40°C,设备安装地点的海拔高度为1000m以下的情况下,连续工作可以允许的输出。

在上述运行条件下的使用。如果实际的运行条件偏离规定的数值,那么应根据功率降格表中规定的降格系数降低电动机允许的最大输出。

### Rated output

The rated output refers to the output that can be allowed for continuous operation in the case of meeting the requirements of the GB755 standard, the voltage and frequency is at the rated value, the cooling medium temperature (CT) is 40 °C, and the altitude of the equipment installation site is below 1000m.

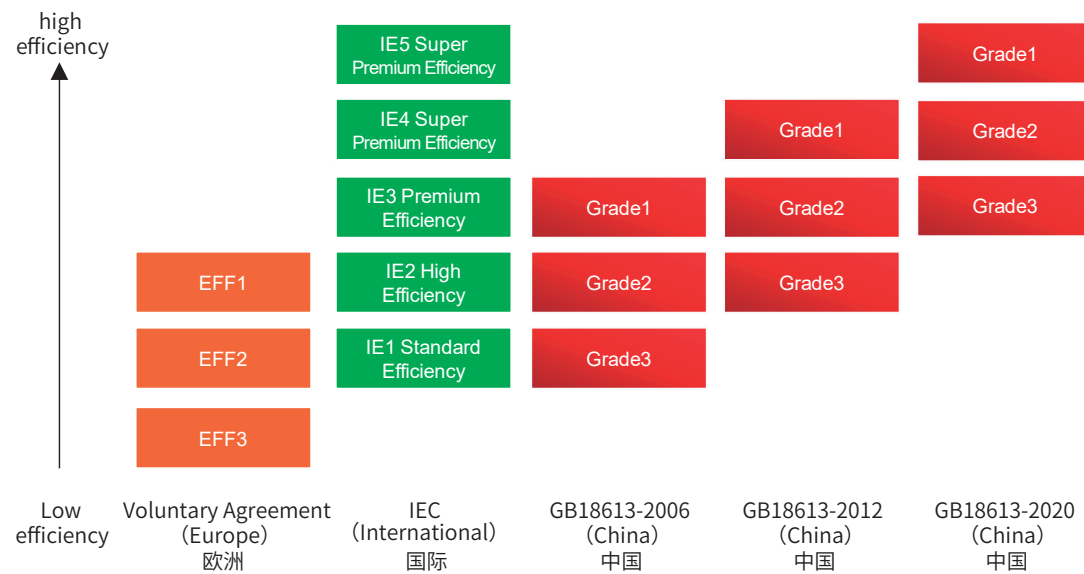
If the actual operating conditions deviate from the specified values, the maximum allowable output of the motor should be reduced according to the downgrading factor specified in the power downgrade table. The relationship between the power degradation coefficient of the motor and the altitude

### 电动机的功率降格系数与海拔高度、冷却介质温度的关系

Relationship between power degradation coefficient of motor and altitude and cooling medium temperature

海拔 altitude	冷却介质温度 cooling medium temperature	<30	30-40	45	50	55	60
1000		1.07	1.00	0.96	0.92	0.87	0.82
1500		1.04	0.97	0.93	0.89	0.84	0.79
2000		1.00	0.94	0.90	0.86	0.82	0.77
2500		0.96	0.90	0.86	0.83	0.78	0.74
3000		0.92	0.86	0.82	0.79	0.75	0.70
3500		0.88	0.82	0.79	0.75	0.71	0.67
4000		0.82	0.77	0.74	0.71	0.67	0.63

### 电机能效 Motor Efficiency



### 绝缘

所有的电动机都是按照F级绝缘制造的。采用了国际上著名的DURIGNIT-2000绝缘系统,是XYT系列永磁电动机绕组具有极强的电气强度、机械强度和耐热应力能力,可适用于有防潮、防霉、防盐雾要求的恶劣环境;同时,在浸漆时,定子绕组内被树脂良好充填,气孔极少;绝缘结构采用的材料具有耐电晕性能。所以,XYT系列永磁电机能适应变频调速器配套时可靠的运行。

### Insulation

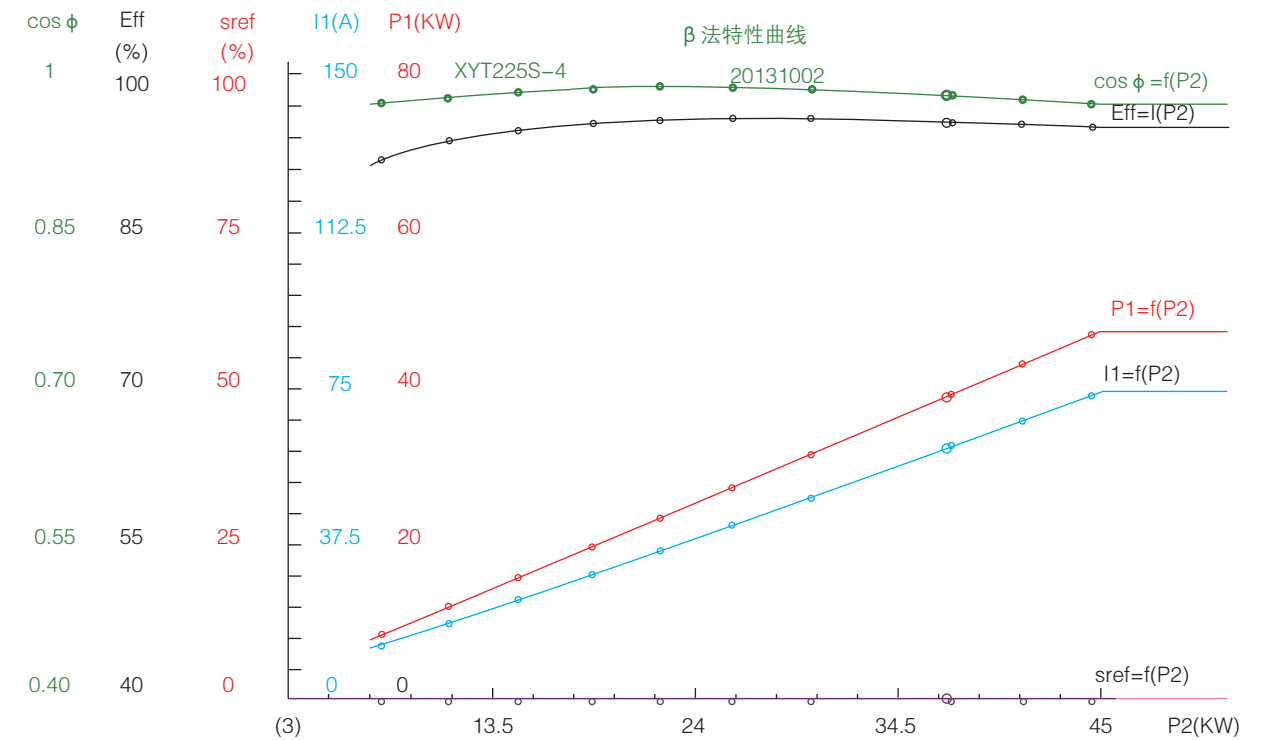
All electric motors are manufactured in class F insulation. The use of the internationally famous DURIGNIT-2000 insulation system, is the XYT series permanent magnet motor windings have strong electrical strength, mechanical strength and heat stress resistance, can be applied to moisture-proof, mildew-proof, salt spray requirements of harsh environments; At the same time, when varnishing, the stator winding is well filled with resin, and the pores are very few; The insulation structure is made of materials that are corona resistant. Therefore, the XYT series PM motor can be ran reliable when working with VFD.

### 功率因数

通过合理设计,XYT系列永磁电动机功率因数接近极限值1.0,并在120%P1~150%P1范围内展宽。

### Power factor

Through reasonable design, the power factor of XYT series PM motors is close to the limit value of 1.0, and it is wide in the range of 120% P1 to 150%P1.





## 大气环境的温度

按标准进行设计的所有电动机都可在大气温度为-15°C至+40°C环境下,可用的负载系数为1.1。

根据GB755标准和JB/8680.1标准的要求,各种电动机都是按照在额定电压和频率下能够承受1.5倍额定电流,持续时间2分钟的条件进行设计的。

## The temperature of the atmospheric environment

All motors designed to the standard can be used at atmospheric temperatures from -15°C to +40°C with an available load factor of 1.1. According to the requirements of GB755 standard and JB/8680.1 standard, all kinds of motors are designed according to the conditions that can withstand 1.5 times the rated current and last for 2 minutes at the rated voltage and frequency.

## 偶然过电流

永磁电动机能承受1.5倍额定电流,历时不小于2min的偶然过电流试验而不损坏。

## Occasional overcurrent

The permanent magnet motor can withstand 1.5 times the rated current, and the accidental overcurrent test lasts no less than 2 minutes without damage.

## 超速

永磁电动机在空载情况下,能承受1.2倍的最高额定转速,历时2min而不发生有害变形。

## Over speeding

In the case of no load, the PM motor can withstand the maximum rated speed of 1.2 times, which lasts for 2 minutes without harmful deformation.

## 绕组耐电压和匝间冲击耐电压

永磁电动机定子绕组能承受为时1min的耐电压试验而不击穿,施加的电压尽可能为正弦波,频率为50Hz时,施加电压为1760V;频率为60Hz时,施加电压为1912V。永磁电动机定子绕组能承受匝间冲击耐电压试验而不击穿,其试验冲击电压峰值按JB/T9615.2-2000《交流低压电机散嵌绕组匝间试验限值》的规定。

## Winding withstand voltage and inter-turn withstand voltage

The stator winding of the permanent magnet motor can withstand the withstand voltage test of 1min without breakdown, and the applied voltage is as sine wave as possible, and the applied voltage is 1760V when the frequency is 50Hz; At a frequency of 60Hz, the applied voltage is 1912V. The stator winding of the permanent magnet motor can withstand the inter-turn withstand voltage test without breakdown, and the peak of the test voltage is in accordance with the provisions of JB/T9615.2-2000 "AC low-voltage motor random winding inter-turn test limit".

## 温升

永磁电动机采用IP55(F)级绝缘,定子绕组的温升(电阻法)按130(B)级绝缘80K考核,XYT系列永磁电动机温升裕度较大。

## Temperature rises

The permanent magnet motor adopts IP55 (F) class insulation, the temperature rise (resistance method) of the stator winding is assessed by 130 (B) class insulation 80K, and the temperature rise margin of the XYT series permanent magnet motor is large.

## 防止永磁体退磁的措施

永磁电机采用的磁性材料如硅钢片、永磁体等在使用中均会不同程度的退磁,我们要求退磁速度十分缓慢。在永磁电机寿命周期内及以后一段时间内,不影响永磁电机的性能,正常可靠运行。

为防止永磁体产生不可逆失磁现象,XYT系列永磁电动机在设计 and 制造中采取了一系列技术和工艺措施:

选用工作温度高的永磁材料

XYT系列永磁电动机采用了烧结钕铁硼,其最高工作温度为180°C

根据多年工程积累,设计中合理选定永磁体负载工作点,抵御电枢反应去磁作用,确保永磁电动机工作性能稳定。

## 对永磁体不盲目采购

编制了完整的永磁体订货技术要求,除明确外形尺寸和技术性能外,还明确了“辅助磁性”、“物理性能”、“可靠性要求”、“一致性要求”、“和“最高工作温度”,不盲目采购。

微调了永磁体配方,增添微量的钐(Sm)、钴(Co)和镝(Dy),一方面增强永磁体耐热性能,另一方面增强抵御电枢反应带来的去磁作用。

## 对永磁体进行磁稳定工艺

永磁体充磁之后,在通常的环境条件下,磁性能随时间变化,其变化称为自然时效。磁稳定处理就是将永磁体充磁后保存在150°C/5小时,以加速时效过程,可加速磁结构的稳定过程,在此过程中磁损耗在2.5%以内。磁稳定处理后永磁体磁性能几乎不再随时间推移而下降。

## Measures to prevent demagnetization of permanent magnets

The magnetic materials used in PM motors, such as silicon steel sheets, permanent magnets, etc. will be demagnetized after reaching its lifespan, and we require that the demagnetization speed is very slow. During the life cycle of the permanent magnet motor and for a period of time, it does not affect the performance of the permanent magnet motor and operates normally and reliably.

To prevent the irreversible demagnetization phenomenon of permanent magnets, XYT series PM motors have adopted a series of technical and process measures in the design and manufacture:

Select permanent magnet material with high operating temperature.

The XYT PM motors use sintered NdFeB with a maximum operating temperature of 180°C

According to years of working experiences, the permanent magnet load working point is reasonably selected in the design to resist the demagnetization of the armature reaction and ensure the stable working performance.

## Permanent magnet sourcing

Compiled complete technical requirements for permanent magnet ordering, in addition to clarifying the outline size and technical performance, but also clarified the "auxiliary magnetic performance", "physical properties", "reliability requirements", "consistency requirements", and "maximum working temperature to ensure the permanent magnet is qualified.

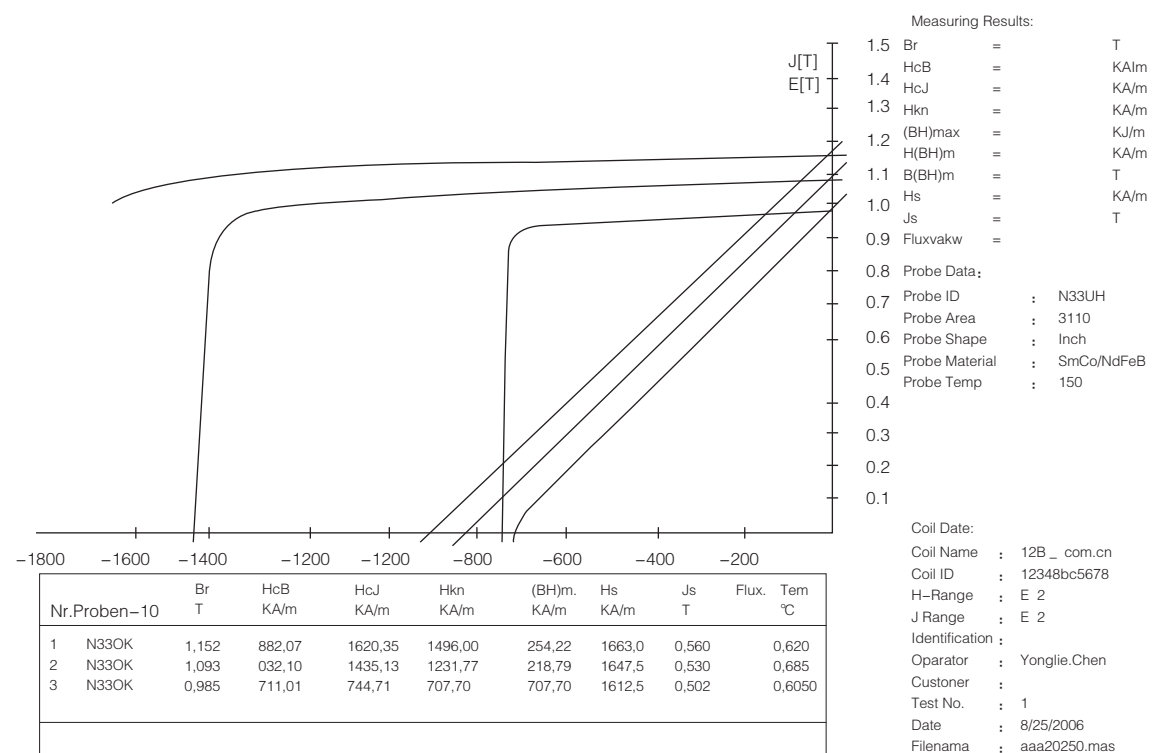
Fine tune the permanent magnet formula and add a small amount of samarium (SM), cobalt (CO) and dysprosium (Dy) to enhance the heat resistance of the permanent magnet on the one hand and resist the demagnetization caused by armature reaction on the other hand.

## Permanent magnet process

After the permanent magnet is magnetized, under normal environmental conditions, the magnetic properties change with time, and its change called natural aging. Magnetic stabilization treatment is to store the permanent magnet at 150 °C/5 hours after magnetization to accelerate the aging process, which can accelerate the stabilization process of the magnetic structure, and the magnetic loss in this process is within 2.5%. The magnetic performance of permanent magnets after magnetic stabilization treatment almost no longer degrades over time.

下图为磁稳定前、后的内禀矫顽力曲线和退磁曲线

The following picture shows the internal coercive force curve and demagnetization curve before and after magnetic stabilization



### 对永磁体进行化学稳定工艺处理

受化学因素,如酸、碱、氧气、腐蚀性气体等影响,永磁体内部或表面化学结构发生变化,会引起磁性能的变化。如钕铁硼中的铁和钕就比较容易氧化。

XYT系列永磁电动机的永磁体,进行了表面电镀(Ni-Cu-Ni),对纯铁粉改变配方,减少了含氧量,从永磁体内、外防氧化,均采取了措施。

### Chemically stabilized the permanent magnets

Affected by chemical elements, such as acids, alkalis, oxygen, corrosive gases, etc., changes in the chemical structure of the internal or surface of the permanent magnet will cause changes in magnetic properties. For example, the iron and neodymium in NdFeB are easier to oxidize. The permanent magnet of the XYT PM motor has been surface plated (Ni-Cu-Ni), the formula of pure iron powder has been changed, the oxygen content has been reduced, and measures have been taken to prevent oxidation from the permanent magnet inside out.

## 技术数据 Technical Specifications

XYT: 2-POLE/50Hz/3000r/min

电机型号 Motor Type	额定电压	额定频率	额定功率		额定电流	额定转速	额定转矩	效率	功率因数	重量
	Rated voltage	Rated Frequency	Rated Power		Rated Current	Rated Speed	Rated Torque	Efficiency	Power Factor	Weight
	V	Hz	kW	HP	A	r/min	N·m	η%	COSΦ	Kg
XYT90S30P6-1.5	380	150	1.5	2	2.7	3000	4.8	90.9	0.95	17
XYT90L30P6-2.2	380	150	2.2	3	4.0	3000	7.0	91.8	0.95	19
XYT90L30P6-3	380	150	3	4	5.4	3000	9.6	92.6	0.95	23
XYT100L30P6-3	380	150	3	4	5.4	3000	9.6	92.6	0.95	26
XYT100L30P6-4	380	150	4	5.5	7.1	3000	12.7	93.3	0.95	28
XYT112M30P6-4	380	150	4	5.5	7.1	3000	12.7	93.3	0.95	34
XYT112M30P6-5.5	380	150	5.5	7.5	9.7	3000	17.5	94.0	0.95	36
XYT112M30P6-7.5	380	150	7.5	10	13.2	3000	23.9	94.5	0.95	38
XYT132S30P6-5.5	380	150	5.5	7.5	9.7	3000	17.5	94.0	0.95	57
XYT132S30P6-7.5	380	150	7.5	10	13.2	3000	23.9	94.5	0.95	62
XYT132M30P6-11	380	150	11	15	19.3	3000	35.0	95.0	0.95	77
XYT132M30P6-15	380	150	15	20	26.2	3000	47.8	95.3	0.95	83
XYT160M30P6-11	380	150	11	15	19.3	3000	35.0	95.0	0.95	93
XYT160M30P6-15	380	150	15	20	26.2	3000	47.8	95.3	0.95	102
XYT160L30P6-18.5	380	150	18.5	25	32.2	3000	58.9	95.6	0.95	113
XYT160L30P6-22	380	150	22	30	38.2	3000	70.0	95.9	0.95	113
XYT160L30P6-30	380	150	30	40	52.0	3000	95.5	96.1	0.95	130
XYT180M30P6-22	380	150	22	30	38.2	3000	70.0	95.9	0.95	144
XYT180L30P6-25	380	150	25	34	43.3	3000	79.6	96.1	0.95	160
XYT180L30P6-30	380	150	30	40	52.0	3000	95.5	96.1	0.95	165
XYT180L30P6-37	380	150	37	50	64.0	3000	117.8	96.3	0.95	170
XYT200L30P6-30	380	150	30	40	52.0	3000	95.5	96.1	0.95	197
XYT200L30P6-37	380	150	37	50	64.0	3000	117.8	96.3	0.95	197
XYT200L30P6-45	380	150	45	60	77.7	3000	143.3	96.4	0.95	217
XYT225S30P8-45	380	200	45	60	77.7	3000	143.3	96.4	0.95	228
XYT225S30P8-55	380	200	55	75	94.9	3000	175.1	96.5	0.95	237
XYT225S30P8-75	380	200	75	100	129.3	3000	238.8	96.6	0.95	253
XYT225M30P8-45	380	200	45	60	77.7	3000	143.3	96.4	0.95	236
XYT225M30P8-55	380	200	55	75	94.9	3000	175.1	96.5	0.95	245
XYT225M30P8-75	380	200	75	100	129.3	3000	238.8	96.6	0.95	261
XYT225M30P8-90	380	200	90	120	155.0	3000	286.5	96.7	0.95	282
XYT250M30P8-55	380	200	55	75	94.9	3000	175.1	96.5	0.95	287
XYT250M30P8-75	380	200	75	100	129.3	3000	238.8	96.6	0.95	307
XYT250M30P8-90	380	200	90	120	155.0	3000	286.5	96.7	0.95	347
XYT250M30P8-110	380	200	110	150	189.4	3000	350.2	96.7	0.95	362
XYT280S30P8-75	380	200	75	100	129.3	3000	238.8	96.6	0.95	397
XYT280M30P8-90	380	200	90	120	155.0	3000	286.5	96.7	0.95	397
XYT280M30P8-110	380	200	110	150	189.4	3000	350.2	96.7	0.95	434
XYT280M30P8-132	380	200	132	180	227.3	3000	420.2	96.7	0.95	477
XYT280M30P8-160	380	200	160	215	275.5	3000	509.3	96.7	0.95	520
XYT280M30P8-200	380	200	200	270	344.4	3000	636.7	96.7	0.95	581
XYT315S30P8-110	380	200	110	150	189.4	3000	350.2	96.7	0.95	728
XYT315S30P8-132	380	200	132	180	227.3	3000	420.2	96.7	0.95	762
XYT315M30P8-132	380	200	132	180	227.3	3000	420.2	96.7	0.95	802
XYT315M30P8-160	380	200	160	215	275.5	3000	509.3	96.7	0.95	802
XYT315M30P8-200	380	200	200	270	344.4	3000	636.7	96.7	0.95	802
XYT315L30P8-160	380	200	160	215	275.5	3000	509.3	96.7	0.95	802
XYT315L30P8-200	380	200	200	270	344.4	3000	636.7	96.7	0.95	802
XYT315L30P8-250	380	200	250	340	430.5	3000	795.8	96.7	0.95	950

### 技术数据 Technical Specifications

XYT: 4-POLE/50Hz/1500r/min

电机型号 Motor Type	额定电压	额定频率	额定功率		额定电流	额定转速	额定转矩	效率	功率因数	重量
	Rated voltage	Rated Frequency	Rated Power		Rated Current	Rated Speed	Rated Torque	Efficiency	Power Factor	Weight
	V	Hz	kW	HP	A	r/min	N·m	η%	COSΦ	Kg
XYT90S15P8-1.1	380	100	1.1	2	2.1	1500	7.0	87.4	0.95	19
XYT90L15P8-1.5	380	100	1.5	2	2.8	1500	9.6	88.1	0.95	23
XYT90L15P8-2.2	380	100	2.2	3	4.1	1500	14.0	89.7	0.95	25
XYT90L15P8-3	380	100	3	4	5.5	1500	19.1	90.3	0.95	27
XYT100L15P8-2.2	380	100	2.2	3	4.1	1500	14.0	89.7	0.95	29
XYT100L15P8-3	380	100	3	4	5.5	1500	19.1	90.3	0.95	32
XYT100L15P8-4	380	100	4	6	7.3	1500	25.5	90.9	0.95	34
XYT112M15P8-4	380	100	4	6	7.3	1500	25.5	90.9	0.95	40
XYT112M15P8-5.5	380	100	5.5	8	9.9	1500	35.0	92.1	0.95	46
XYT132S15P8-5.5	380	100	5.5	8	9.9	1500	35.0	92.1	0.95	59
XYT132M15P8-7.5	380	100	7.5	10	13.5	1500	47.8	92.6	0.95	73
XYT132M15P8-11	380	100	11	15	19.6	1500	70.0	93.6	0.95	83
XYT132M15P8-15	380	100	15	20	26.6	1500	95.5	94.0	0.95	93
XYT160M15P8-11	380	100	11	15	19.6	1500	70.0	93.6	0.95	104
XYT160L15P8-15	380	100	15	20	26.6	1500	95.5	94.0	0.95	128
XYT160L15P8-18.5	380	100	18.5	25	32.7	1500	117.8	94.3	0.95	140
XYT160L15P8-22	380	100	22	30	38.7	1500	140.1	94.7	0.95	151
XYT180M15P8-15	380	100	15	20	26.6	1500	95.5	94.0	0.95	160
XYT180M15P8-18.5	380	100	18.5	25	32.7	1500	117.8	94.3	0.95	168
XYT180M15P8-22	380	100	22	30	38.7	1500	140.1	94.7	0.95	173
XYT180L15P8-22	380	100	22	30	38.7	1500	140.1	94.7	0.95	183
XYT180L15P8-25	380	100	25	34	43.9	1500	159.2	94.8	0.95	191
XYT180L15P8-30	380	100	30	40	52.6	1500	191.0	95.0	0.95	207
XYT180L15P8-37	380	100	37	50	64.6	1500	235.6	95.3	0.95	228
XYT200L15P8-30	380	100	30	40	52.6	1500	191.0	95.0	0.95	211
XYT200L15P8-37	380	100	37	50	64.6	1500	235.6	95.3	0.95	227
XYT200L15P8-45	380	100	45	60	78.4	1500	286.5	95.6	0.95	274
XYT225S15P8-37	380	100	37	50	64.6	1500	235.6	95.3	0.95	274
XYT225S15P8-45	380	100	45	60	78.4	1500	286.5	95.6	0.95	304
XYT225M15P8-45	380	100	45	60	78.4	1500	286.5	95.6	0.95	312
XYT225M15P8-55	380	100	55	75	95.6	1500	350.2	95.8	0.95	324
XYT225M15P8-65	380	100	65	90	113.0	1500	413.8	95.8	0.95	341
XYT225M15P8-75	380	100	75	100	130.1	1500	477.5	96.0	0.95	371
XYT250M15P8-55	380	100	55	75	95.6	1500	350.2	95.8	0.95	406
XYT250M15P8-75	380	100	75	100	130.1	1500	477.5	96.0	0.95	416
XYT250M15P8-90	380	100	90	120	155.8	1500	573.0	96.2	0.95	441
XYT280S15P8-75	380	100	75	100	130.1	1500	477.5	96.0	0.95	520
XYT280M15P8-90	380	100	90	120	155.8	1500	573.0	96.2	0.95	575
XYT280M15P8-110	380	100	110	150	190.4	1500	700.3	96.2	0.95	593
XYT280M15P8-132	380	100	132	180	228.5	1500	840.4	96.2	0.95	618
XYT315S15P8-110	380	100	110	150	190.4	1500	700.3	96.2	0.95	820
XYT315S15P8-132	380	100	132	180	228.5	1500	840.4	96.2	0.95	845
XYT315M15P8-132	380	100	132	180	228.5	1500	840.4	96.2	0.95	885
XYT315M15P8-160	380	100	160	215	276.9	1500	1018.7	96.2	0.95	936
XYT315L15P8-160	380	100	160	215	276.9	1500	1018.7	96.2	0.95	936
XYT315L15P8-200	380	100	200	270	346.2	1500	1273.3	96.2	0.95	969
XYT315L15P8-250	380	100	250	340	432.7	1500	1591.7	96.2	0.95	1100
XYT355M15P8-250	380	100	250	340	432.7	1500	1591.7	96.2	0.95	1315
XYT355L15P8-315	380	100	315	420	545.2	1500	2005.5	96.2	0.95	1580
XYT355L15P8-355	380	100	355	475	614.5	1500	2260.2	96.2	0.95	1598
XYT355L15P8-400	380	100	400	535	692.3	1500	2546.7	96.2	0.95	1697
XYT355L15P8-450	380	100	450	600	778.9	1500	2865.0	96.2	0.95	1742

### 技术数据 Technical Specifications

XYT: 6-POLE/50Hz/1000r/min

电机型号 Motor Type	额定电压	额定频率	额定功率		额定电流	额定转速	额定转矩	效率	功率因数	重量
	Rated voltage	Rated Frequency	Rated Power		Rated Current	Rated Speed	Rated Torque	Efficiency	Power Factor	Weight
	V	Hz	kW	HP	A	r/min	N·m	η%	COSΦ	Kg
XYT90S10P8-0.75	380	66.7	0.75	1	1.4	1000	7.2	87.4	0.95	19
XYT90L10P8-1.1	380	66.7	1.1	1.5	2.1	1000	10.5	88.7	0.95	24
XYT90L10P8-1.5	380	66.7	1.5	2	2.8	1000	14.3	89.9	0.95	25
XYT100L10P8-1.5	380	66.7	1.5	2	2.8	1000	14.3	89.9	0.95	29
XYT100L10P8-2.2	380	66.7	2.2	3	4.0	1000	21.0	90.9	0.95	34
XYT112M10P8-2.2	380	66.7	2.2	3	4.0	1000	21.0	90.9	0.95	38
XYT112M10P8-3	380	66.7	3	4	5.4	1000	28.7	91.8	0.95	44
XYT112M10P8-4	380	66.7	4	5.5	7.2	1000	38.2	92.7	0.95	53
XYT112M10P8-5.5	380	66.7	5.5	7.5	9.8	1000	52.5	93.4	0.95	61
XYT132S10P8-3	380	66.7	3	4	5.4	1000	28.7	91.8	0.95	59
XYT132M10P8-4	380	66.7	4	5.5	7.2	1000	38.2	92.7	0.95	66
XYT132M10P8-5.5	380	66.7	5.5	7.5	9.8	1000	52.5	93.4	0.95	76
XYT132M10P8-7.5	380	66.7	7.5	10	13.3	1000	71.6	94.0	0.95	83
XYT160M10P8-7.5	380	66.7	7.5	10	13.3	1000	71.6	94.0	0.95	104
XYT160L10P8-11	380	66.7	11	15	19.4	1000	105.1	94.5	0.95	130
XYT160L10P8-15	380	66.7	15	20	26.3	1000	143.3	94.9	0.95	147
XYT180L10P8-15	380	66.7	15	20	26.3	1000	143.3	94.9	0.95	178
XYT180L10P8-18.5	380	66.7	18.5	25	32.3	1000	176.7	95.3	0.95	186
XYT180L10P8-22	380	66.7	22	30	38.3	1000	210.1	95.6	0.95	196
XYT200L10P8-18.5	380	66.7	18.5	25	32.3	1000	176.7	95.3	0.95	211
XYT200L10P8-22	380	66.7	22	30	38.3	1000	210.1	95.6	0.95	227
XYT200L10P8-30	380	66.7	30	40	52.1	1000	286.5	95.8	0.95	244
XYT225M10P8-30	380	66.7	30	40	52.1	1000	286.5	95.8	0.95	308
XYT225M10P8-37	380	66.7	37	50	64.2	1000	353.4	96.0	0.95	324
XYT250M10P8-37	380	66.7	37	50	64.2	1000	353.4	96.0	0.95	377
XYT250M10P8-45	380	66.7	45	60	77.9	1000	429.8	96.2	0.95	406
XYT280S10P8-45	380	66.7	45	60	77.9	1000	429.8	96.2	0.95	520
XYT280M10P8-55	380	66.7	55	75	95.1	1000	525.3	96.3	0.95	587
XYT280M10P8-75	380	66.7	75	100	129.5	1000	716.3	96.4	0.95	606
XYT315S10P8-75	380	66.7	75	100	129.5	1000	716.3	96.4	0.95	829
XYT315S10P8-90	380	66.7	90	120	155.3	1000	859.5	96.5	0.95	854
XYT315M10P8-90	380	66.7	90	120	155.3	1000	859.5	96.5	0.95	894
XYT315M10P8-110	380	66.7	110	150	189.8	1000	1050.5	96.5	0.95	969
XYT315L10P8-110	380	66.7	110	150	189.8	1000	1050.5	96.5	0.95	969
XYT315L10P8-132	380	66.7	132	180	227.8	1000	1260.6	96.5	0.95	1020
XYT315L10P8-160	380	66.7	160	215	276.1	1000	1528.0	96.5	0.95	1130
XYT355M10P8-160	380	66.7	160	215	276.1	1000	1528.0	96.5	0.95	1304
XYT355M10P8-200	380	66.7	200	270	345.1	1000	1910.0	96.5	0.95	1540
XYT355L10P8-250	380	66.7	250	340	431.4	1000	2387.5	96.5	0.95	1607
XYT355L10P8-315	380	66.7	315	420	543.5	1000	3008.3	96.5	0.95	1785
XYT355L10P8-355	380	66.7	355	475	612.5	1000	3390.3	96.5	0.95	1894



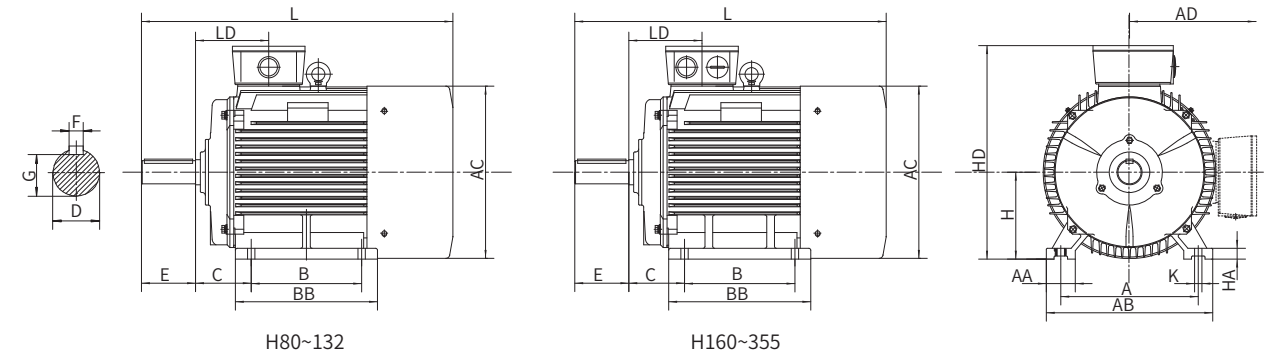
### 技术数据 Technical Specifications

XYT: 8-POLE/50Hz/750r/min

电机型号 Motor Type	额定电压	额定频率	额定功率		额定电流	额定转速	额定转矩	效率	功率因数	重量
	Rated voltage	Rated Frequency	Rated Power		Rated Current	Rated Speed	Rated Torque	Efficiency	Power Factor	Weight
	V	Hz	kW	HP	A	r/min	N-m	η%	COSΦ	Kg
XYT90L7.5P8-0.55	380	50	0.55	0.75	1.1	750	7.0	81.8	0.95	21
XYT90L7.5P8-0.75	380	50	0.75	1	1.5	750	9.6	82.3	0.95	24
XYT100L7.5P8-0.75	380	50	0.75	1	1.5	750	9.6	82.3	0.95	28
XYT100L7.5P8-1.1	380	50	1.1	1.5	2.2	750	14.0	83.3	0.95	29
XYT100L7.5P8-1.5	380	50	1.5	2	3.0	750	19.1	84.5	0.95	33
XYT112M7.5P8-1.5	380	50	1.5	2	3.0	750	19.1	84.5	0.95	40
XYT112M7.5P8-2.2	380	50	2.2	3	4.1	750	28.0	90.0	0.95	47
XYT132S7.5P8-2.2	380	50	2.2	3	4.1	750	28.0	90.0	0.95	59
XYT132M7.5P8-3	380	50	3	4	5.5	750	38.2	91.0	0.95	66
XYT132M7.5P8-4	380	50	4	5.5	7.3	750	50.9	91.8	0.95	73
XYT160M7.5P8-4	380	50	4	5.5	7.3	750	50.9	91.8	0.95	104
XYT160M7.5P8-5.5	380	50	5.5	7.5	9.9	750	70.0	92.6	0.95	130
XYT160M7.5P8-7.5	380	50	7.5	10	13.4	750	95.5	93.2	0.95	128
XYT160L7.5P8-11	380	50	11	15	19.5	750	140.1	93.7	0.95	142
XYT180L7.5P8-11	380	50	11	15	19.5	750	140.1	93.7	0.95	178
XYT180L7.5P8-15	380	50	15	20	26.5	750	191.0	94.2	0.95	191
XYT200L7.5P8-15	380	50	15	20	26.5	750	191.0	94.2	0.95	227
XYT200L7.5P8-18.5	380	50	18.5	25	32.6	750	235.6	94.6	0.95	237
XYT225S7.5P8-18.5	380	50	18.5	25	32.6	750	235.6	94.6	0.95	266
XYT225M7.5P8-22	380	50	22	30	38.6	750	280.1	94.9	0.95	295
XYT225M7.5P8-30	380	50	30	40	52.5	750	382.0	95.1	0.95	316
XYT250M7.5P8-30	380	50	30	40	52.5	750	382.0	95.1	0.95	387
XYT250M7.5P8-37	380	50	37	50	64.6	750	471.1	95.3	0.95	426
XYT280S7.5P8-37	380	50	37	50	64.6	750	471.1	95.3	0.95	520
XYT280M7.5P8-45	380	50	45	60	78.5	750	573.0	95.5	0.95	575
XYT280M7.5P8-55	380	50	55	75	95.8	750	700.3	95.6	0.95	606
XYT315S7.5P8-55	380	50	55	75	95.8	750	700.3	95.6	0.95	829
XYT315S7.5P8-75	380	50	75	100	130.5	750	955.0	95.7	0.95	929
XYT315M7.5P8-75	380	50	75	100	130.5	750	955.0	95.7	0.95	969
XYT315M7.5P8-90	380	50	90	120	156.6	750	1146.0	95.7	0.95	1003
XYT315L7.5P8-90	380	50	90	120	156.6	750	1146.0	95.7	0.95	1003
XYT315L7.5P8-110	380	50	110	150	191.4	750	1400.7	95.7	0.95	1070
XYT315L7.5P8-132	380	50	132	180	229.7	750	1680.8	95.7	0.95	1190
XYT355M7.5P8-132	380	50	132	180	229.7	750	1680.8	95.7	0.95	1460
XYT355M7.5P8-160	380	50	160	215	278.4	750	2037.3	95.7	0.95	1580
XYT355L7.5P8-200	380	50	200	270	348.0	750	2546.7	95.7	0.95	1697
XYT355L7.5P8-250	380	50	250	340	435.0	750	3183.3	95.7	0.95	1804

### 安装及外形尺寸 Mounting and Overall Dimensions

B3



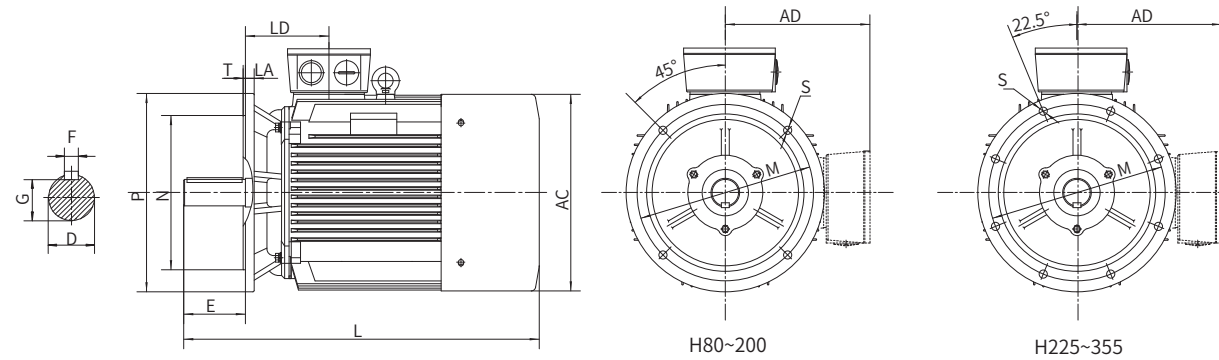
机座号 Frame Size	极数 Poles	尺寸 Dimensions (mm)																	
		A	AA	B	C	D*	E	F	G	H	K	AB	AC	AD	HD	L	BB	HA	LD
80	2,4,6,8	125	34	100	50	19	40	6	15.5	80	10	165	167	145	220	300	142	12	72
90S	2,4,6,8	140	36	100	56	24	50	8	20	90	10	180	190	170	265	315	180	12	76
90L	2,4,6,8	140	36	125	56	24	50	8	20	90	10	180	190	170	265	340	220	12	76
100L	2,4,6,8	160	40	140	63	28	60	8	24	100	12	205	206	180	270	400	233	14	83
112M	2,4,6,8	190	45	140	70	28	60	8	24	112	12	230	235	200	310	400	216	15	87
132S	2,4,6,8	216	55	140	89	38	80	10	33	132	12	270	296	230	350	470	226	18	99
132M	2,4,6,8	216	55	178	89	38	80	10	33	132	12	270	296	230	350	510	256	18	99
160M	2,4,6,8	254	65	210	108	42	110	12	37	160	14.5	320	335	265	425	615	315	20	146
160L	2,4,6,8	254	65	254	108	42	110	12	37	160	14.5	320	335	265	425	660	355	20	146
180M	2,4,6,8	279	70	241	121	48	110	14	42.5	180	14.5	355	365	285	460	685	359	22	161
180L	4,6,8	279	70	279	121	48	110	14	42.5	180	14.5	355	365	285	460	720	394	22	161
200L	2,4,6,8	318	70	305	133	55	110	16	49	200	18.5	395	418	325	525	790	454	25	186
225S	4,8	356	75	286	149	60	140	18	53	225	18.5	435	465	350	575	825	431	28	189
225M	2	356	75	311	149	55	110	16	49	225	18.5	435	465	350	575	820	466	28	189
	4,6,8	356	75	311	149	60	140	18	53	225	18.5	435	465	350	575	850	466	28	189
250M	2	406	80	349	168	60	140	18	53	250	24	490	525	405	655	915	515	30	207
	4,6,8	406	80	349	168	65	140	18	58	250	24	490	525	405	655	915	515	30	207
280S	2	457	85	368	190	65	140	18	58	280	24	550	588	435	705	990	510	35	215
	4,6,8	457	85	368	190	75	140	20	67.5	280	24	550	588	435	705	990	510	35	215
280M	2	457	85	419	190	65	140	18	58	280	24	550	588	435	705	1040	550	35	215
	4,6,8	457	85	419	190	75	140	20	67.5	280	24	550	588	435	705	1040	550	35	215
315S	2	508	120	406	216	65	140	18	58	315	28	635	620	555	870	1205	570	45	257
	4,6,8	508	120	406	216	80	170	22	71	315	28	635	620	555	870	1235	570	45	257
315M	2	508	120	457/508	216	65	140	18	58	315	28	635	620	555	870	1315	680	45	257
	4,6,8	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1345	680	45	257
315L	2	508	120	457/508	216	65	140	18	58	315	28	635	620	555	870	1315	680	45	257
	4,6,8	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1345	680	45	257
355M	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	750	52	284
	4,6,8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1530	750	52	284
355L	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	750	52	284
	4,6,8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1530	750	52	284

注: D尺寸公差: φ19-28为j6; φ38-48为k6; φ55-95为m6。

Tolerance for D dimension: j6 for φ19-28; k6 for φ38-48; m6 for φ55-95.

### 安装及外形尺寸 Mounting and Overall Dimensions

#### B5

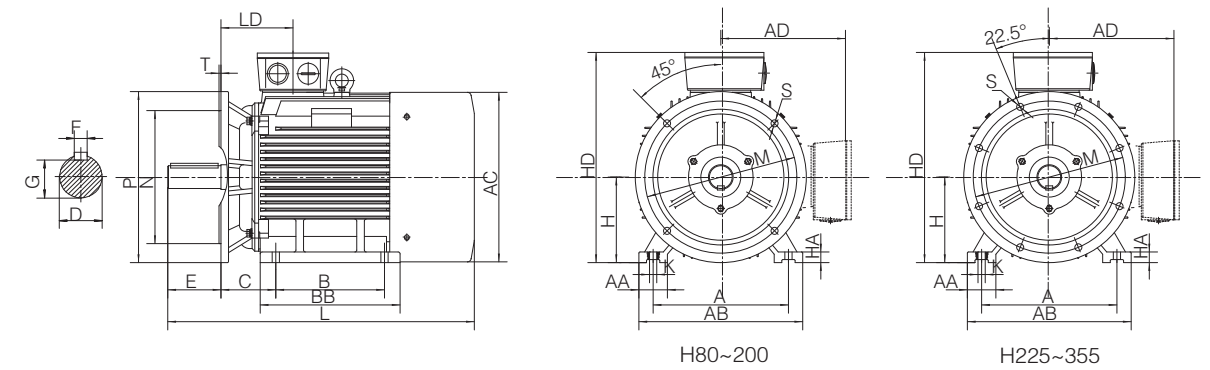


机座号 Frame Size	凸缘号 Flange No.	极数 Poles	尺寸 Dimensions (mm)															
			D*	E	F	G	M	N*	P	S	T	凸缘孔数 Flange holes	AC	L	LD	LA	AD	R
80	FF165	2, 4, 6, 8	19	40	6	15.5	165	130	200	12	3.5	4	167	300	72	12	145	0
90S	FF165	2, 4, 6, 8	24	50	8	20	165	130	200	12	3.5	4	190	360	76	12	170	0
90L	FF165	2, 4, 6, 8	24	50	8	20	165	130	200	12	3.5	4	190	390	76	12	170	0
100L	FF215	2, 4, 6, 8	28	60	8	24	215	180	250	14.5	4	4	206	435	83	13	180	0
112M	FF215	2, 4, 6, 8	28	60	8	24	215	180	250	14.5	4	4	235	400	87	14	200	0
132S	FF265	2, 4, 6, 8	38	80	10	33	265	230	300	14.5	4	4	296	510	99	14	230	0
132M	FF265	2, 4, 6, 8	38	80	10	33	265	230	300	14.5	4	4	296	550	99	14	230	0
160M	FF300	2, 4, 6, 8	42	110	12	37	300	250	350	18.5	5	4	335	660	146	15	265	0
160L	FF300	2, 4, 6, 8	42	110	12	37	300	250	350	18.5	5	4	335	690	146	15	265	0
180M	FF300	2, 4, 6, 8	48	110	14	42.5	300	250	350	18.5	5	4	365	720	161	15	285	0
180L	FF300	4, 6, 8	48	110	14	42.5	300	250	350	18.5	5	4	365	770	161	15	285	0
200L	FF350	2, 4, 6, 8	55	110	16	49	350	300	400	18.5	5	4	418	790	186	17	325	0
225S	FF400	4, 8	60	140	18	53	400	350	450	18.5	5	8	465	825	189	20	350	0
225M	FF400	2	55	110	16	49	400	350	450	18.5	5	8	465	820	189	20	350	0
	FF400	4, 6, 8	60	140	18	53	400	350	450	18.5	5	8	465	850	189	20	350	0
250M	FF500	2	60	140	18	53	500	450	550	18.5	5	8	525	915	207	22	405	0
	FF500	4, 6, 8	65	140	18	58	500	450	550	18.5	5	8	525	915	207	22	405	0
280S	FF500	2	65	140	18	58	500	450	550	18.5	5	8	588	990	215	22	435	0
	FF500	4, 6, 8	75	140	20	67.5	500	450	550	18.5	5	8	588	990	215	22	435	0
280M	FF500	2	65	140	18	58	500	450	550	18.5	5	8	588	1040	215	22	435	0
	FF500	4, 6, 8	75	140	20	67.5	500	450	550	18.5	5	8	588	1040	215	22	435	0

注: 1)R是法兰安装面至轴肩的距离。  
2) D尺寸公差: φ19-28为j6; φ38-48为k6; φ55-75为m6。  
Notes: 1)R means the distance from flange mounting interface to auxiliary shoulder.  
2) Tolerance for D dimension: j6 for φ19-28 ; k6 for φ38-48; m6 for φ55-75.

### 安装及外形尺寸 Mounting and Overall Dimensions

#### B35

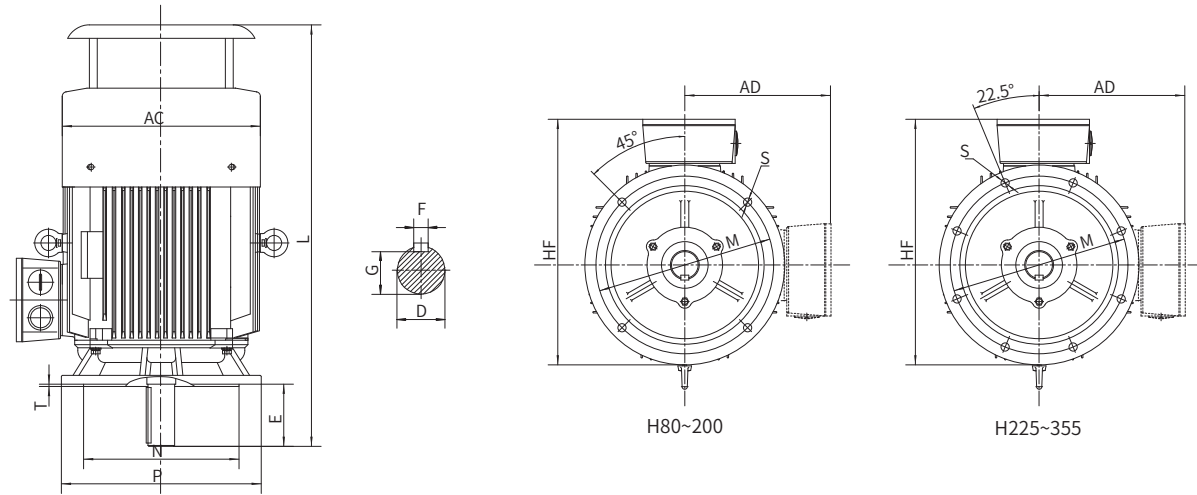


机座号 Frame Size	极数 Poles	尺寸 Dimensions (mm)																								
		A	AA	B	C	D*	E	F	G	H	K	AB	AC	AD	HD	L	BB	HA	LD	凸缘孔数 Flange holes	M	N*	P	R*	S	T
80	2,4,6,8	125	34	100	50	19	40	6	15.5	80	10	165	167	145	220	300	142	12	72	4	165	130	200	0	12	3.5
90S	2,4,6,8	140	36	100	56	24	50	8	20	90	10	180	190	170	265	360	180	12	76	4	165	130	200	0	12	3.5
90L	2,4,6,8	140	36	125	56	24	50	8	20	90	10	180	190	170	265	390	220	12	76	4	165	130	200	0	12	3.5
100L	2,4,6,8	160	40	140	63	28	60	8	24	100	12	205	206	180	270	435	233	14	83	4	215	180	250	0	14.5	4
112M	2,4,6,8	190	45	140	70	28	60	8	24	112	12	230	235	200	310	400	216	15	87	4	215	180	250	0	14.5	4
132S	2,4,6,8	216	55	140	89	38	80	10	33	132	12	270	296	230	350	510	226	18	99	4	265	230	300	0	14.5	4
132M	2,4,6,8	216	55	178	89	38	80	10	33	132	12	270	296	230	350	550	256	18	99	4	265	230	300	0	14.5	4
160M	2,4,6,8	254	65	210	108	42	110	12	37	160	14.5	320	335	265	425	660	315	20	146	4	300	250	350	0	18.5	5
160L	2,4,6,8	254	65	254	108	42	110	12	37	160	14.5	320	335	265	425	690	355	20	146	4	300	250	350	0	18.5	5
180M	2,4,6,8	279	70	241	121	48	110	14	42.5	180	14.5	355	365	285	460	720	359	22	161	4	300	250	350	0	18.5	5
180L	4,6,8	279	70	279	121	48	110	14	42.5	180	14.5	355	365	285	460	770	394	22	161	4	300	250	350	0	18.5	5
200L	2,4,6,8	318	70	305	133	55	110	16	49	200	18.5	395	418	325	525	790	454	25	186	4	350	300	400	0	18.5	5
225S	4,8	356	75	286	149	60	140	18	53	225	18.5	435	465	350	575	825	431	28	189	8	400	350	450	0	18.5	5
225M	2	356	75	311	149	55	110	16	49	225	18.5	435	465	350	575	820	466	28	189	8	400	350	450	0	18.5	5
	4,6,8	356	75	311	149	60	140	18	53	225	18.5	435	465	350	575	850	466	28	189	8	400	350	450	0	18.5	5
250M	2	406	80	349	168	60	140	18	53	250	24	490	525	405	655	915	515	30	207	8	500	450	550	0	18.5	5
	4,6,8	406	80	349	168	65	140	18	58	250	24	490	525	405	655	915	515	30	207	8	500	450	550	0	18.5	5
280S	2	457	85	368	190	65	140	18	58	280	24	550	588	435	705	990	510	35	215	8	500	450	550	0	18.5	5
	4,6,8	457	85	368	190	75	140	20	67.5	280	24	550	588	435	705	990	510	35	215	8	500	450	550	0	18.5	5
280M	2	457	85	419	190	65	140	18	58	280	24	550	588	435	705	1040	550	35	215	8	500	450	550	0	18.5	5
	4,6,8	457	85	419	190	75	140	20	67.5	280	24	550	588	435	705	1040	550	35	215	8	500	450	550	0	18.5	5
315S	2	508	120	406	216	65	140	18	58	315	28	635	620	555	870	1205	570	45	257	8	600	550	660	0	24	6
	4,6,8	508	120	406	216	80	170	22	71	315	28	635	620	555	870	1235	570	45	257	8	600	550	660	0	24	6
315M	2	508	120	457/508	216	65	140	18	58	315	28	635	620	555	870	1315	680	45	257	8	600	550	660	0	24	6
	4,6,8	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1345	680	45	257	8	600	550	660	0	24	6
315L	2	508	120	457/508	216	65	140	18	58	315	28	635	620	555	870	1315	680	45	257	8	600	550	660	0	24	6
	4,6,8	508	120	457/508	216	80	170	22	71	315	28	635	620	555	870	1345	680	45	257	8	600	550	660	0	24	6
355M	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	750	52	284	8	740	680	800	0	24	6
	4,6,8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1530	750	52	284	8	740	680	800	0	24	6
355L	2	610	120	560/630	254	75	140	20	67.5	355	28	730	710	655	1010	1500	750	52	284	8	740	680	800	0	24	6
	4,6,8	610	120	560/630	254	95	170	25	86	355	28	730	710	655	1010	1530	750	52	284	8	740	680	800	0	24	6

注: 1)R是法兰安装面至轴肩的距离。  
2) D尺寸公差: φ19-28为j6; φ38-48为k6; φ55-95为m6。  
Notes: 1) R means the distance from flange mounting interface to auxiliary shoulder.  
2) Tolerance for D dimension: j6 for φ19-28 ; k6 for φ38-48; m6 for φ55-95.

### 安装及外形尺寸 Mounting and Overall Dimensions

V1



机座号 Frame Size	极数 Poles	安装尺寸 Mounting Dimensions (mm)										凸缘孔数 Flange holes	外形尺寸 Overall Dimensions (mm)			
		D*	E	F	G	M	N*	P	R	S	T		AC	AD	HF	L
180M	2, 4, 6, 8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	0526	795
180L	4, 6, 8	48	110	14	42.5	300	250	350	0	18.5	5	4	365	285	526	830
200L	2, 4, 6, 8	55	110	16	49	350	300	400	0	18.5	5	4	418	325	595	935
225S	4, 8	60	140	18	53	400	350	450	0	18.5	5	8	465	350	647	975
225M	2	55	140	16	49	400	350	450	0	18.5	5	8	465	350	647	980
	4, 6, 8	60		18	53											1010
250M	2	60	140	18	53	500	450	550	0	18.5	5	8	525	405	726	1110
	4, 6, 8	65		18	58											1110
280S	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1105
	4, 6, 8	75		20	67.5											1125
280M	2	65	140	18	58	500	450	550	0	18.5	5	8	588	435	820	1137
	4, 6, 8	75		20	67.5											1157
315S	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1355
	4, 6, 8	80		22	71											1385
315M	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1465
	4, 6, 8	80		22	71											1495
315L	2	65	140	18	58	600	550	660	0	24	6	8	620	555	950	1465
	4, 6, 8	80		22	71											1495
355M	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1630
	4, 6, 8	95		25	86											1660
355L	2	75	140	20	67.5	740	680	800	0	24	6	8	710	655	1145	1630
	4, 6, 8	95		25	86											1660

注: 1) D尺寸公差: φ19-28为j6; φ38-48为k6; φ55-95为m6。

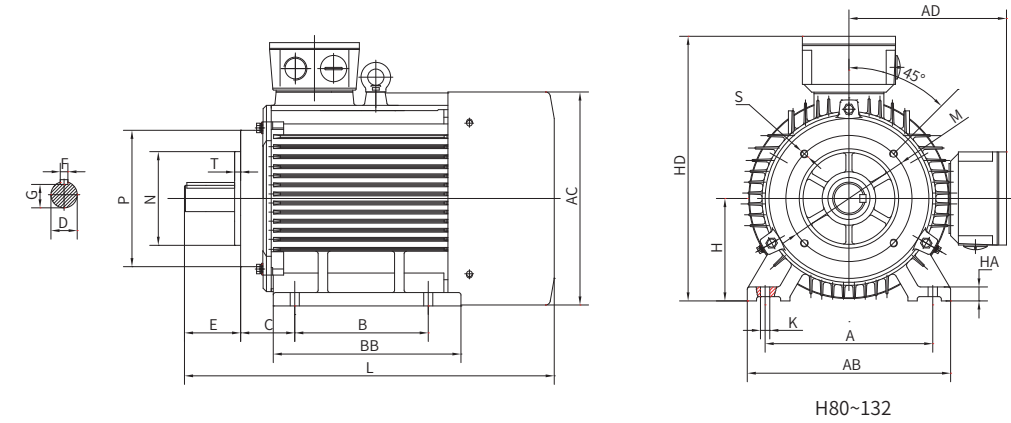
2) N尺寸公差为j6。

Notes: 1) Tolerance for D dimension: j6 for φ19-28; k6 for φ38-48; m6 for φ55-95.

2) Tolerance for N dimension is j6.

### 安装及外形尺寸 Mounting and Overall Dimensions

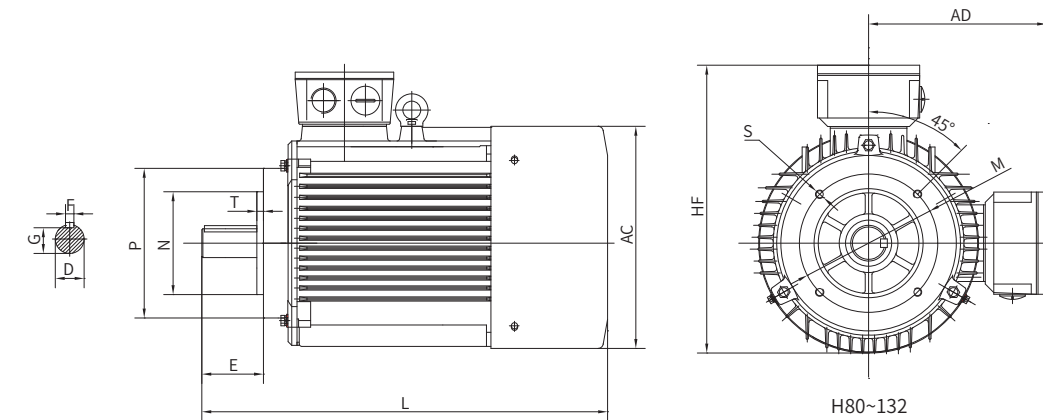
B34



机座号 Frame size	极数 Poles	安装尺寸 Mounting Dimensions (mm)											凸缘孔数 Flange holes	外形尺寸 Overall Dimensions			
		D*	E	F	G	M	N*	P	R	S	T	AC		HD	LD	L	
80	2, 4, 6, 8	19	40	6	15.5	100	80	120	0	4-M6	3	4	167	145		300	
90S	2, 4, 6, 8	24	50	8	20	115	95	140	0	4-M8	3	4	190	170	—	360	
90L	2, 4, 6, 8	24	50	8	20	115	95	140	0	4-M8	3	4	190	170		390	
100L	2, 4, 6, 8	28	60	8	24	130	110	160	0	4-M8	3.5	4	206	180	245	435	
112M	2, 4, 6, 8	28	60	8	24	130	110	160	0	4-M8	3.5	4	235	200	275	400	
132S	2, 4, 6, 8	38	80	10	33	165	130	200	0	4-M10	4	4	260	210	350	470	
132M	2, 4, 6, 8	38	80	10	33	165	130	200	0	4-M10	4	4	260	210	350	510	

注: N尺寸公差为j6。 Notes: Tolerance for N dimension is j6.

B14



机座号 Frame size	极数 Poles	安装尺寸 Mounting Dimensions (mm)														外形尺寸 Overall Dimensions					凸缘孔数 Flange holes	
		A	B	C	D*	E	F	G	H	K	M	N*	P	R*	S	T	AB	AC	AD	HD		L
80M	2, 4, 6, 8	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3	165	167	145	220	300	4
90S	2, 4, 6, 8	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3	180	190	170	265	360	4
90L	2, 4, 6, 8	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3	180	190	170	265	390	4
100L	2, 4, 6, 8	160	140	63	28	60	8	24	100	12	130	110	160	0	M8	3.5	205	206	180	270	435	4
112M	2, 4, 6, 8	190	140	70	28	60	8	24	112	12	130	110	160	0	M8	3.5	230	235	200	310	400	4
132S	2, 4, 6, 8	216	140	89	38	80	10	33	132	12	165	130	200	0	M10	4	265	260	210	350	470	4
132M	2, 4, 6, 8	216	178	89	38	80	10	33	132	12	165	130	200	0	M10	4	265	260	210	350	510	4

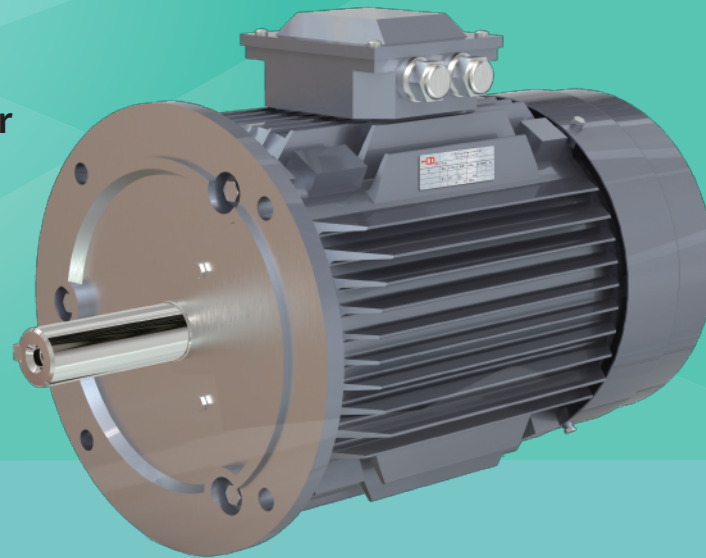
注: N尺寸公差为j6。 Notes: Tolerance for N dimension is j6.



# YE3GW/YE4GW 系列

耐高温三相异步电动机

YE3GW/YE3GW series  
High Temperature Resistant  
Three Phase Asynchronous Motor



随着纺织印染机械的发展,对电机的使用条件、性能等指标提出了更高的要求,特别是印染机械的循环风机,使用条件更是恶劣,而以往电机轴的硬度、轴承及绕组线圈的耐高温性能等无法达到其要求,在纺织印染机械上使用,稳定性、可靠性很差,经常发生绕组烧毁,轴承咬死等现象,给用户带来停机停产等严重的经济损失。

YE3GW/YE4GW系列耐高温三相异步电动机是我公司在与印染机械行业配套近20年的基础上,根据用户提出的要求,我公司又成功研制的新一代耐高温电机,具有新型的外观,并新增了前、后端盖注、排油孔,同时在内盖内增加甩油结构,防止加油时将油脂挤进电机内腔。并且用规范油管接至电机尾部,用户能在不拆装电机的前提下能正常给轴承加油。在使用环境 $\leq 55^{\circ}\text{C}$ 时,出轴与法兰等部分温度提高到 $250^{\circ}\text{C}$ 的恶劣环境下与循环风机直接相连能连续正常工作。轴承全部采用耐高温的特种轴承,电机在运行1500小时左右,即应加注7017-1B耐高温润滑脂,以保证轴承的使用寿命,并在电机材料上全部采用H级绝缘材料,延长电机使用寿命,保证了印染机械行业的连续生产。具有结构紧凑、性能可靠、方便耐用等特点。

With the development of textile printing and dyeing machinery, higher requirements are asked on motor working conditions and performance. The working condition for circulating fan of dyeing machine is even worse.

YE3GW/YE4GW series motor is our second generation of high temperature resistant motor, designed on the basis in our company 20 years experience and according to user request.

The motor has aesthetic appearance and oil drain device for injection at DE and NDE side. Inner cover also has oil thrower inside to avoid grease into the lumen when oiling.

When the Ambient temperature is less than 55 degrees, the temperature of shaft, flange and other parts increase to 250 degrees, the motor can be still working well for connecting directly to the circulating fan.

Using high temperature resistant bearing which should be filled in 7017-1B high temperature grease after 1500 hours running.

H class insulation makes the motor with higher heat stability and longer life, and ensures the continuous production of printing and dyeing machinery industry.

## YE3GW技术数据 YE3GW Technical Specifications

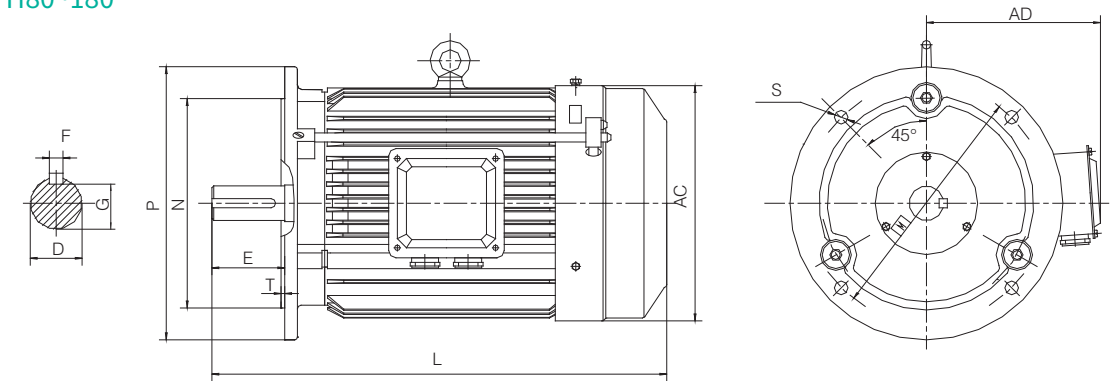
电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque
	kW	HP	380V I <sub>n</sub> A	400V I <sub>n</sub> A	r/min	N.m	$\eta\%$	COS $\phi$	Ist/IN	Tst/TN	TM/TN
YE3GW80M1-2	0.75	1	1.7	1.6	2845	2.4	80.7	0.82	7.0	2.3	2.3
YE3GW80M2-2	1.1	1.5	2.4	2.3	2840	3.5	82.7	0.83	7.6	2.2	2.3
YE3GW80M1-4	0.55	0.75	1.4	1.3	1380	3.5	80.8	0.75	6.6	2.4	2.3
YE3GW80M2-4	0.75	1	1.8	1.7	1380	4.8	82.5	0.75	6.6	2.3	2.3
YE3GW80M1-6	0.37	0.5	1.1	1.0	900	3.5	73.5	0.70	6.0	1.9	2.0
YE3GW80M2-6	0.55	0.75	1.5	1.4	900	5.3	77.2	0.72	6.0	1.9	2.1
YE3GW90S-2	1.5	2	3.2	3.1	2840	4.8	84.2	0.84	7.9	2.2	2.3
YE3GW90L-2	2.2	3	4.6	4.3	2840	7.0	85.9	0.85	7.9	2.2	2.3
YE3GW90S-4	1.1	1.5	2.6	2.5	1390	7.0	84.1	0.76	6.8	2.3	2.3
YE3GW90L-4	1.5	2	3.5	3.3	1390	9.6	85.3	0.77	7.0	2.3	2.3
YE3GW90S-6	0.75	1	2.0	1.9	915	7.2	78.9	0.71	6.0	2.0	2.1
YE3GW90L-6	1.1	1.5	2.8	2.7	915	10.5	81.0	0.73	6.0	2.0	2.1
YE3GW100L-2	3	4	6.0	5.7	2860	9.6	87.1	0.87	8.5	2.2	2.3
YE3GW100L1-4	2.2	3	4.8	4.5	1410	14.0	86.7	0.81	7.6	2.3	2.3
YE3GW100L2-4	3	4	6.3	6.0	1410	19.1	87.7	0.82	7.6	2.3	2.3
YE3GW100L-6	1.5	2	3.8	3.6	920	14.3	82.5	0.73	6.5	2.0	2.1
YE3GW112M-2	4	5.5	7.8	7.4	2890	12.7	88.1	0.88	8.5	2.2	2.3
YE3GW112M-4	4	5.5	8.4	7.9	1440	25.5	88.6	0.82	7.8	2.2	2.3
YE3GW112M-6	2.2	3	5.4	5.1	940	21.0	84.3	0.74	6.6	2.0	2.1
YE3GW132S1-2	5.5	7.5	10.6	10.1	2910	17.5	89.2	0.88	8.5	2.0	2.3
YE3GW132S2-2	7.5	10	14.4	13.7	2905	23.9	90.1	0.88	8.5	2.0	2.3
YE3GW132S-4	5.5	7.5	11.2	10.7	1445	35.0	89.6	0.83	7.9	2.0	2.3
YE3GW132M-4	7.5	10	15.0	14.3	1445	47.8	90.4	0.84	7.5	2.0	2.3
YE3GW132S-6	3	4	7.2	6.8	960	28.7	85.6	0.74	6.8	2.0	2.1
YE3GW132M1-6	4	5.5	9.5	9.0	960	38.2	86.8	0.74	6.8	2.0	2.1
YE3GW132M2-6	5.5	7.5	12.7	12.0	960	52.5	88.0	0.75	7.0	2.0	2.1
YE3GW160M1-2	11	15	20.6	19.6	2935	35.0	91.2	0.89	8.5	2.0	2.3
YE3GW160M2-2	15	20	27.9	26.5	2935	47.8	91.9	0.89	8.5	2.0	2.3
YE3GW160L-2	18.5	25	34.2	32.5	2935	58.9	92.4	0.89	8.5	2.0	2.3
YE3GW160M-4	11	15	21.5	20.4	1460	70.0	91.4	0.85	7.7	2.2	2.3
YE3GW160L-4	15	20	28.8	27.3	1460	95.5	92.1	0.86	7.8	2.2	2.3
YE3GW160M-6	7.5	10	16.2	15.4	970	71.6	89.1	0.79	7.0	2.0	2.1
YE3GW160L-6	11	15	23.1	22.0	970	105.1	90.3	0.80	7.2	2.0	2.1
YE3GW180M-2	22	30	40.5	38.5	2940	70.0	92.7	0.89	8.5	2.0	2.3
YE3GW180M-4	18.5	25	35.3	33.5	1470	117.8	92.6	0.86	7.8	2.0	2.3
YE3GW180L-4	22	30	41.8	39.7	1470	140.1	93.0	0.86	7.8	2.0	2.3
YE3GW180L-6	15	20	30.9	29.3	970	143.3	91.2	0.81	7.3	2.0	2.1

### YE4GW技术数据 YE4GW Technical Specifications

电机型号 Motor Type	额定功率		额定电流		额定转速	额定转矩	效率	功率因数	堵转电流 额定电流	堵转转矩 额定转矩	最大转矩 额定转矩
	Rated Power		Current		Rated Speed	Rated Torque	Efficiency	Power Factor	Locked Current Rated Current	Locked Torque Rated Torque	Maximun Torque Rated Torque
	kW	HP	380V I <sub>n</sub> A	400V I <sub>n</sub> A	r/min	N.m	η%	COSφ	Ist/IN	Tst/TN	TM/TN
YE4GW80M1-2	0.75	1	1.6	1.6	2900	2.4	83.5	0.83	8.5	2.2	2.3
YE4GW80M2-2	1.1	1.5	2.4	2.2	2900	3.5	85.2	0.83	8.5	2.2	2.3
YE4GW80M1-4	0.55	0.75	1.3	1.3	1440	3.5	83.9	0.74	8.5	2.3	2.3
YE4GW80M2-4	0.75	1	1.8	1.7	1440	4.8	85.7	0.74	8.5	2.3	2.3
YE4GW90S-2	1.5	2	3.1	2.9	2890	4.8	86.5	0.85	9.0	2.2	2.3
YE4GW90L-2	2.2	3	4.4	4.2	2895	7.0	88.0	0.86	9.0	2.2	2.3
YE4GW90S-4	1.1	1.5	2.6	2.4	1450	7.0	87.2	0.75	8.5	2.3	2.3
YE4GW90L-4	1.5	2	3.4	3.2	1450	9.6	88.2	0.76	9.0	2.3	2.3
YE4GW90S-6	0.75	1	2.0	1.9	960	7.2	82.7	0.70	7.5	2.1	2.1
YE4GW90L-6	1.1	1.5	2.8	2.7	960	10.5	84.5	0.70	7.5	2.1	2.1
YE4GW100L-2	3	4	5.9	5.6	2905	9.6	89.1	0.87	9.5	2.2	2.3
YE4GW100L1-4	2.2	3	4.7	4.5	1460	14.0	89.5	0.79	9.0	2.3	2.3
YE4GW100L2-4	3	4	6.3	6.0	1460	19.1	90.4	0.80	9.5	2.3	2.3
YE4GW100L-6	1.5	2	3.7	3.6	965	14.3	85.9	0.71	7.5	2.1	2.1
YE2-112M-2	4	5.5	7.7	7.3	2910	12.7	90.0	0.88	9.5	2.2	2.3
YE2-112M-4	4	5.5	8.3	7.9	1460	25.5	91.1	0.80	9.5	2.3	2.3
YE4GW112M-6	2.2	3	5.4	5.1	940	21.0	87.4	0.71	7.5	2.1	2.1
YE4GW132S1-2	5.5	7.5	10.4	9.9	2950	17.5	90.9	0.88	9.5	2.0	2.3
YE4GW132S2-2	7.5	10	14.0	13.3	2950	23.9	91.7	0.89	9.5	2.0	2.3
YE4GW132S-4	5.5	7.5	11.4	10.8	1475	35.0	91.9	0.80	9.5	2.0	2.3
YE4GW132M-4	7.5	10	15.2	14.4	1475	47.8	92.6	0.81	9.5	2.0	2.3
YE4GW132S-6	3	4	7.2	6.9	975	28.7	88.6	0.71	7.5	2.0	2.1
YE4GW132M1-6	4	5.5	9.4	9.0	975	38.2	89.5	0.72	8.0	2.0	2.1
YE4GW132M2-6	5.5	7.5	12.8	12.2	975	52.5	90.5	0.72	8.0	2.0	2.1
YE4GW160M1-2	11	15	20.3	19.3	2955	35.0	92.6	0.89	9.5	2.0	2.3
YE4GW160M2-2	15	20	27.4	26.1	2955	47.8	93.3	0.89	9.5	2.0	2.3
YE4GW160L-2	18.5	25	33.7	32.0	2955	58.9	93.7	0.89	9.5	2.0	2.3
YE4GW160M-4	11	15	21.6	20.5	1475	70.0	93.3	0.83	9.5	2.0	2.3
YE4GW160L-4	15	20	28.9	27.4	1475	95.5	93.9	0.84	9.5	2.0	2.3
YE4GW160M-6	7.5	10	16.4	15.6	980	71.6	91.3	0.76	8.0	2.0	2.1
YE4GW160L-6	11	15	23.5	22.3	980	105.1	92.3	0.77	8.5	2.0	2.1
YE4GW180M-2	22	30	40.0	38.0	2970	70.0	94.0	0.89	9.5	2.0	2.3
YE4GW180M-4	18.5	25	35.1	33.3	1480	117.8	94.2	0.85	9.5	2.0	2.3
YE4GW180L-4	22	30	41.6	39.5	1480	140.1	94.5	0.85	9.5	2.0	2.3
YE4GW180L-6	15	20	30.7	29.1	985	143.3	92.9	0.80	8.5	2.0	2.1

### 安装及外形尺寸 Mounting and Overall Dimensins

IMB5 H80~180



### YE3GW

机座号 Frame Size	凸缘号 Flange No.	极数 Poles	尺寸 Dimensions (mm)															
			D*	E	F	G	M	N*	P	S	T	凸缘孔数 Flange holes	AC	L	LD	LA	AD	R
80	FF165	2、4、6	19	40	6	15.5	165	130	200	12	3.5	4	167	300	72	12	145	0
90S	FF165	2、4、6	24	50	8	20	165	130	200	12	3.5	4	190	360	76	12	170	0
90L	FF165	2、4、6	24	50	8	20	165	130	200	12	3.5	4	190	390	76	12	170	0
100L	FF215	2、4、6	28	60	8	24	215	180	250	14.5	4	4	206	435	83	13	180	0
112M	FF215	2、4、6	28	60	8	24	215	180	250	14.5	4	4	235	468	87	14	200	0
132S	FF265	2、4、6	38	80	10	33	265	230	300	14.5	4	4	296	510	99	14	230	0
132M	FF265	2、4、6	38	80	10	33	265	230	300	14.5	4	4	296	550	99	14	230	0
160M	FF300	2、4、6	42	110	12	37	300	250	350	18.5	5	4	335	615	146	15	265	0
160L	FF300	2、4、6	42	110	12	37	300	250	350	18.5	5	4	335	660	146	15	265	0
180M	FF300	2、4、6	48	110	14	42.5	300	250	350	18.5	5	4	365	685	161	15	285	0
180L	FF300	4、6	48	110	14	42.5	300	250	350	18.5	5	4	365	720	161	15	285	0

注: 1)R是法兰安装面至轴肩的距离。 2) D尺寸公差: φ19-28为j6; φ38-48为k6。

Notes: 1)R means the distance from flange mounting interface to auxiliary shoulder. 2) Tolerance for D dimension: j6 for φ19-28 ; k6 for φ38-48.

### YE4GW

机座号 Frame Size	凸缘号 Flange No.	极数 Poles	尺寸 Dimensions (mm)															
			D*	E	F	G	M	N*	P	S	T	凸缘孔数 Flange holes	AC	L	LD	LA	AD	R
80	FF165	2、4、6	19	40	6	15.5	165	130	200	12	3.5	4	167	300	72	12	145	0
90S	FF165	2、4、6	24	50	8	20	165	130	200	12	3.5	4	190	360	76	12	170	0
90L	FF165	2、4、6	24	50	8	20	165	130	200	12	3.5	4	190	390	76	12	170	0
100L	FF215	2、4、6	28	60	8	24	215	180	250	14.5	4	4	206	435	83	13	180	0
112M	FF215	2、4、6	28	60	8	24	215	180	250	14.5	4	4	235	468	87	14	200	0
132S	FF265	2、4、6	38	80	10	33	265	230	300	14.5	4	4	296	510	99	14	230	0
132M	FF265	2、4、6	38	80	10	33	265	230	300	14.5	4	4	296	550	99	14	230	0
160M	FF300	2、4、6	42	110	12	37	300	250	350	18.5	5	4	335	660	146	15	265	0
160L	FF300	2、4、6	42	110	12	37	300	250	350	18.5	5	4	335	690	146	15	265	0
180M	FF300	2、4、6	48	110	14	42.5	300	250	350	18.5	5	4	365	720	161	15	285	0
180L	FF300	4、6	48	110	14	42.5	300	250	350	18.5	5	4	365	770	161	15	285	0

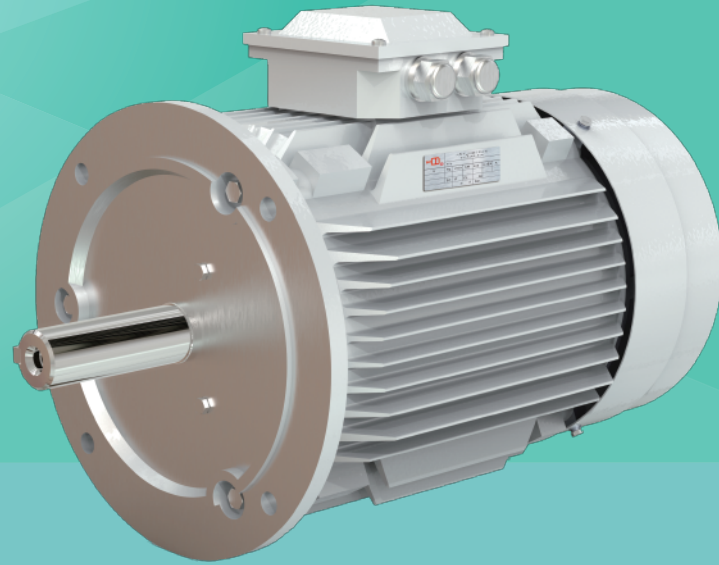
注: 1)R是法兰安装面至轴肩的距离。 2) D尺寸公差: φ19-28为j6; φ38-48为k6。

Notes: 1)R means the distance from flange mounting interface to auxiliary shoulder. 2) Tolerance for D dimension: j6 for φ19-28 ; k6 for φ38-48.

# XYTZ 系列

## 耐高温永磁同步电动机

### XYTZ series High Temperature Permanent Magnet Synchronous Motor



随着纺织印染机械的发展,用户对电机能效要求的提高,我司成功研制的耐高温永磁同步电动机,不仅能有效满足印染机械恶劣的使用工况,电机效率更比同规格异步电机提高4个百分点。节电率可以达到6%以上。

在环境温度 $\leq 55^{\circ}\text{C}$ 时,出轴与法兰等部分在温度高达 $200^{\circ}\text{C}$ 的恶劣环境下,连续工作,轴承全部采用耐高温的特种轴承,电机按指定周期和牌号加注耐高温油脂,并考虑在不拆装电机的前提下能在主机上为电机方便加注油脂,特意在前后端盖上设计了轴承加油装置,以保证其电机使用寿命,并在电机材料上全部采用H级绝缘材料,保证了印染机械行业的连续生产。具有结构紧凑、性能可靠、方便耐用等特点。

With the development of textile printing and dyeing machinery,Improvement of users' requirements for motor energy efficiency,High temperature permanent magnet synchronous motor successfully developed by our company.It can not only effectively meet the harsh working conditions of printing and dyeing machinery, but also improve the motor efficiency by 4% compared with the asynchronous motor of the same product. The power saving rate can reach more than 6%.

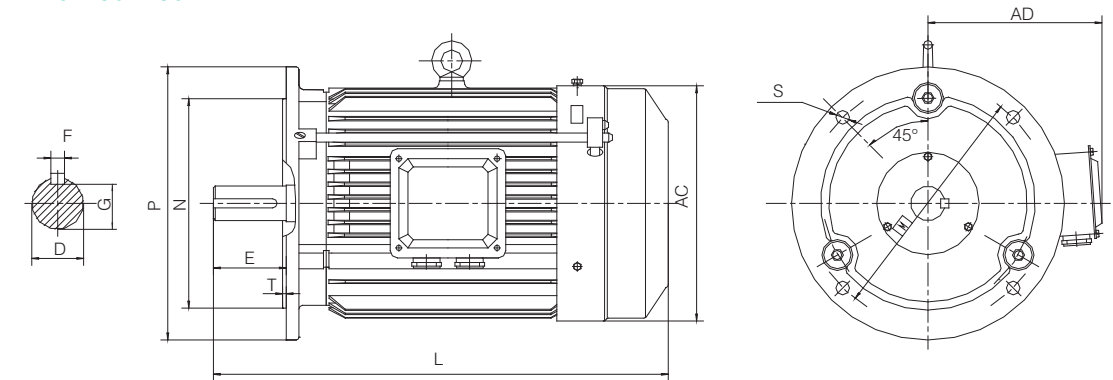
When the Ambient temperature is less than 55 degrees,the temperature of shaft,flange and other parts increase to 200 degrees. the motor can be still working well ,All of motors using high temperature resistant bearing ,The motor shall be filled with high-temperature grease according to the specified cycle and brand. Considering that the motor can be easily filled with grease on the main machine without disassembling the motor, the bearing oil filling device is specially designed on the front and rear end covers to ensure the service life of the motor, H class insulation makes the motor with higher heat stability and longer life,and ensures the continuous production of printing and dving machiner industry.

### 技术数据 Technical Specifications

电机型号 Motor Type	额定功率	额定电压	额定频率	绝缘等级	极数	额定转速	效率	机座号	重量	外形尺寸 (长×宽×高)
	Rated Power	Rated Voltage	Rated Frequency	Insulation class	Pole	Rated Speed	Efficiency	Frame No	Weight	Overall dimension (L × W × H)
	kW	V	kW			r/min	$\eta\%$		kg	mm
XYTZ132S15P4GW-5.5	5.5	380	50	F	4	1500	92.1	132	63	510x275x365
XYTZ132M15P4GW-7.5	7.5	380	50	F	4	1500	92.6	132	78	560x275x365
XYTZ132M18P4GW-7.5	7.5	380	60	F	4	1800	92.6	132	78	560x275x365
XYTZ132M15P4GW-9.2	9.2	380	50	F	4	1500	93.0	132	78	560x275x365
XYTZ160M15P4GW-11	11	380	50	F	4	1500	93.6	160	102	670x320x440
XYTZ160L15P4GW-15	15	380	50	F	4	1500	94.0	160	135	700x320x440

### 安装及外形尺寸 Mounting and Overall Dimensins

XYTZ: IMB5 H80~180



机座号 Frame Size	凸缘号 Flange No.	极数 Poles	尺寸 Dimensions ( mm )															
			D*	E	F	G	M	N*	P	S	T	凸缘孔数 Flange holes	AC	L	LD	LA	AD	R
80	FF165	2、4、6	19	40	6	15.5	165	130	200	12	3.5	4	167	300	72	12	145	0
90S	FF165	2、4、6	24	50	8	20	165	130	200	12	3.5	4	190	360	76	12	170	0
90L	FF165	2、4、6	24	50	8	20	165	130	200	12	3.5	4	190	390	76	12	170	0
100L	FF215	2、4、6	28	60	8	24	215	180	250	14.5	4	4	206	435	83	13	180	0
112M	FF215	2、4、6	28	60	8	24	215	180	250	14.5	4	4	235	468	87	14	200	0
132S	FF265	2、4、6	38	80	10	33	265	230	300	14.5	4	4	296	510	99	14	230	0
132M	FF265	2、4、6	38	80	10	33	265	230	300	14.5	4	4	296	550	99	14	230	0
160M	FF300	2、4、6	42	110	12	37	300	250	350	18.5	5	4	335	615	146	15	265	0
160L	FF300	2、4、6	42	110	12	37	300	250	350	18.5	5	4	335	660	146	15	265	0
180M	FF300	2、4、6	48	110	14	42.5	300	250	350	18.5	5	4	365	685	161	15	285	0
180L	FF300	4、6	48	110	14	42.5	300	250	350	18.5	5	4	365	720	161	15	285	0

注: 1)R是法兰安装面至轴肩的距离。

2) D尺寸公差:  $\phi 19-28$ 为j6;  $\phi 38-48$ 为k6。

Notes: 1)R means the distance from flange mounting interface to auxiliary shoulder.

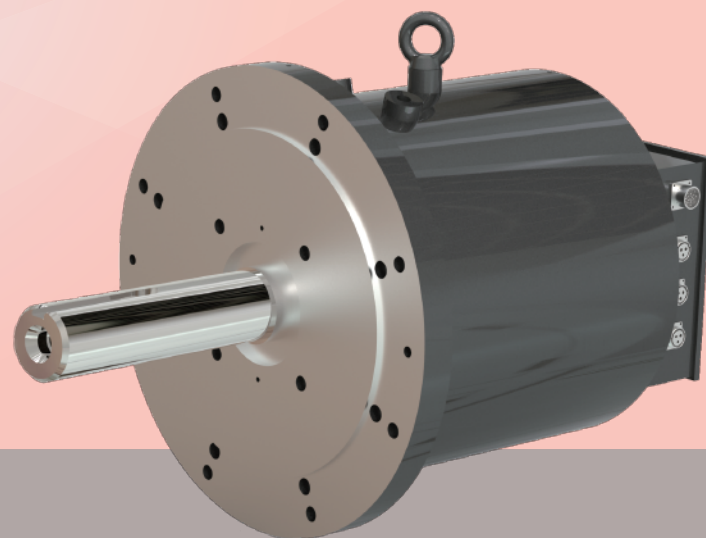
2) Tolerance for D dimension :j6 for  $\phi 19-28$  ;k6 for  $\phi 38-48$ .



# YTDD 系列

## 永磁伺服直驱电机

### YTDD Permanent Magnet Servo Direct Drive Motor



YTDD系列永磁伺服直驱电机是亨达专为高性能的运动控制而设计的,所有电机采用三相永磁同步伺服电机,转子采用了高磁能积的Nd2Fe14B稀土永磁材料,具有H级热绝缘等级,电机中还安装有PT100温度传感器用来监控电机温度。

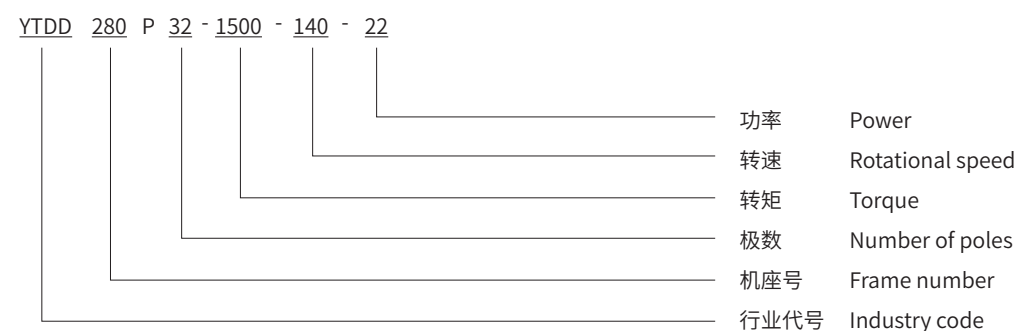
电机可设计成流体冷却,也可以是传导/对流冷却。定子绕组是经真空浸漆的三相绕组,可提供最好的机械特性、绝缘和散热性能。

YTDD Permanent magnet servo direct drive motor is designed by Hengda company specially for high-performance motion control , all motors using three-phase permanent magnet synchronous servo motor, rotor using high magnetic energy product Nd2Fe14B rare earth permanent magnet material, with H class thermal insulation, the motor is also installed with PT100 to monitor the motor temperature.

The motor can be designed for fluid cooling, conduction or convection cooling. Stator windings are vacuum-impregnated that provide the best mechanical properties, insulation and heat dissipation.

### 型号含义 Meaning of type code

产品型号按下列顺序排列:



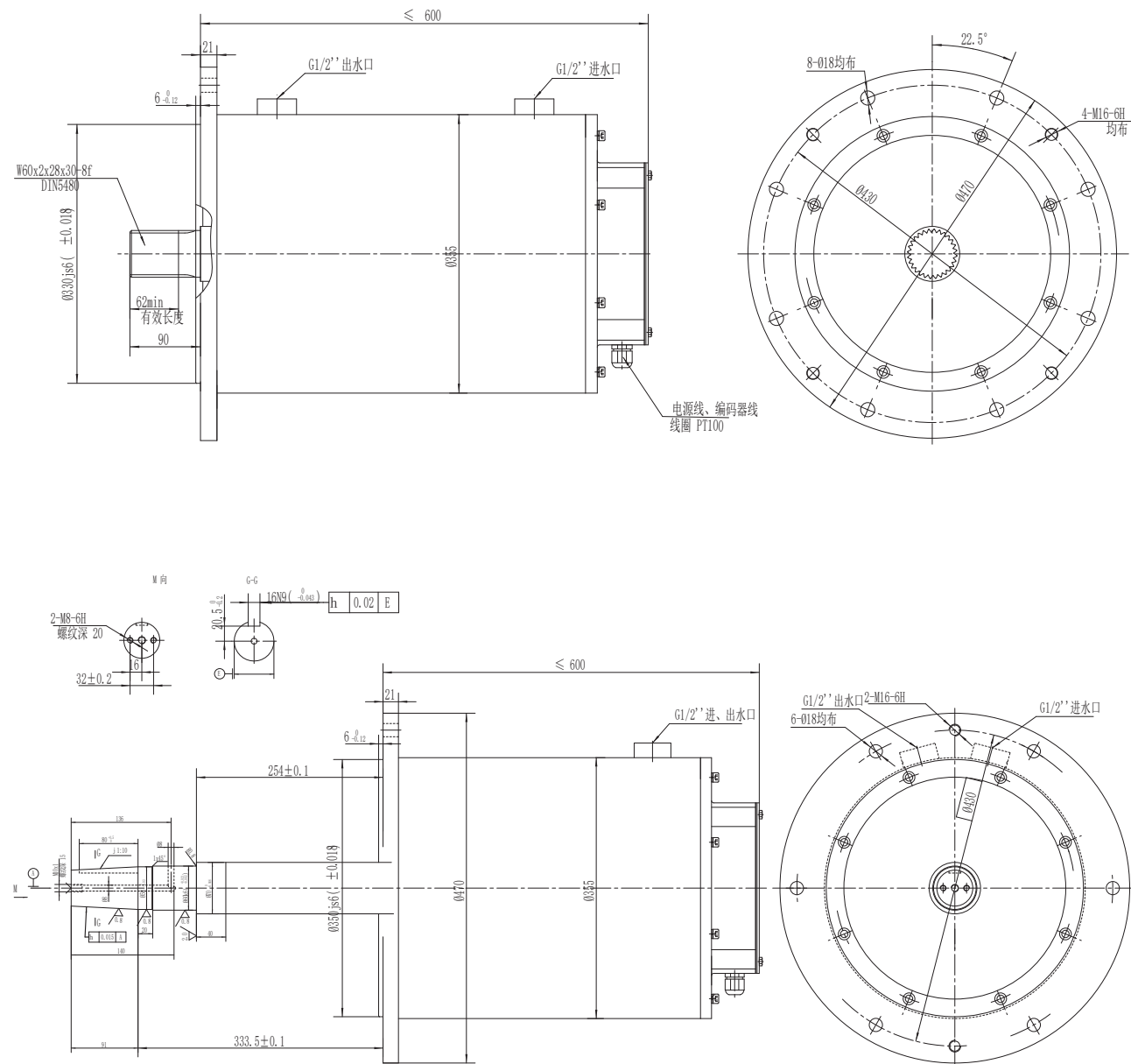
### YTDD180

#### 技术数据 Technical Specifications

电机型号 Motor Type	额定功率	额定转速	额定转矩	额定电压	额定电流	额定频率	效率	功率因数
	Rated Power	Rated Speed	Rated Torque	Rated voltage	Rated Current	Rated Frequency	Efficiency	Power Factor
	kW	rpm	N·m	V	A	Hz	η%	COSΦ
YTDD180P16-450-233-11	11.0	233	450	380	21.3	31.1	82.7	0.95
YTDD180P16-380-276-11	11.0	276	380	380	21.1	36.8	83.4	0.95
YTDD180P16-320-328-11	11.0	328	320	380	20.8	43.7	84.6	0.95
YTDD180P16-270-389-11	11.0	389	270	380	20.5	51.9	85.9	0.95
YTDD180P16-230-457-11	11.0	457	230	380	20.3	60.9	86.7	0.95
YTDD180P8-195-539-11	11.0	539	195	380	20.0	35.9	87.8	0.95
YTDD180P8-170-618-11	11.0	618	170	380	19.7	41.2	89.2	0.95
YTDD180P8-150-700-11	11.0	700	150	380	19.5	46.7	90.4	0.95
YTDD180P8-130-808-11	11.0	808	130	380	19.3	53.9	91.2	0.95
YTDD180P8-100-1051-11	11.0	1051	100	380	19.1	70.1	92.1	0.95
YTDD180P16-450-318-15	15.0	318	450	380	28.5	42.4	84.1	0.95
YTDD180P16-380-377-15	15.0	377	380	380	28.3	50.3	84.8	0.95
YTDD180P16-320-448-15	15.0	448	320	380	27.9	59.7	86.0	0.95
YTDD180P16-270-531-15	15.0	531	270	380	27.5	70.8	87.3	0.95
YTDD180P8-230-623-15	15.0	623	230	380	27.2	41.5	88.1	0.95
YTDD180P8-195-735-15	15.0	735	195	380	26.9	49.0	89.2	0.95
YTDD180P8-170-843-15	15.0	843	170	380	26.5	56.2	90.6	0.95
YTDD180P8-150-955-15	15.0	955	150	380	26.1	63.7	91.8	0.95
YTDD180P8-130-1102-15	15.0	1102	130	380	25.9	73.5	92.6	0.95
YTDD180P8-100-1433-15	15.0	1433	100	380	25.7	95.5	93.5	0.95
YTDD180P16-450-467-22	22.0	467	450	380	41.1	62.3	85.6	0.95
YTDD180P16-380-553-22	22.0	553	380	380	40.8	73.7	86.3	0.95
YTDD180P16-320-657-22	22.0	657	320	380	40.2	87.6	87.5	0.95
YTDD180P8-270-778-22	22.0	778	270	380	39.6	51.9	88.8	0.95
YTDD180P8-230-913-22	22.0	913	230	380	39.3	60.9	89.6	0.95
YTDD180P8-195-1077-22	22.0	1077	195	380	38.8	71.8	90.7	0.95
YTDD180P8-170-1236-22	22.0	1236	170	380	38.2	82.4	92.1	0.95
YTDD180P8-150-1401-22	22.0	1401	150	380	37.7	93.4	93.3	0.95
YTDD180P8-130-1616-22	22.0	1616	130	380	37.4	107.7	94.1	0.95

### YTDD180

#### 安装及外形尺寸 Mounting and Overall Dimensions



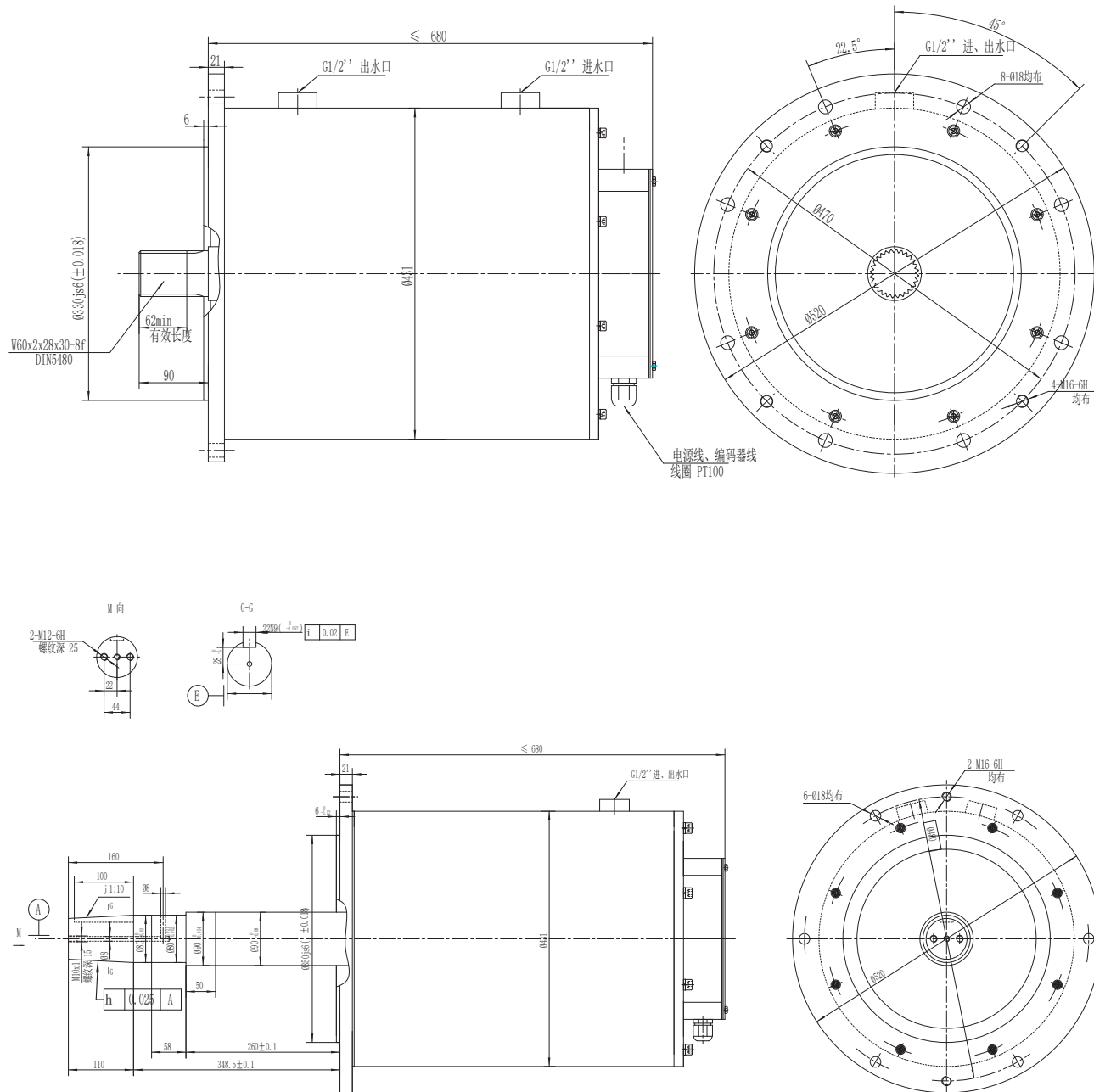
### YTDD225

#### 技术数据 Technical Specifications

电机型号 Motor Type	额定功率	额定转速	额定转矩	额定电压	额定电流	额定频率	效率	功率因数
	Rated Power	Rated Speed	Rated Torque	Rated voltage	Rated Current	Rated Frequency	Efficiency	Power Factor
	kW	rpm	N·m	V	A	Hz	$\eta\%$	COS $\Phi$
YTDD225P32-1500-70-11	11.0	70	1500	380	21.3	18.7	82.7	0.95
YTDD225P32-1275-82-11	11.0	82	1275	380	20.9	21.9	84.3	0.95
YTDD225P32-1080-97-11	11.0	97	1080	380	20.5	25.9	85.9	0.95
YTDD225P32-920-114-11	11.0	114	920	380	20.4	30.4	86.4	0.95
YTDD225P32-780-135-11	11.0	135	780	380	20.3	36.0	86.8	0.95
YTDD225P32-660-159-11	11.0	159	660	380	20.1	42.4	87.7	0.95
YTDD225P32-560-188-11	11.0	188	560	380	20.0	50.1	88.0	0.95
YTDD225P32-480-219-11	11.0	219	480	380	19.7	58.4	89.1	0.95
YTDD225P16-400-263-11	11.0	263	400	380	19.7	35.1	89.4	0.95
YTDD225P32-1500-96-15	15.0	96	1500	380	28.8	25.6	83.3	0.95
YTDD225P32-1275-112-15	15.0	112	1275	380	28.3	29.9	84.9	0.95
YTDD225P32-1080-133-15	15.0	133	1080	380	27.7	35.5	86.5	0.95
YTDD225P32-920-156-15	15.0	156	920	380	27.6	41.6	87.0	0.95
YTDD225P32-780-184-15	15.0	184	780	380	27.4	49.1	87.4	0.95
YTDD225P16-660-217-15	15.0	217	660	380	27.2	28.9	88.3	0.95
YTDD225P16-560-256-15	15.0	256	560	380	27.1	34.1	88.6	0.95
YTDD225P16-480-298-15	15.0	298	480	380	26.7	39.7	89.7	0.95
YTDD225P16-400-358-15	15.0	358	400	380	26.7	47.7	90.0	0.95
YTDD225P16-1500-140-22	22.0	140	1500	380	41.8	18.7	84.2	0.95
YTDD225P16-1275-165-22	22.0	165	1275	380	41.0	22.0	85.8	0.95
YTDD225P16-1080-195-22	22.0	195	1080	380	40.3	26.0	87.4	0.95
YTDD225P16-920-228-22	22.0	228	920	380	40.0	30.4	87.9	0.95
YTDD225P16-780-269-22	22.0	269	780	380	39.8	35.9	88.3	0.95
YTDD225P16-660-318-22	22.0	318	660	380	39.4	42.4	89.2	0.95
YTDD225P16-560-375-22	22.0	375	560	380	39.3	50.0	89.5	0.95
YTDD225P8-480-438-22	22.0	438	480	380	38.8	29.2	90.6	0.95
YTDD225P8-400-525-22	22.0	525	400	380	38.7	35.0	90.9	0.95
YTDD225P16-1500-191-30	30.0	191	1500	380	56.2	25.5	85.3	0.95
YTDD225P16-1275-225-30	30.0	225	1275	380	55.2	30.0	86.9	0.95
YTDD225P16-920-311-30	30.0	311	920	380	53.9	41.5	89.0	0.95
YTDD225P16-780-367-30	30.0	367	780	380	53.7	48.9	89.4	0.95
YTDD225P8-660-434-30	30.0	434	660	380	53.1	28.9	90.3	0.95
YTDD225P8-560-512-30	30.0	512	560	380	53.0	34.1	90.6	0.95
YTDD225P8-480-597-30	30.0	597	480	380	52.3	39.8	91.7	0.95
YTDD225P8-400-716-30	30.0	716	400	380	52.2	47.7	92.0	0.95

### YTDD225

#### 安装及外形尺寸 Mounting and Overall Dimensions



### YTDD280

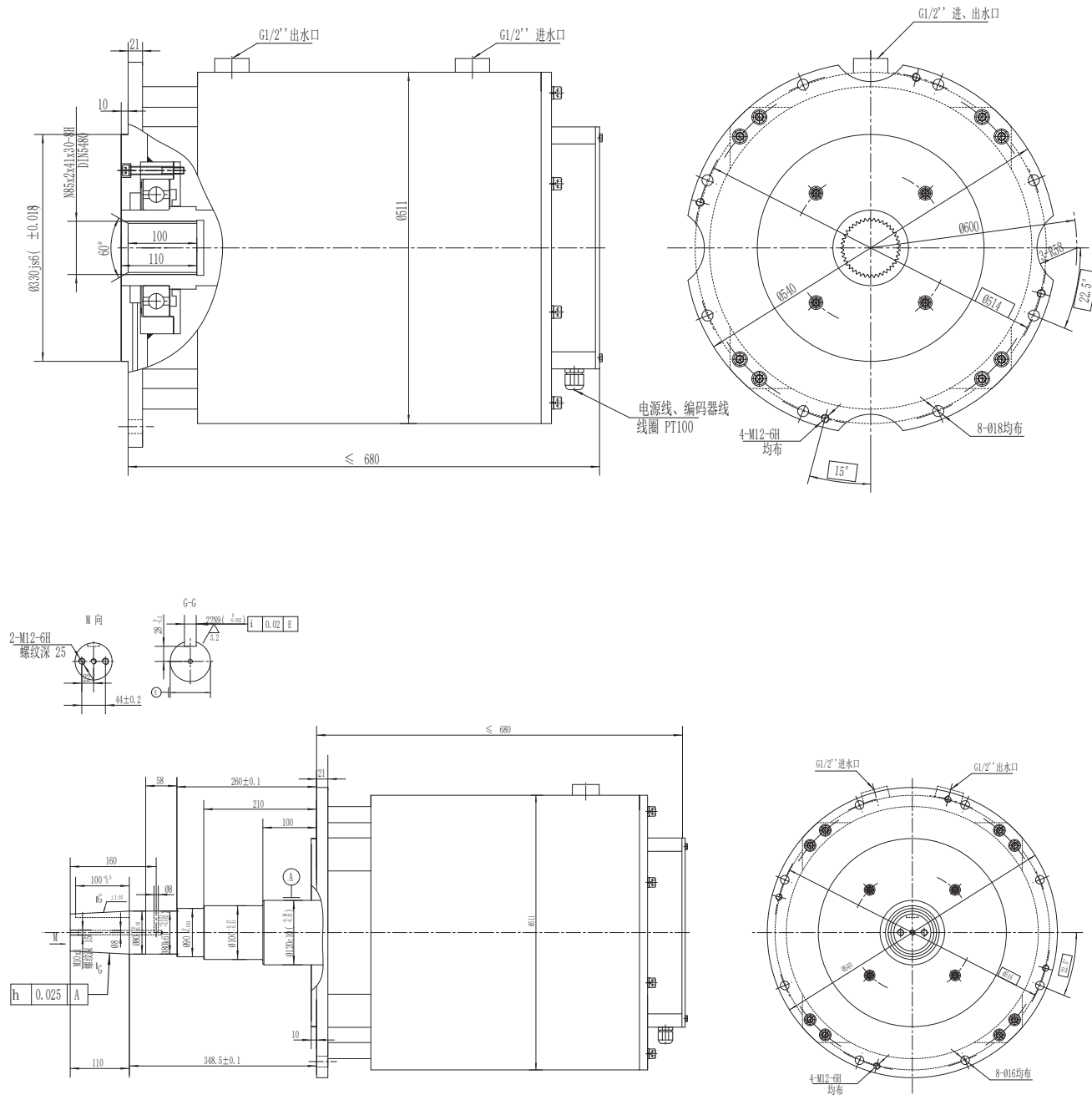
#### 技术数据 Technical Specifications

电机型号 Motor Type	额定功率	额定转速	额定转矩	额定电压	额定电流	额定频率	效率	功率因数
	Rated Power	Rated Speed	Rated Torque	Rated voltage	Rated Current	Rated Frequency	Efficiency	Power Factor
	kW	rpm	N·m	V	A	Hz	$\eta\%$	COS $\Phi$
YTDD280P32-2500-84-22	22.0	84	2500	380	42.7	22.4	82.4	0.95
YTDD280P32-2100-100-22	22.0	100	2100	380	40.7	26.7	86.4	0.95
YTDD280P32-1800-117-22	22.0	117	1800	380	40.3	31.2	87.4	0.95
YTDD280P32-1550-136-22	22.0	136	1550	380	39.4	36.3	89.4	0.95
YTDD280P32-1300-162-22	22.0	162	1300	380	38.1	43.2	92.4	0.95
YTDD280P32-1100-191-22	22.0	191	1100	380	37.7	50.9	93.4	0.95
YTDD280P32-2500-115-30	30.0	115	2500	380	57.7	30.7	83.1	0.95
YTDD280P32-2100-136-30	30.0	136	2100	380	55.1	36.3	87.1	0.95
YTDD280P32-1800-159-30	30.0	159	1800	380	54.5	42.4	88.1	0.95
YTDD280P32-1550-185-30	30.0	185	1550	380	53.3	49.3	90.1	0.95
YTDD280P32-1300-220-30	30.0	220	1300	380	51.5	58.7	93.1	0.95
YTDD280P16-1100-260-30	30.0	260	1100	380	51.0	34.7	94.1	0.95
YTDD280P32-2500-141-37	37.0	141	2500	380	70.4	37.6	84.0	0.95
YTDD280P32-2100-168-37	37.0	168	2100	380	67.2	44.8	88.0	0.95
YTDD280P32-1800-196-37	37.0	196	1800	380	66.5	52.3	89.0	0.95
YTDD280P16-1550-228-37	37.0	228	1550	380	65.0	30.4	91.0	0.95
YTDD280P16-1300-272-37	37.0	272	1300	380	63.0	36.3	94.0	0.95
YTDD280P16-1100-321-37	37.0	321	1100	380	62.3	42.8	95.0	0.95
YTDD280P32-2500-172-45	45.0	172	2500	380	84.8	45.9	84.9	0.95
YTDD280P32-2100-205-45	45.0	205	2100	380	81.0	54.7	88.9	0.95
YTDD280P16-1800-239-45	45.0	239	1800	380	80.1	31.9	89.9	0.95
YTDD280P16-1550-277-45	45.0	277	1550	380	78.3	36.9	91.9	0.95
YTDD280P16-1300-331-45	45.0	331	1300	380	75.8	44.1	94.9	0.95
YTDD280P16-1100-391-45	45.0	391	1100	380	75.0	52.1	95.9	0.95



### YTDD280

#### 安装及外形尺寸 Mounting and Overall Dimensins



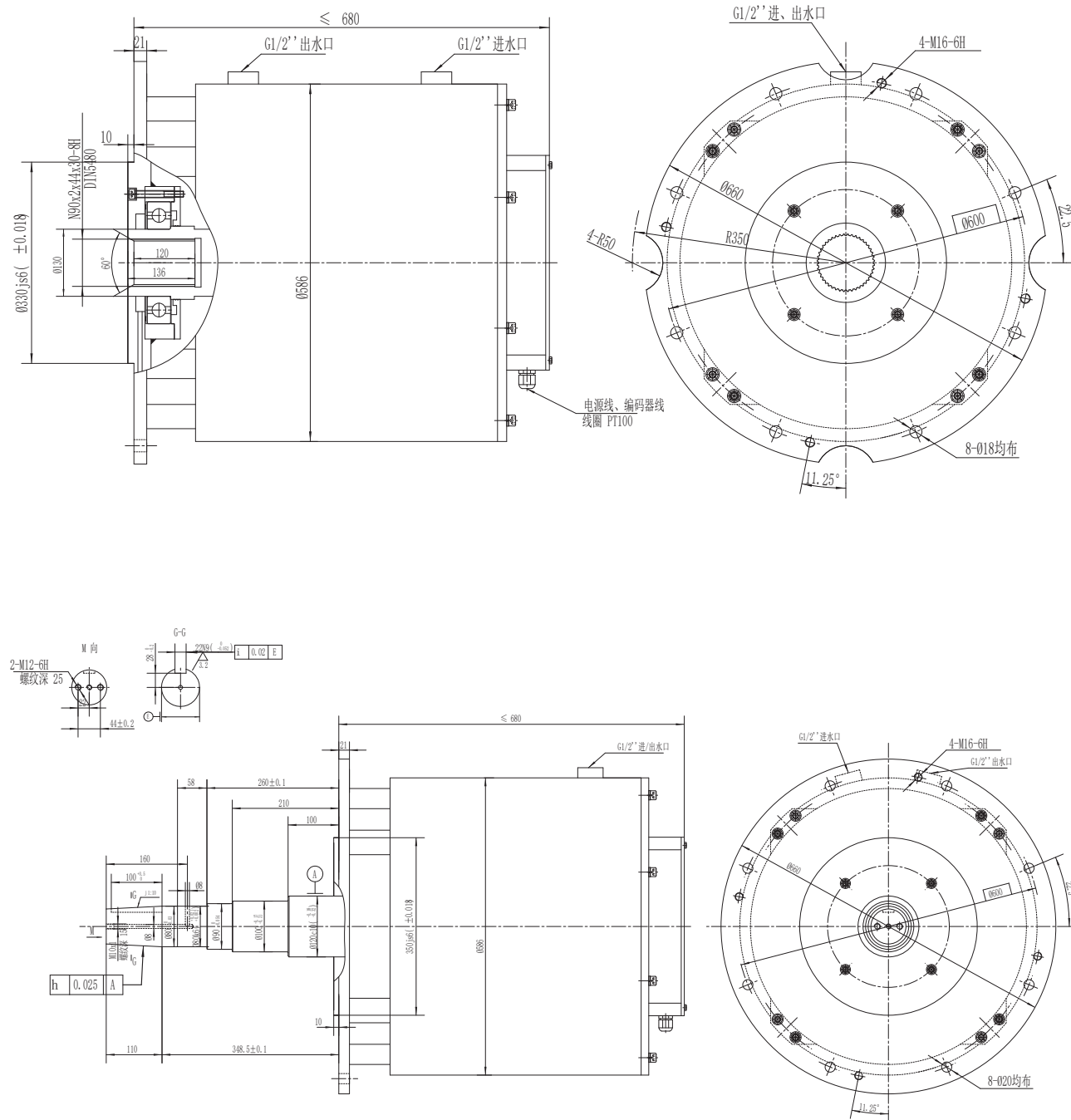
### YTDD315

#### 技术数据 Technical Specifications

电机型号 Motor Type	额定功率	额定转速	额定转矩	额定电压	额定电流	额定频率	效率	功率因数
	Rated Power	Rated Speed	Rated Torque	Rated voltage	Rated Current	Rated Frequency	Efficiency	Power Factor
	kW	rpm	N·m	V	A	Hz	η%	COSφ
YTDD315P64-4000-35-15	15.0	35	4000	380	29.8	18.7	80.5	0.95
YTDD315P64-3400-41-15	15.0	41	3400	380	28.4	21.9	84.5	0.95
YTDD315P64-2900-49-15	15.0	49	2900	380	28.1	26.1	85.5	0.95
YTDD315P64-2500-58-15	15.0	58	2500	380	27.4	30.9	87.5	0.95
YTDD315P64-2100-68-15	15.0	68	2100	380	26.5	36.3	90.5	0.95
YTDD315P64-1800-79-15	15.0	79	1800	380	26.2	42.1	91.5	0.95
YTDD315P48-4000-53-22	22.0	53	4000	380	43.1	21.2	81.7	0.95
YTDD315P48-3400-62-22	22.0	62	3400	380	41.1	24.8	85.7	0.95
YTDD315P48-2900-72-22	22.0	72	2900	380	40.6	28.8	86.7	0.95
YTDD315P48-2500-84-22	22.0	84	2500	380	39.7	33.6	88.7	0.95
YTDD315P48-2100-100-22	22.0	100	2100	380	38.4	40.0	91.7	0.95
YTDD315P48-1800-117-22	22.0	117	1800	380	38.0	46.8	92.7	0.95
YTDD315P48-4000-72-30	30.0	72	4000	380	57.9	28.8	82.9	0.95
YTDD315P48-3400-84-30	30.0	84	3400	380	55.2	33.6	86.9	0.95
YTDD315P48-2900-99-30	30.0	99	2900	380	54.6	39.6	87.9	0.95
YTDD315P48-2500-115-30	30.0	115	2500	380	53.4	46.0	89.9	0.95
YTDD315P32-2100-136-30	30.0	136	2100	380	51.6	36.3	92.9	0.95
YTDD315P32-1800-159-30	30.0	159	1800	380	51.1	42.4	93.9	0.95
YTDD315P48-4000-88-37	37.0	88	4000	380	71.0	35.2	83.4	0.95
YTDD315P48-3400-104-37	37.0	104	3400	380	67.7	41.6	87.4	0.95
YTDD315P48-2900-122-37	37.0	122	2900	380	66.9	48.8	88.4	0.95
YTDD315P32-2500-141-37	37.0	141	2500	380	65.5	37.6	90.4	0.95
YTDD315P32-2100-168-37	37.0	168	2100	380	63.4	44.8	93.4	0.95
YTDD315P32-1800-196-37	37.0	196	1800	380	62.7	52.3	94.4	0.95
YTDD315P32-4000-107-45	45.0	107	4000	380	85.0	28.5	84.7	0.95
YTDD315P32-3400-126-45	45.0	126	3400	380	81.1	33.6	88.7	0.95
YTDD315P32-2900-148-45	45.0	148	2900	380	80.2	39.5	89.7	0.95
YTDD315P32-2500-172-45	45.0	172	2500	380	78.5	45.9	91.7	0.95
YTDD315P32-2100-205-45	45.0	205	2100	380	76.0	54.7	94.7	0.95
YTDD315P32-1800-239-45	45.0	239	1800	380	75.2	63.7	95.7	0.95

### YTDD315

#### 安装及外形尺寸 Mounting and Overall Dimensions



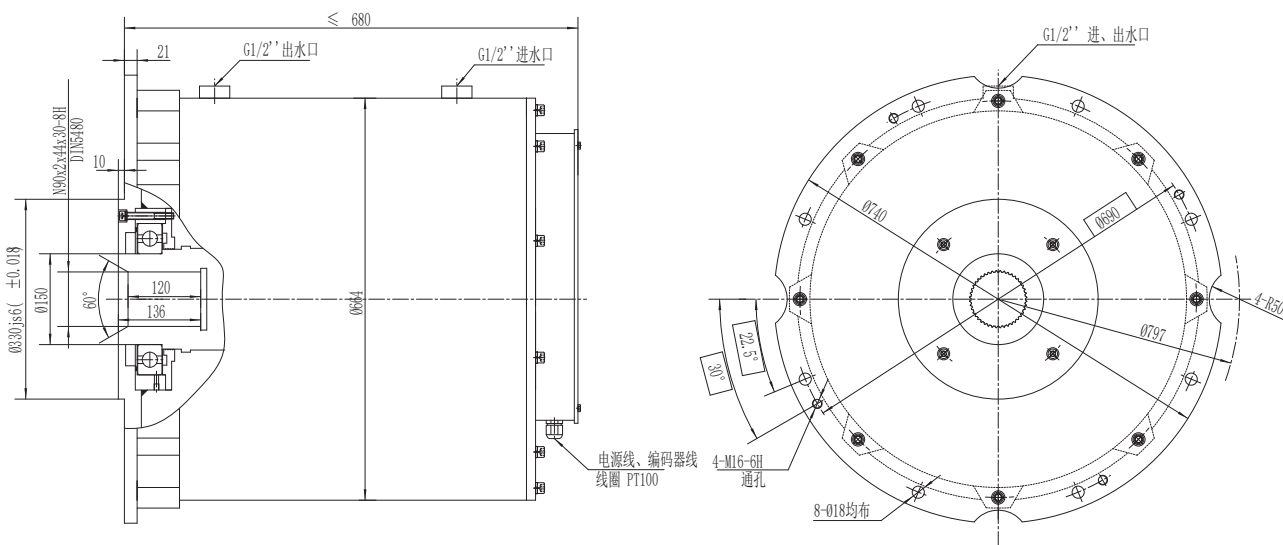
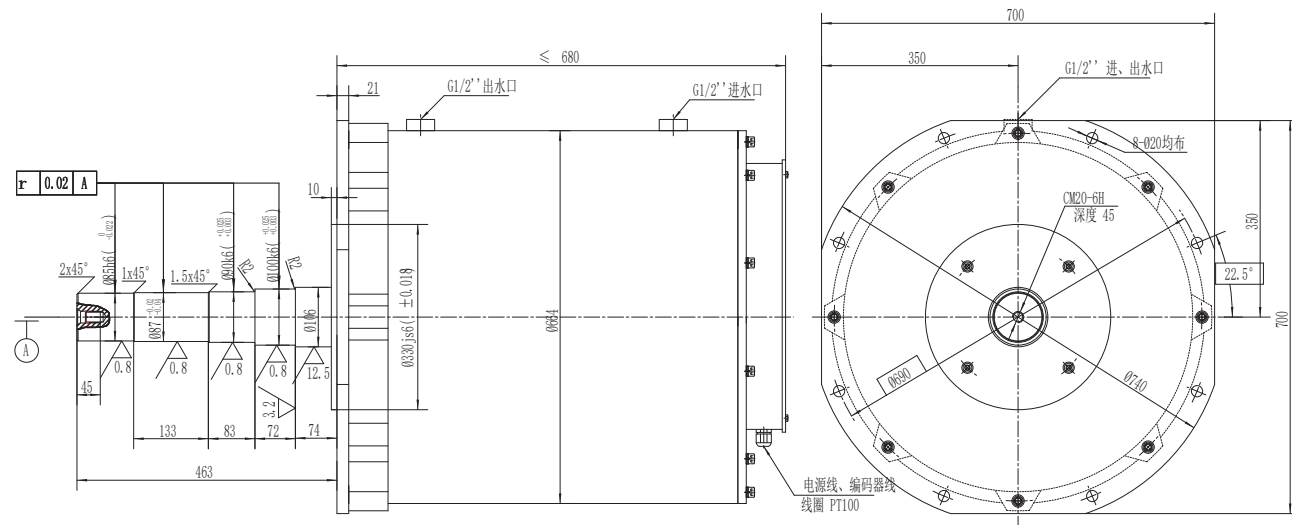
### YTDD355

#### 技术数据 Technical Specifications

电机型号 Motor Type	额定功率	额定转速	额定转矩	额定电压	额定电流	额定频率	效率	功率因数
	Rated Power	Rated Speed	Rated Torque	Rated voltage	Rated Current	Rated Frequency	Efficiency	Power Factor
	kW	rpm	N·m	V	A	Hz	η%	COSΦ
YTDD355P64-6000-35-22	22.0	35	6000	380	44.0	18.7	80.0	0.95
YTDD355P64-5100-41-22	22.0	41	5100	380	41.9	21.9	84.0	0.95
YTDD355P64-4300-49-22	22.0	49	4300	380	41.4	26.1	85.0	0.95
YTDD355P64-3650-58-22	22.0	58	3650	380	40.4	30.9	87.0	0.95
YTDD355P64-3100-68-22	22.0	68	3100	380	39.1	36.3	90.0	0.95
YTDD355P64-2650-79-22	22.0	79	2650	380	38.7	42.1	91.0	0.95
YTDD355P64-2200-96-22	22.0	96	2200	380	38.2	51.2	92.0	0.95
YTDD355P64-6000-48-30	30.0	48	6000	380	59.1	25.6	81.2	0.95
YTDD355P64-5100-56-30	30.0	56	5100	380	56.3	29.9	85.2	0.95
YTDD355P64-4300-67-30	30.0	67	4300	380	55.7	35.7	86.2	0.95
YTDD355P64-3650-78-30	30.0	78	3650	380	54.4	41.6	88.2	0.95
YTDD355P64-3100-92-30	30.0	92	3100	380	52.6	49.1	91.2	0.95
YTDD355P32-2650-108-30	30.0	108	2650	380	52.0	28.8	92.2	0.95
YTDD355P32-2200-130-30	30.0	130	2200	380	51.5	34.7	93.2	0.95
YTDD355P64-6000-59-37	37.0	59	6000	380	71.8	31.5	82.4	0.95
YTDD355P64-5100-69-37	37.0	69	5100	380	68.5	36.8	86.4	0.95
YTDD355P64-4300-82-37	37.0	82	4300	380	67.7	43.7	87.4	0.95
YTDD355P64-3650-97-37	37.0	97	3650	380	66.2	51.7	89.4	0.95
YTDD355P32-3100-114-37	37.0	114	3100	380	64.0	30.4	92.4	0.95
YTDD355P32-2650-133-37	37.0	133	2650	380	63.4	35.5	93.4	0.95
YTDD355P32-2200-161-37	37.0	161	2200	380	62.7	42.9	94.4	0.95
YTDD355P32-6000-72-45	45.0	72	6000	380	86.0	38.4	83.7	0.95
YTDD355P32-5100-84-45	45.0	84	5100	380	82.1	44.8	87.7	0.95
YTDD355P32-4300-100-45	45.0	100	4300	380	81.1	53.3	88.7	0.95
YTDD355P32-3650-118-45	45.0	118	3650	380	79.4	31.5	90.7	0.95
YTDD355P32-3100-139-45	45.0	139	3100	380	76.8	37.1	93.7	0.95
YTDD355P32-2650-162-45	45.0	162	2650	380	76.0	43.2	94.7	0.95
YTDD355P32-2200-195-45	45.0	195	2200	380	75.2	52.0	95.7	0.95

## YTDD355

### 安装及外形尺寸 Mounting and Overall Dimensions



## YTDD永磁伺服直驱拉丝机专用电机扭矩、转速的计算

### Calculation of torque and speed of special motor for YTDD PM servo motor for drawing machine

新机设备系统, 客户参数提供:

- 1、材质及其抗拉强度
- 2、涉及到的所有拉拔品种的模链
- 3、钢丝最后出线速度
- 4、滚筒的直径

The customer shall provide the followings in using YTDD PM servo motor,

1. Material and its tensile strength
2. The mold chain of all the pulled varieties involved
3. The final speed of the steel wire
4. The diameter of the drum

## YTDD系列永磁伺服直驱拉丝机专用电机注意事项

### YTDD motor Precaution

本技术条件详细的说明了YTDD 系列永磁伺服直驱拉丝机专用电机的安装、集成及机械结构。为用户提供了在具体应用场合中如何集成和运用YTDD系列永磁伺服直驱拉丝机专用电机所需要的信息。

注:YTDD系列永磁伺服直驱拉丝机专用电机的所有责任仅限于保证单独拉丝机的功能, 以及限制在双方同意的YTDD系列永磁伺服直驱拉丝机专用电机的销售合同条款所规定的修理和替换, 当用户购买拉丝机时已经确认为接受了这些条款。

虽然永磁伺服直驱拉丝机专用电机在一个复杂的系统中, 是个很重要的部件, 但是亨达对这个系统并不是完全清楚了解, 因此对系统不承担责任。制作和运行这个系统的客户、用户或其他人对这整个系统的所有的安全性以及经济等其他方面承担相应的责任。

This technical condition explains in detail about the YTDD motor installation, integration and mechanical structure. It provides users with the information they need for the integration and use of special YTDD motors application.



## YTDD系列永磁伺服直驱拉丝机专用电机类型 YTDD PM special motor for wiring machine

YTDD系列永磁伺服直驱拉丝机专用电机是目前最大转矩密度的技术解决方案,是为高性能的运动控制而设计的。

所有的电机都是三相永磁同步伺服电机,转子采用了高磁能积的Nd2Fe14B 稀土永磁材料。

所有的电机具有H级热绝缘等级,电机中还安装有PT100温度传感器用来监控电机温度。

所有的电机设计成流体冷却,也可以是传导/对流冷却。对于弱磁运行,需要流体冷却措施。

所有电机的定子绕组都是经真空浸漆的三相绕组,可提供最好的机械特性、绝缘和散热性能。

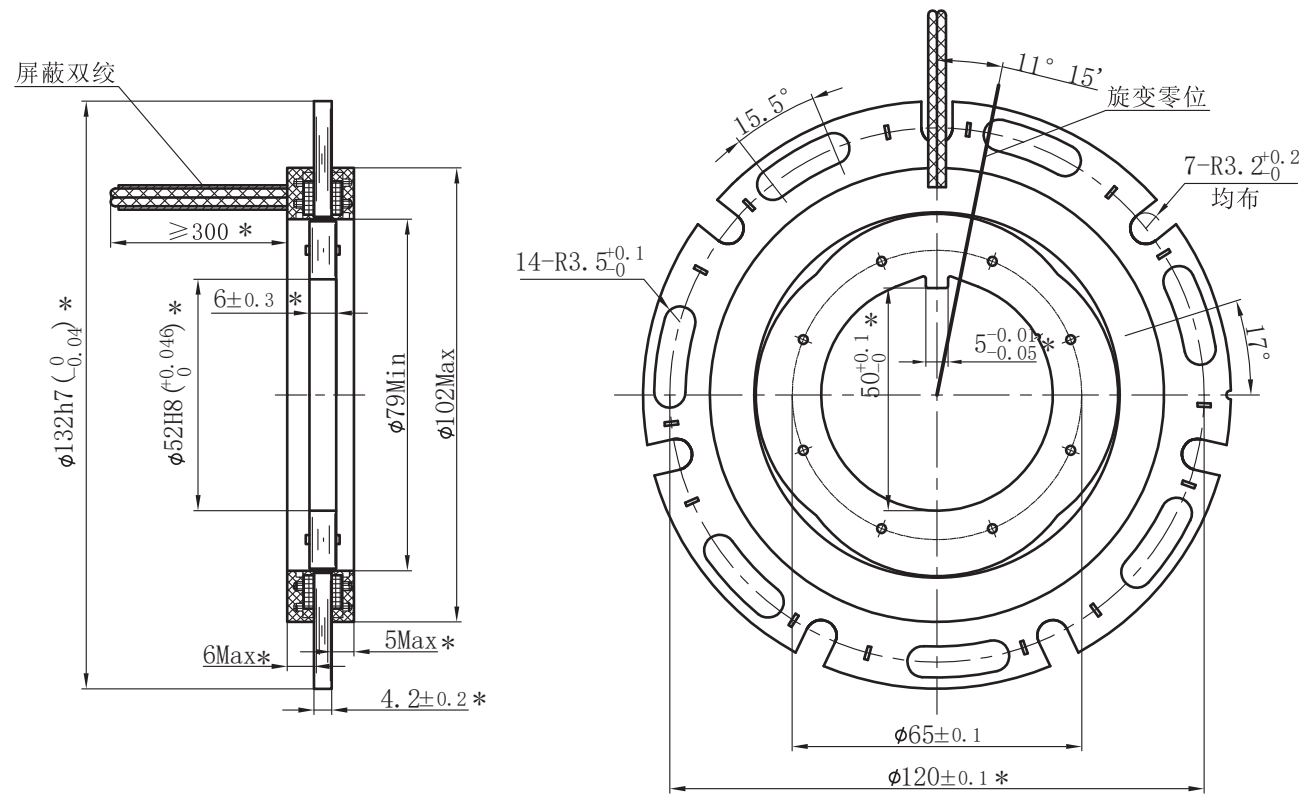
所有的电机提供的电源和传感器线长度为1000mm,用户可提出不同的长度要求。对于用户的结构,还可以提供电源和信号连接器。

YTDD系列永磁伺服直驱拉丝机专用电机带有旋变位置传感器。

The YTDD series special motor is the technical solution for the maximum torque density at present, and is designed for high-performance motion control.

All motors are three-phase permanent magnet synchronous servo motors, and the rotor uses Nd2Fe14B rare earth permanent magnet material with high magnetic energy product. All motors have a Class H insulation and a PT100 temperature sensor is installed in the motor to monitor the motor temperature. All motors are designed for fluid cooling, which can also be conductive or convective cooling. For weak magnetics operation, fluid cooling measures are required. The stator windings of all motors are vacuum-impregnated that provide the best mechanical properties, insulation and heat dissipation. All motors are supplied with a length of 1000mm of power and sensor lines, which can be requested by the user in different lengths. For user structures, power and signal connectors are also available.

YTDD series special motor is also applied with resolver position sensor.



## 应用领域介绍 Application

拉丝机是在工业应用中使用很广泛的机械设备,广泛应用于机械制造、五金加工、石油化工、电线电缆等行业。

### 1、应用于金属行业

金属拉丝机,属于标准件等金属制品生产预加工设备,目的是为了把由钢材生产厂家生产运输至标准件等金属制品生产企业的线材或棒材经过拉丝机的拉拔处理,使线材或棒材的直驱、圆度、内部金相结构、表面光洁度和矫直度都达到标准件等金属制品生产需要的原料处理要求。因此拉丝机对线材或棒材的预处理质量直接关系到标准件、等金属制品生产企业的产品质量;拉丝机属于金属制品设备行业金属线材拉丝机,拉丝机广泛应用于钢丝、制绳丝、预应力钢丝、标准件等金属制品的生产和预加工处理。

2、电线电缆行业铜线加工拉丝机是电线电缆行业主要加工设备之一,主要是将铜线加工成各种规格细线,一般由放线、水冷、收线及排线等部分组成,其中电气传动部分主要由放线电机和收线电机及排线电机实现。随着节能环保要求的不断推广,永磁同步伺服直驱电机正日益被用于拉丝机设备。

3、线材或棒材的拉拔处理金属制品生产企业的线材或棒材经过拉丝机的拉拔处理,使线材或棒材的直驱、圆度、内部金相结构、表面光洁度和矫直度都达到标准件等金属制品生产需要的原料处理要求。因此拉丝机对线材或棒材的预处理质量直接关系到标准件、等金属制品生产企业的产品质量。拉丝机广泛应用于钢丝、制绳丝、预应力钢丝、标准件等金属制品的生产和预加工处理。

### 4、用于焊丝的生产

焊丝生产需要先把原料加工成圆柱形铸锭,铸锭的直驱一般为7至12Cm,而焊丝细的只有1mm,所以铸锭经过挤压和反复拉丝,最终成焊丝成品。在整个加工过程中,需要配备挤压机、收线机、拉丝机、校直机。

Wire drawing machine is widely used mechanical equipment, such as manufacturing, hardware processing, petrochemical, wire and cable and other industries.

Metal drawing machine belongs to the standard parts and other metal products production pre-processing equipment, the purpose is to produce and transport from steel manufacturers to standard parts and other metal products production enterprises of wire rods or bars through the drawing of the wire drawing machine, so that the wire or bar direct drive, roundness, internal metallographic structure, surface finish and straightening are up to the standard parts and other metal products production needs of raw material processing requirements. Therefore, the pretreatment quality of wire rods or bars of the wire drawing machine is directly related to the quality of standard parts and other metal products production enterprises; Wire drawing machine belongs to the metal products equipment industry metal wire drawing machine, wire drawing machine is widely used in steel wire, rope wire, prestressed steel wire, standard parts and other metal products production and pre-processing processing.

Cable industry copper wire processing drawing machine is one of the main processing equipment in the wire and cable industry, mainly the copper wire is processed into a variety of specifications of fine wire, generally composed of line release, water cooling, wire collection and wiring and other parts, of which the electrical transmission part is mainly by the discharge motor and the wire receiving motor and the wire motor to achieve. With the continuous promotion of energy-saving and environmental protection requirements, permanent magnet synchronous servo direct drive motors are increasingly being used in wire drawing machine equipment.

The wire or bar is pulled by the wire or bar of the metal products production enterprise through the drawing process of the wire drawing machine, so that the direct drive, roundness, internal metallographic structure, surface finish and straightening of the wire or bar meet the raw material processing requirements required for the production of metal products such as standard parts. Therefore, the pretreatment quality of wire or bar drawing machine is directly related to the product quality of standard parts and other metal products manufacturers. Wire drawing machine is widely used in the production and pre-processing of steel wire, rope wire, prestressed steel wire, standard parts and other metal products.

### Welding wire production

The production of welding wire needs to first process the raw material into cylindrical ingots, the direct drive of the ingot is generally 7 to 12Cm, and the welding wire is only 1mm, so the ingot is extruded and repeatedly brushed, finally becomes a finished wire. In the whole processing process, it is necessary to be equipped with extruders, wire retractors, wire drawing machines, straightening machines.