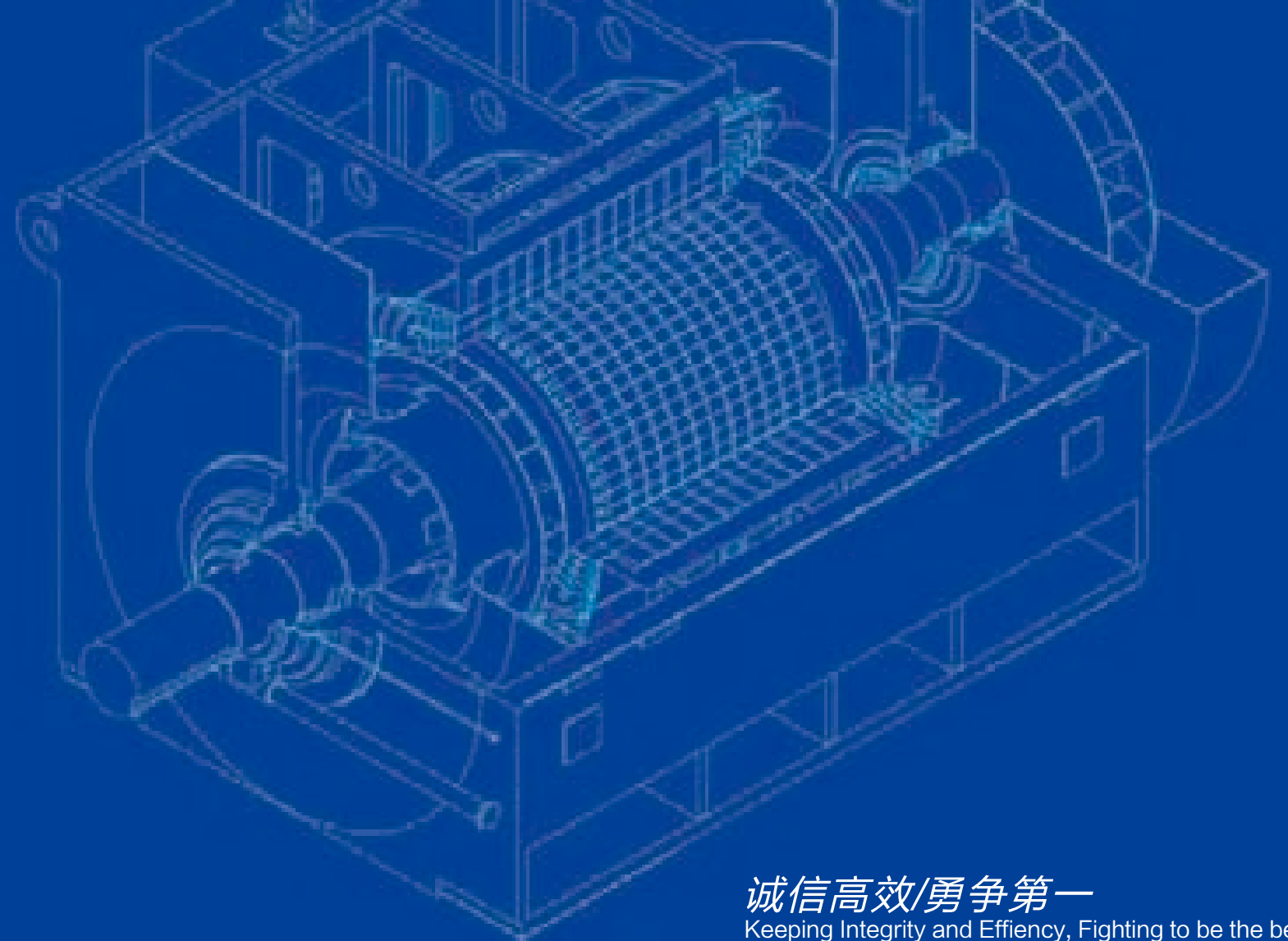




诚信高效/勇争第一

Keeping Integrity and Efficiency, Fighting to be the best

>> *Since 1936*



地址：湖南省湘潭市下摄司街 302 号
ADD: No. St. Xiashesi, Xiangtan City, Hunan, P.R.C

YX YXKS YXKK 10kV系列
高效高压三相异步电动机
YX/YXKS/YXKK(10kV) HIGH-EFFICIENCY
HV3-PHASE ASYNCHRONOUS MOTOR

节能产品 惠民工程



湘潭电机 动力无限▶

XEMC, Infinite Force

公司愿景

行业翘楚 世界新锐（前瞻力）

公司目标

领军中国装备制造业（方向力）

公司信念

用心经营 用爱服务（创造力）

公司宗旨

兴业报国 共赢共享（支撑力）

核心价值观

求发展为要 谋众福为责（核心力）

公司精神

严谨创新 感恩自强（原动力）

经营理念

机电一体化 竞争差异化 经营国际化（发展力）

公司风格

诚信为本 行业惟精 敏行讷言 和谐持正（承载力）

用人思想

尚贤使能（凝聚力）

Company Vision

An outstanding industrial leader A new prominent enterprise in the world (Force of foresight)

Company Objective

Leading the way in the electrical equipment manufacturing industry of China (Force of Positioning)

Company Belief

Operate with concentrated efforts Service with love (Creative force)

Company Aim

Serve the country by rejuvenating the industry Win-win and sharing (Support force)

Core Value

It is Company main idea to seek development, and Company Responsibility to work for the well-being of the people (Core force)

Company Spirit

Be rigorous, creative, thankful and self-improving (Motive force)

Business Philosophy

Mechanical & Electrical Integration, diversified competition, management internationalization (Force of development)

Company Style

Openness basing on sincerity; Being professional, harmonious and upright (Carrying force)

Employment Principle

To employ able people (Cohesive force)

Corporate Culture

Keeping integrity and efficiency, striving to be the best;
Manufacturing competitive products to become the first choice in the industry;
Be pioneering and innovative;
Seek for excellence.

Marketing Philosophy

Establish a responsive service concept;
Committed to become a service provider and operator of system solutions for users.

电机文化：

诚信高效、 勇争第一， 精品制造、 行业首选， 开拓创新、 追求卓越。

营销理念：

树立有求必应的服务理念，
做致力于为用户提供系统解决方案的服务商和运营商。



共赢 共享

Win-Win Strategy
Information Sharing



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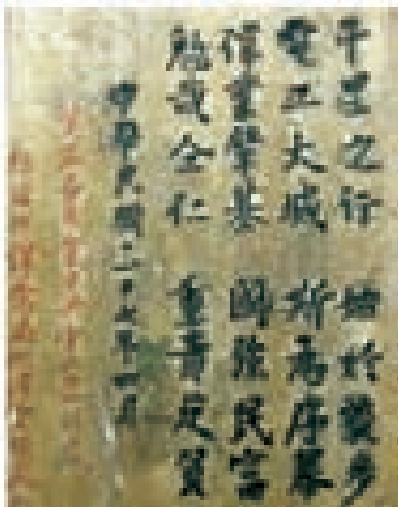
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企业简介 About Us



湘潭电机股份有限公司是由湘电集团有限公司联合北京地铁等6家企业于1999年共同发起设立，2002年7月在沪成功上市。公司依托湘潭电机七十多年来所形成的丰厚文化底蕴、强大的技术实力，以及良好的现代企业运作机制，不断创新发展，现已成为我国电机行业的大型骨干企业和国务院确立的国家重大技术装备国产化研制基地。先后研制开发了新产品1100多项，其中100多项填补国内空白，为我国重大装备国产化作出了突出贡献。

电机事业部成立于2004年，是湘潭电机股份有限公司下辖最大的成品事业部，集研制、开发、生产、销售交流电机、永磁直驱风力发电机等产品于一体，目前已形成以水电核电厂辅机电机制造技术、冶金变频电机制造技术、石化及矿山防爆电机制造技术、永磁风力发电机制造技术为核心的交流电机制造技术，产品广泛用于冶金、电站、风电、核电、建材、石化、造纸、水泥、水利等行业，产品远销全国各地和世界30多个国家、地区，并得到广大用户的高度评价。

“十二五”期间，电机事业部将按照“打造行业首选品牌”的战略目标，在提高与创新中求发展，以全新的姿态和国际化经营的视角，不断加快新技术、新产业的开发。在原有核心技术的基础上，着力打造高效节能电机、大功率风力发电机、余热发电、生物质发电等新技术和新兴产业，实现2012年达到60亿元、2015年100亿元的产业规模，推进企业科学跨越发展，以优质的产品、优良的服务回报社会。

Xiangtan Electric Manufacturing Co., Ltd. (XEMC) was jointly founded by Xiangtan Electric Manufacturing Group Co., Ltd. and other six enterprises such as Beijing Subway in 1999 and has been successfully listed in Shanghai Stock Exchange (SSE) since July 2007. Relying on profound cultural deposits, strong technical strength and good modern enterprise operation mechanism and continuous innovation and development for more than seventy years, XEMC has now become a large-scale key enterprise in the Chinese electric industry and a national research and production base for the localization of key technical equipment determined by the State Council. XEMC has developed more than 1100 new products, among which over 100 new products have filled the gaps in domestic market, and has made outstanding contributions to key equipment localization of China.

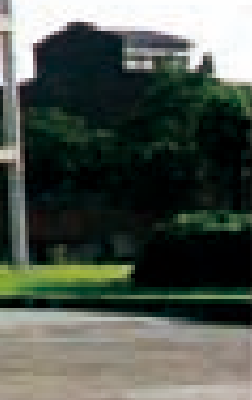
Motor Division, founded in 2004, is the largest finished product division owned by XEMC, integrating research, development, production and sales of AC motors, permanent-magnetic direct-driven wind turbine generators etc.. At present, XEMC has formed AC motor manufacturing technology with manufacturing technologies of auxiliary motors for thermal power stations and nuclear power stations, variable frequency motors for steel works, explosion-proof motors for petrochemical works and mining and permanent-magnetic wind turbine generators acted as the core. The products are widely used for metallurgy, power station, nuclear power, building material, petrochemicals, paper-making, cement, water conservancy etc. and are sold all over the country and to more than thirty countries and regions, which are highly praised by users.

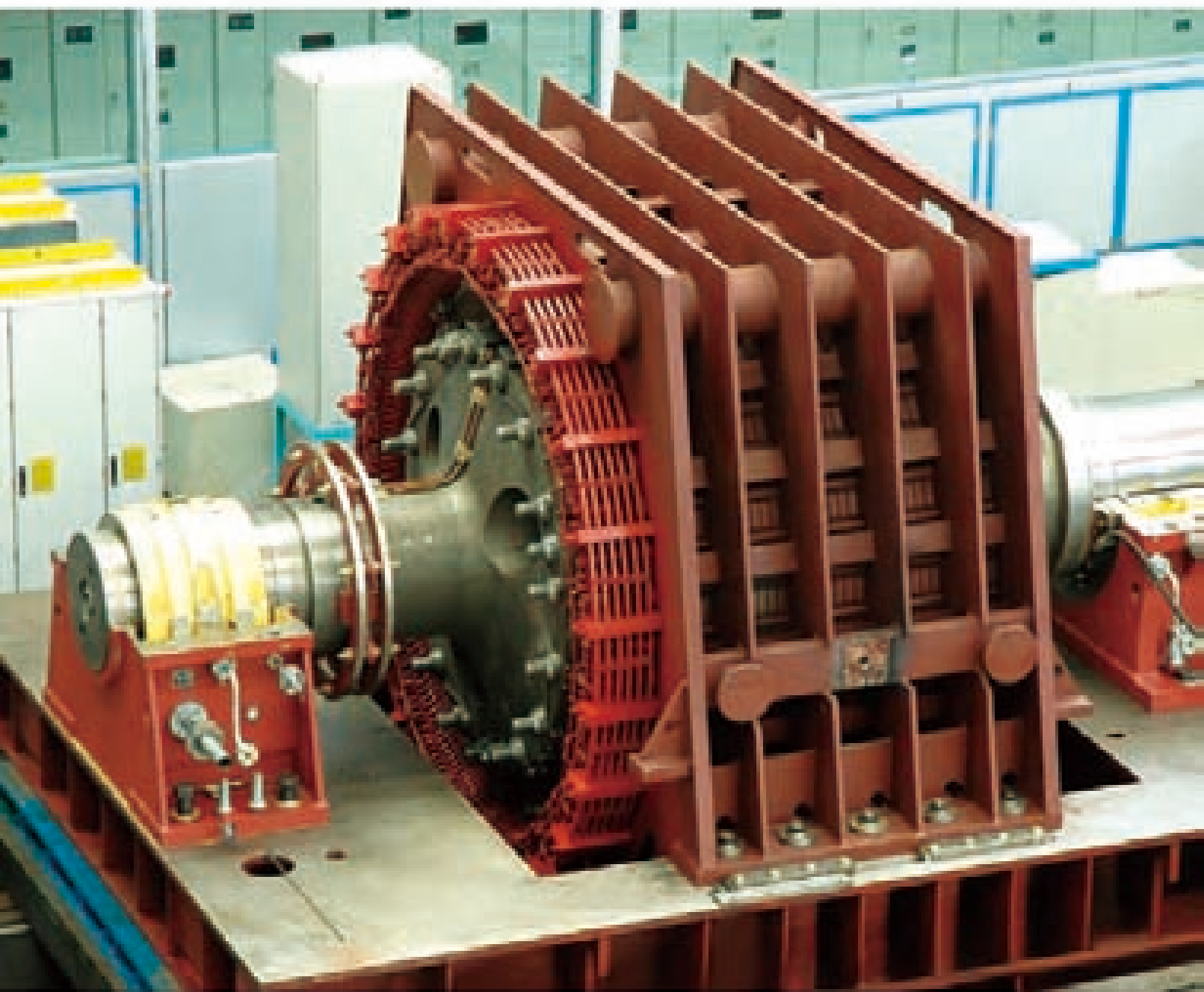
During the “Eleventh Five-Year” plan, XEMC Motor Division will seek development by improvement and innovation according to the strategical objective of “creating a preferred brand in the industry” and constantly speed up the development of new technologies and new products with a brand-new posture and a perspective of international operation. Based on existing core technologies, Motor Division will work hard to develop new technologies and create emerging industries such as high-efficiency energy-saving motors, high-power wind turbine generator sets, waste heat power generation, biomass power generation to realize industry scale of 6 billion RMB in 2012 and 10 billion RMB in 2015, promote scientific leapfrog progress and repay society with high-quality products and excellent service.





领导关怀 Leaders' care







先进的生产制造能力▶ State-of-the-art Manufacturing Capability

电机事业部拥有六个生产车间，生产作业面积133737平方米，风力发电机制造厂房已成为世界上最大的永磁直驱式风力发电机生产制造基地。具备交流电机年产1200万千瓦，永磁风力发电机年产2000台的生产能力，开发生产的精品电机达到行业先进水平。



XEMC Motor Division has six workshops, among which the wind turbine generator set workshop is the world's largest production base for permanent-magnetic direct-driven wind turbine generator set. With production and operation area of 133,737 square meters, its annual outputs of AC motors and permanent-magnetic wind turbine generator sets are 1.2 million kW and 2000 sets respectively. The high-quality electric machines developed and produced have reached leading level in the industry.



世界一流的电机制造设备 ▶ World-Class Electric Machine Manufacturing Equipment



从法国引进的线圈自动涨型机
Automatic coil expansion machine introduced from France



从瑞士引进的自动包带机
Automatic taping machine introduced from Swiss



XHZ2925-10定梁动柱式龙门加工中心
XHZZ2925-10 fixed-beam and moving-column gantry machining center CNC



HM60U卧式硬支承动平衡机
HM 60U horizontal hard bearing balancing machine



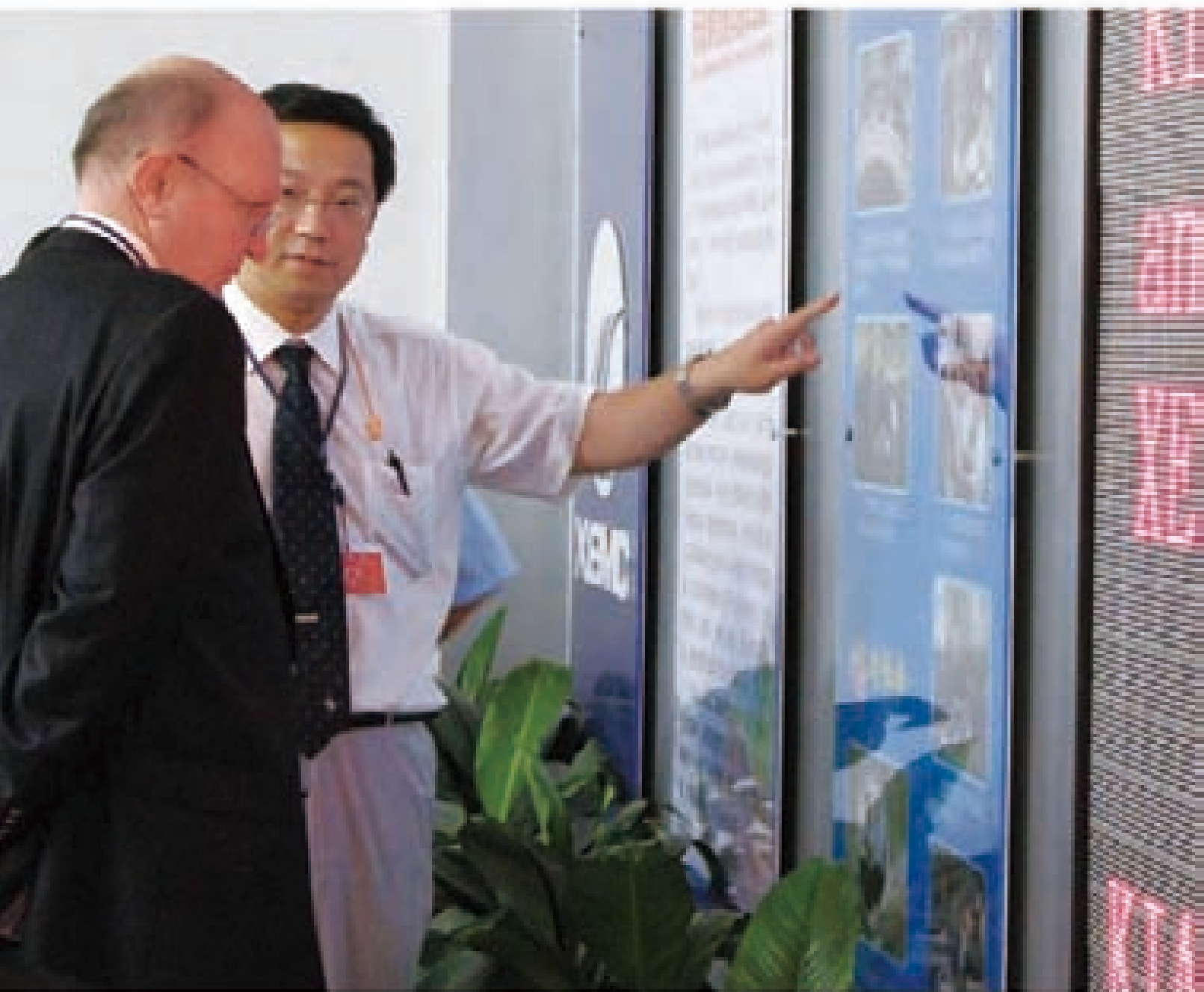
4000KN双点闭式冲压机自动生产线（德国）
Automatic production line for 4000kN dual-point closed punching machine (Germany)

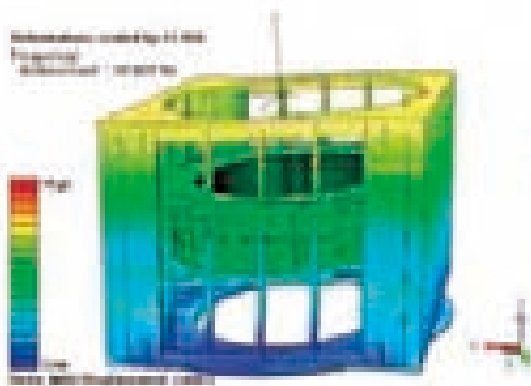


Φ6000真空压力浸漆设备
Φ6000 Vacuum pressure impregnation (VPI) equipment



一流的核心研发技术 ▶
Best-in-class core development technology





先后引进、消化美国西屋公司、GE、ABB、西门子、日立等公司的先进技术，通过再创新，在新产品、新技术、新工艺与世界著名公司的研发基本实现同步，被认定为国家企业技术中心和国家级高技术产业基地。事业部现有工程技术人员422人，其中高级工程师35人，高级技师20人；国家级专家2人，享受国家技术津贴5人，全国技能大师2人。拥有先进的信息化研发平台(CAD、PDM、CRM、ERP、MES等)和各类一流的分析、设计软件(AnSoft、Ansys、Starcd等)。相继开发成功了1000MW火电站大型辅机电机、变频调速电机、大型低速永磁同步电机、大型紧凑型电机、高效节能电机、防爆电机、贯流泵电机、风力发电机、核主泵电机、工业发电机等；已形成2MW、2.5MW、3MW、3.6MW、5MW等直驱型风电产品的系列化研制能力，并在工业发电机、环保低噪音电机、高功率密度电机、大型高速电机等产品研发上取得突破性成果。

Motor Division has introduced and digested advanced technologies from Westinghouse, GE, ABB, Siemens, Hitachi etc. and has been basically synchronized with world-famous companies in terms of new products, technology and process through re-innovation. It has been determined as national enterprise technology center and national high-tech industrial base. Motor Division has 422 engineering technicians, among which 35 are senior engineers, 20 senior technicians, 2 state-level experts, 5 experts enjoying special government allowance for technology and 2 state-level skill masters. It has advanced informatization R&D platforms (CAD, PDM, CRM, ERP, MES etc.) and best-in-class analysis and design software (AnSoft, Ansys, Starcd etc.), and has successfully developed 1000MW large-sized auxiliary motor for power station, variable-frequency and variable-speed motor, large-sized low-speed permanent magnet synchronous motor, large-sized compact motor, high-efficiency energy-saving motor, explosion-proof motor, tubular pump motor, wind turbine generator set, nuclear main pump motor, industrial electric generator etc.. The R&D and production capabilities for series of direct-driven wind power products such as 2MW, 2.5MW, 3MW, 3.6MW, 5MW has been obtained and significant breakthroughs have been made in the research and development of industrial electric generator, environment-friendly low-noise motor, high-power density motor, large-sized high speed motor etc..

国内首台 5 兆瓦永磁直驱海上风力发电机

Ceremony of China's first 5MW offshore permanent magnet direct wind generator off the

海上风力发电技术与检测国家重点实验室授

and board-awarding of offshore wind generation technology and testing State K

主办单位：湘潭电机股份有限公司

中国 · 湖南 · 湘潭

二〇一〇年十月二十一日

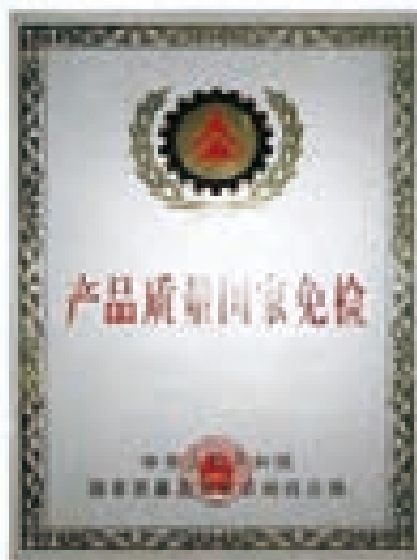


可靠的质量保障体系 ▶

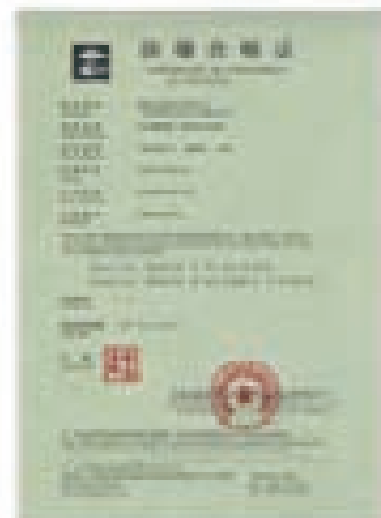
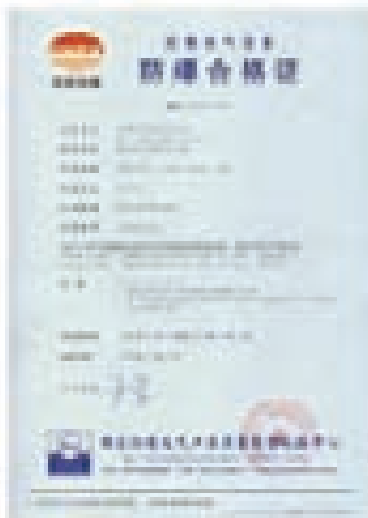
Reliable Quality Assurance System

执行国家ISO9001质量体系、ISO14001环境管理体系和OHSAS18001职业健康安全体系标准，拥有完备的专业试验及检测平台，具有模拟现场满负荷运行试验能力。先后被认定为“湖南省大中型机电产品质量监督检验中心”、“风力发电技术国家重点实验室”、“国家能源风力发电机研发（实验）中心”、国家唯一的“海上风力发电技术与检测国家重点实验室”、国家批准筹建的“国家风电设备质检中心”。已取得XE72、XE82、XE93、2MW、2.5MW、5MW永磁同步风力发电机的欧洲CE认证证书，是西门子、日立、ABB、阿尔斯通、荏原博泵、科孚德、达涅利、KSB、FLOWSEVER等公司的合格供方。

XEMC complies with ISO9001 Quality System, ISO14001 Environmental Management System and OHSAS18001 Occupational Health and Safety Management System and has well-established, professional test and inspection platforms, which can simulate on-site operation at full load. XEMC has been determined as “Hunan Quality Supervision and Test Center for large and Medium-sized motors and Electric Control Products”, “State Key Laboratory of Wind Power Technology”, “National Energy Wind-driven Generator R&D (Experiment) Center”, Unique “Offshore Wind Power Generation Technology and Testing National Key Laboratory” and state-approved “National Wind Power Equipment Quality Supervision and Inspection Center” under preparation. Permanent Magnet Synchronous Wind Power Generator sets of XE72, XE82, XE93, 2MW, 2.5MW and 5MW have achieved Europe CE certification. And we are qualified supplier for Siemens, Hitachi, ABB, Alstom, Ebara Boshan Pumps, Convertteam, Danieli, KSB, Flowsever etc..



ABB合格供应商证书
Certificate of Qualified Supplier for ABB





全方位的客户服务 ▶ All-round Customer Service



以科学严谨的态度、精益求精的精神，高标准、高质量和高品质的售后服务赢得用户的信赖，严格履行对用户做出的承诺。目前，除西藏、台湾以外，事业部已建立23个办事处，售后服务网点已覆盖全国。常年配备服务工程师，客户服务8小时内到达现场。

With a rigorous scientific attitude and continuous improvement spirit, we enjoy trust from customers and strictly fulfill our commitments to customers. At present, Motor Division has set up 23 offices except Tibetan and Taiwan, with after-sales service network covering all over the country. After-sales engineers may reach the site within eight (8) hours upon customers' request.

订货注意事项

尊敬的客户：

您订货时除了需提供您所需的电机型号的基本参数外，还需注意如下一些问题，请务必认真阅读以下项次，以确保您的需求能够得到最满意、最迅速的答复。如没有提出特殊要求，我公司将默认按国标及我公司标准生产。

Dear Customers,

When placing an order, please note the following except providing the basic parameters of your selected motor. Please carefully read the following items to make sure that your demands are responded most satisfactorily and quickly. If no special requirements are mentioned, production will be made in accordance with national standards and our enterprise standards.

- 1 噪声如果有特殊要求须提供给我们。(详见噪声国家标准)
Please specify your special requirement on noise (if any). (See national standard for noise.)
- 2 振动如果有特殊要求须提供给我们(标准值为：振幅0.037mm；振速2.3 mm/s,详见振动国家标准)
Please specify your special requirement on vibration (if any). (Standard: amplitude 0.037mm, velocity 2.3mm/s; see national standard for vibration)
- 3 启动次数如果有特殊要求须提供给我们(标准为冷态2次，热态1次)
Please specify your special requirement on number of starts (if any). (Standard: twice at cold state; once at hot state.)
- 4 旋转方向必须告知我们(标准为从电机轴伸端往电机方向看为顺时针,电机必须注明旋向)
Please specify your special requirement on direction of rotation (if any). (Standard: clockwise, viewed from motor shaft extension end; direction of rotation must be indicated for high-efficiency energy-saving motor.)
- 5 电机负载类型请提供给我们(如风机；水泵；磨机；破碎机；压缩机；轧钢机；盘磨机等)
Please specify types of driven equipment of motors. (e.g. water pump, mill, crushing machine, compressor, rolling mill, disc mill.)
- 6 负载转动惯量如果有特殊要求须提供给我们。
Please specify your special requirement on moment of inertia of the load (if any).
- 7 传动方式是什么请告知我们。(如带液力耦合器或带齿轮箱或直接连接)
Please specify types of drive (e.g. with fluid coupling or gearbox or direct-connected).
- 8 联轴形式是什么请告知我们。(如联轴器或者皮带轮，皮带张力是多少也须告知)
Please specify types of coupling (e.g. coupling and belt pulley; belt tension must be indicated.)
- 9 电机上是否需提供编码器接口？
Please specify whether installation location for encoder should be reserved on motor.
- 10 您所需电机是否在高原使用？(电机运行海拔超过1000米需特殊设计)
Please specify whether the motor is used in plateau. (Motors with installation altitude over 1000m are subject to special design.)
- 11 电机运行的环境温度是多少请告知我们。
Please specify the ambient temperature of the motor.
- 12 电机是否在湿热带地区使用？
Please specify whether the motor is used in humid tropical zone.
- 13 电机是否在户外使用？
Please specify whether the motor is used outdoor.
- 14 电机是否在海边使用？
Please specify whether the motor is used near the sea.
- 15 防腐是否有要求？(如F1轻度腐蚀；F2中度腐蚀；F3强腐蚀)
Please specify requirements for anti-corrosion (if any). (e.g. F1 for low corrosivity, F2 for medium corrosivity, F3 for high corrosivity.)
- 16 轴承采用何种型式？(如滚动轴承或者滑动轴承)是否需进口轴承？(☐SKF ☐FAG ☐NSK ☐国产)
Please specify types of bearings. (e.g. rolling or sliding bearing). Please specify whether imported bearings are needed. (☐SKF ☐FAG ☐NSK ☐Domestic)
- 17 轴承是否承受推力？
Please specify whether bearings bear thrust.

全国统一客服热线Nationwide customer service hotline: 400-809-6906
网址Website: Http: www.xemc.com.cn

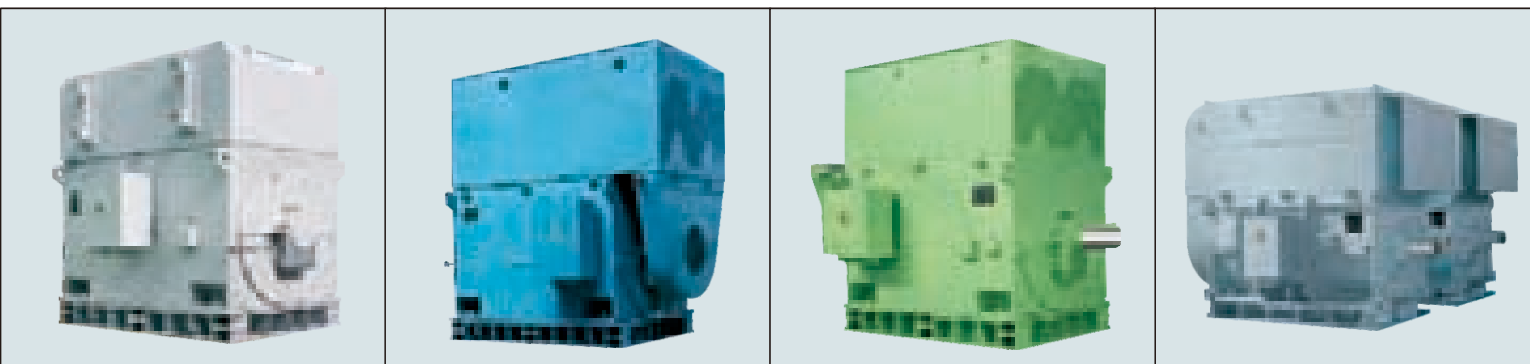
- 18 轴承是否有绝缘要求？
Please specify insulation requirements for bearings.
- 19 是否需要我们提供稀油站？
Please specify whether lubrication device needs to be provided by us.
- 20 如果需要稀油站是否有特殊要求？（无要求即是采用国产元件）
If required, please specify special requirements for the lubrication device (if any). (Home-made device will be used if there is no requirements.)
- 21 您所需电机是否备品电机？是的话请提供我公司原电机的生产序号。
Is the required motor standby motor? If yes, please indicate the serial number of the original motor.
- 22 中性点是否需要引出？
Please specify whether the neutral points need to be led out.
- 23 是否需要CT？如果需要CT安装位置在主出线线盒还是中性点出线盒？
Please specify whether CTs are needed. If yes, please indicate their installation position, for example, in the main terminal box or in the neutral point terminal box.
- 24 如果需要CT，数量是多少？
If CTs are needed, please specify the quantity.
- 25 是否需要加装防潮加热器？
Please specify whether a space heater is needed.
- 26 是否需要加装测振传感器？
Please specify whether vibration sensors are needed.
- 27 测温元件是否有特殊要求？
Please specify special requirement for temperature detectors (if any).
- 28 转子鼠笼材料是否有特殊要求？（如铸铝、铜排、梯形铜排）
Please specify special requirement for material of squirrel-cage rotor (if any). (e.g. cast aluminum, copper bar and trapezoid copper bar)
- 29 油漆颜色是否需要指定？（我公司默认颜色为室内“深豆绿”、室外为“淡灰”，
其它参考本资料附件的“油漆颜色”）
Does paint color need to be specified? (Our standard: "bottle pea green" for indoor, "light gray" for outdoor; for others, please refer to the attached "Paint Color")
- 30 电机是否需要双轴伸？
Is double-shaft extension necessary for the motor?
- 31 请明确出线盒位置(标准是从电机轴伸端往电机方向看出线盒安装在右边)
Please specify the location of terminal boxes. (Standard: on the right side, viewed from shaft extension end.)
- 32 电机最大力矩倍数如果有特殊要求须提供给我们。
Please specify special requirement for ratio of max. torque to rated torque of the motor (if any).
- 33 电机启动力矩倍数如果有特殊要求须提供给我们。
Please specify special requirement for ratio of starting torque to rated torque of the motor (if any).
- 34 电机启动电流倍数如果有特殊要求须提供给我们。
Please specify special requirement for ratio of starting current to rated current of the motor (if any).
- 35 功率 $\leq 355\text{kW}$ 的高效电机虽不在财政部补贴范围内，但建议客户仍然采用高效电机。
Although high-efficiency motors with power less than or equal to 355kW are not covered by allowance issued by China's Ministry of Finance, it is recommended that high-efficiency motors should still be selected.
- 36 中心高 $\leq H710$ 的高效电机一律全部采用磁性槽楔。
Magnetic slot wedge should be used for all high-efficiency motors with shaft height less than or equal to 710.

订购热线Hotline for Order:

+86-731-58596893 58595978 58596873

YX YXKS YXKK 10kV系列高效高压三相异步电动机

YX, YXKS and YXKK Series 10kV High-efficiency High-voltage Three-phase Asynchronous Motor



一、概述

YX、YXKS、YXKK 10kV系列高效高压三相异步电动机是我公司21世纪的最新产品，积累了我公司60多年长期的高压三相异步电动机系列设计制造的经验，开发的新一代高效节能电机产品，可与普通Y系列高压三相异步电机互换，提高企业的运行效益，节能减排。

本系列电动机的功率等级和安装尺寸及公差均符合国家标准GB/T 755《旋转电机定额和性能》国际电工委员会标准IEC34-1《旋转电机定额和性能》和GB/T13957及机械行业标准JB/T10446等。电气性能方面由于在上述标准基础上损耗降低了20%，能效等级执行GB30254-2013的2级能效。

本系列电动机的外壳防护等级根据GB/T4942.1和IEC34-5《旋转电机外壳防护等级》的标准分别有IP23、IPW24、IP44和IP54四种。如果用户需要其它防护等级可另行供货。

本系列电动机的冷却方法根据GB/T1993和IEC34-6《旋转电机冷却方法》的标准分别有IC01、IC81W、IC86W、IC611、IC616、IC666。如果用户需要其它冷却方法可另行供货。

本系列电动机的结构及安装型式为IMB3(卧式带底脚)，符合GB/T997和IEC34-7《电机结构及安装型式代号》的规定。

二、优势特点

1. 优化的电磁设计

本系列电动机应用了有限元方法分析电磁性能、发热及机械应力和变形并进行了电磁优化设计，对尺寸、气隙、槽配合及槽形进行了全面优化，电机的尺寸达到合理的匹配，电机的性能达到最佳。

2. 低谐波绕组

本系列电动机采用低谐波绕组，降低电机的定子铜耗和杂散损耗，提高电机的运行效率。

3. 高强度磁性槽楔

我公司经过长期研究，采用高强度磁性槽楔，稳定的槽楔紧固工艺和材料，成功地解决了磁性槽楔脱落的问题，提高了电机的电气性能。

4. 优化的通风冷却系统

采用后倾离心式风扇，轴流风扇等，优化电机内、外通风系统，提高冷却效果，降低电机(特别是高速电机)的通风损耗，降低通风噪音，提高电机效率。

5. 绝缘系统

本系列采用各种性能得到全面提升的绝缘系统，电压特性、温度特性、弯曲强度、击穿电压试验、热老化电老化试验均表明本系列绝缘系统达一流水平。本系列采用优质云母带，环保浸渍树脂并在数控绕线机、胀型机及包带机上完成线圈制作的每道工序，最后经VPI处理。因此绝缘性能可靠，机械强度高，防潮能力强。

6. 高效率

本系列电机的效率在JB/T10446、GB/T13957的效率基础上降低损耗20%，效率设定GB30254-2013的2级能效要求，为真正意义上的高效率电机，可大幅提高客户的运行效益，比3级能效产品为用户节电20%以上，为国家节能惠民工程产品。

1. Overview

YX, YXKS and YXKK series 6kV high-efficiency high-voltage three-phase asynchronous motor, our latest product in the 21st century, is a new generation of high-efficiency energy-saving motor products developed by our accumulated experience in design and manufacture of high-voltage three-phase asynchronous motor for over 60 years and interchangeability with ordinary Y-series high-voltage three-phase asynchronous motor can enhance enterprise operating efficiency and fulfill energy saving and emission reduction.

The power rating, mounting dimension and tolerance of this series of motor comply with national standard GB/T755 Rotating electrical machines--Rating and performance, standard of international electrotechnical commission IEC34-1 Rotating electrical machines--Rating and performance, GB/T13957 and machinery industry standards such as JB/T10446. In respect of electrical performances, the energy efficiency grade shall be in accordance due to loss reduction by 20% based on the above standards, with other electrical performances complying with the above standards.

In respect of degree of protection provided by enclosure, this series of motors are of IP23, IPW24, IP44 and IP54 as per GB/T4942.1 and IEC34-5 Rotating Electric Machines: Degrees of Protection provided by enclosure. Motors with other degrees of protection can be supplied by separate agreement if requested by users.

In respect of method of cooling, this series of motors are of IC01, IC81W, IC86W, IC611, IC616 and IC666 as per GB/T1993 and IEC34-6 Rotating Electric Machines: Methods of Cooling. Motors with other methods of cooling can be supplied by separate agreement if requested by users.

In respect of type of construction and mounting arrangement, this series of motors are of IMB3 (horizontal, with footing), which complies with requirements in GB/T997 and IEC34-7 Rotating Electric Machines-Classification of Types of Construction and Mounting Arrangements and Terminal Box Position for (IM Code).

2. Advantages and Characteristics

1) Optimized electromagnetic design

This series of motors use finite element method to analyze electromagnetic performance, heating, mechanical stress and deformation; and the motors' dimensions have been reasonably matched and performance has been maximized to the highest level through comprehensively optimizing not only electromagnetic design, but also dimensions, air gap and slot combination and shape.

2) Low harmonic winding

Low harmonic winding are adopted in this series of motors, which can reduce stator copper loss and stray loss, thus enhance operation efficiency.

3) High-strength magnetic slot wedge

It takes a long period of research for Motor Division to solve dropping out of slot wedge and improve the motor electrical performance by employing high-strength magnetic slot wedge and adopting a mature and stable slot wedge fastening process and materials.

4) Optimized ventilation cooling system

The motors use backward centrifugal fans, axial flow fans etc., which can maximize internal and external ventilation system, improve cooling effect, reduce ventilation loss (esp. for high-speed motor), lower ventilation noise and enhance efficiency.

5) Insulation system

This series of motors adopt an insulation system with various performances comprehensively improved; voltage characteristics, temperature characteristics, bending strength, breakdown voltage test, heat and electrical aging tests all prove that this series insulation system has achieved world-class level. The motors are excellent in insulation performance, mechanical strength and moisture resistance, since high-quality mica tape and environment-friendly impregnating resin are adopted, every process of coil fabrication is completed in CNC coil winding machine, expanding machine and taping machine, and at last VPI treatment is done.

6) High efficiency

As the real high efficiency motors, they can lower 20% loss compared with efficiency specified in JB/T10446, GB/T13957 and efficiency meets the requirements for IE 2 of GB30254-2013. This series of motors can massively increase operation benefits to customers and can save electricity by more than 20% for users compared with IE3 products. And they are products for national project of energy-saving and benefiting the people.



三、使用范围

本系列电动机可用于驱动各种通用机械如压缩机、通风机、水泵、切削机床、运输机械及其他机械设备，在矿山、机械行业、石化行业、发电厂等各种工矿企业中作原动机使用。用以驱动大转动惯量的鼓风机、磨煤机、轧钢机、卷扬机、破碎机、皮带机等机械的电动机应在订货时提供有关技术资料，签订技术协议，作为电机特殊设计的依据，并选用派生系列的专用电动机，以确保电机可靠运行。

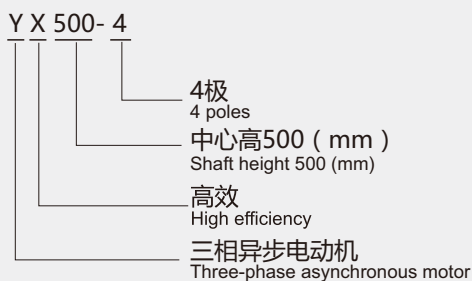
电动机正常工作基本条件:

- a 海拔不超过1000m;
- b 最高环境空气温度不超过40°C;最低环境空气温度对采用滚动轴承的电动机为-15°C，对采用滑动轴承的电动机为5°C;对YXKS系列电动机为5°C;
- c 对YXKS系列电动机，冷却器入口处冷却水温度不超过33°C，最低温度为5°C;
- d 最湿月月平均最高相对湿度为90%，同时该月月平均最低温度不高于25°C;
- e 电源频率为50Hz $\pm$ 1%;
- f 工作电压变化范围不大于额定电压: $\pm$ 5%;
- g 电动机定额为连续工作制S1。

四、型号说明

电动机型号按GB4831的规定由产品代号、规格代号二部分依次排列组成。产品代号由电机系列代号表示，含义如下:

示例Example of designation :



3. Range of Application

This series of motor can be used to drive various universal machines such as compressor, ventilating blower, water pump, cutting machine tool, conveying machinery and other mechanical equipment and be used as prime motors for various industrial and mining enterprises in mine, machinery industry, petrochemical industry, power generation plant etc.. To ensure reliable operation of motors used to drive equipment with heavy moment of inertia such as air blower, coal mill, rolling mill, winding engine, belt conveyor, relevant technical data and technical specification, acted as the basis for special design of the motors, need to be provided and signed respectively when placing orders and dedicated motor series derived should be selected.

Basic Conditions for Normal Operation of Motors:

- a. Altitude: not higher than 1000m;
- b. Maximum ambient temperature: not higher than 40°C; minimum ambient temperature: 15°C for motors with rolling bearings, 5°C for those with sliding bearings; 5°C for YXKS series motors;
- c. For YXKS series motors, cooling water inlet temperature for cooler: not higher than 33°C, minimum temperature: 5°C;
- d. In the most humid month, monthly average maximum relative humidity: 90%; and monthly average minimum temperature of that month: not higher than 25°C;
- e. Power supply frequency: 50Hz $\pm$ 1%;
- f. Working voltage: not greater than $\pm$ 5% of rated voltage;
- g. Performance rating of motor: continuous duty S1.

4. Model Description

Motor model consists of product code and specification code as stipulated in GB4831. Product code is represented by motor series code with meaning as follows:





五、结构说明

YX为基本系列，防护等级为IP23，冷却方法为IC01。将其机座顶部防护罩拆去，并安装不同的防护罩(或冷却器)即可派生各种不同防护等级及冷却方法的电机，如YXKS(空-水冷却)、YXQF(气候防护)、YXKK(空-空冷却)等系列电机。

电动机采用国际上流行的箱式结构，机座和端盖均由钢板焊接制成，刚度好、重量轻、拆下防护罩(或冷却器)后可以观察和触及电机内部，便于电动机的安装、维修。

定子采用外压装结构。定子绕组采用F级绝缘材料和防晕材料，绕组端部固定采用特殊绑扎工艺、牢固可靠，整个定子采用真空压力浸渍F级无溶剂漆(VPI)处理。由此，电动机具有优良的绝缘性能和防潮、抗冲击能力。本系列电动机H400~H710均采用磁性槽楔，不接受要求非磁性槽楔订货。

本系列电动机鼠笼转子大部分采用铜条转子，鼠笼铜条转子采用先进可靠的焊接工艺，并经槽内紧固处理。运行可靠，少量采用铸铝转子。

轴承有滚动轴承和滑动轴承两种型式，依电动机功率大小及转速而定，其基本型式的防护等级为IP44。如电机具有较高的防护等级时，轴承的防护等级也随之提高。

采用滚动轴承结构的电机均有不停机加油和排油装置，并配备专用加油工具。

主出线盒为密封结构，防护等级为IP54。一般装于电机右侧(从轴伸端看)，根据用户需要也能装于左侧。出线盒的进线孔可朝上、下、左、右四周转换。盒内有单独的接地端子。

二极电机轴承采用滚动轴承(H400~H500)或滑动轴承(H500及以上)结构，滑动轴承采用油环和压力油循环复合润滑方式。

本系列电机的内、外风扇均有方向性，电机只能接指定旋向旋转。

二极电机外挂风机(冷却方式IC616)空-空冷却结构，需要低压电源。

六、鼠笼异步电动机的启动 (YX、YXKS、YXKK系列)

鼠笼型异步电动机的转子采用了先进的计算技术来计算鼠笼转子的起动温升相应力。以防电动机因起动负载过重而导致电机早期损坏。

建议用户核查: (1)被驱动机械设备转动部分的转动惯量(折算到电动机转速后)应不超过技术数据表中(负载J)顶的数值;(2)用户的电网应保证电动机在起动过程中的电机端电压不低于额定电压的85%; (3)被传动机械的阻力矩特性为水泵、风机类阻力矩特性。

在上述条件下，电动机允许在实际冷状态下连续起动两次，电动机在两次起动之间为自然停车，或者在电动机热状态下起动一次。超出以上限制的再次起动电动机应在停车1小时以后。

如果需要电动机传动的机械转动部分的转动惯量超过技术数据表中的(负载J)数值，或要求频繁起动电动机，或有可能带重负载起动的电动机，务必请事先和制造厂联系协商，以便特殊设计，确保电动机的可靠起动。

二极电机外挂风机空-空冷却型结构，需要起动冷却风机后才能起动主电机。

5. Structure description

YX is basic motor series, with degree of protection IP23 and method of cooling IC01. Motors with various degrees of protection and methods of cooling can be derived by removing the protective cover at the top of motor frame and installing different protective covers (or coolers), such as YXKS (air-water cooling), YXQF (weather-proof), YXKK (air-air cooling) series motors.

The motor is designed with international popular box-type structure. The frame and end cover are welded by steel plates, with good rigidity and light weight. The internal part of the motor can be observed and accessed by removing the protective cover (or cooler) to facilitate the installation and repair & maintenance of the motor.

The stator is of externally laminated pressed structure. The stator winding uses Class F insulating material and anti-corona material. The winding overhang, fixed with special binding process, is reliable and secure. The entire stator is vacuum pressure impregnated (VPI) with Class F non-solvent varnish. Therefore, the motor is excellent in insulation performance, moisture resistance and anti-impact ability. This series of motors with shaft height H400~H710 all adopt magnetic slot wedge and any orders requiring the use of non-magnetic slot wedge are not acceptable.

Most of squirrel-cage rotors of this series of motors are made of copper bars. The squirrel-cage copper bar rotor is welded with advanced, reliable technology and treated by fastening within slot, thus the motor can operate reliably. Only a few are made of cast aluminum.

According to the output and speed, bearing has two types: rolling bearing and sliding bearing, with basic degree of protection IP44. If a motor is designed with a higher degree of protection, the degree of protection of the bearing would be increased correspondingly.

Motors with rolling bearing structure are provided with non-stop oil filling and drain device and equipped with oil filling tools.

The main terminal box is of sealed structure, with degree of protection IP54. Generally, it is mounted on the right side of motor (viewing from shaft extension end), but it can also be mounted on the left side according to users' requirement. The entry hole of the terminal box may be oriented up, down, left and right. A separate grounding terminal is provided within the box.

2-pole motors are designed with rolling bearing (H400~H500) or sliding bearing (H500 and above) structure. The sliding bearing is lubricated with combined oil ring and forced oil circulation.

The internal and external fans of this series of motors are non-reversible and motors can only rotate according to specified direction of rotation.

The external fan of a 2-pole motor (method of cooling: IC616) with air-air cooling structure needs a low-voltage power source.

6. Starting of Squirrel-cage Asynchronous Motor (YX, YXKS, YXKK Series)

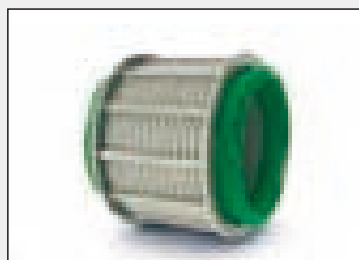
Advanced computing technology is used to calculate the temperature rise and stress of the rotor of squirrel-cage induction motor during starting to prevent early damage of the motor due to excessive starting load.

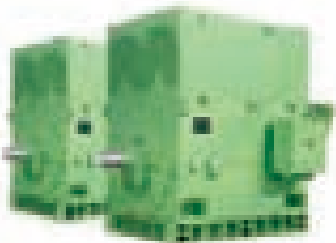
It is recommended that: (1) the moment of inertia of the rotating part of driven equipment (after converted into motor speed) should not exceed the value of load (J) in the technical data sheet; (2) the users' power grid should make sure that motor terminal voltage should be no less than 85% of its rated voltage during starting; (3) the counter-torque characteristic of the driven machinery refers to those of water pump, blower and the like;

Under the above conditions, the motor is allowed to start twice successively at cold state with natural shutdown between two starts or once at hot state. Additional start exceeding this limit should be made 1 hour later after shutdown.

If the moment of inertia of the rotating part of motor-driven machinery exceeds the value of load (J) in the technical data sheet, or the motor is required to be started frequently, or the motor may be started under heavy load, please be sure to contact the manufacturer in advance for special design so as to ensure reliable startup of the motor.

For 2-pole motors with external fans, of air-air cooling structure, only after the cooling fans are started can the main motor be started.





七、订货须知

7. Instructions for Order Placement

请在订货时必须注明以下内容：

Please specify the following when placing an order:

- | | |
|---------------------------------------|---|
| (1) 电机型号 Motor type : | (YX500-4) |
| (2) 额定频率 Rated frequency : | (50Hz) |
| (3) 额定功率 Rated power : | (1000kW) |
| (4) 额定电压 Rated voltage : | (6kV) |
| (5) 极数 Number of pole : | (4极) |
| (6) 防护等级 Degree of protection : | (IP23) |
| (7) 冷却方法 Method of cooling : | (IC01) |
| (8) 安装型式 Mounting arrangement : | (IMB3) |
| (9) 旋转方向 Direction of rotation : | 〔顺时针方向 (面对电动机轴伸端看) 〕
clockwise (viewed from the shaft extension end) |
| (10) 出线盒位置 Position of terminal box : | 〔电动机右侧 (面对电动机轴伸端看) 〕
on the right side of the motor
(viewed from the shaft extension end) |

注意事项：

- a 核查被驱动机械设备转动惯量 (折算到电动机的转速后)，请查阅前述第六章：鼠笼型电动机的起动；
- b 如工作条件有变化或其它特殊要求，需另签订技术协议方可签订订货合同；
- c 样本内表中所列的技术性能数据均为保证值，可列入技术协议中作考核标准。
- d 本系列电动机H400~H710均采用磁性槽楔，不接受要求非磁性槽楔订货。
- e 本系列电机的内、外风扇均有方向性，订货时必须注明电机旋转方向。
- f 对进口件，我公司仅采购该品牌产品而不限产地。
- g 我公司仅提供电动机必需的备品备件，概不提供客户可在市场上采购到的标准的，额外的附件 (如扳手、阀门等)。
- h 我公司可提供除样本以外的YRX、YRXKK、YXL、YXKSL、YXKKL等高效高压三相异步电动机，需另签订技术协议方可签订订货合同。
- I 随着技术的进步和有关国内外标准的修改，样本内技术数据及尺寸有所变动，恕不另行通知，订货后请向我公司索取正式外形图。

Attention:

- a. Check the moment of inertia of the driven equipment (after converted into motor speed), please refer to Chapter 6: Starting of Squirrel-cage Motor;
- b. Any change in operating conditions or other special requirements shall be subject to a technical agreement before signing of contract.
- c. The technical performance data listed in tables in the catalog are guaranteed values, which can be listed into the technical specification as assessment standard.
- d. This series of motors with shaft height H400-H710 all adopt magnetic slot wedge and orders requiring the use of non-magnetic slot wedge are not acceptable.
- e. The internal and external fans of this series of motor are non-reversible and motors can only rotate according to specified direction of rotation.
- f. For imported parts, we only purchase the products of the brands, regardless of their origins.
- g. Only necessary spare parts are supplied, standard and additional accessories that can be purchased in the market are not supplied (such as spanner, valve);
- h. Besides the motors specified in the catalog, we can also supply YRX, YRXKK, YXL, YXKSL, YXKKL etc. high-efficiency high-voltage three-phase asynchronous motors, but separate technical specifications should be signed before the order contract.
- I. With technical improvement and amendment to and/or revision of related national and international standards, the technical data and dimensions in the catalog will be subject to change without prior notice. please request formal outline drawing from us after placing an order.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

► YX(IP23)、YXKS(IP54)系列10kV技术数据
Technical Data for YX (IP23) and YXKS (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	额定 转速 Rated Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor (cosΦ)	最大 转矩 Maximum Torque	堵转 转矩 Locked -rotor Torque	堵转 电流 Locked -rotor Current	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)	
						额定 转矩 Rated Torque $\frac{T_M}{T_N}$	额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	额定 电流 Rated Current $\frac{I_{st}}{I_N}$		YX	YXKS
400-2	220	15.8	2974	93.3(91.9)	0.86	1.8	0.6	7.0	28737	2420	2800
	250	18.0	2974	93.4(92.1)	0.86	1.8	0.6	7.0	30225	2470	2850
	280	20.1	2974	93.6(92.3)	0.86	1.8	0.6	7.0	33706	2520	2900
	315	22.5	2973	93.9(92.7)	0.86	1.8	0.6	7.0	34740	2520	2900
	355	25.0	2972	94.3(93.1)	0.87	1.8	0.6	7.0	38818	2620	3000
	400	28.1	2972	94.5(93.4)	0.87	1.8	0.6	7.0	39881	2750	3130
	450	31.5	2971	94.7(93.6)	0.87	1.8	0.6	7.0	44675	2830	3210
	500	35.0	2972	94.9(93.8)	0.87	1.8	0.6	7.0	49429	2960	3340
	560	39.1	2974	95.0(93.9)	0.87	1.8	0.6	7.0	55243	3090	3470
450-2	630	44.0	2973	95.0(94.0)	0.87	1.8	0.6	7.0	56439	3510	3880
	710	49.0	2972	95.1(94.1)	0.88	1.8	0.6	7.0	63471	3690	4060
	800	55.1	2972	95.3(94.3)	0.88	1.8	0.6	7.0	71215	3870	4240
	900	61.9	2972	95.4(94.4)	0.88	1.8	0.6	7.0	79949	4050	4420
	1000	68.7	2974	95.5(94.5)	0.88	1.8	0.6	7.0	88645	4230	4600
500-2	1120	76.9	2976	95.6(94.7)	0.88	1.8	0.6	7.0	89072	5480	6000
	1250	84.6	2975	95.9(95.0)	0.89	1.8	0.6	7.0	98787	5680	6200
	1400	94.6	2975	96.0(95.1)	0.89	1.8	0.6	7.0	110410	5880	6400
	1600	108.1	2974	96.0(95.2)	0.89	1.8	0.6	7.0	112045	6080	6600
560-2	1800	120.2	2979	96.1(95.3)	0.9	1.8	0.6	7.0	125787	7400	8000
	2000	133.2	2980	96.3(95.5)	0.9	1.8	0.6	7.0	139181	7950	8550
	2240	148.9	2982	96.5(95.7)	0.9	1.8	0.6	7.0	155235	8200	8800
630-2	2500	166.2	2982	96.5(95.7)	0.9	1.8	0.6	7.0	173253	8870	9770
	2800	186.1	2981	96.5(95.7)	0.9	1.8	0.6	7.0	194043	9220	10120
	3150	209.2	2980	96.6(95.8)	0.9	1.8	0.6	7.0	217845	9450	10350
	3550	235.8	2980	96.6(95.8)	0.9	1.8	0.6	7.0	245508	9800	10700
710-2	4000	265.4	2985	96.7(95.9)	0.9	1.8	0.6	7.0	276054	13500	14600
	4500	298.2	2985	96.8(96.0)	0.9	1.8	0.6	7.0	309917	13850	14950
	5000	331.0	2985	96.9(96.1)	0.9	1.8	0.6	7.0	343639	14200	15300
	5600	370.7	2986	96.9(96.1)	0.9	1.8	0.6	7.0	384876	14550	15650

注：1.括号内数值为国家标准 3级能效值。
1.The value in brackets is the national standard grade 3 energy efficiency value.
2.年节电量为每年按8000h计算。
2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机

YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor



► YX(IP23)、YXKS(IP54)系列10kV技术数据

Technical Data for YX (IP23) and YXKS (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	额定 转速 Rated Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor ($\cos\Phi$)	最大 转矩 Maximum Torque	堵转 转矩 Locked -rotor Torque	堵转 电流 Locked -rotor Current	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)	
						额定 转矩 Rated Torque $\frac{T_M}{T_N}$	额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	额定 电流 Rated Current $\frac{I_{st}}{I_N}$		YX	YXKS
400-4	220	16.0	1485	93.3(91.9)	0.85	1.8	0.7	7.0	28737	2480	2870
	250	18.2	1485	93.4(92.1)	0.85	1.8	0.7	7.0	30226	2550	2940
	280	20.3	1485	93.5(92.2)	0.85	1.8	0.7	7.0	33779	2600	2990
	315	22.8	1485	93.8(92.5)	0.85	1.8	0.7	7.0	37757	2670	3060
	355	25.4	1484	93.9(92.6)	0.86	1.8	0.7	7.0	43228	2760	3150
	400	28.6	1483	94.0(92.8)	0.86	1.8	0.7	7.0	44019	2850	3240
	450	32.0	1483	94.4(93.2)	0.86	1.8	0.7	7.0	49100	2960	3350
	500	35.5	1484	94.5(93.3)	0.86	1.8	0.7	7.0	54440	3040	3430
	560	39.7	1485	94.7(93.6)	0.86	1.8	0.7	7.0	55597	3120	3510
450-4	630	44.6	1486	94.9(93.8)	0.86	1.8	0.7	7.0	62281	3400	3700
	710	49.4	1486	95.4(94.4)	0.87	1.8	0.7	7.0	63071	3500	3800
	800	55.6	1487	95.5(94.6)	0.87	1.8	0.7	7.0	66948	3600	3900
	900	61.8	1488	95.6(94.7)	0.88	1.8	0.7	7.0	71576	3700	4000
500-4	1000	68.6	1487	95.7(94.8)	0.88	1.8	0.7	7.0	79362	4780	5150
	1120	76.7	1487	95.8(94.9)	0.88	1.8	0.7	7.0	88699	4960	5330
	1250	84.5	1487	96.0(95.0)	0.89	1.8	0.7	7.0	109649	5140	5510
	1400	94.5	1487	96.1(95.3)	0.89	1.8	0.7	7.0	97834	5320	5690
560-4	1600	107.9	1490	96.2(95.4)	0.89	1.8	0.7	7.0	111577	6330	6950
	1800	121.3	1491	96.3(95.5)	0.89	1.8	0.7	7.0	125263	6590	7210
	2000	134.4	1492	96.5(95.7)	0.89	1.8	0.7	7.0	138602	6850	7470
630-4	2240	150.4	1491	96.6(95.8)	0.89	1.8	0.6	7.0	154912	9580	10180
	2500	167.9	1491	96.6(95.8)	0.89	1.8	0.6	7.0	172893	10180	10780
	2800	188.0	1491	96.6(95.8)	0.89	1.8	0.6	7.0	193640	10780	11380
	3150	211.3	1491	96.7(95.9)	0.89	1.8	0.6	7.0	217393	11380	11980
710-4	3550	243.6	1491	96.7 (96.1)	0.87	1.8	0.5	6.5	183366	13100	13600
	4000	274.5	1491	96.7 (96.2)	0.87	1.8	0.5	6.5	171996	13800	14300
	4500	308.8	1491	96.7 (96.2)	0.87	1.8	0.5	6.5	193496	14500	15000
	5000	342.4	1491	96.9 (96.3)	0.87	1.8	0.5	6.5	257194	14800	15300

注：1.括号内数值为国家标准 3级能效值。

1.The value in brackets is the national standard grade 3 energy efficiency value.

2.年节电量为每年按8000h计算。

2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

► YX(IP23)、YXKS(IP54)系列10kV技术数据
Technical Data for YX (IP23) and YXKS (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	转 速 Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor (COSΦ)	最大 转矩 Maximum Torque	堵转 转矩 Locked -rotor Torque	堵转 电流 Locked -rotor Current	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)	
						额定 转矩 Rated Torque $\frac{T_M}{T_N}$	额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	额定 电流 Rated Current $\frac{I_{st}}{I_N}$		YX	YXKS
800-4	5600	383.5	1494	96.9(96.3)	0.87	1.8	0.5	6.5	288058	19600	20200
	6300	431	1494	97(96.4)	0.87	1.8	0.5	6.5	323395	20400	21000
	7100	479.7	1494	97.1(96.5)	0.88	1.8	0.5	6.5	363708	21200	21800
900-4	8000	540	1494	97.2(96.6)	0.88	1.8	0.5	6.5	408967	24300	25100
	9000	606.9	1494	97.3(96.7)	0.88	1.8	0.5	6.5	459139	25200	26000
	10000	673.6	1494	97.4(96.8)	0.88	1.8	0.5	6.5	509104	26100	26900
1000-4	11200	754	1494	97.5(96.9)	0.88	1.8	0.5	6.0	569024	30000	31500
	12500	840	1494	97.6(97.0)	0.88	1.8	0.5	6.0	633767	31500	33000
	14000	940	1494	97.7(97.1)	0.88	1.8	0.5	6.0	708362	33500	35000
	16000	1074	1494	97.7(97.1)	0.88	1.8	0.5	6.0	809557	35500	37000
	18000	1208	1494	97.8(97.2)	0.88	1.8	0.5	6.0	908824	37500	39000
400-6	220	17.1	988	92.9(91.4)	0.80	1.8	0.7	6.0	31091	2520	2880
	250	19.4	987	93.0(91.6)	0.80	1.8	0.7	6.0	32868	2590	2950
	280	21.7	987	93.2(91.8)	0.80	1.8	0.7	6.0	36654	2650	3010
	315	23.7	987	93.5(92.1)	0.82	1.8	0.7	6.0	40969	2730	3090
	355	26.4	986	93.7(92.4)	0.83	1.8	0.7	6.0	42643	2810	3170
	400	29.6	986	93.9(92.6)	0.83	1.8	0.7	6.0	47843	2890	3250
450-6	450	33.3	987	94.0(92.8)	0.83	1.8	0.7	6.0	49523	3180	3500
	500	36.8	987	94.5(93.2)	0.83	1.8	0.7	6.0	59041	3280	3600
	560	40.7	987	94.6(93.5)	0.84	1.8	0.7	6.0	55714	3380	3700
	630	45.6	987	94.9(93.8)	0.84	1.8	0.7	6.0	64481	3480	3800
500-6	710	51.4	991	95.0(94.0)	0.84	1.8	0.7	6.0	60393	4250	4650
	800	57.8	991	95.2(94.2)	0.84	1.8	0.7	6.0	67295	4350	4750
	900	64.1	991	95.4(94.4)	0.85	1.8	0.7	6.0	79949	4480	4880
	1000	71.1	991	95.5(94.6)	0.85	1.8	0.7	6.0	79696	4650	5050
560-6	1120	79.5	992	95.7(94.8)	0.85	1.8	0.7	6.0	88885	6160	6860
	1250	87.5	992	95.9(94.9)	0.86	1.8	0.7	6.0	109879	6460	7160
	1400	97.8	992	96.1(95.3)	0.86	1.8	0.7	6.0	97834	6760	7460
	1600	111.7	992	96.2(95.4)	0.86	1.8	0.7	6.0	111577	7060	7760

注：1.括号内数值为国家标准 3级能效值。
1.The value in brackets is the national standard grade 3 energy efficiency value.
2.年节电量为每年按8000h计算。
2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机

YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor



► YX(IP23)、YXKS(IP54)系列10kV技术数据

Technical Data for YX (IP23) and YXKS (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	转 速 Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor (cosΦ)	最大 转矩 Maximum Torque	堵转 转矩 Locked rotor Torque	堵转 电流 Locked rotor Current	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)	
						额定 转矩 Rated Torque $\frac{T_M}{T_N}$	额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	额定 电流 Rated Current $\frac{I_{st}}{I_N}$		YX	YXKS
630-6	1600	111.7	993	96.2(95.4)	0.86	1.8	0.6	6.0	111577	8900	9560
	1800	125.6	993	96.2(95.5)	0.86	1.8	0.6	6.0	109719	9260	9920
	2000	139.4	993	96.3(95.6)	0.86	1.8	0.6	6.0	121656	9620	10280
	2240	156.2	993	96.3(95.6)	0.86	1.8	0.6	6.0	136255	9980	10640
	2500	174.3	993	96.3(95.6)	0.86	1.8	0.6	6.0	152070	10340	11000
710-6	2800	195.0	993	96.4(95.8)	0.86	1.8	0.6	6.5	145531	12900	13400
	3150	219.1	993	96.5(95.9)	0.86	1.8	0.6	6.5	163383	13700	14200
	3550	246.7	993	96.6(96.0)	0.86	1.8	0.6	6.5	183747	14400	14900
	4000	277.7	993	96.7(96.1)	0.86	1.8	0.6	6.5	206610	14800	15300
800-6	4500	312.4	995	96.7(96.1)	0.86	1.8	0.6	6.5	232436	18400	19000
	5000	346.8	995	96.8(96.2)	0.86	1.8	0.6	6.5	257728	19200	19800
	5600	383.9	995	96.8(96.2)	0.87	1.8	0.6	6.5	288655	20000	20600
900-6	6300	431.5	995	96.9(96.3)	0.87	1.8	0.6	6.5	324065	24200	25000
	7100	485.8	995	97(96.4)	0.87	1.8	0.6	6.5	364461	25100	25900
	8000	546.2	995	97.2(96.5)	0.87	1.8	0.6	6.5	477622	26000	26800
1000-6	9000	614	995	97.3(96.6)	0.87	1.8	0.6	6.5	536217	29100	30600
	10000	682	995	97.3(96.7)	0.87	1.8	0.6	6.5	510155	30400	31900
	11200	763	995	97.4(96.8)	0.87	1.8	0.6	6.5	570197	31700	33200
	12500	852	995	97.4(96.8)	0.87	1.8	0.6	6.5	636381	33000	34500
450-8	220	18.0	743	92.6(91.1)	0.76	1.8	0.7	6.0	31295	3280	3600
	250	20.5	743	92.8(91.3)	0.76	1.8	0.7	6.0	35408	3390	3710
	280	22.9	743	93.0(91.6)	0.76	1.8	0.7	6.0	30243	3490	3810
	315	25.3	743	93.5(92.1)	0.77	1.8	0.7	6.0	40969	3590	3910
	355	28.4	743	93.7(92.4)	0.77	1.8	0.7	6.0	42643	3690	4010
	400	31.6	742	93.8(92.5)	0.78	1.8	0.7	6.0	47946	3790	4110
	450	35.5	742	93.9(92.7)	0.78	1.8	0.7	6.0	49629	3890	4210
500-8	500	38.7	743	94.4(93.1)	0.79	1.8	0.7	6.0	59167	4120	4500
	560	43.3	743	94.5(93.3)	0.79	1.8	0.7	6.0	60974	4370	4750
	630	46.7	743	94.9(93.8)	0.82	1.8	0.7	6.0	62281	4620	5000
	710	52.6	743	95.0(94.0)	0.82	1.8	0.7	6.0	63606	4870	5250

注：1.括号内数值为国家标准 3级能效值。

1.The value in brackets is the national standard grade 3 energy efficiency value.

2.年节电量为每年按8000h计算。

2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机

YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

► YX(IP23)、YXKS(IP54)系列10kV技术数据

Technical Data for YX (IP23) and YXKS (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	转速 Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor (cosφ)	最大 转矩 Maximum Torque	堵转 转矩 Locked -rotor Torque	堵转 电流 Locked -rotor Current	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)	
						额定 转矩 Rated Torque $\frac{T_M}{T_N}$	额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	额定 电流 Rated Current $\frac{I_{st}}{I_N}$		YX	YXKS
560-8	800	59.2	743	95.2(94.2)	0.82	1.8	0.7	6.0	71366	6300	7000
	900	66.5	743	95.3(94.3)	0.82	1.8	0.7	6.0	80118	6550	7250
	1000	72.8	743	95.5(94.5)	0.83	1.8	0.7	6.0	88645	6800	7500
	1120	81.5	743	95.6(94.7)	0.83	1.8	0.7	6.0	89072	7050	7750
630-8	1250	90.8	744	95.8(94.8)	0.83	1.8	0.7	6.0	110110	8050	8800
	1400	101.7	744	95.8(94.9)	0.83	1.8	0.7	6.0	110873	8400	9150
	1600	116.2	744	95.8(94.9)	0.83	1.8	0.7	6.0	126713	8750	9500
	1800	130.7	744	95.8(94.9)	0.83	1.8	0.7	6.0	142552	9100	9850
710-8	2000	141.7	744	95.9(95.2)	0.85	1.8	0.6	6.5	122677	12700	13200
	2240	158.7	744	95.9(95.3)	0.85	1.8	0.6	6.5	117646	13200	13700
	2500	176.9	744	96.0(95.4)	0.85	1.8	0.6	6.5	131027	13800	14300
	2800	195.6	744	96.1(95.5)	0.86	1.8	0.6	6.5	146444	14200	14700
800-8	3150	219.8	745	96.2(95.6)	0.86	1.8	0.6	6.5	164406	16400	17000
	3550	247.5	745	96.3(95.7)	0.86	1.8	0.6	6.5	184898	17200	17800
	4000	278.6	745	96.4(95.8)	0.86	1.8	0.6	6.5	207902	18000	18600
900-8	4500	313.1	745	96.5(95.9)	0.86	1.8	0.6	6.5	233404	20800	21600
	5000	347.1	745	96.7(96)	0.86	1.8	0.6	6.5	301620	22200	23000
	5600	388.4	745	96.8(96.1)	0.86	1.8	0.6	6.5	337114	23100	23900
	6300	436.9	745	96.8(96.2)	0.86	1.8	0.6	6.5	324737	24000	24800
1000-8	7100	486	745	96.9(96.3)	0.87	1.8	0.6	6.5	365216	27300	28800
	8000	547	745	97.1(96.4)	0.87	1.8	0.6	6.5	478610	28500	30000
	9000	614	745	97.2(96.5)	0.87	1.8	0.6	6.5	537325	30300	31800
	10000	682	745	97.3(96.6)	0.87	1.8	0.6	6.5	595797	32100	33600
1120-8	11200	764	745	97.3(96.7)	0.87	1.8	0.6	6.5	571373	36500	38000
	12500	852	745	97.4(96.8)	0.87	1.8	0.6	6.5	636381	38500	40000
	14000	953	745	97.5(96.9)	0.87	1.8	0.6	6.5	711280	40500	42000
450-10	220	19.1	594	92.5(91.0)	0.72	1.8	0.7	5.5	31363	3720	4040
	250	21.3	594	92.7(91.2)	0.73	1.8	0.7	5.5	35485	3870	4190
	280	23.5	594	93.1(91.6)	0.74	1.8	0.7	5.5	39400	4020	4340
	315	26.3	593	93.4(91.9)	0.74	1.8	0.7	5.5	44038	4170	4490
	355	29.2	593	93.5(92.1)	0.75	1.8	0.7	5.5	46172	4320	4640

注：1.括号内数值为国家标准 3级能效值。
1.The value in brackets is the national standard grade 3 energy efficiency value.
2.年节电量为每年按8000h计算。
2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机

YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor



► YX(IP23)、YXKS(IP54)系列10kV技术数据

Technical Data for YX (IP23) and YXKS (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	转 速 Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor (COSΦ)	最大 转矩 Maximum Torque	堵转 转矩 Locked rotor Torque	堵转 电流 Locked rotor Current	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)	
						额定 转矩 Rated Torque $\frac{T_M}{T_N}$	额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	额定 电流 Rated Current $\frac{I_{st}}{I_N}$		YX	YXKS
500-10	400	32.9	592	93.6(92.3)	0.75	1.8	0.7	5.5	48152	4900	5500
	450	36.0	592	93.8(92.5)	0.77	1.8	0.7	5.5	53939	5080	5680
	500	39.9	591	94.0(92.7)	0.77	1.8	0.7	5.5	59675	5260	5860
	560	44.0	591	94.1(92.9)	0.78	1.8	0.7	5.5	61497	5440	6040
	630	49.5	591	94.3(93.1)	0.78	1.8	0.7	5.5	68889	5620	6220
560-10	710	55.6	593	94.5(93.3)	0.78	1.8	0.7	6.0	77307	5850	6350
	800	60.8	593	94.9(93.8)	0.80	1.8	0.7	6.0	79087	6100	6600
	900	68.3	593	95.1(94.0)	0.80	1.8	0.7	6.0	88597	6350	6850
	1000	75.9	593	95.1(94.1)	0.80	1.8	0.7	6.0	89396	6600	7100
630-10	1120	84.9	594	95.2(94.2)	0.80	1.8	0.7	6.0	99702	9290	9950
	1250	94.7	594	95.3(94.3)	0.80	1.8	0.7	6.0	111274	9740	10400
	1400	106.0	594	95.3(94.3)	0.80	1.8	0.7	6.0	124627	10190	10850
	1600	121.2	594	95.3(94.3)	0.80	1.8	0.7	6.0	142431	10640	11300
710-10	1800	132.8	595	95.4(94.8)	0.82	1.8	0.6	6.0	95534	11900	12400
	2000	147.3	595	95.6(94.9)	0.82	1.8	0.6	6.0	123451	12400	12900
	2240	162.8	595	95.7(95.0)	0.83	1.8	0.6	6.0	137975	12800	13300
800-10	2500	181.7	595	95.7(95.1)	0.83	1.8	0.6	6.0	131853	16900	17500
	2800	203.3	595	95.8(95.2)	0.83	1.8	0.6	6.0	147366	17700	18300
	3150	225.3	595	96(95.3)	0.84	1.8	0.6	6.0	192812	18500	19100
	3550	253.9	595	96.1(95.4)	0.84	1.8	0.6	6.0	216843	19700	20300
900-10	4000	285.5	595	96.2(95.5)	0.84	1.8	0.6	6.0	243820	21700	22500
	4500	321.5	595	96.2(95.6)	0.84	1.8	0.6	6.0	234866	22600	23400
	5000	356.5	595	96.4(95.7)	0.84	1.8	0.6	6.0	303507	23500	24300
1000-10	5600	399	595	96.5(95.7)	0.84	1.8	0.6	6.0	388087	29100	30600
	6300	448	595	96.6(95.8)	0.84	1.8	0.6	6.0	435690	30300	31800
	7100	505	595	96.7(95.9)	0.84	1.8	0.6	6.0	489997	31500	33000
1120-10	8000	568	595	96.8(96.0)	0.84	1.8	0.6	6.0	550964	36500	38000
	9000	639	595	96.8(96.0)	0.84	1.8	0.6	6.0	619835	38500	40000
	10000	709	595	96.9(96.1)	0.84	1.8	0.6	6.0	687279	39900	41400

注：1.括号内数值为国家标准 3级能效值。
1.The value in brackets is the national standard grade 3 energy efficiency value.
2.年节电量为每年按8000h计算。
2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

► YX(IP23)、YXKS(IP54)系列10kV技术数据
Technical Data for YX (IP23) and YXKS (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	转速 Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor (COSΦ)	最大 转矩 Maximum Torque	堵转 转矩 Locked -rotor Torque	堵转 电流 Locked -rotor Current	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)	
						额定 转矩 Rated Torque $\frac{T_M}{T_N}$	额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	额定 电流 Rated Current $\frac{I_{st}}{I_N}$		YX	YXKS
500-12	220	19.1	495	92.4(90.9)	0.72	1.8	0.7	5.5	31432	4280	4880
	250	21.6	495	92.6(91.1)	0.72	1.8	0.7	5.5	35562	4380	4980
	280	24.2	495	92.8(91.3)	0.72	1.8	0.7	5.5	39657	4450	5050
	315	26.8	495	93.1(91.6)	0.73	1.8	0.7	5.5	44325	4550	5150
	355	30.1	494	93.2(91.8)	0.73	1.8	0.7	5.5	46472	4650	5250
	400	33.9	494	93.4(92.0)	0.73	1.8	0.7	5.5	52137	4750	5350
	450	38.1	494	93.5(92.2)	0.73	1.8	0.7	5.5	54288	4900	5500
560-12	500	42.1	494	93.9(92.5)	0.73	1.8	0.7	6.0	64473	5920	6600
	560	46.4	494	94.1(92.9)	0.74	1.8	0.7	6.0	61497	6120	6800
	630	52.1	494	94.3(93.1)	0.74	1.8	0.7	6.0	68889	6320	7000
	710	58.6	494	94.5(93.3)	0.74	1.8	0.7	6.0	77307	6520	7200
630-12	800	65.8	495	94.8(93.8)	0.74	1.8	0.7	6.0	71973	9200	10000
	900	74.1	495	94.8(93.8)	0.74	1.8	0.7	6.0	80969	9600	10400
	1000	82.3	495	94.8(93.8)	0.74	1.8	0.7	6.0	89966	10000	10800
	1120	92.2	495	94.8(93.8)	0.74	1.8	0.7	6.0	100762	10400	11200
710-12	1250	97.5	495	94.9(94.2)	0.78	1.8	0.6	6.0	78303	11600	12100
	1400	109.1	495	95.0(94.3)	0.78	1.8	0.6	6.0	87515	12100	12600
	1600	123.0	495	95.1(94.4)	0.79	1.8	0.6	6.0	99806	12500	13000
	1800	138.2	495	95.2(94.5)	0.79	1.8	0.6	6.0	112045	12900	13400
800-12	2000	151.5	495	95.3(94.6)	0.8	1.8	0.6	6	124232	16500	17100
	2240	169.5	495	95.4(94.7)	0.8	1.8	0.6	6	138847	17300	17900
	2500	184.3	495	95.5(94.8)	0.82	1.8	0.6	6	154638	18100	18700
900-12	2800	206.2	495	95.6(94.9)	0.82	1.8	0.6	6	172831	20200	21000
	3150	231.5	495	95.8(95.0)	0.82	1.8	0.6	6	221514	21000	21800
	3550	260.9	495	95.8(95.1)	0.82	1.8	0.6	6	218208	22200	23000
	4000	293.7	495	95.9(95.2)	0.82	1.8	0.6	6	245354	23000	23800
1000-12	4500	330	495	96.0(95.3)	0.82	1.8	0.6	6.0	275446	26400	27900
	5000	366	495	96.2(95.4)	0.82	1.8	0.6	6.0	348680	27600	29100
	5600	409	495	96.3(95.5)	0.82	1.8	0.6	6.0	389707	28800	30300
	6300	460	495	96.4(95.6)	0.82	1.8	0.6	6.0	437508	30600	32100

注：1.括号内数值为国家标准 3级能效值。
1.The value in brackets is the national standard grade 3 energy efficiency value.
2.年节电量为每年按8000h计算。
2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机

YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor



YXKK(IP44)、(IP54) 系列10kV技术数据

Technical Data for YXKK(IP44) and (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	额定 转速 Rated Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor ($\cos\phi$)	最大 转矩 Maximum Torque 额定 转矩 Rated Torque $\frac{T_M}{T_N}$	堵转 转矩 Locked rotor Torque 额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	堵转 电流 Locked rotor Current 额定 电流 Rated Current $\frac{I_{st}}{I_N}$	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)
400-2	220	15.9	2977	93.1(91.7)	0.86	1.8	0.6	7.0	28862	2850
	250	18.0	2976	93.2(91.9)	0.86	1.8	0.6	7.0	30356	2900
	280	20.1	2976	93.4(92.1)	0.86	1.8	0.6	7.0	33852	2900
	315	22.6	2975	93.7(92.5)	0.86	1.8	0.6	7.0	34890	3000
	355	25.0	2975	94.1(92.9)	0.87	1.8	0.6	7.0	38985	3130
	400	28.2	2974	94.3(93.2)	0.87	1.8	0.6	7.0	40051	3210
	450	31.6	2975	94.5(93.4)	0.87	1.8	0.6	7.0	44866	3340
	500	35.0	2979	94.7(93.6)	0.87	1.8	0.6	7.0	49639	3470
450-2	560	39.2	2979	94.8(93.7)	0.87	1.8	0.6	7.0	55478	4160
	630	44.1	2974	94.8(93.8)	0.87	1.8	0.6	7.0	56678	4340
	710	49.1	2974	94.9(94.0)	0.88	1.8	0.6	7.0	57305	4520
	800	55.2	2974	95.1(94.2)	0.88	1.8	0.6	7.0	64297	4700
	900	62.0	2975	95.2(94.3)	0.88	1.8	0.6	7.0	72181	4980
500-2	1000	68.8	2978	95.3(94.4)	0.88	1.8	0.6	7.0	80033	6150
	1120	77.0	2978	95.4(94.6)	0.88	1.8	0.6	7.0	79425	6350
	1250	84.7	2978	95.7(94.9)	0.89	1.8	0.6	7.0	88087	6550
	1400	94.8	2978	95.8(95.0)	0.89	1.8	0.6	7.0	98451	6750
560-2	1600	108.3	2981	95.8(95.1)	0.89	1.8	0.6	7.0	98347	8300
	1800	120.4	2982	95.9(95.2)	0.9	1.8	0.6	7.0	110409	8650
	2000	133.5	2984	96.1(95.4)	0.9	1.8	0.6	7.0	122165	9200
630-2	2240	149.2	2985	96.3(95.6)	0.9	1.8	0.6	7.0	136255	10800
	2500	166.5	2985	96.3(95.6)	0.9	1.8	0.6	7.0	152070	11150
	2800	186.5	2985	96.3(95.6)	0.9	1.8	0.6	7.0	170318	11500
	3150	209.6	2984	96.4(95.7)	0.9	1.8	0.6	7.0	191209	11850
710-2	3550	236.2	2987	96.4(95.7)	0.9	1.8	0.6	7.0	215490	15200
	4000	265.9	2987	96.5(95.8)	0.9	1.8	0.6	7.0	242301	15550
	4500	298.8	2987	96.6(95.9)	0.9	1.8	0.6	7.0	272022	15900
	5000	331.7	2988	96.7(96.0)	0.9	1.8	0.6	7.0	301620	16250

注：1.括号内数值为国家标准 3级能效值。

1.The value in brackets is the national standard grade 3 energy efficiency value.

2.年节电量为每年按8000h计算。

2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

► YXKK(IP44)、(IP54) 系列10kV技术数据
Technical Data for YXKK(IP44) and (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	额定 转速 Rated Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor (cosφ)	最大 转矩 Maximum Torque 额定 转矩 Rated Torque $\frac{T_M}{T_N}$	堵转 转矩 Locked -rotor Torque 额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	堵转 电流 Locked -rotor Current 额定 电流 Rated Current $\frac{I_{st}}{I_N}$	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)
400-4	220	16.1	1487	92.0(90.2)	0.86	2.0	0.8	7.0	38176	2790
	250	18.2	1487	92.4(90.6)	0.86	2.0	0.8	7.0	43003	2830
	280	20.3	1486	92.6(90.8)	0.86	2.0	0.8	7.0	47954	2920
	315	22.2	1486	93.1(91.4)	0.88	2.0	0.8	7.0	50345	3020
	355	24.9	1485	93.6(92.1)	0.88	2.0	0.8	7.0	49417	3100
	400	28.0	1485	93.7(92.2)	0.88	2.0	0.8	7.0	55561	3200
	450	31.4	1486	94.1(92.7)	0.88	2.0	0.8	7.0	57778	3280
	500	34.8	1486	94.2(92.8)	0.88	2.0	0.8	7.0	64060	3360
450-4	560	38.9	1488	94.4(93.0)	0.88	2.0	0.8	7.0	71442	3950
	630	43.7	1488	94.6(93.3)	0.88	2.0	0.8	7.0	74234	4130
	710	49.0	1489	95.0(93.8)	0.88	2.0	0.8	7.0	76490	4310
	800	55.1	1489	95.2(94.0)	0.88	2.0	0.8	7.0	85822	4490
500-4	900	61.3	1489	95.3(94.1)	0.89	2.0	0.8	7.0	96345	5250
	1000	68.0	1489	95.4(94.3)	0.89	2.0	0.8	7.0	97819	5500
	1120	76.1	1489	95.5(94.4)	0.89	2.0	0.8	7.0	109326	5750
	1250	84.7	1489	95.7(94.6)	0.89	2.0	0.8	7.0	121504	5900
560-4	1400	94.8	1491	95.8(94.7)	0.89	2.0	0.8	7.0	135799	7100
	1600	108.2	1492	95.9(94.9)	0.89	2.0	0.8	7.0	140645	7400
	1800	121.6	1492	96.0(95.0)	0.89	2.0	0.8	7.0	157895	7700
630-4	2000	134.9	1492	96.2(95.3)	0.89	2.0	0.8	7.0	157070	10400
	2240	150.9	1492	96.3(95.4)	0.89	2.0	0.8	7.0	175552	10800
	2500	168.4	1492	96.3(95.4)	0.89	2.0	0.8	7.0	195929	11200
	2800	188.6	1492	96.3(95.4)	0.89	2.0	0.8	7.0	219440	11600
710-4	3150	216.8	1492	96.4(95.7)	0.87	1.8	0.5	6.5	191210	13900
	3550	244.1	1492	96.5(95.8)	0.87	1.8	0.5	6.5	215042	14600
	4000	275.1	1492	96.5(95.9)	0.87	1.8	0.5	6.5	207470	15300
	4500	309.5	1492	96.5(96.0)	0.87	1.8	0.5	6.5	194301	15600
800-4	5000	343.5	1494	96.6(96.0)	0.87	1.8	0.5	6.5	258827	21000
	5600	384.3	1494	96.7(96.1)	0.87	1.8	0.5	6.5	289200	21700

注：1.括号内数值为国家标准 3级能效值。
1.The value in brackets is the national standard grade 3 energy efficiency value.
2.年节电量为每年按8000h计算。
2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机

YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor



► YXKK(IP44)、(IP54) 系列10kV技术数据

Technical Data for YXKK(IP44) and (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	额定 转速 Rated Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor (cosφ)	最大 转矩 Maximum Torque 额定 转矩 Rated Torque $\frac{T_M}{T_N}$	堵转 转矩 Locked -rotor Torque 额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	堵转 电流 Locked -rotor Current 额定 电流 Rated Current $\frac{I_{st}}{I_N}$	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)
400-6	220	16.7	989	92.5(90.7)	0.82	2.0	0.8	6.5	37760	2830
	250	19.0	988	92.8(91.1)	0.82	2.0	0.8	6.5	40217	2890
	280	20.9	988	93.0(91.3)	0.83	2.0	0.8	6.5	44848	2980
	315	23.5	988	93.3(91.7)	0.83	2.0	0.8	6.5	47127	3100
	355	26.4	988	93.5(92.0)	0.83	2.0	0.8	6.5	49523	3200
450-6	400	29.3	989	93.7(92.2)	0.84	2.0	0.8	6.5	55561	3600
	450	33.0	989	93.8(92.3)	0.84	2.0	0.8	6.5	62372	3720
	500	36.4	989	94.3(92.9)	0.84	2.0	0.8	6.5	63924	3840
	560	40.8	989	94.4(93.0)	0.84	2.0	0.8	6.5	71442	3960
500-6	630	44.7	992	94.7(93.5)	0.86	2.0	0.8	7.0	68305	4800
	710	50.3	992	94.8(93.6)	0.86	2.0	0.8	7.0	76815	5050
	800	56.5	992	95.0(93.8)	0.86	2.0	0.8	7.0	86186	5300
	900	63.5	992	95.2(94.0)	0.86	2.0	0.8	7.0	96549	5550
560-6	1000	69.6	993	95.3(94.1)	0.87	2.0	0.8	7.0	107051	7000
	1120	77.8	993	95.5(94.4)	0.87	2.0	0.8	7.0	109326	7300
	1250	86.7	993	95.7(94.6)	0.87	2.0	0.8	7.0	121504	7600
	1400	96.9	993	95.9(94.9)	0.87	2.0	0.8	7.0	123065	7900
630-6	1600	110.6	994	96.0(95.0)	0.87	2.0	0.8	7.0	140351	10550
	1800	124.4	994	96.0(95.0)	0.87	2.0	0.8	7.0	157895	10950
	2000	138.3	994	96.0(95.0)	0.87	2.0	0.8	7.0	175439	11350
	2240	154.9	994	96.1(95.1)	0.87	2.0	0.8	7.0	196080	11750
710-6	2500	174.6	994	96.1(95.4)	0.86	1.8	0.6	6.5	152706	13700
	2800	195.4	994	96.2(95.5)	0.86	1.8	0.6	6.5	170674	14500
	3150	219.8	994	96.2(95.6)	0.86	1.8	0.6	6.5	164406	15200
	3550	247.2	994	96.4(95.7)	0.86	1.8	0.6	6.5	215490	15600
800-6	4000	278.3	995	96.5(95.8)	0.86	1.8	0.6	6.5	242301	20100
	4500	313.1	995	96.5(95.9)	0.86	1.8	0.6	6.5	233404	20800
	5000	343.9	995	96.5(96.0)	0.87	1.8	0.6	6.5	215889	21600
900-6	5600	384.7	995	96.6(96.0)	0.87	1.8	0.6	6.5	289855	25100
	6300	432.4	995	96.7(96.1)	0.87	1.8	0.6	6.5	325411	26000
	7100	486.8	995	96.8(96.1)	0.87	1.8	0.6	6.5	365973	26900

注：1.括号内数值为国家标准 3级能效值。

1.The value in brackets is the national standard grade 3 energy efficiency value.

2.年节电量为每年按8000h计算。

2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

► YXKK(IP44)、(IP54) 系列10kV技术数据
Technical Data for YXKK(IP44) and (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	额定 转速 Rated Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor (COSΦ)	最大 转矩 Maximum Torque 额定 转矩 Rated Torque $\frac{T_M}{T_N}$	堵转 转矩 Locked -rotor Torque 额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	堵转 电流 Locked -rotor Current 额定 电流 Rated Current $\frac{I_{st}}{I_N}$	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)
1000-6	8000	548	995	96.9(96.2)	0.87	1.8	0.6	6.5	549823	33800
	9000	616	995	97.0(96.2)	0.87	1.8	0.6	6.5	617271	34500
	10000	683	995	97.2(96.3)	0.87	1.8	0.6	6.5	769201	35800
	11200	765	995	97.2(96.3)	0.87	1.8	0.6	6.5	861505	37100
450-8	220	18.1	744	92.5(90.7)	0.76	2.0	0.8	6.0	37760	3770
	250	20.0	744	92.7(91.0)	0.78	2.0	0.8	6.0	40305	3870
	280	22.3	744	93.0(91.3)	0.78	2.0	0.8	6.0	44848	3970
	315	25.0	744	93.3(91.7)	0.78	2.0	0.8	6.0	47127	4070
	355	28.0	743	93.7(92.2)	0.78	2.0	0.8	6.0	49310	4190
	400	31.6	743	93.8(92.3)	0.78	2.0	0.8	6.0	55442	4290
500-8	450	34.6	744	93.9(92.4)	0.80	2.0	0.8	6.0	62238	4600
	500	38.2	744	94.4(93.0)	0.80	2.0	0.8	6.0	63787	4850
	560	42.8	744	94.5(93.1)	0.80	2.0	0.8	6.0	71289	5100
	630	47.9	744	94.9(93.6)	0.80	2.0	0.8	6.0	73762	5350
560-8	710	52.6	744	95.0(93.8)	0.82	2.0	0.8	6.0	76490	7120
	800	59.2	744	95.2(94.0)	0.82	2.0	0.8	6.0	85822	7420
	900	66.5	744	95.3(94.1)	0.82	2.0	0.8	6.0	96345	7720
	1000	73.7	744	95.5(94.4)	0.82	2.0	0.8	6.0	97613	8020
630-8	1120	82.5	745	95.6(94.5)	0.82	2.0	0.8	6.0	109097	9350
	1250	89.8	745	95.7(94.6)	0.84	2.0	0.8	6.0	121504	9700
	1400	100.4	745	95.8(94.7)	0.84	2.0	0.8	6.0	135799	9950
	1600	114.8	745	95.8(94.7)	0.84	2.0	0.8	6.0	155198	10300
710-8	1800	129.1	745	95.8(94.9)	0.84	2.0	0.7	6.5	142552	13500
	2000	143.5	745	95.8(95.0)	0.84	2.0	0.7	6.5	140644	14000
	2240	160.5	745	95.9(95.1)	0.84	2.0	0.7	6.5	157191	14600
	2500	176.9	745	96.0(95.2)	0.85	2.0	0.7	6.5	175070	15000
800-8	2800	197.9	745	96.1(95.3)	0.85	1.8	0.6	6.5	195669	18700
	3150	222.6	745	96.1(95.4)	0.85	1.8	0.6	6.5	192410	19500
	3550	250.4	745	96.3(95.5)	0.85	1.8	0.6	6.5	247046	19700
900-8	4000	281.8	745	96.4(95.6)	0.85	1.8	0.6	6.5	277783	24500
	4500	316.8	745	96.5(95.7)	0.85	1.8	0.6	6.5	311855	25300
	5000	347.5	745	96.6(95.8)	0.86	1.8	0.6	6.5	345786	25700
	5600	388.4	745	96.8(95.9)	0.86	1.8	0.6	6.5	434337	26600

注：1.括号内数值为国家标准 3级能效值。
1.The value in brackets is the national standard grade 3 energy efficiency value.
2.年节电量为每年按8000h计算。
2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机

YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor



► YXKK(IP44)、(IP54) 系列10kV技术数据

Technical Data for YXKK(IP44) and (IP54) Series (10kV)

型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	额定 转速 Rated Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor ($\cos\phi$)	最大 转矩 Maximum Torque 额定 转矩 Rated Torque $\frac{T_M}{T_N}$	堵转 转矩 Locked rotor Torque 额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	堵转 电流 Locked rotor Current 额定 电流 Rated Current $\frac{I_{st}}{I_N}$	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)
1000-8	6300	437	745	96.8(96.0)	0.86	1.8	0.6	6.5	433884	32000
	7100	486	745	96.9(96.1)	0.87	1.8	0.6	6.5	487968	33200
	8000	547	745	97.0(96.2)	0.87	1.8	0.6	6.5	548685	35000
	9000	614	745	97.0(96.2)	0.87	1.8	0.6	6.5	617271	36800
1120-8	10000	683	745	97.1(96.3)	0.87	1.8	0.6	6.5	684439	41500
	11200	765	745	97.1(96.3)	0.87	1.8	0.6	6.5	766571	43500
	12500	854	745	97.1(96.3)	0.87	1.8	0.6	6.5	855548	45500
450-10	220	19.6	595	92.4(90.6)	0.70	2.0	0.8	5.5	37843	4250
	250	22.3	594	92.6(90.8)	0.70	2.0	0.8	5.5	42816	4400
	280	24.2	594	92.9(91.2)	0.72	2.0	0.8	5.5	44946	4550
	315	27.1	594	93.2(91.6)	0.72	2.0	0.8	5.5	47229	4700
500-10	355	30.4	593	93.5(92.0)	0.72	2.0	0.8	5.5	49523	5100
	400	34.3	593	93.6(92.1)	0.72	2.0	0.8	5.5	55681	5350
	450	35.5	592	93.8(92.3)	0.78	2.0	0.8	5.5	62372	5600
	500	39.4	592	94.0(92.5)	0.78	2.0	0.8	5.5	69005	5850
	560	44.0	592	94.1(92.6)	0.78	2.0	0.8	5.5	77120	6100
560-10	630	49.5	594	94.3(92.9)	0.78	2.0	0.8	5.5	80544	6650
	710	55.6	594	94.5(93.1)	0.78	2.0	0.8	5.5	90385	6950
	800	62.4	594	94.9(93.6)	0.78	2.0	0.8	5.5	93666	7250
	900	70.0	594	95.1(93.9)	0.78	2.0	0.8	5.5	96754	7550
630-10	1000	77.8	595	95.1(93.9)	0.78	2.0	0.8	5.5	107504	10300
	1120	84.9	595	95.2(94.0)	0.80	2.0	0.8	5.5	120150	10600
	1250	94.7	595	95.3(94.1)	0.80	2.0	0.8	5.5	133813	10900
	1400	106.0	595	95.3(94.1)	0.80	2.0	0.8	5.5	149870	11200
710-10	1400	104.7	596	95.3(94.4)	0.81	2.0	0.7	6.0	112046	12400
	1600	119.7	596	95.3(94.5)	0.81	2.0	0.7	6.0	113704	12700
	1800	134.5	596	95.4(94.6)	0.81	2.0	0.7	6.0	127648	13200
	2000	147.5	596	95.5(94.7)	0.82	2.0	0.7	6.0	141533	13600
800-10	2240	165.0	595	95.6(94.8)	0.82	1.8	0.6	6.0	158184	18900
	2500	183.9	595	95.7(94.9)	0.82	1.8	0.6	6.0	176179	20000
	2800	203.3	595	95.8(95.0)	0.83	1.8	0.6	6.0	196901	20500
	3150	228.5	595	95.9(95.1)	0.83	1.8	0.6	6.0	221050	20200
900-10	3550	257	595	96.1(95.1)	0.83	1.8	0.6	6.0	279383	24200
	4000	289.2	595	96.2(95.2)	0.83	1.8	0.6	6.0	314141	25100
	4500	325.4	595	96.2(95.3)	0.83	1.8	0.6	6.0	313812	26000

注：1.括号内数值为国家标准 3级能效值。

1.The value in brackets is the national standard grade 3 energy efficiency value.

2.年节电量为每年按8000h计算。

2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

► YXKK(IP44)、(IP54) 系列10kV技术数据
Technical Data for YXKK(IP44) and (IP54) Series (10kV)

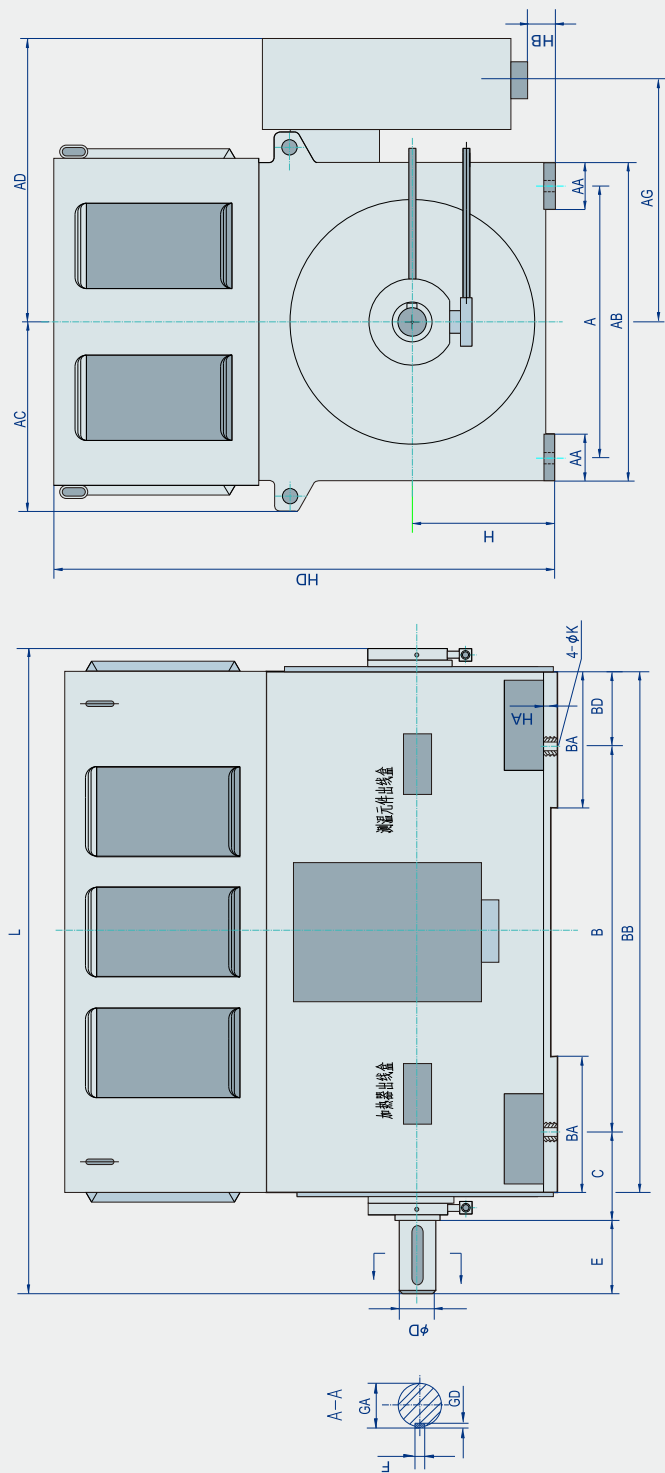
型 号 Type	额定 功率 Rated Power (kW)	定子 电流 Stator Current (A)	额定 转速 Rated Speed (r/min)	效 率 Efficiency (%)	功率 因数 Power Factor (COSΦ)	最大 转矩 Maximum Torque 额定 转矩 Rated Torque $\frac{T_M}{T_N}$	堵转 转矩 Locked -rotor Torque 额定 转矩 Rated Torque $\frac{T_{st}}{T_N}$	堵转 电流 Locked -rotor Current 额定 电流 Rated Current $\frac{I_{st}}{I_N}$	年节 电量 Annual Capacity of Electricity Saving (kWh)	重 量 Weight (Kg)
1000-10	5000	361	595	96.3(95.5)	0.83	1.8	0.6	6.0	347953	33000
	5600	404	595	96.5(95.6)	0.83	1.8	0.6	6.0	437054	34200
	6300	443	595	96.6(95.7)	0.85	1.8	0.6	6.0	490664	35400
1120-10	7100	499	595	96.6(95.7)	0.85	1.8	0.6	6.0	552970	43000
	8000	562	595	96.7(95.8)	0.85	1.8	0.6	6.0	621771	45000
	9000	632	595	96.7(95.8)	0.85	1.8	0.6	6.0	699492	46400
500-12	220	19.7	496	92.2(90.4)	0.70	2.0	0.8	5.5	38009	5500
	250	22.3	496	92.4(90.6)	0.70	2.0	0.8	5.5	43003	5570
	280	24.2	495	92.6(90.8)	0.72	2.0	0.8	5.5	47954	5670
	315	27.2	495	93.0(91.3)	0.72	2.0	0.8	5.5	50454	5770
	355	30.5	495	93.2(91.6)	0.72	2.0	0.8	5.5	53226	5870
	400	34.3	495	93.4(91.8)	0.72	2.0	0.8	5.5	59714	6020
560-12	450	38.6	495	93.5(92.0)	0.72	2.0	0.8	5.5	62776	6850
	500	42.7	495	93.9(92.4)	0.72	2.0	0.8	5.5	69153	7050
	560	46.4	494	94.1(92.6)	0.74	2.0	0.8	5.5	77120	7300
	630	52.1	494	94.3(92.9)	0.74	2.0	0.8	5.5	80544	7550
630-12	710	58.6	496	94.5(93.1)	0.74	2.0	0.8	5.5	90385	10150
	800	65.8	496	94.8(93.5)	0.74	2.0	0.8	5.5	93865	10450
	900	74.1	496	94.8(93.5)	0.74	2.0	0.8	5.5	105598	10750
	1000	82.3	496	94.8(93.5)	0.74	2.0	0.8	5.5	117331	11050
710-12	1120	88.6	496	94.8(93.9)	0.77	2.0	0.7	6.0	90589	12500
	1250	97.5	496	94.9(94.0)	0.78	2.0	0.7	6.0	100890	13000
	1400	109.1	496	95.0(94.1)	0.78	2.0	0.7	6.0	112758	13400
	1600	123.0	496	95.1(94.2)	0.79	2.0	0.7	6.0	128594	13800
800-12	1800	138.2	495	95.2(94.3)	0.79	1.8	0.6	6.0	144363	18500
	2000	153.2	495	95.4(94.4)	0.79	1.8	0.6	6.0	177664	19200
	2240	169.3	495	95.5(94.5)	0.8	1.8	0.6	6.0	198565	19900
900-12	2500	188.7	495	95.6(94.6)	0.8	1.8	0.6	6.0	221147	24700
	2800	208.6	495	95.7(94.7)	0.81	1.8	0.6	6.0	247165	25400
	3150	234.4	495	95.8(94.8)	0.81	1.8	0.6	6.0	277477	26700
	3550	264.1	495	95.8(94.9)	0.81	1.8	0.6	6.0	281144	27600
1000-12	4000	297	495	95.9(95.0)	0.81	1.8	0.6	6.0	316119	30500
	4500	330	495	96.0(95.1)	0.82	1.8	0.6	6.0	354890	31700
	5000	366	495	96.1(95.2)	0.82	1.8	0.6	6.0	393498	32900
	5600	410	495	96.2(95.3)	0.82	1.8	0.6	6.0	439797	34700

注：1.括号内数值为国家标准 3级能效值。
1.The value in brackets is the national standard grade 3 energy efficiency value.
2.年节电量为每年按8000h计算。
2. Annual capacity of electricity saving is calculated according to 8000h/year.

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor



► YX系列10KV异步电动机（机座号400-630）外形及安装尺寸图
Outline Drawings and Mounting Dimensions for YX Series 10kV Asynchronous Motor (Frame No.400-630)

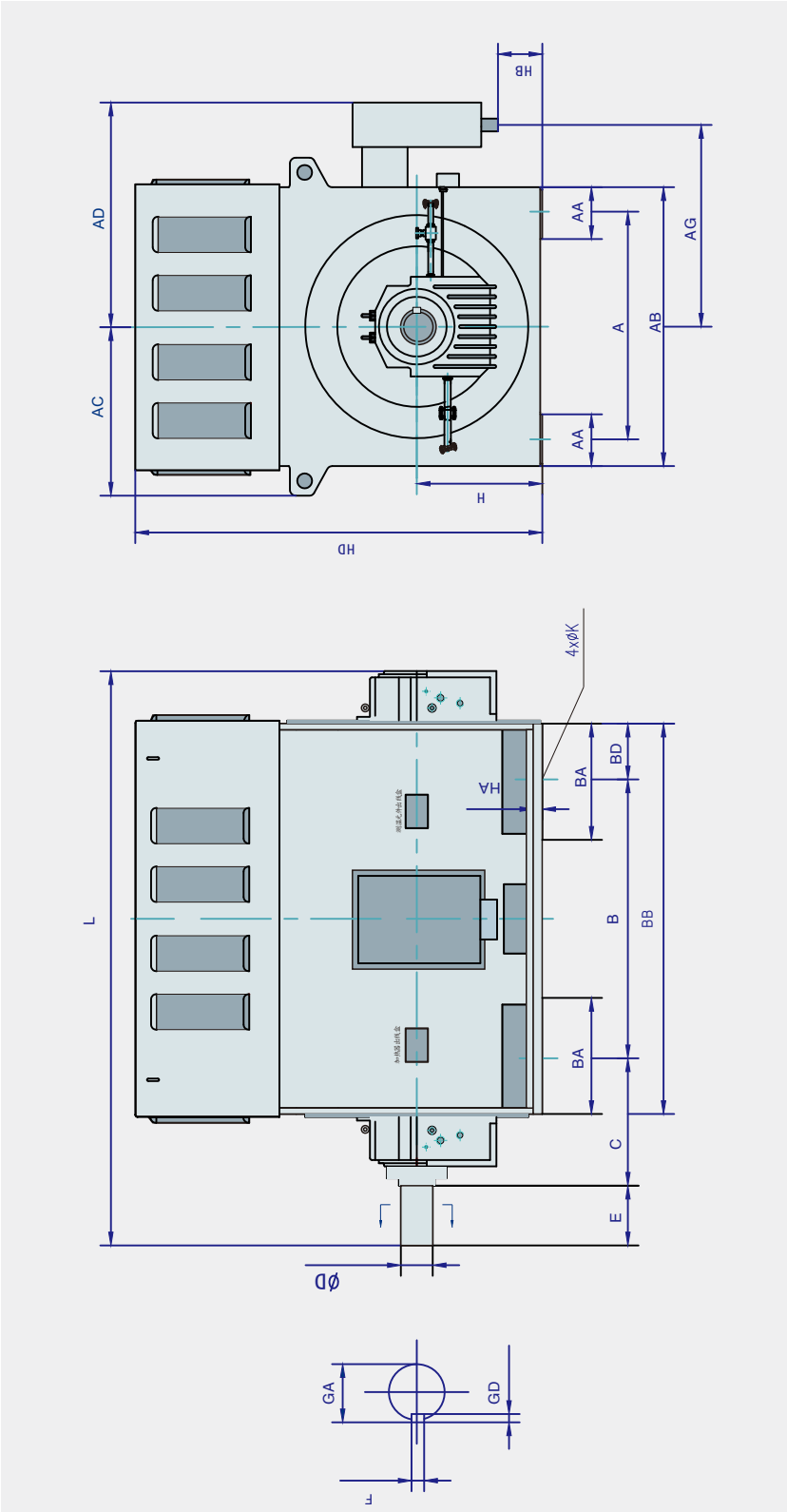


机座号 Frame No.		安装尺寸及公差 Mounting dimensions										外形尺寸 Overall dimensions											
No. of pole		A	B	C	D	E	F	GA	GD	H	K	AA	AB	AC	AD	AG	BA	BB	BD	HA	HB	HD	L
400	2	710±1.75	1000±1.75	375±4	Ø90 ^{+0.035 +0.013}	170±0.50	25	95	14	400 ^{0 -1.0}	Ø35 ^{0 -0.02}	165	900	550	1060	775	510	1580	310	38	55	1280	1950
	4~6			355±4	Ø110 ^{+0.035 +0.013}	210±0.57	28	116	16			255					400	1520	300	30	50	1350	1930
450	2	800±1.75	1120±1.75	400±4	Ø90 ^{+0.035 +0.013}	170±0.50	25	95	14	450 ^{0 -1.0}	Ø35 ^{0 -0.02}	165	1000	600	1100	820	550	1720	335	42	50	1420	2120
	4~10			355±4	Ø110 ^{+0.035 +0.013}	210±0.57	28	116	16			150					500	1680	300	35		1400	2070
500	4	900±2.10	1250±2.10	475±4	Ø120 ^{+0.035 +0.013}	210±0.57		127	18	500 ^{0 -1.0}	Ø42 ^{0 -0.02}	165	1120	660	1170	880	500	1810	180	35	160	1560	2210
	6~12				Ø130 ^{+0.040 +0.015}	250±0.57	32	137	18													2250	
560	4	1000±2.10	1400±2.10	500±4	Ø150 ^{+0.040 +0.015}	250±0.57	36	158	20	560 ^{0 -1.0}	Ø42 ^{0 -0.02}	190	1240	740	1230	940	600	2010	230	40	250	1690	2470
	6~12				Ø160 ^{+0.040 +0.015}	300±0.65	40	169	22													2520	
630	4	1120±2.10	1600±2.10	530±4	Ø170 ^{+0.040 +0.015}	300±0.65	40	179	22	630 ^{0 -1.0}	Ø48 ^{0 -0.02}	250	1400	840	1310	1020	640	2210	205	53	350	1930	2740
	6~12				Ø180 ^{+0.040 +0.015}		45	190	25														

注：H560-2 和 H630-2为滑动轴承。

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

YX系列10KV异步电动机（机座号500-710）外形及安装尺寸图
Outline Drawings and Mounting Dimensions for YX Series 10kV Asynchronous Motor (Frame No.500-710)

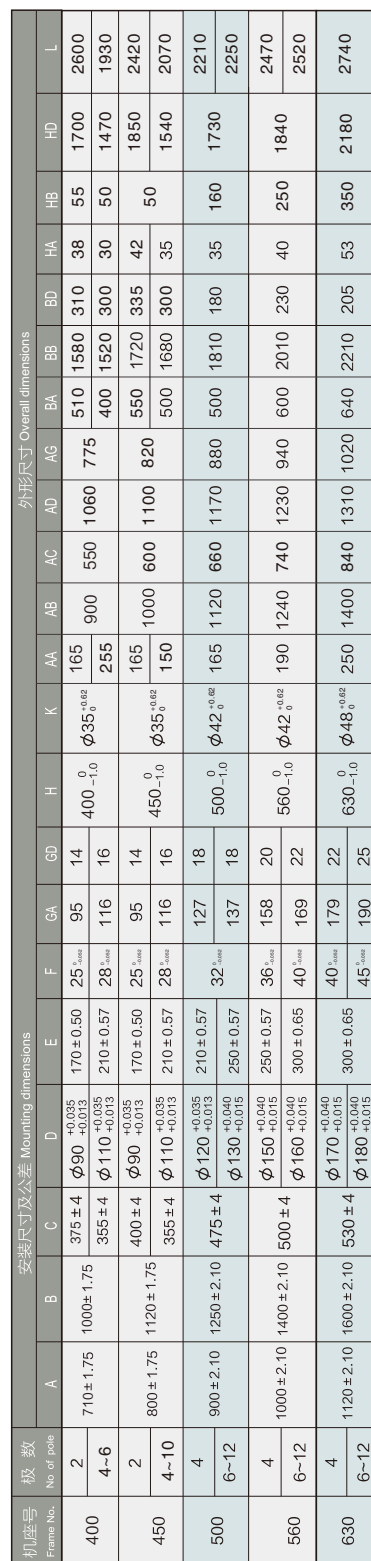


机座号 Frame No.	极数 No. of pole	安装尺寸及公差 Mounting dimensions										外形尺寸 Overall dimensions											
		A	B	C	D	E	F	GA	GD	H	K	AA	AB	AC	AD	AG	BA	BB	BD	HA	HB	HD	L
500	2	900 ± 2.1	1250 ± 2.1	560 ± 4.0	100 ^{+0.035} _{-0.013}	210 ± 0.57	28	106	16	500 ⁰ _{-1.5}	42	175	1120	660	1170	880	600	1880	350	42	180	1570	2600
560	2	1000 ± 2.1	1400 ± 2.1	560 ± 4.0	130 ^{+0.040} _{-0.015}	250 ± 0.57	32	137	18	560 ⁰ _{-1.5}	42	205	1260	760	1250	950	600	1990	295	47	250	1900	2760
630	2	1120 ± 2.1	1600 ± 2.1	560 ± 4.0	140 ^{+0.040} _{-0.015}	250 ± 0.57	36	148	20	630 ⁰ _{-1.5}	48	250	1400	840	1290	1020	700	2100	250	52	380	1960	2920
710	2	1400 ± 2.1	1800 ± 2.1	560 ± 4.0	170 ^{+0.040} _{-0.015}	300 ± 0.57	40	179	22	710 ⁰ _{-1.5}	56	280	1600	930	1390	1120	650	2240	220	72	400	2360	3180

YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

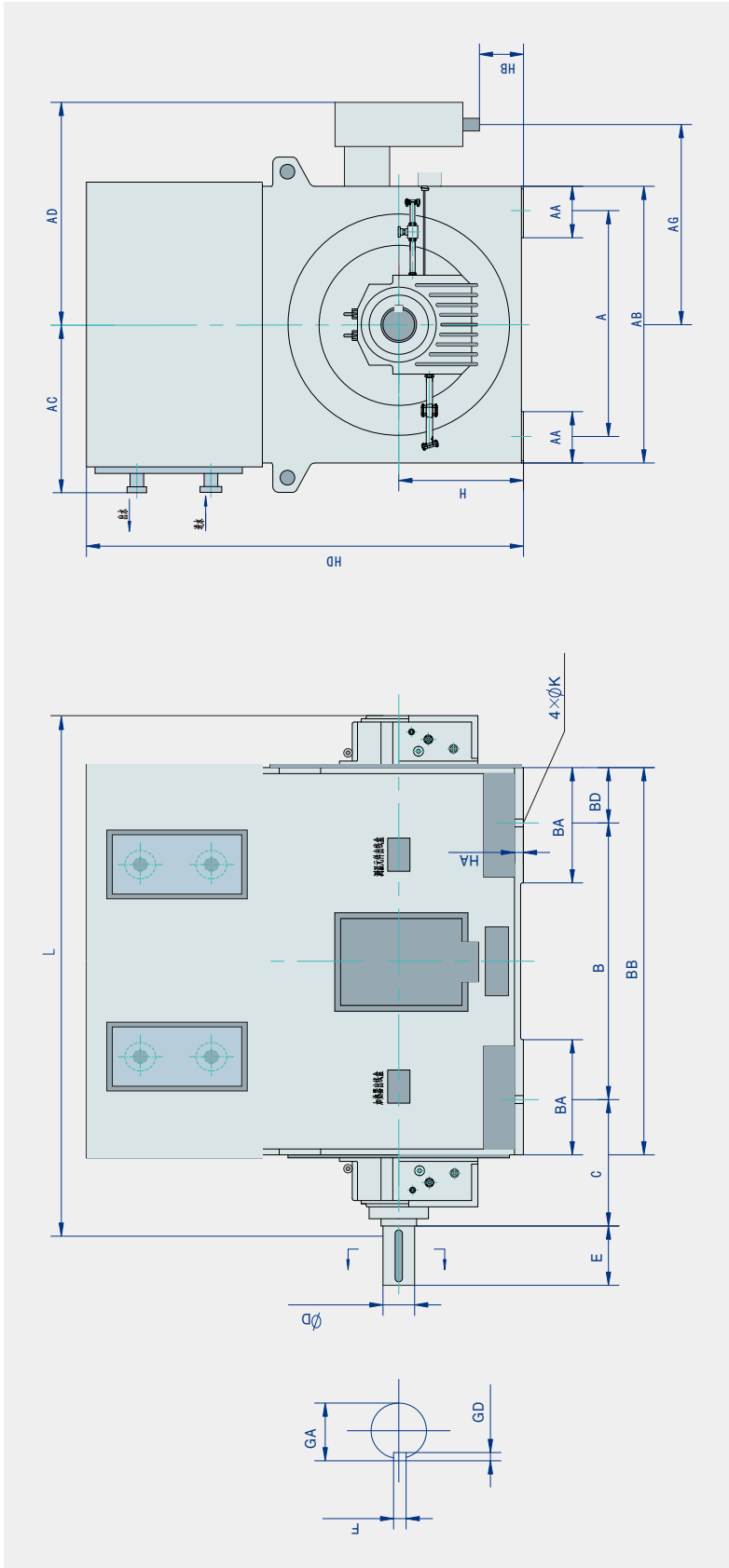


Outline Drawings and Mounting Dimensions for YXKS Series 10kV Asynchronous Motor (Frame No.400-630)



YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

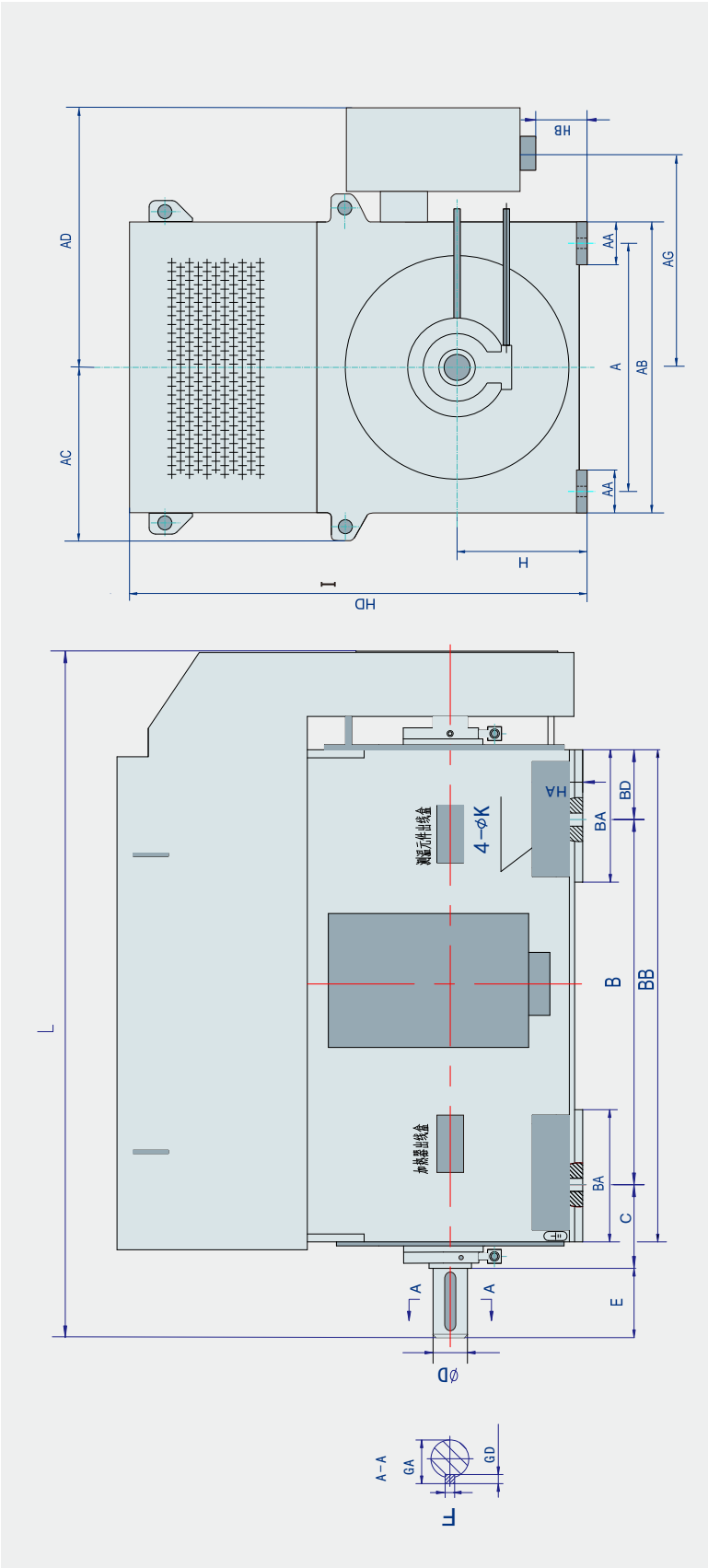
► YXKS系列10KV异步电动机（机座号500-710）外形及安装尺寸图
Outline Drawings and Mounting Dimensions for YXKS Series 10kV Asynchronous Motor (Frame No.500-710)



机座号 Frame No.	极数 No of pole	安装尺寸及公差 Mounting dimensions										外形尺寸 Overall dimensions											
		A	B	C	D	E	F	GA	GD	H	K	AA	AB	AC	AD	AG	BA	BB	BD	HA	HD	L	
500	2	900 ± 2.1	1250 ± 2.1	560 ± 4.0	100 ^{+0.035} _{-0.013}	210 ± 0.57	28	106	16	500 ⁰ _{-1.5}	42	175	1120	760	1170	880	600	1880	350	42	180	1780	2600
560	2	1000 ± 2.1	1400 ± 2.1	560 ± 4.0	130 ^{+0.040} _{-0.015}	250 ± 0.57	32	137	18	560 ⁰ _{-1.5}	42	205	1260	820	1250	950	600	1990	295	47	250	2020	2760
630	2	1120 ± 2.1	1600 ± 2.1	560 ± 4.0	140 ^{+0.040} _{-0.015}	250 ± 0.57	36	148	20	630 ⁰ _{-1.5}	48	250	1400	870	1290	1020	700	2100	250	52	380	2210	2920
710	2	1400 ± 2.1	1800 ± 2.1	560 ± 4.0	170 ^{+0.040} _{-0.015}	300 ± 0.57	40	179	22	710 ⁰ _{-1.5}	56	280	1600	980	1390	1120	650	2240	220	72	400	2600	3180

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

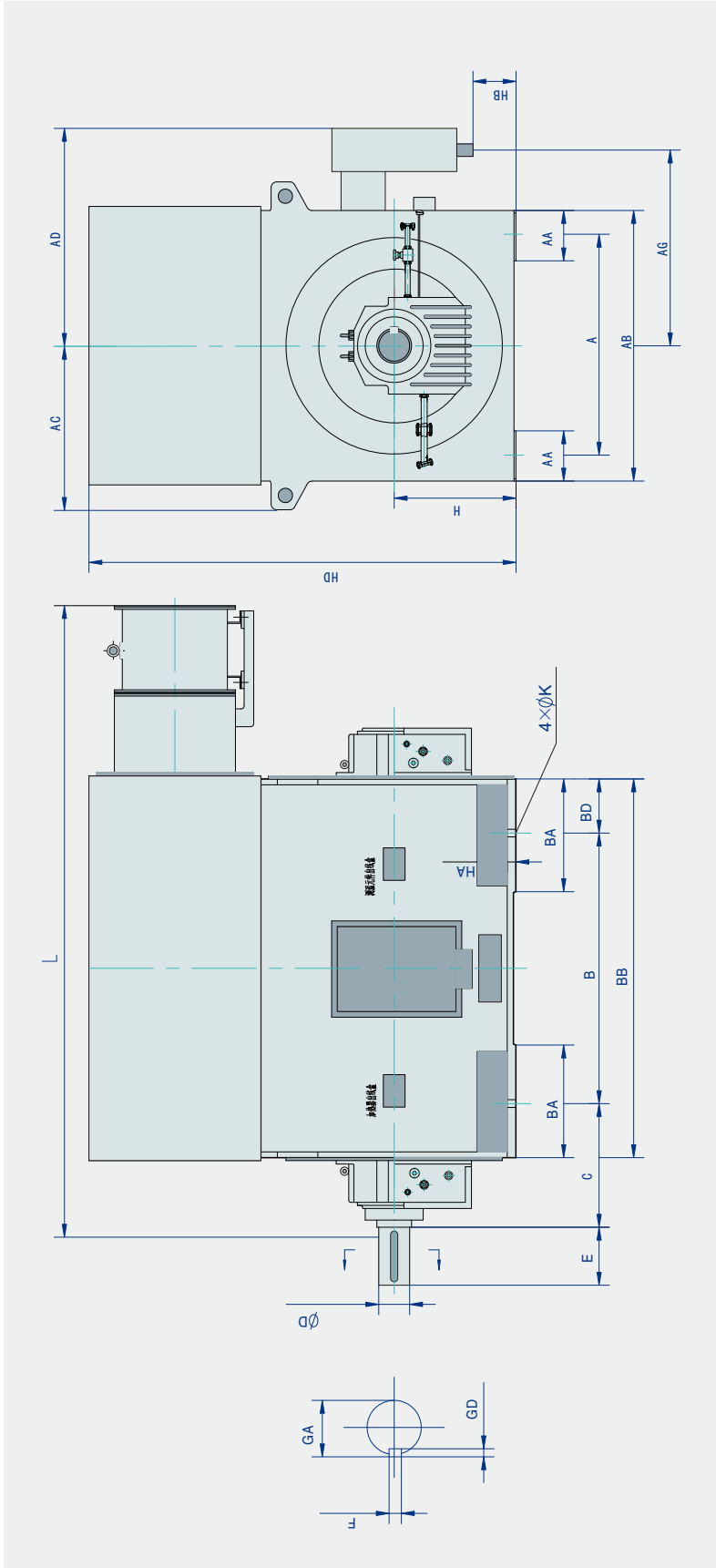
►YXKK系列10KV异步电动机（机座号400-630）外形及安装尺寸图
Outline Drawings and Mounting Dimensions for YXKK Series 10kV Asynchronous Motor (Frame No.400-630)



机座号 Frame No.	极 数 No. of pole	安装尺寸及公差 Mounting dimensions								外形尺寸 Overall dimensions													
		A	B	C	D	E	F	GA	GD	H	K	AA	AB	AC	AD	AG	BA	BB	BD	HA	HB	HD	L
400	2	710±1.75	1000±1.75	375±4	φ90 ^{+0.035 -0.013}	170±0.50	25 ^{0.035 -0.052}	95	14	400 ^{0 -1.0}	φ35 ^{-0.02}	165	900	550	1060	775	510	1580	310	38	55	1700	2600
	4~6			355±4	φ110 ^{+0.035 -0.013}	210±0.57	28 ^{0.035 -0.052}	116	16			255					400	1520	300	30	50	1550	2210
450	2	800±1.75	1120±1.75	400±4	φ90 ^{+0.035 -0.013}	170±0.50	25 ^{0.035 -0.052}	95	14	450 ^{0 -1.0}	φ35 ^{-0.02}	165	1000	600	1100	820	550	1720	335	42	50	1850	2420
	4~10			355±4	φ110 ^{+0.035 -0.013}	210±0.57	28 ^{0.035 -0.052}	116	16			150					500	1680	300	35		1560	2360
500	4	900±2.10	1250±2.10	475±4	φ120 ^{+0.035 -0.013}	210±0.57	32 ^{0.035 -0.052}	127	18	500 ^{0 -1.0}	φ42 ^{-0.02}	165	1120	660	1170	880	500	1810	180	35	160	1760	2510
	6~12				φ130 ^{+0.035 -0.013}	280±0.57	36 ^{0.035 -0.052}	137	18													2560	
560	4	1000±2.10	1400±2.10	500±4	φ150 ^{+0.035 -0.013}	250±0.57	36 ^{0.035 -0.052}	158	20	560 ^{0 -1.0}	φ42 ^{-0.02}	190	1240	740	1230	940	600	2010	230	40	250	2180	2850
	6~12				φ160 ^{+0.035 -0.013}	300±0.65	40 ^{0.035 -0.052}	169	22													2900	
630	4	1120±2.10	1600±2.10	530±4	φ170 ^{+0.035 -0.013}	300±0.65	40 ^{0.035 -0.052}	179	22	630 ^{0 -1.0}	φ48 ^{-0.02}	250	1400	840	1310	1020	640	2210	205	53	350	2510	3230
	6~12				φ180 ^{+0.035 -0.013}		45 ^{0.035 -0.052}	190	25														3170

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

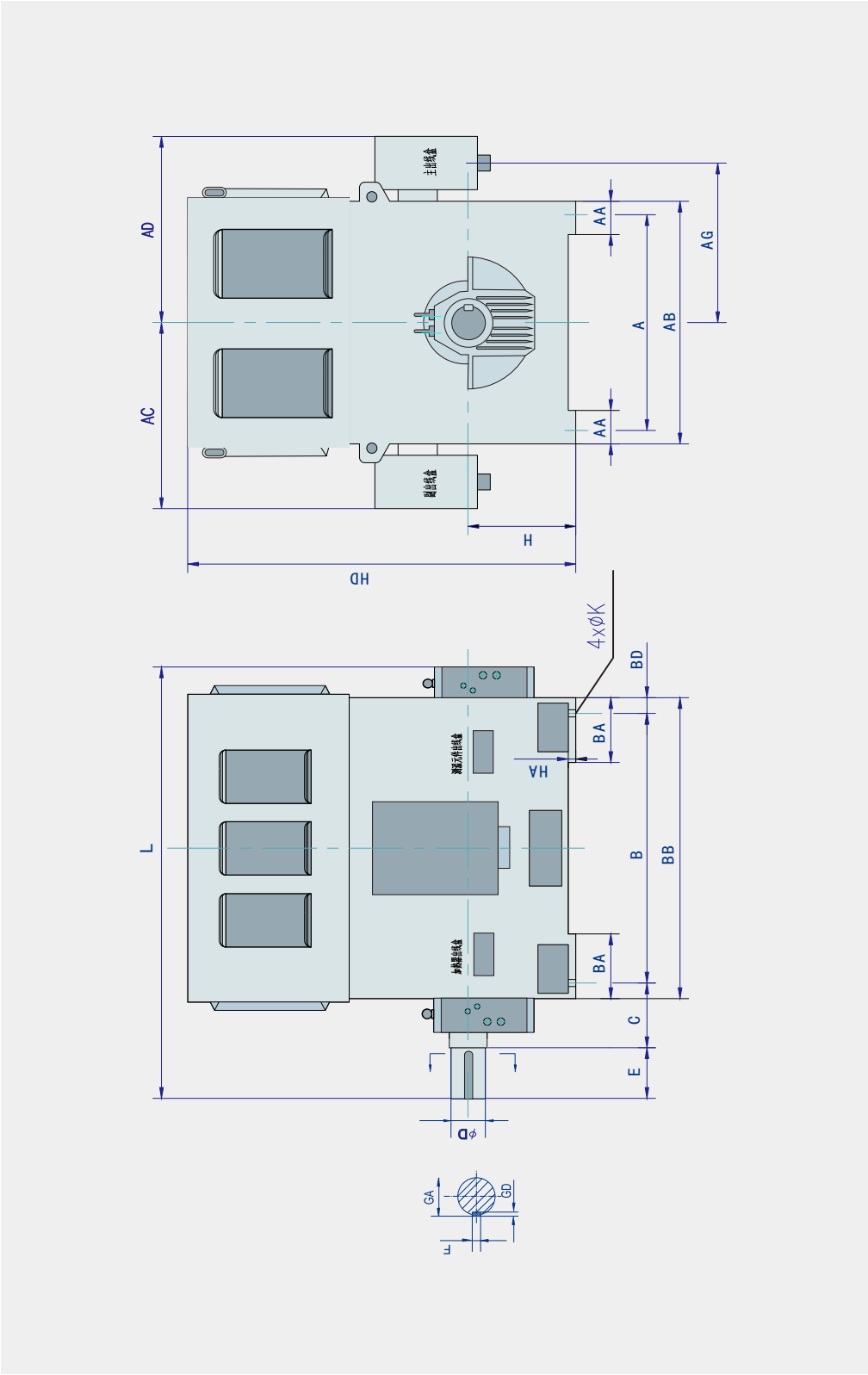
► YXKK系列10KV异步电动机（机座号500-710）外形及安装尺寸图
Outline Drawings and Mounting Dimensions for YXKK Series 10kV Asynchronous Motor (Frame No.500-710)



机座号 Frame No.	极 数 No. of pole	安装尺寸及公差 Mounting dimensions										外形尺寸 Overall dimensions											
		A	B	C	D	E	F	GA	GD	H	K	AA	AB	AC	AD	AG	BA	BB	BD	HA	HB	HD	L
500	2	900 ± 2.1	1250 ± 2.1	560 ± 4.0	100 ^{+0.035} _{-0.013}	210 ± 0.57	28	106	16	500 ⁰ _{-1.5}	42	175	1120	660	1170	880	600	1880	350	42	180	2070	3300
560	2	1000 ± 2.1	1400 ± 2.1	560 ± 4.0	130 ^{+0.040} _{-0.015}	250 ± 0.57	32	137	18	560 ⁰ _{-1.5}	42	205	1260	760	1250	950	600	1990	295	47	250	2200	3580
630	2	1120 ± 2.1	1600 ± 2.1	560 ± 4.0	140 ^{+0.015} _{-0.015}	250 ± 0.57	36	148	20	630 ⁰ _{-1.5}	48	250	1400	840	1290	1020	700	2100	250	52	380	2950	3790
710	2	1400 ± 2.1	1800 ± 2.1	560 ± 4.0	170 ^{+0.040} _{-0.015}	300 ± 0.57	40	179	22	710 ⁰ _{-1.5}	56	280	1600	930	1390	1120	650	2240	220	72	400	3340	3960

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

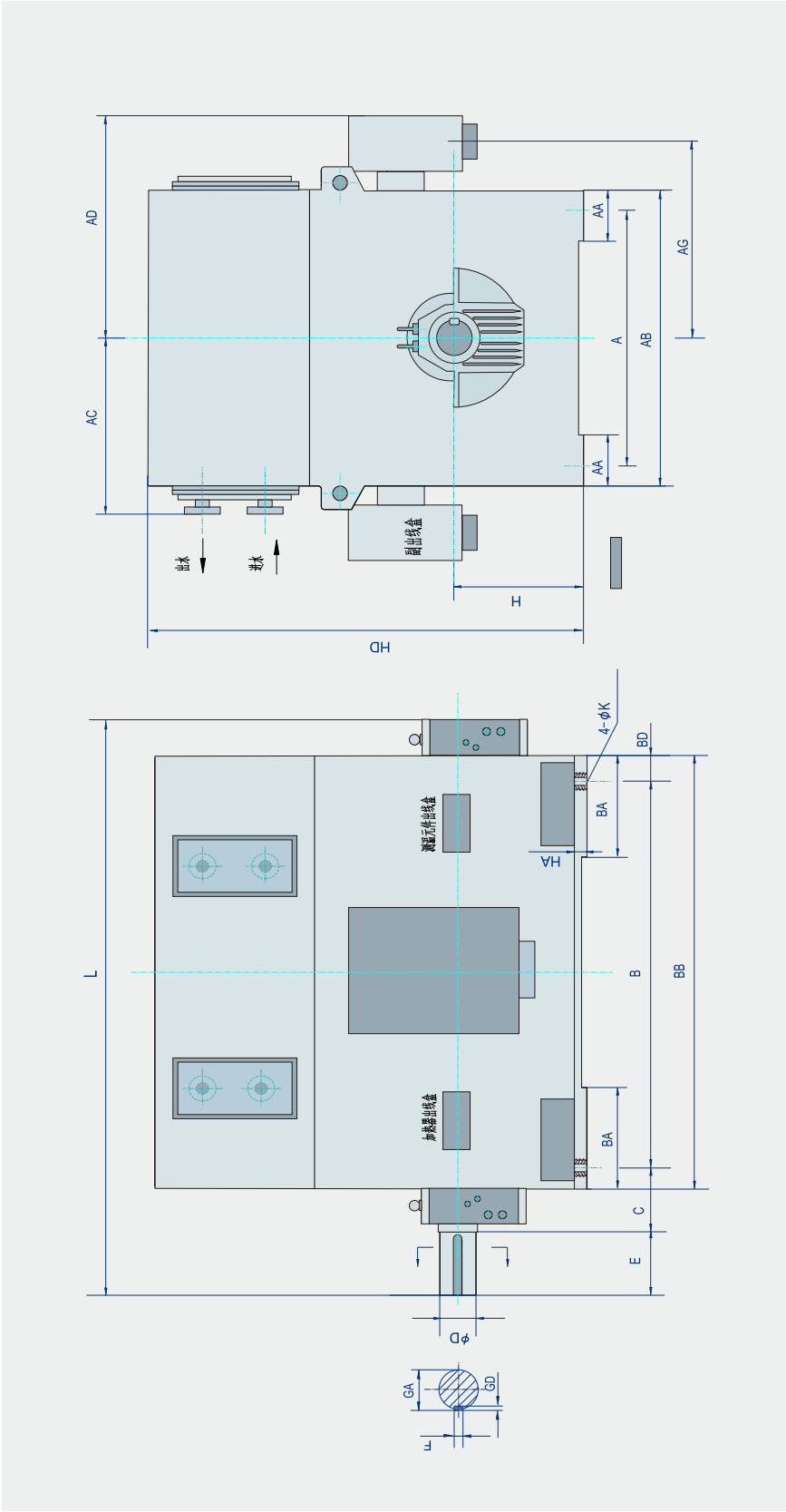
► YX系列10KV异步电动机（机座号710-1120）外形及安装尺寸图
Outline Drawings and Mounting Dimensions for YX Series 10kV Asynchronous Motor (Frame No.710-1120)



机座号 Frame No.	安装尺寸及公差 Mounting dimensions										外形尺寸 Overall dimensions										
	A	B	C	D	E	F	GA	GD	H	K	AA	AB	AC	AD	AG	BA	BB	BD	HA	HD	L
710	1400 ± 2.8	1800 ± 2.8	530 ± 4.2	200 ^{+0.065 -0.077}	350 ± 0.70	45	210	25	710 ^{0 -1.5}	56	280	1600	1500	1500	1135	560	2390	295	61	2500	3200
800	1600 ± 2.8	2000 ± 2.8	530 ± 4.2	220 ^{+0.065 -0.077}	350 ± 0.70	50	231	28	800 ^{0 -1.5}	56	280	1860	1600	1600	1265	560	2590	345	70	3300	3500
900	1800 ± 3.5	2240 ± 3.5	600 ± 4.2	250 ^{+0.065 -0.077}	410 ± 0.77	56	262	32	900 ^{0 -1.5}	66	310	2060	1700	1700	1355	600	2790	275	70	3500	3800
1000	2000 ± 3.5	2500 ± 3.5	600 ± 4.2	280 ^{+0.062 -0.077}	470 ± 0.77	63	292	32	1000 ^{0 -1.5}	66	310	2250	1800	1800	1450	600	2990	245	70	3800	4200
1120	2200 ± 3.5	2500 ± 3.5	680 ± 4.2	320 ^{+0.057 -0.081}	470 ± 0.77	70	334	36	1120 ^{0 -1.5}	74	310	2500	1950	1950	1575	840	3090	295	90	4100	4400

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor

►YXKS系列10KV异步电动机（机座号710-1120）外形及安装尺寸图
Outline Drawings and Mounting Dimensions for YXKS Series 10kV Asynchronous Motor (Frame No.710-1120)



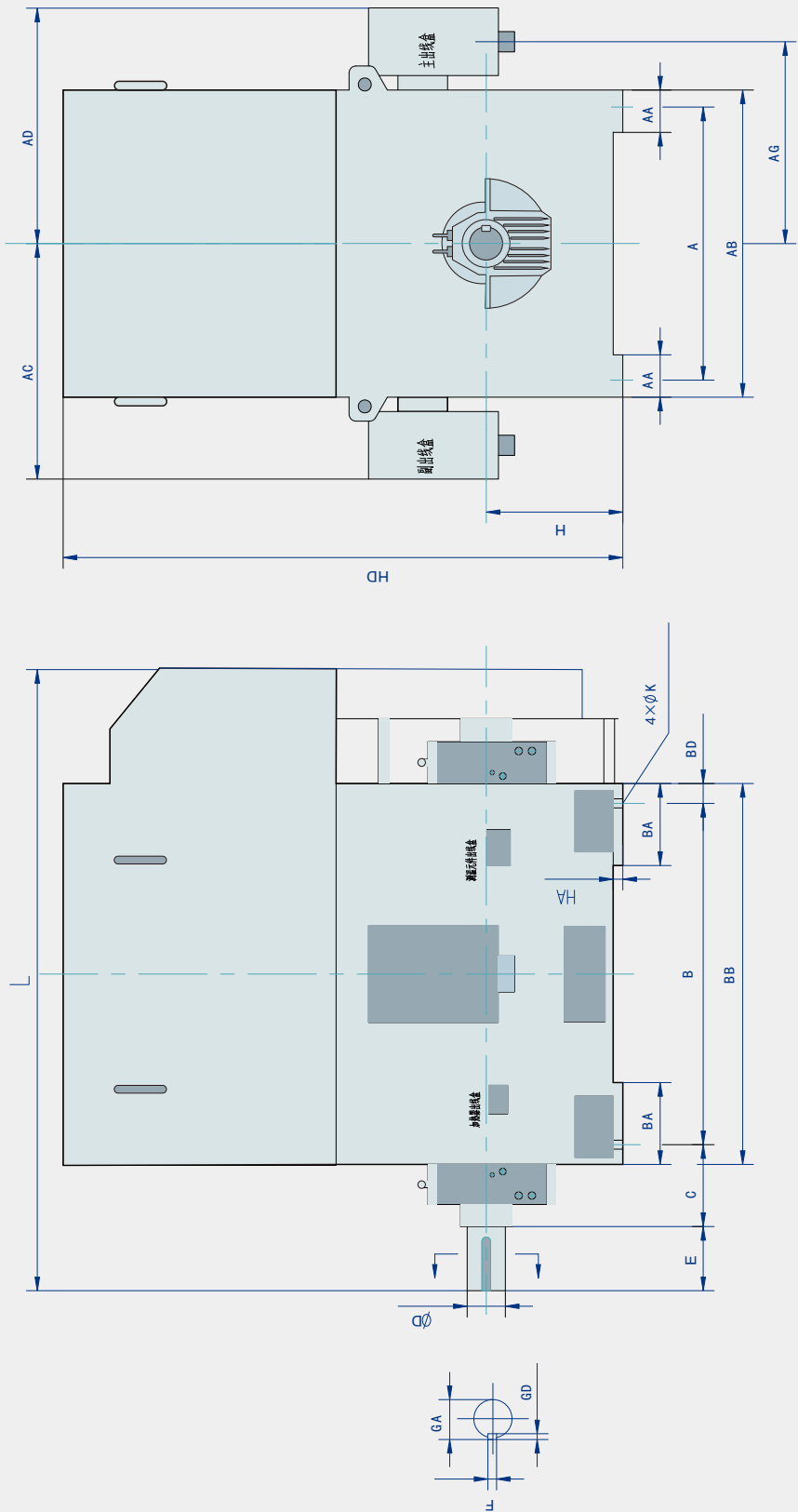
机座号 Frame No.	安装尺寸及公差 Mounting dimensions										外形尺寸 Overall dimensions										
	A	B	C	D	E	F	GA	GD	H	K	AA	AB	AC	AD	AG	BA	BB	BD	HA	HD	L
710	1400 ± 2.8	1800 ± 2.8	530 ± 4.2	200 ^{+0.06 +0.07}	350 ± 0.70	45	210	25	710 ^{0 -1.5}	56	280	1600	1500	1500	1135	560	2390	295	61	2500	3200
800	1600 ± 2.8	2000 ± 2.8	530 ± 4.2	220 ^{+0.06 +0.07}	350 ± 0.70	50	231	28	800 ^{0 -1.5}	56	280	1860	1600	1600	1265	560	2590	345	70	3300	3500
900	1800 ± 3.5	2240 ± 3.5	600 ± 4.2	250 ^{+0.06 +0.07}	410 ± 0.77	56	262	32	900 ^{0 -1.5}	66	310	2060	1700	1700	1355	600	2790	275	70	3500	3800
1000	2000 ± 3.5	2500 ± 3.5	600 ± 4.2	280 ^{+0.09 +0.09}	470 ± 0.77	63	292	32	1000 ^{0 -1.5}	66	310	2250	1800	1800	1450	600	2990	245	70	3800	4200
1120	2200 ± 3.5	2500 ± 3.5	680 ± 4.2	320 ^{+0.07 +0.07}	470 ± 0.77	70	334	36	1120 ^{0 -1.5}	74	310	2500	1950	1950	1575	840	3090	295	90	4100	4400

YX、YXKS、YXKK系列10kV高效高压三相异步电动机
YX, YXKS, YXKK Series 10kV High-efficiency High-Voltage Three-phase Asynchronous Motor



► YXKK系列10KV异步电动机（机座号710-1120）外形及安装尺寸图

Outline Drawings and Mounting Dimensions for YXKK Series 10kV Asynchronous Motor (Frame No.710-1120)



机座号 Frame No.	安装尺寸及公差 Mounting dimensions										外形尺寸 Overall dimensions											
	A	B	C	D	E	F	GA	GD	H	K	AA	AB	AC	AD	AG	BA	BB	BD	HA	HD	L	
710	1400 ± 2.8	1800 ± 2.8	530 ± 4.2	200 ^{+0.06 +0.07}	350 ± 0.70	45	210	25	710 ^{0 -1.5}	56	280	1600	1500	1500	1135	560	2390	295	61	2900	3750	
800	1600 ± 2.8	2000 ± 2.8	530 ± 4.2	220 ^{+0.06 +0.07}	350 ± 0.70	50	231	28	800 ^{0 -1.5}	56	280	1860	1600	1600	1265	560	2590	345	70	3500	4200	
900	1800 ± 3.5	2240 ± 3.5	600 ± 4.2	250 ^{+0.06 +0.07}	410 ± 0.77	56	262	32	900 ^{0 -1.5}	66	310	2060	1700	1700	1355	600	2790	275	70	3700	4600	
1000	2000 ± 3.5	2500 ± 3.5	600 ± 4.2	280 ^{+0.06 +0.07}	470 ± 0.77	63	292	32	1000 ^{0 -1.5}	66	310	2250	1800	1800	1450	600	2990	245	70	4100	5050	
1120	2200 ± 3.5	2500 ± 3.5	680 ± 4.2	320 ^{+0.06 +0.07}	470 ± 0.77	70	334	36	1120 ^{0 -1.5}	74	310	2500	1950	1950	1575	840	3090	295	90	4700	5250	



电机振动国家标准

National Standards for Vibration of Electric Machines

按照中华人民共和国国家标准《轴中心高为56mm及以上电机的机械振动 振动的测量、评定及限值》(GB10068-2008)对电机振动的标准要求。在标准要求的条件下,我公司电机空载运行时,工厂振动试验所测得的用位移、速度表示的振动强度限值分别为:37 μ m、2.3mm/s。

According to requirements for vibration of electric machines stipulated in P.R.C national standard, Mechanical vibration of certain machines with shaft heights 56mm and higher- Measurement, evaluation and limits of vibration severity (GB10068-2008), the limits of vibration severity in displacement and velocity measured in factory vibration test under no-load operation are 3.7 μ m and 2.3mm/s respectively.

国家标准的节选内容如下:

Extract from national standard is as follows:

• 振动强度限值

振动限值适用于在第5章中规定的频率范围所测得的振动速度、位移和加速度的宽带方均根值。用这三个测量量值的最大值来评价振动的强度。

如第6章所规定的两种安装条件,轴中心高56mm及以上直流和三相交流电机的振动强度应不超过表1中的限值。振动等级划分为两种。如未指明振动等级时,电机的振动限值应符合等级“A”的要求。

转速为600r/min~3600 r/min的电机,检查试验时,只需测量振动的速度。型式试验时,所有三种振动量值都应测量。

注:当检查试验是在自由悬置安装条件下做的,型式试验则必须包括在刚性安装情况下的试验。这一条适用于本标准所有速度范围。

• Limits of vibration severity

The limits apply to the measured broadband r.m.s. of vibration velocity, displacement and acceleration in the frequency range specified in Clause 5. Decisive for the evaluation of vibration magnitude is the highest value of these three measurement quantities.

The vibration magnitude for d.c. and three-phase a.c. machines with shaft height 56mm and higher, for one of either of the two mounting conditions according to Clause 6, shall not exceed the limits specified in Table 1. Limits are given for two vibration grades. When no grade is specified, machines complying with this standard shall be grade "A".

For routine tests of standard machines with speeds between, and including, 600 min⁻¹ and 3600 min⁻¹, it is sufficient to measure only vibration velocity. All three vibration magnitudes shall be verified during type testing.

Note: when routine test is made with free-suspension mounting condition, the type test should also include testing with rigid mounting. This note is valid for the whole speed range of this standard.

表1 不同轴中心高H(mm)用位移、速度和加速度表示的振动强度限值(方均根值)

Table 1-limits of vibration magnitude in displacement, velocity and acceleration (r.m.s.) for shaft height H(mm)

振动等级	轴中心高/mm	56≤H≤132			132<H≤280			H>280		
	安装方式	位移/ μ m	速度/(mm/s)	加速度/(m/s ²)	位移/ μ m	速度/(mm/s)	加速度/(m/s ²)	位移/ μ m	速度/(mm/s)	加速度/(m/s ²)
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

注1:等级“A”适用于对震动无特殊要求的电机。

注2:等级“B”适用于对振动有特殊要求的电机。轴中心高小于132mm的电机,不考虑刚性安装。

注3:位移与速度,速度与加速度的接口频率分别为10Hz和250Hz。

Note 1: Grade "A" applies to machines with no special vibration requirements.

Note 2: Grade "B" applies to machines with special vibration requirement. Rigid mounting is not considered acceptable for machines with shaft heights less than 132mm.

Note 3: The interface frequencies for displacement/velocity and velocity/acceleration are 10Hz and 250Hz respectively.

注1:制造厂和用户应考虑到检测仪器可能有±10%的测量容差。

注2:以相同机座带底脚卧式电机的轴中心高作为机座无底脚电机、底脚朝上安装式电机或立式的轴中心高。

注3:一台电机,自身平衡较好且振动强度等级符合表1的要求,但安装在现场中因受各种因素,如地基不平、负载机械的反作用以及电源中纹波电流的影响等等,也会显示较大的振动。另外,由于所驱动的诸单元的固有频率与电机旋转体微小残余不平衡的激励频率极为接近也会引起振动,在这些情形下,不仅只是对电机,而且对装置中的每一单元都要检验,见ISO10816-3。

Note 2 The shaft height of a machine without feet, or a machine with raised feet, or any vertical machine is to be taken as the shaft height of a machine in the same basic frame, but of the horizontal shaft foot-mounting type.

Note 3 A machine which is well-balanced in itself and of a grade conforming with Table 1, may exhibit large vibrations when installed in-situ arising from various causes, such as unsuitable foundations, reaction of the driven machine, current ripple from the power supply etc. Vibration may also be caused by driving elements with a natural oscillation frequency very close to the excitation due to the small residual unbalance of the rotating masses of the machine. In such cases, checks should be carried out not only on the machine, but also on each element of the installation, (see ISO 10816-3).

电机噪声国家标准

National Standards for Noise of Electric Machines

中华人民共和国国家标准《旋转电机噪声测定方法及限值第3部分：噪声限值》（GB10069.3-2008）对电机噪声的标准有如下说明及要求。

噪声可用声功率级或声压级表示，单位均为分贝(dB)，电机噪声一般按声功率级考核，声功率级和声压级数值根据电机大小（包络面面积）不同有较大差异，一般情况下声功率级比声压级数值大15~18(dB)。

The description and requirements for motor noise in the P.R.C national standard, Measurement of airborne noise emitted by rotating electric machine and the noise limits-Part 3: noise limits, is as follows:

Noise can be expressed by sound power level and sound pressure level, both in dB. Motor noise generally is evaluated with sound power level; the values of sound power level and sound pressure level are highly varied with different motor sizes (the area of the surface enveloping the machine). In general, the value of sound power level is 15 to 18 dB bigger than that of sound pressure level.

- 国标第6页对电机在空载运行时，对应不同的转速、冷却方式、额定输出功率情况下所测得的声功率级 L_w (dB)规定不得超过下表数值。

- The sound pressure level L_p (dB) measured with different speeds, methods of cooling and rated outputs as the motor operating at no-load do not exceed the values specified in the table below, as shown in page 6.

额定转速 nN/(r/min)	nN≤960			960<nN≤1320			1320<nN≤1900			1900<nN≤2360			2360<nN≤3150			3150<nN≤3750		
冷却方式 (简单代码)	IC01 IC11 IC21	IC411 IC511 IC611	IC31 IC71W IC81W IC8A1W7	IC01 IC11 IC21	IC411 IC511 IC611	IC31 IC71W IC81W IC8A1W7	IC01 IC11 IC21	IC411 IC511 IC611	IC31 IC71W IC81W IC8A1W7	IC01 IC11 IC21	IC411 IC511 IC611	IC31 IC71W IC81W IC8A1W7	IC01 IC11 IC21	IC411 IC511 IC611	IC31 IC71W IC81W IC8A1W7	IC01 IC11 IC21	IC411 IC511 IC611	IC31 IC71W IC81W IC8A1W7
	注1	注2	注2	注1	注2	注2	注1	注2	注2	注1	注2	注2	注1	注2	注2	注1	注2	注2
额定输出 P_N / kW(或kVA)																		
$1 \leq P_N \leq 1.1$	73	73	—	76	76	—	77	78	—	79	81	—	81	84	—	82	88	—
$1.1 < P_N \leq 2.2$	74	74	—	78	78	—	81	82	—	83	85	—	85	88	—	86	91	—
$2.2 < P_N \leq 5.5$	77	78	—	81	82	—	85	86	—	86	90	—	89	93	—	93	95	—
$5.5 < P_N \leq 11$	81	82	—	85	85	—	88	90	—	90	93	—	93	97	—	97	98	—
$11 < P_N \leq 22$	84	86	—	88	88	—	91	94	—	93	97	—	96	100	—	97	100	—
$22 < P_N \leq 37$	87	87	—	91	91	—	94	98	—	96	100	—	99	102	—	101	102	—
$37 < P_N \leq 55$	90	93	—	94	94	—	97	100	—	98	102	—	101	104	—	103	104	—
$55 < P_N \leq 110$	93	96	—	97	98	—	100	103	—	101	104	—	103	106	—	105	106	—
$110 < P_N \leq 220$	97	99	—	100	102	—	103	106	—	103	107	—	105	109	—	107	110	—
$220 < P_N \leq 550$	99	102	98	103	105	100	106	108	102	106	109	102	107	111	102	110	113	105
$550 < P_N \leq 1100$	101	105	100	106	108	103	108	111	104	108	111	104	109	112	104	111	116	106
$1100 < P_N \leq 2200$	103	107	102	108	110	105	109	113	105	109	113	105	110	113	105	112	118	107
$2200 < P_N \leq 5500$	105	109	104	110	112	106	110	115	106	111	115	107	112	115	107	114	120	109

注1：典型的防护类型为IP22或者IP23。

注2：典型的防护类型为IP44或者IP55。

Note 1: typical enclosure classification IP22 or IP23.

Note 2: typical enclosure classification IP44 or IP45.

- 国家标准对声压级没有具体要求，如果有要求，声压级可直接由下式的声功率级换算：

- Sound power pressure levels are not required as part of this standard. If requested, a sound pressure level may be determined directly from the sound power level as follows:

(公式1)

$$L_p = L_w - 10 \lg \left(\frac{S}{S_0} \right)$$

式中：

L_p — 距电机1m的反射面上自由场中声压级

L_w — 依据标准确定的声功率级

S_0 — 1.0 m^2

S — 距基准体1m的电机测量包络面面积

L_p is the sound pressure level in a free-field over a reflecting plane at 1m distance from the machine:

L_w is the sound power level determined according to this standard:

S_0 is 1.0 m^2 ;

S is the area of the surface enveloping the machine at a distance from the machine of 1m;

电机油漆颜色

Paint Color of Electric Machine

经统计多年来客户使用电机的颜色情况，综合一些优缺点，建议客户在订货时，从以下几种常用颜色中进行选择。

According to statistical analysis of the paint colors of motors selected by our customers for years and combined with several advantages and disadvantages, it is recommended to select the following commonly used colors when placing an order.

首选推荐颜色：

Recommended colors preferred

客户未指定面漆颜色时,默认采用为我厂锤纹漆,室内使用的电机采用国标GSB05-1426"深豆绿"(G09),室外使用的电机采用国标GSB05-1426"淡灰"(B03)。

优点：该两种颜色为聚氨酯锤纹漆，其花纹美观清晰，漆膜光亮丰满，耐候性佳，耐油、耐化学腐蚀性好，且硬度和耐磨性好。漆膜干燥较快，施工方便，广泛适用于室内、外各种金属结构。

If the color of finishing coat is not specified by customer, our hammer finish paint would be used, with dark pea green (GSB05-1426) for electric machines indoor and light grey (GSB05-1426) for those outdoor.

Advantages: Both colors are polyurethane hammer finish paints, with beautiful clear patterns, bright full paint film, good resistance to weather, oil, and chemical corrosion, good hardness and wear resistance. The paint film may get dry fast and easily prepared. They are widely used for various metallic structures, indoor and outdoor.

范例：

For example



淡灰
Light grey



深豆绿
Bottle pea green

我厂交流电机推荐选用的面漆颜色

Recommended colors of finishing coat for our AC motor

- 推荐选用的颜色标准为国标 GSB05-1426 色卡、国际 RAL 经典色卡。**
Recommended color standards: national GSB05-1426 Standard Sample Color Cards and international RAL classic colors;
- 我厂交流电机推荐选用的颜色如下：**
The recommended colors for our AC motors are as follows:

- 2.1 常用国标色卡 GSB 05-1426 中颜色，20 种：**
Commonly used colors in national standard color cards GSB05-1426, total 20 colors:

淡(铁)蓝(PB07) Light (iron) blue	淡灰(B03) Light grey	银灰(B04) Silver grey	海灰(B05) Ocean grey
冰灰(GY09) Cold grey	苹果绿(G01) Pastel green	孔雀蓝(PB11) Peacock blue	天(酞)蓝 (PB09) Sky (phthalocyanine) blue
飞机灰(G10) Aircraft grey	深绿(G05) bottle green	淡绿(G02) Pale green	湖绿(BG02) Lake green
玉灰(GY11) Jade grey	乳白(Y11) Milky white	蓝灰(PB08) Bluish grey	深豆绿(G09) Bottle pea green
中绿灰(BG01) Granite grey	海蓝(PB05) Sea blue	驼灰(Y01) Camel grey	象牙(Y04) Ivory

- 2.2 常用国际通用色卡 RAL 中颜色，5 种：**
Commonly used colors in international universal color cards RAL, total 5 colors:

浅灰(RAL 7035) Light grey	淡蓝(RAL 5012) Pale blue	天蓝(RAL 5015) Sky blue	白铝灰(RAL 9006) White aluminium	浅绿(RAL 6021) Light blue

附注：1、油漆颜色的电子版本仅供参考，施工及质量检验均以实物标准色卡为准。
2、订货时请在合同文件中注明油漆标号。

Note: 1. the electronic edition of paint color is for reference only.
Painting and quality inspection are subject to physical standard color cards.
2. Please indicate paint code in the contract when placing an order.