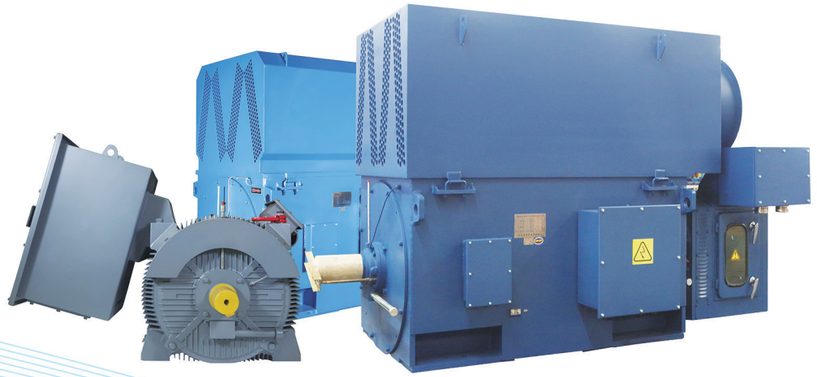
JEMEC

Driving machines for better

JEM系列
高压三相异步电动机

JEM Series High Voltage
Three Phase Asynchronous Motor



目　录

Contents



概述
Introduction ·····02
产品类别
Products range ·····03
技术参数
Technical parameters ·····04
型号
Type ·····05
环境
Environments ·····06
防护等级
Degree of protection ·····07
铭牌
Nameplate ·····08
冷却方式
Cooling method ·····10
特点与优势
Features and advantages ·····12
应用
Application ·····13
附件及特点
Accessories and Features ·····14
试验
Test ·····15
技术支持
Technical support ·····16
服务
Services ·····16
零部件
Components and parts ·····16

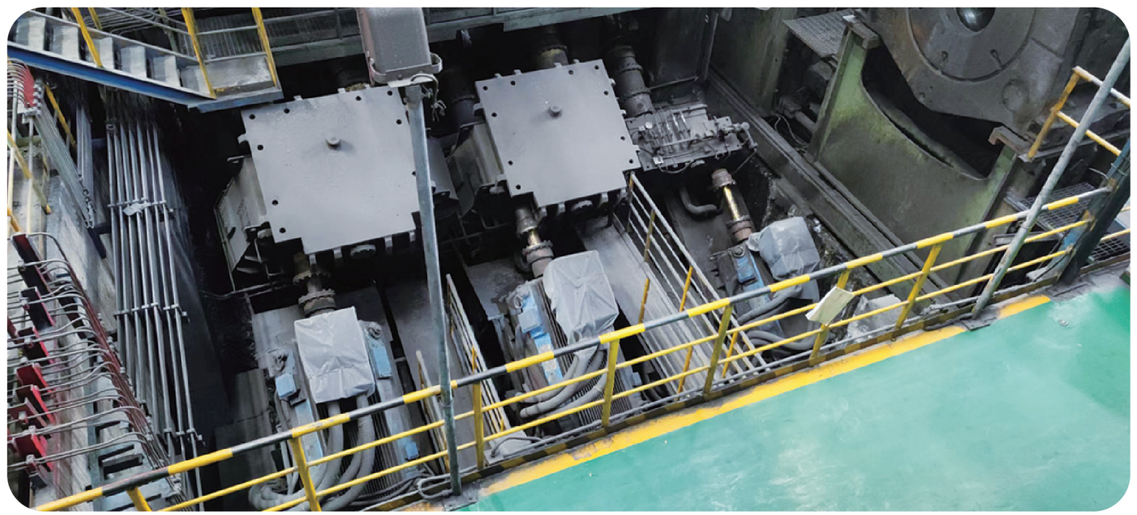
概 述 Introduction

JEMEC 公司的 JEM 系列高压电机适用于各种工业应用，如采矿、水处理、 水泥、石油、天燃气、钢厂、制糖和乙醇、纤维和造纸等行业。此外，得益于电机强大的通用性，客户可以根据具体的应用或者安装条件选择最合适的电机。为了满足日益严格的全球市场要求， JEMEC 建立了完整的质量体系，并通过了由质量监督局出具的符合 ISO 9001 和 ISO 140001 要求的认证。

JEMEC's JEM series motors are designed for a variety of industrial applications, focusing on mining, water treatment, cement, petroleum, gas, steel mills, sugar and ethanol, fiber and paper, etc. In addition, the strong versatility can also help customers to choose the most suitable motor according to the specific application or installation conditions. In order to meet the increasingly stringent requirements of the global market, JEMEC has established a complete quality system and passed the certification of ISO 9001 and ISO 140001 issued by the Quality Supervision Bureau.

JEM 高压电机的专有技术和设计理念大大提高了电机电气和机械设计的灵活性，因而可以满足不同应用下最严格的操作要求，并使得产品在满足国际标准的同时具备了更高的效率，顺应了国际市场的发展趋势。 JEM 高压电机灵活的机械特征使其具备良好的互换性，此特性削减了停机更换产生的成本。 JEM 高压电机的特点证明了 JEMEC 为其客户和环境保护带来了优化的产品和工艺解决方案。

The unique technician and design philosophy of JEM high voltage motors greatly improve the electrical and mechanical design flexibility of the motors, thus meets the strictest operational requirements in different applications. This innovative development makes products meet international standards and have a higher efficiency, conforms to the development trend of the international market. The flexible mechanical characteristics of the JEM high voltage motor enable it to have good interchangeability, reduces the cost of downtime replacement. The characteristics of JEM high voltage motors demonstrate that JEMEC brings optimized product and process solutions to its customers and the environment.



产品类别 Products range

JEM 系列高压电机分为通用系列与定制系列，通用系列电机具有相对固定的安装尺寸与结构形式，采用铸铁机座，具有结构紧凑、体积小、外形美观、防护等级高等优点。定制系列采用钢板焊接机座，具有灵活的结构形式、安装尺寸、冷却方式、防护等级等，可严格按用户要求定制。

JEM series high voltage motor is divided into General Purpose series and Customized series. General Purpose series motor has relatively fixed installation dimension and structure, adopts cast iron frame, has the advantages such as compact structure, small volume, beautiful appearance and high protection grade etc. The customized series adopts steel plate fabricated frame, which has flexible structure form, installation size, cooling method, protection grade, etc., can be customized strictly according to user's requirements.

JEM 系列电机有三种不同的配置，即开放式自冷却电机（IC01、WP-Ⅰ、WP-Ⅱ、ODP）、封闭式空—空冷却电机（IC411、IC416、IC511、IC516、IC611、IC616、IC666）或空—水冷却电机（IC81W、IC86W，TEWAC）。

JEM series motors are available in three different configurations, They are open self-cooling motors (IC01、WP-Ⅰ、WP-Ⅱ、ODP), closed air cooling motors (IC411, IC416, IC511, IC516, IC611, IC616, IC666) or air-water cooling motors (IC81W, IC86W, TEWAC).

电动机供电电源为三相工频 50Hz（或根据需要为 60Hz）电源，电压等级 3kV、6kV、6.6kV、10kV，也可根据需要设计成 11kV、13.8kV 等，安装形式一般为 IMB3，也可根据用户需要设计为 IMB35、IMV1。

The products are designed based on 50Hz (or 60Hz on request), 3kV, 6kV, 6.6KV, 10kV (11kV, 13.8KV on request). The mounting method is IMB3, IMB35, IMV1 or by request.

电动机允许在额定电压和额定频率下直接启动或降压启动（85%额定电压）或变频启动等。

The motor is allowed to start directly on line at rated frequency, step-down start (85% rated voltage) or variable frequency start, etc.

JEM 系列电机根据冷却方式和防护等级的不同，具有不同的配置，这样的设计及配置可确保电机更好的适应工作环境的要求。

JEM series motors are available in different configurations according to different cooling modes and protection levels. This design and configuration can ensure that the motors are better adapted to the requirements of the working environment.

IEC 标准下，机座中心高从 315 至 560 的电机机壳可以使用铸铁或者焊接钢板材质；机座中心高 630 以上的电机机壳只能由钢板焊接而成。

Under IEC standards, motor (frame size 315～560) can be made of cast iron or welded steel; motor (frame size 630 above) can only be welded by steel.

主要安装特点：

- 防护等级
  - IP23, IP24(W), IP55(W), IP56(W), IP65(W)
- 转子
  - 鼠笼转子
  - 滑环（绕线）转子
- 轴承
  - 油润滑滑动轴承
  - 油脂润滑（带迷宫密封）,油润滑或油系统润滑滚动轴承

Main installation features:

- Protection degree
  - IP23, IP24(W), IP55(W), IP56(W), IP65(W)
- rotor
  - Squirrel cage rotor
  - Slip ring (wound) rotor
- bearing
  - Oil lubricated sliding bearing
  - Grease lubricated (with labyrinth seal), oil lubricated or oil system lubricated rolling bearings

技术参数 Technical Parameters

技术要求 Technical specifications	通用型电机 General motors	定制化电机 Customized motors		
				
电机类别 Motor categories	异步电动机 Asynchronous motor	异步电动机 Asynchronous motor	异步电动机 Asynchronous motor	异步电动机 Asynchronous motor
机座材料 Frame material	铸铁/钢板焊接 Cast iron/welded steel	钢板焊接 welded steel	钢板焊接 welded steel	钢板焊接 welded steel
冷却方式 Cooling type	IC411,IC416	IC511,IC516	IC01,IC611,IC616, IC666,IC81W,IC86W	IC01,IC611,IC616, IC666,IC81W,IC86W
功率范围 Power range	0.2～3.15 MW	0.2～7.1 MW	0.2～10MW	3.55～28 MW
电压范围 Voltage range	3.3～11 kV	3.3～11 kV	3.3～11 kV	3.3～13.8 kV
频率 Frequency	50 Hz /60Hz	50 Hz /60Hz	50 Hz /60Hz	50 Hz /60Hz
中心高 Shaft height	355～630	500～900	355～630	710～1120
极数 Number of poles	2～12	2～18	2～18	2～18
转速 Speed	Up to 3600rpm	Up to 3600rpm	Up to 3600rpm	Up to 3600rpm
结构形式 Type of construction	IMB3,IMB35,IMV1	IMB3,IMB35,IMV1	IMB3,IMB35,IMV1	IMB3, IMV1
防护等级 Degree of protection	IP55,IP56,IP65	IP55,IP56,IP65	IP23,IP24, IP55,IP56,IP65	IP23,IP24, IP55,IP56,IP65
执行标准 Standard	IEC,EN,GB	IEC,EN,GB	IEC,EN,GB	IEC,EN,GB
效率 Efficiency	GB 30254-2013	GB 30254-2013	GB 30254-2013	Up to 98.0%
轴承 Bearing	Antifriction bearings, Sleeve bearings	Antifriction bearings, Sleeve bearings	Antifriction bearings, Sleeve bearings	Antifriction bearings, Sleeve bearings

型 号 Type

JEM S A 500 -4

- 极数：4 极
  Pole number: 4 Poles
- 机座号：500
  Frame size:500
- 冷却方式：
  Cooling method:
  - A——开放式自冷却（IP23（W）/IC01）
    Open type self-cooling（IP23（W）/IC01）
  - P——开放式自冷却（IP24（W）/IC01）
    Open type self-cooling（IP24（W）/IC01）
  - D——自带风扇冷却（IC411）
    Fan cooling（IC411）
  - T——强制冷却，外装风机冷却（IC416）
    Forced cooling, external fan cooling （IC416）
  - R——电机定子周围带空—空热交换器自冷却（IC511）
    The stator of the motor is self-cooled by air-air heat exchanger（IC511）
  - V——强制冷却，外装风机冷却，定子周围带空—空热交换器（IC516）
    Forced cooling, external fan cooling, stator with air - air heat exchanger around（IC516）
  - F——电机顶部带空—空热交换器自冷却（IC611）
    The top of the motor is self-cooled by air - air heat exchanger（IC611）
  - I——带内部和外部空气循环强制冷却的空—空热交换器（IC666）
    Air - air heat exchanger with internal and external air circulation forced cooling（IC666）
  - W——空水热交换器（IC81（W））
    Air -water heat exchanger（IC81（W））
  - L——带内部空气循环强制冷却的空水热交换器（IC86（W））
    Air -water heat exchanger with internal air circulation forced cooling（IC86（W））
- 转子类型：S——鼠笼转子 R——滑环转子
  Rotor type: S——Squirrel cage rotor ,R——Slip ring (wound) rotor
- 电机系列：JEM 系列
  Motor series: JEM series

环 境 Environments

除非特别说明，否则电气数据表中的额定输出均是在连续工作及符合 IEC 60034-1 标准要求和以下工作条件确定的：

- 环境温度：-20℃～+40℃
- 海拔高度不超过 1000m，当使用温度和海拔与上述说明有差异时，必须采用下表所示的降额因子（k_{HT}）确定有用功率输出（P_{max}），$P_{max}=P_{nom}*k_{HT}$。

Unless otherwise stated, the rated output in the electrical data sheet is determined in continuous operation and in accordance with IEC 60034-1 requirements and the following working conditions:

- Environment temperature: -20℃ to +40℃
- If the altitude does not exceed 1000m, the useful power output (P_{max}) must be determined by the derating factor (k_{HT}) shown in the table below, $P_{max}=P_{nom}*k_{HT}$.

环境温度 Ambient temperature	对于不同海拔和（或）不同环境温度的功率换算系数 k_{HT} Factor k_{HT} for different side altitudes and / or coolant temperature								
	对应环境温度的海拔高度 Site altitude above sea level								
	1000 m	1500 m	2000m	2500 m	3000 m	3500 m	4000 m	4500 m	5000 m
10℃	——	——	——	——	——	——	0.97	0.92	0.88
15℃	——	——	——	——	——	0.98	0.94	0.90	0.86
20℃	——	——	——	——	1.00	0.95	0.91	0.87	0.83
25℃	——	——	——	1.00	0.95	0.93	0.89	0.85	0.81
30℃	——	——	1.00	0.96	0.92	0.90	0.86	0.82	0.78
35℃	——	1.00	0.95	0.93	0.90	0.88	0.84	0.80	0.75
40℃	1.00	0.97	0.94	0.90	0.86	0.82	0.80	0.76	0.71
45℃	0.95	0.92	0.90	0.88	0.85	0.81	0.78	0.74	0.69
50℃	0.92	0.90	0.87	0.85	0.82	0.80	0.77	0.72	0.67
55℃	0.88	0.85	0.83	0.81	0.78	0.76	0.73	0.70	0.65
60℃	0.83	0.82	0.80	0.77	0.75	0.73	0.70	0.67	0.62

防护等级 Degree of protection

IEC 60034-5 标准采用在字母 IP 后加入两个数字来定义电气设备的防护等级。JEM 系列电机的防护等级为 IP23, IP24, IP55, IP56, IP65, 并可按客户要求提升防护等级。

The IEC 60034-5 standard uses two numbers after the letter IP to define the protection degree of electrical equipment. The protection degree of JEM series motor is IP23, IP24, IP55, IP56, IP65, and can be upgraded according to customer requirements.

IP 防护代码由 IP 及后续两个数字组成，含义为 The IP code consists of IP code letters and two obligatory digits, meaning:			
第一位数字（防止固体异物侵入） The first digit (protection from introduction of solid foreign matter)		第一位数字（防止水侵入） The second digit (protection against penetration of water and its harmful effects)	
IP	定义 Definition	IP	定义 Definition
0	无防护 No protection	0	无防护 No protection
1	直径>=50mm Diameter>=50mm	1	垂直滴水 Dropping vertically
2	直径>=12.5mm Diameter>=12.5mm	2	滴水（倾斜 15°） Dropping (up to 15°)
3	直径>=2.5mm Diameter>=2.5mm	3	防洒水 Sprayed
4	直径>=1.0mm Diameter>=1.0mm	4	防飞溅 Splashed
5	有限防尘 Limited protection against dust	5	防喷射 In stream
6	完全防尘 Dust tight	6	防强力喷射 In strong steam
		7	水下短时浸没 Under short-time immersion
		8	水下长时间沉没 Under permanent immersion

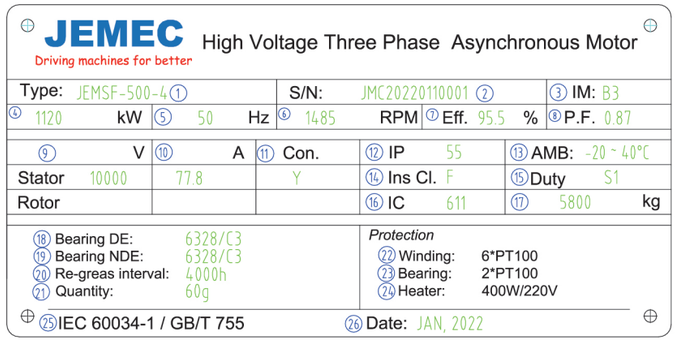
电机配置三种铭牌：主铭牌、附件铭牌和警示铭牌。所有铭牌均采用 304 不锈钢制造，主铭牌和附件铭牌信息采用激光打印。

The motor is equipped with three kind of nameplates: main nameplate, accessory nameplate and warning nameplate. All nameplates are made of 304 stainless steel, and the main nameplate and accessory nameplate information are printed by laser.

◆ 主铭牌 Main nameplate

主铭牌描述了安装形式和电机性能等信息，它还提供了电机制造年份信息，见下图：

The main nameplate describes the installation form and motor performance. It also provides information about the year the motor was made, as shown in the figure below.

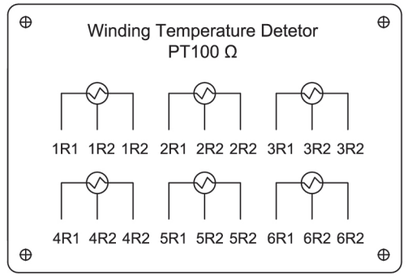


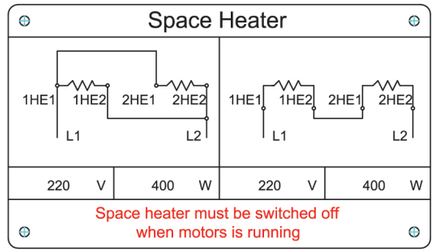
1	产品型号	Type	14	绝缘等级	Insulation class
2	产品序列号	Series number	15	工作制	Duty
3	安装形式	Type of construction	16	冷却方式	Cooling method
4	额定功率	Rated power	17	产品重量	Weight
5	频率	Frequency	18	驱动端轴承	Bearing at drive end
6	额定转速	Rated speed	19	非驱动端轴承	Bearing at non-drive end
7	效率值	Efficiency	20	再润滑间隔时间	Re-grease time interval
8	功率因数	Power factor	21	再润滑注油量	Re-grease quantity
9	额定电压	Rated voltage	22	绕组热敏电阻	Thermistors in winding
10	额定电流	Rated current	23	轴承热敏电阻	Thermistors for bearing
11	接线方式	Connection	24	防潮加热带	Anti-condensation heater
12	防护等级	Degree of protection	25	标准	Standard
13	环境温度	Ambient temperature	26	生产日期	Manufacturing time

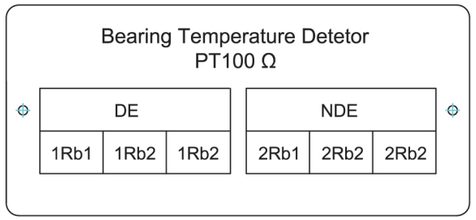
◆ 附件铭牌 Accessory nameplate

为了指示电机配置的附件信息，JEM 系列电机提供了附件铭牌，它包含温度传感器、加热带和其他按用户要求提供的附件信息。如有要求，铭牌还可以用于显示电机的设备位号。

To indicate accessory information for the motor configuration, JEM series motors provide accessory nameplates that contain temperature sensors, heating belts, and other accessory information as required by the user. If requested, the nameplate can also be used to display the device number of the motor.



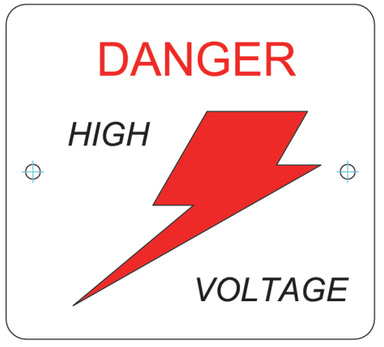




◆ 警示铭牌 Warning nameplate

警示铭牌用于指示电机上存在高压，禁止接触任何通电回路或电机旋转部件。

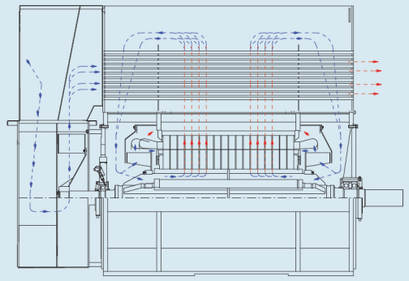
Warning nameplate is used to indicate high voltage on the motor. Do not touch any energized circuit or rotating parts of the motor.



冷却方式 Cooling method

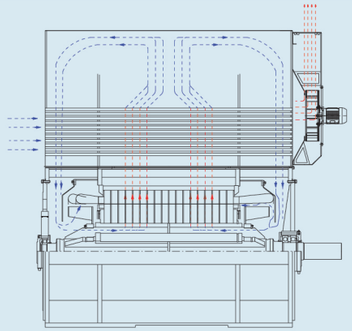
JEM 系列电机提供的冷却系统可以根据所驱动的负载类型、应用以及安装环境的变化而进行调整。

JEM series motors cooling system type may vary according to its load type, application and installation environments. Only the correct installation of the motor and of the cooling system can ensure its continuous operation without overheating.



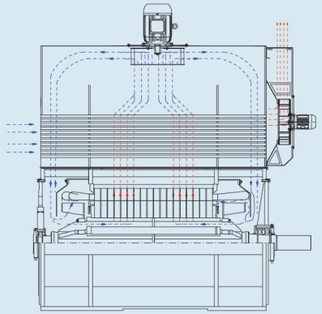
- 全封闭
- 空---空冷却系统
- 冷却方式：IC611
- 防护等级：IP55、IP56、IP65

- Totally enclosed
- Air---air cooling system
- Cooling type:：IC611
- Degrees of protection：IP55、IP56、IP65



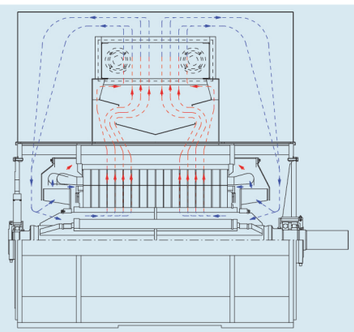
- 全封闭
- 空---空冷却系统
- 冷却方式：IC616
- 防护等级：IP55、IP56、IP65

- Totally enclosed
- Air---air cooling system
- Cooling type:：IC616
- Degrees of protection：IP55、IP56、IP65



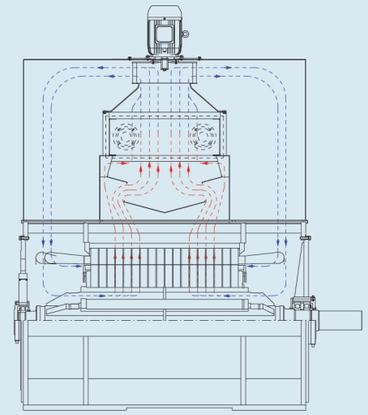
- 全封闭
- 空---空冷却系统
- 冷却方式：IC666
- 防护等级：IP55、IP56、IP65

- Totally enclosed
- Air---air cooling system
- Cooling type:：IC666
- Degrees of protection：IP55、IP56、IP65



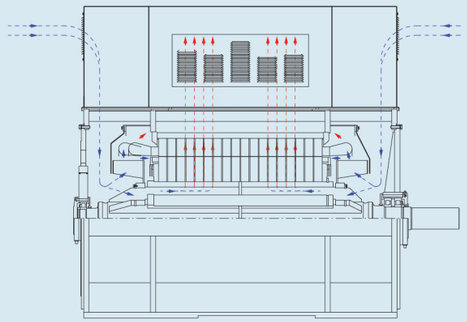
- 全封闭
- 空---水冷却系统
- 冷却方式：IC81(W)
- 防护等级：IP55、IP56、IP65

- Totally enclosed
- Air---water cooling system
- Cooling type:： IC 81(W)
- Degrees of protection：IP55、IP56、IP65



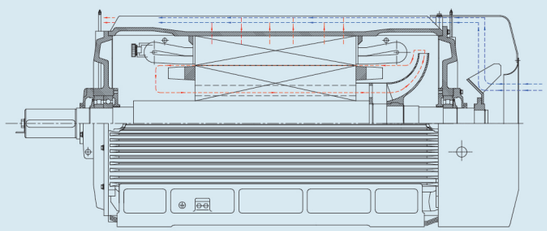
- 全封闭
- 空---水冷却系统
- 冷却方式：IC86(W)
- 防护等级：IP55、IP56、IP65

- Totally enclosed
- Air---water cooling system
- Cooling type:： IC 86(W)
- Degrees of protection：IP55、IP56、IP65



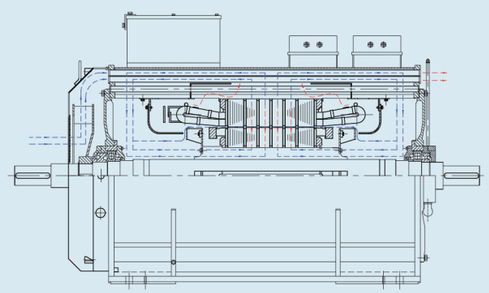
- 开放式（自冷却）
- 冷却方式：IC01(W)
- 防护等级：IP23

- Open drip proof (self-cooling)
- Cooling type:： IC 01(W)
- Degrees of protection：IP23



- 全封闭
- 空---空冷却系统
- 冷却方式：IC411
- 防护等级：IP55、IP56、IP65

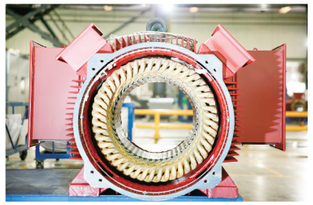
- Totally enclosed
- Air---air cooling system
- Cooling type:： IC 411
- Degrees of protection：IP55、IP56、IP65



- 全封闭
- 空---空冷却系统
- 冷却方式：IC511
- 防护等级：IP55、IP56、IP65

- Totally enclosed
- Air---air cooling system
- Cooling type:： IC 511
- Degrees of protection：IP55、IP56、IP65

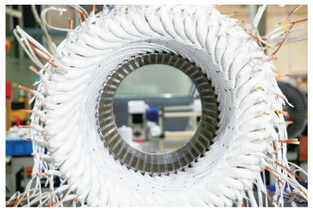
特点与优势 Features and advantages



◆ 定子 Stator

它属于电机的主磁静态部分，它由冲压的硅钢片叠压而成的定子铁心，以及安装在定子铁心槽内的线圈构成的绕组定子，绕组定子被直接安装在机座构成。

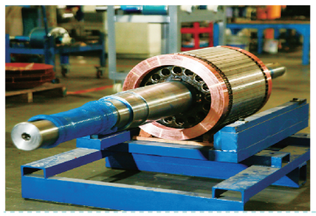
It belongs to the main magnetic static part of the motor. It is composed of the stator core formed by stacking pressed silicon steel sheets and the winding stator formed by the coil installed in the stator core slot. The winding stator is directly mounted on the frame.



◆ 绕组 Winding

JEMEC 研发的绕组工艺可满足不同电压和应用电机的要求，其中定子线圈由扁铜线和绝缘材料构成，嵌线后，通过云母带绝缘、高阻带和低阻带包扎以确保电阻率。

The winding process developed by JEMEC can meet the requirements of motors of different voltages and applications. The stator coil is composed of flat copper wire and insulation material, which is coated with mica tape insulation, high resistance tape and low resistance tape to ensure resistivity.



◆ 转子 Rotor

它属于电机的旋转部件，由轴和转子铁心构成。在转子铁心的槽内可以安装鼠笼导条或转子线圈。鼠笼导条的材料可以是铸铝或铜条。

It belongs to the rotating parts of the motor, composed of shaft and rotor core. A squirrel cage bar or rotor coil can be installed in the slot of the rotor core. The cage bar can be made of cast aluminum or copper strip.



◆ 机座 Frame

由钢板焊接或铸铁制成，属于电机的结构部件，对电机的电磁部分起到容纳、支持和保护的作用。坚固的结构为电机提供了可靠的机械强度，以及低的振动水平。

Frame is made of steel welder or cast iron which belongs to the structure of the motor parts, electromagnetic part of motor have the effect of hold, support and protection. Rugged construction for motor provides reliable mechanical strength, and low vibration level.



◆ 绝缘系统 Insulation system

多年来，真空压力浸漆工艺（VPI）被作为一种可靠得、高效的工艺而广泛应用于电机行业，这种浸漆工艺一般应用在成型绕组线圈上，该系统使用特殊的环氧树脂，保证了电机线圈的绝缘，过程对环境危害性小。

For many years, the vacuum pressure immersion (VPI) paint process has been widely used in the motor industry as a reliable and efficient process. This immersion paint process is generally used in the forming of winding coils. The system uses special epoxy resin to ensure the insulation of the motor coil, and the process is less harmful to the environment.



◆ 动平衡 Dynamic Balancing

JEMEC 所使用的动平衡设备运行进行最高转速可达 3600r/min 的动平衡试验。

电脑化的动平衡设备可使电机的动平衡试验达到很高的精度，因此 JEMEC 电机一般具备低振动水平。

The dynamic balancing equipment used by JEMEC is operated at a maximum speed of 3600r/min.

JEMEC motors typically have low vibration levels due to the high accuracy of dynamic balancing tests performed by computerized dynamic balancing equipment.

应 用 Application

JEM高压电机正在钢铁、造纸、自来水、矿山、石油化工等行业发挥着巨大作用。
JEM high voltage motor is playing a huge role in steel, paper making, tap water, mining, petrochemical and other industries.

应用场合 Applications	被驱动设备 Driven device
钢铁 Steel	轧机、卷曲机、平整机、张力机、剪切机等 Rolling mill, crimping machine, leveling machine, tension machine, shearing machine, etc
水处理 Water treatment	给水泵、污水泵等 Feed water pump, sewage pump, etc
石油 Petroleum	抽油机、油气输送、钻机 Pumping units, oil and gas conveying, drilling
电厂 Power stations	引风机、给水泵、循环泵、输煤机 Induced draft fan, feed water pump, circulating pump, coal conveyor
矿业 Mining	输送机、风机、粉碎机、球磨机、搅拌机 Conveyor, fan, grinder, ball mill, mixer
船用 Marine	压缩机、推进器、锅炉 Compressor, propeller, boiler
造纸 Paper	纸浆泵、纸板机、造纸机、打浆机、挤压机 Pulp pump, board machine, paper machine, beater, extruder
港口 Port	输送机、翻车机、斗轮机 Conveyor, dumper, bucket turbine
水泥 Cement	输送机、回转窑、球磨机 Conveyor, rotary kiln, ball mill
……	……













附件及特点 Accessories and Features

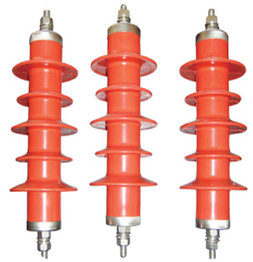
JEM 高压电机都配备有设备的正确操作不可缺少的和/或监控主要部件的标准附件。在确定电机规格时，买方须将相关的特点及其他附件进行描述。

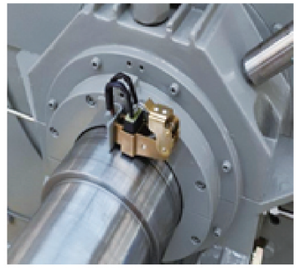
JEM high voltage motors are equipped with equipment essential to the proper operation and/or monitor the standards of the main parts of the accessories. When determining the motor specifications, buyer shall describe the relevant characteristics and other accessories

标准附件 Standard accessories	特殊附件 Special accessories	特殊要求 Special requirements
● 温度探测器—PT100—定子绕组内 Temperature detector—PT100—Winding	● 振动探测器 Vibration detector	● 安装 Mounting
● 温度探测器—PT100—轴承室内 Temperature detector—PT100—bearing	● 轴承 Bearing	● 特殊油漆 Special paint
● 空间加热器 Space heater	➢ 温度计 Thermometer	● 降低振动水平 reduce vibration levels
● 变频应用 Variable frequency application	➢ 油温计 Oil thermometer	● 降低噪声水平 reduce noise levels
● 轴接地电刷 Shaft grounded carbon brush	➢ 油流量表 Oil flow meter	● 外壳防护等级 IP56/IP65 Enclosure protection class IP56/IP65
	➢ 油压系统 Hydraulic system	● 滑动轴承 Sleeve bearing
	● 电容器 Capacitor	● 油润滑滚珠/滚柱轴承 Ball/roller bearings lubricated by oil
	● 避雷针 Lightning arrestor	● 特殊轴 Special shaft
	● 电流互感器 Current transformer	➢ 锥形轴伸 Conical extension
	● 独立冷却系统 Independent cooling system	➢ 空心轴 Hollow shaft
	● 温度探测器（冷却器出入口） Temperature detector (cooler inlet and outlet)	➢ 特殊轴伸 Special extension
	● 空气温度计（冷却器） Air thermometer (cooler)	➢ 双轴伸 Biaxial extension
	● 位置指示器（编码器或转速表传感器） Position indicator (encoder or tachometer sensor)	● 中性点接线盒 Neutral terminal box
	● 空—水冷却器 Air—water cooler	分类区域电机防护 Protection for fault regional motors
	➢ 水流量表 Water thermometer	➢ Ex n(无火花型) Ex n(Type of protection)
	➢ 水流检查窗 Flow check window	➢ Ex e（增安型） Ex e（Increased safety）
	➢ 水温计 Water flow meter	➢ Ex p（正压型） Ex p（Pressurized enclosure）
	● 水泄漏指示器 Water leak indicator	➢ Ex d（隔爆外壳） Ex d（Flameproof enclosure）
	● 噪声衰减器 Noise muffler	● 绝缘轴承 Insulation bearing
	● 周边消音器 Peripheral silencer	● 改装主接线盒 Retrofit the main terminal box
	● 底架 Underframe	









试　验 Test

所有的 JEM 电机都根据 IEC 60034-2(all)，GB/T 1032，在现代化的实验室中进行并通过相关测试。测试分为 3 种：出厂试验、型式试验和特殊试验。所有的电机都须进行出厂试验，除出厂试验之外，型式试验和特殊试验是对相同型号中某一批次产品总的一台或在客户的要求下进行。

All JEM motors are conducted and tested in modern laboratories according to IEC 60034-2(all), GB/T 1032. The tests are divided into three types: routine test, type test and special test. All motors shall be subjected to routine tests, except for routine tests, type tests and special tests shall be carried out on a batch of the same type or at the customer's request.

出厂试验 Routine test	型式试验 Type test	特殊试验 Special test
● 冷态绝缘电阻测量 Cold insulation resistance measurement	● 所有出厂试验 All routine test	● 轴电压测量 Axial voltage measurement
● 振动测量 Vibration measurement	● 热试验 Thermal test	● 超速试验 Overspeed test
● 噪声测量 Noise measurement	● 负载试验 Load test	最小转矩测量 Pull up torque measurement
● 空载试验 No load test	● 最大转矩测量 Breakdown torque measurement	● 短时过转矩测量 Short time overtorque measurement
● 堵转试验 Locked rotor test		● 转动惯量测量 Measurement of moment of inertia
● 工频耐压试验 Power-Frequency Withstand Voltage Test		● 外壳防护等级试验 Enclosure protection class test
● 冷态直流电阻测量 Cold DC resistance measurement		● 40℃交变湿热试验 40℃ alternating humid heat test

技术支持 Technical support

JEMEC 为其客户提供全方位的技术支持，并负责所有的售后服务。包括机器的诊断、调试以及 24 小时在线电话服务等。其服务部门通过由训练有素、经验丰富的人员组成的服务小组和现代化的设备帮助所有现场人员解决各种各样的情况。服务让我们更贴近您。

JEMEC provides full technical support to its customers and is responsible for all after-sales services. This includes machine diagnostics, commissioning and 24-hour online telephone service. Its service department assists all field personnel in a wide variety of situations through a service team of highly trained and experienced personnel and modern equipment. Service brings us closer to you.

服　务 Services

作为电动机市场的服务者， JEMEC 也可为其他品牌在内的电机提供厂内和现场的检验、维护以及重新评估等服务。具体服务产品如下：

As a service provider for the motor market, JEMEC also provides on-site and on-site inspection, maintenance and reevaluation services for motors of other brands. Specific service products are as follows:

- 三相异步电机（包括低、中和高压/鼠笼或绕线转子）
- 在进行维修服务时， JEMEC 采用的技术和工艺与工厂制造新电机是一致的。

- Three-phase asynchronous motor (including low, neutral and high voltage/cage or wound rotor)
- In maintenance service, the technology and process employed by JEMEC is consistent with that used in the factory to manufacture a new motor.

零部件 Components and parts

经过多年的使用， JEM高压电机需要定期维护从而可以继续正常工作。对于这种维护，建议使用制造商提供的原厂零部件。 JEMEC 团队可以提供快速的支持，并协助正确识别零部件。

After years of use, JEM high voltage motors need regular maintenance so that they can continue to work properly. For this maintenance, it is recommended to use the original parts supplied by the manufacturer. JEMEC team can provide quick support and assist in correctly identifying parts.

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