

LEADER
江苏利得尔电机有限公司
JIANGSU LEADER STANDARD MOTORS CO., LTD.

江苏利得尔电机有限公司

江苏省仪征市真州镇胥浦工业区

电话: 0514-8085 1588, 0514-8085 1566 传真: 0514-8329 9530

网址: www.jslead.net www.leader-motor.com 电子邮箱: yzlead@163.com

JIANGSU LEADER STANDARD MOTORS CO., LTD.

Xupu Industrial Zone zhenzhou Town Yizheng City, Yangzhou, Jiangsu, 211900, China

Tel: +86 - 514 - 8085 1552, +86 - 514 - 8329 9588 Fax: +86 - 514 - 8329 9530

E-mail: jsyleader@163.com Website: www.leader-motor.com www.jslead.net



国家高新技术企业

- ISO9001国家质量管理体系认证
- ISO9000国家环境管理质量体系认证

New & High-tech enterprise of Jiangsu Municipality

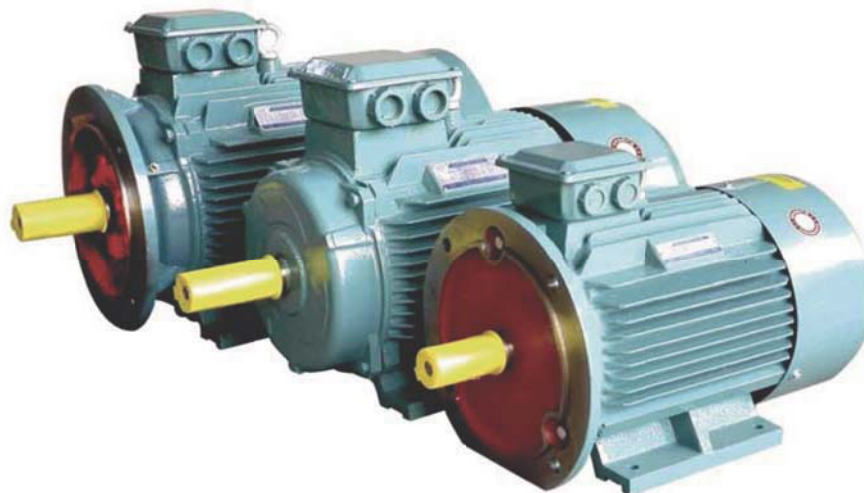
- Quality Management System Certificate of ISO9001
- Environmental Management System of ISO14001

及时、有效、满意
Timely, effective and satisfactory

LEADERMOTOR 版权所有

注: 本样本中提供的信息仅供参考。如有改动, 恕不另行通知。

LB 贝能®
BEINENG



江苏利得尔电机有限公司
JIANGSU LEADER STANDARD MOTORS CO., LTD.

COMPANY PROFILE

公司简介

公司位于风景优美、人文底蕴深厚的历史文化名城——中国扬州，是扬州地区最大的民营三相异步电机制造企业，公司秉承老牌国企——原江苏仪征电机厂（1958年创建）的精髓，专业生产国际IE2、IE3标准电机及其派生系列电机、YE3系列超高效率电机、YX3系列高效电机、YVF变频调速电机、YB3系列隔爆电机、H400低压大功率电机等各类电机产品。

公司生产加工装备齐全，检验检测设备先进，确保每一台电机最佳性能。公司通过了ISO9001质量管理、ISO14001环境管理、ISO10012测量管理、国家3C、节能产品标志、MA矿用产品安全标志、欧盟CE、防爆电气生产许可等国家各类专业机构的检验、认证等，产品性能优异、质量可靠，荣获“江苏省名牌产品”、“江苏省著名商标”等称号。

公司与北京交通大学、哈尔滨工业大学等科研院所建立“产学研”合作关系，设有“江苏省高功率密度节能电动机工程技术研究中心”、“江苏省企业研究生工作站”等多个技术研发平台，技术储备深厚，产品开发能力强，除能够向用户提供普通标准电机产品外，还能满足用户各类非标电机、特殊电机的量身定制的个性化需求。公司多款产品被科技部门评为高新技术产品。

公司在全国各地建立有完备的区域营销渠道和售后服务体系，专业售后服务人员提供24小时保姆式服务，无论用户在何时何地，都能再最近的距离、最短的时间，享受到公司快捷和满意的服务。

热忱欢迎社会各界人士和中外客商莅临我公司实地考察，开展广泛合作！

Jiangsu Leader Standard Motor Co., Ltd. is located in the beautiful historical city Yangzhou, China. Jiangsu Leader Standard Motor Co., Ltd. is the largest private motor manufacturing enterprise in Yangzhou district and it adheres to the old state-owned Yizheng Motor Factory. We are specialized in producing motors with international standard including Adjustable speed motor with variable frequency, Ventilation fan motor, Cooling tower motors, Compressor motors and three-phase AC asynchronous motors with international standard and IE2、IE3, Low voltage high power motors, YX3 series high efficiency motors, YB3 series flameproof three-phase asynchronous motors.

Our company has passed certification of ISO9001, ISO14001, ISO10012 and the standardization of safety production enterprise. While our products has passed the Chinese Compulsory Certification and EU CE certification. Our motors have excellent, reliable quality and have also won the famous-brand products in Jiangsu Province. We have established partnerships with a number of research institutes, which ensures our expertise in technique and ability in developing new products. This science and technology oriented company enjoys a number of national technology patents. We produce not only general motors but also particular motors to meet the needs of different customers. A variety of them were rated as high-tech product by technology department.

If you are interested in any of our products or would like to discuss a custom order, please contact us and you will be welcomed to visit our enterprise at any time. We are looking forward to forming successful business cooperation with new clients around the world.

贝能
BEINENG

江苏利得尔电机有限公司
Jiangsu Leader Standard Motors Co., Ltd

企业资质 CERTIFICATES



目录 Contents

1. 公司简介 Company Introduction.....	1
2. 电机概述 Brief Introduction.....	5
3. 电机一般技术规范 General technical specifications.....	6
4. YE3系列 (GB3 IE3) 超高效三相异步电动机.....	13
YE3 Series (IE3 GB3) Premium Efficiency Three Phase Asynchronous Motors	
5. LE3系列 (IE2) 高效率三相异步电动机.....	26
LE3-Series (IE2) High Efficiency Three Phase Asynchronous Motors	
6. YX3系列 高效(EFF1)标准三相异步电动机.....	30
YX3 Series (EFF1) High Efficiency Three Phase Asynchronous Motors	
7. Y2系列三相电动机.....	31
Y2 Series Three Phase Induction Motors	
8. YVF2系列变频调速三相异步电动机.....	35
YVF2 Series Frequency Variable Speed Regulation Motors	
9. YD2系列 变极多速三相异步电动机.....	37
YD2 Series Pole-Changing Multi-speed Three Phase Induction Motors	
10. Y3 低压大功率三相异步电动机.....	38
Y3 Series Low Voltage High Power Three Phase Induction Motors	
11. YEJ2系列电磁制动三相异步电动机.....	40
YEJ2 Series AC Squirrel-cage Brake Motors	
12. Y(IP23) 系列三相电动机.....	42
Y (IP23) Series Three Phase Induction Motors	
13. YGVF系列辊道用变频调速三相异步电动机.....	44
YGVF Series Converter Adjustable Speed for Roller Table Induction Motors	
14. YBF系列风机用隔爆型三相异步电动机.....	47
YBF Series of Three phase Asynchronous Flameproof Motors for Blower	
15. YB3系列隔爆型高效三相异步电动机.....	49
YB3 Series Flameproof Three phase Asynchronous Motor	

2. 电机概述

BRIEF INTRODUCTION

三相异步电动机，低成本，高的技术，很容易适应各种领域，如机械工具，泵，鼓风机和压缩机以及运输，混合物，印刷，农业机械，食品加工等在不存在易燃，易爆或腐蚀性气体使用。交流电动机分为4大类：

高效电机
标准电机。
低压大功率电机
特殊应用的电机

Three-phase asynchronous motors, low cost, high technology, it is easy to adapt to a variety of areas, such as machine tools, pumps, blowers and compressors as well as transportation, mixture, printing, agriculture machinery and food processing in the absence of flammable, explosive or corrosive gas use. AC motors are divided into 4 classifications:

High efficiency motors
Standard efficiency motors.
Low voltage high power motor
Special Application motors

标准性能

机座尺寸: 80-400

输出功率: 0.55千瓦-500千瓦

极数: 2,4,6,8

防护等级: IP54, IP55, IP65

电压: 380V or 220/380V, 380/660V, 230/400V, 400/690V

频率: 50Hz/60Hz

绝缘等级: "F" 级为标准, "H" 级可应要求提供

温升: B级 (80K)

外壳: 全封闭

轴承: NSK/NTN/SKF或中国品牌

基本结构类型: B3, B5, B35, B14, B34

冷却方式: IC411

Standard Features

Frame size: 80-400

Output power: 0.55kw-500kw

Poles: 2,4,6,8

Degree of protection: IP54 IP55 IP65

Voltage: 380V or 220/380V, 380/660V, 230/400V, 400/690V

Frequency: 50Hz/60Hz

Insulation Class: "F" class as standard, "H" class is available upon request

Temperature: Class B(80K)

Enclosure: TEFC

Bearing: NSK/NTN/SKF or Chinese brand

Basic type of Construction: B3, B5, B35, B14, B34

Cooling Method: IC411

其它可供需要的选项

温度传感器: 绕组和/或轴承上的 PTC, PT100

用于防潮加热带

驱动端: NU 滚子轴承, 角接触轴承, 绝缘轴承

特别涂装: 对于危险环境如高湿度, 高咸地区

不锈钢轴: 更强的刚性, 抗腐蚀

接线盒: 从出轴端看, 可以在顶部, 左或右边

电缆接头和盲盖: 塑料, 铜, 钢, 不锈钢 或只有引出线

服务系数: 1.0, 1.15, 1.25

可根据需要有更多的可用选项

Other options can be offered as required:

Thermal sensors: PTC, PT100 for windings and/or bearings.

Space heater for anti-humidity.

Driving application: NU roller bearings, angular contact bearings, insulated bearing.

Special painting: For hazardous environment such as highly humidity, highly salty area.

Stainless steel shaft: Stronger rigidity, anti-corruption.

Terminal box: From D-end, can be on top, right and left.

Cable gland and blind cap: Plastic, copper, steel, stainless steel or Fly lead.

Service factor: 1.0, 1.15, 1.25

More options available, on request

3. 电机一般技术规范

GENERAL TECHNICAL SPECIFICATIONS

一、基本技术条件简介 Brief Introduction

1. 结构与安装型式

Type of Constructions and Mounting Arrangements

1.1 符合GB997及IEC34-7的规定, 图示及代号见图1所标注的说明。

According to terms of GB997 and IEC34-7, showing as the following Fig.1

基本结构型式 Type of construction	机座带底脚, 端盖无凸缘 Frame with feet, Endshield without flange					
安装结构型式 Mounting arrangement	B3	B6	B7	B8	V5	V6
示意图 Diagram						

基本结构型式 Type of construction	机座无底脚, 端盖有凸缘 Frame without feet, Endshield with flange and hole			机座带底脚, 端盖有凸缘 Frame with feet, Endshield with flange and hole		
安装结构型式 Mounting arrangement	B5	V1	V3	B35	V15	V36
示意图 Diagram						

基本结构型式 Type of construction	机座无底脚, 端盖有小凸缘 Frame without feet, Endshield with flange and spigot		机座带底脚, 端盖有小凸缘 Frame with feet, Endshield with flange and spigot
安装结构型式 Mounting arrangement	B14	V18	B34
示意图 Diagram			

图1 (Fig.1)

1.2 外壳防护等级 Degree of Protection

外壳防护主要是防止人体触电或近壳内带电部分或转动部分, 防止固体异物进入和防止由于进水, 油等而引起有害影响, 符合GB4942及IEC34-5规定, 防护形式的代号及含义如表1。

The main function is to avoid getting the electric shock, contacting of the rolling parts and to prevent solid object, water and oil from entering. It conforms to GB4942 and IEC34-5.



代号 Code	含义 Means	第一位数字 Initial No.	含义 Means	第二位数字 Second No.	含义 Means
IP	国际防护形式 International Protection	2	防大于12mm固体 (如手指等) > 12mm solid objection (such as finger)	1	防垂直滴水 drop water
				3	防淋水 drench water
		4	防大于1mm固体 > 1mm solid object	4	防溅水 splash water
				5	防喷水 spray water
		5	防尘 dust	6	防海浪 sea tide

表1 (Table 1)

2. 轴承 Bearing

2.1 轴承型号 Bearing specification

机座号 Frame Size	轴伸端 Drive End	非轴伸端 Non-drive End
80	6204-2RZ/C3	6204-2RZ/C3
90	6205-2RZ/C3	6205-2RZ/C3
100	6206-2RZ/C3	6206-2RZ/C3
112	6206-2RZ/C3	6206-2RZ/C3
132	6208-2RZ/C3	6208-2RZ/C3
160	6309/C3	6209/C3
180	6311/C3	6211/C3
200	6312/C3	6212/C3
225 (2P)	6312/C3	6312/C3
225 (4~6P)	6313/C3	
250 (2P) B3、B35	6313/C3	6313/C3
250 (4~6P) B3、B35	6314/C3	
280 (2P) B3、B35	6314/C3	6314/C3
280 (4~6P) B3、B35	6317/C3	
315 (2P) B3、B35	6317/C3	6317/C3
315 (4~6P) B3、B35	6319/C3	6319/C3
355 (2P) B3、B35		
355 (4~6P) B3、B35	6322/C3	6322/C3

2.2 最大径向力 (对皮带轮传动系统) The maximum radial force (on the belt drive system)

最大径向力: 径向负载的最大允许径向力 F_0 (单位: N) 是基于以下前提条件而言的, 即负载力的作用线 (即皮带轮的中心) 必须在自由轴伸的长度以内 (长度为 X), 长度 X (mm) 是从轴肩到 F 力作用线之间的距离。因此, 长度 X max 就是轴伸的总长度, 50Hz 情况下的最大径向力。

The maximum radial force: the maximum permissible radial load radial force F_0 (unit: N) is based on the premise conditions, the line of action that the load force (i.e. pulley center) must be free within the shaft extension length (length X), length of X (mm) is from the shaft shoulder to F masterpiece in between the lines Distance. Therefore, the total length of length X Max is the maximum radial force of shaft extension, 50Hz conditions.

最大径向力对照表 (50Hz) Maximum radial force (50Hz)

机座号 Frame	径向力 (Radial force) N							
	2P		4P		6P		8P	
	X=0	X=max	X=0	X=max	X=0	X=max	X=0	X=max
80	485	400	625	515	735	605	815	675
90	725	605	920	775	1090	910	1230	1030
100	1030	840	1310	1060	1550	1250	1720	1400
112	1010	830	1270	1040	1520	1240	1690	1380
132	1490	1180	1940	1530	2260	1780	2500	1980
160	1540	1210	2040	1590	2330	1820	2660	2080
180	2000	1550	2350	1950	2800	2250	3050	2500
200	2550	2100	3350	2750	3900	3200	4150	3450
225	3050	2550	3750	2950	4550	3600	4850	3900
250	3650	2950	4400	3600	5350	4350	5700	4700
280	3350	2800	8700	7200	10800	8900	11900	9850
315	3950	3350	9900	8100	12100	9900	13300	10900
355	4250	3750	10300	9000	13000	11000	14400	12000

3 电动机接线盒数据 Motor terminal box data

Frame Size	进线口螺纹规格	接线端子规格	接地端子规格
	Cable entry size	Terminal bus	The ground terminal bus
80~100	M24×1.5	M4	M5
112~132	2-M30×2	M5	M5
160~180	2-M36×2	M6	M6
200~225	2-M48×2	M8	M8
250~280	2-M63×1.5	M10	M10
315	2-M63×1.5	M12	M12
355	2-M72×2	M12	M12

接线盒位置:根据用户需要可以选择顶出线,右出线或者左出线。(从轴伸端看)
The position of terminal box: on top, right or left can be chosen. (view from shaft extension end)

4 电机常见的工作制 Normal Duty Type

S1 (连续工作制): 电机保持在恒定负载下运行至热稳定状态。

S1 (continuous duty)-the motor operated under rated condition continuously.

S2 (短时工作制): 在恒定负载下按给定的时间运行, 电机在该时间内不足以达到热稳定, 随之停机并断电, 其时间足以使电机再度冷却到与冷却介质温度之差在2K以内。本工作制简称为S2, 随后应标以工作制的持续时间。如: S2 60min。

S2 (short time duty)-the motor is running under a constant load for a period, and to be shut off before the temperature rise stably. Then the motor will not run again until the temperature between it and the cooling medium lower than 2K.

S3 (断续周期工作制): 是一系列相同的工作周期, 每一周期包括一段恒定负载运转的时间和一段停止并断电的时间。在这种类型中每一周期的启动电流应对电动机的温升无明显的影响; 每10分钟为一工作周期。即每小时启动六次。本工作制简称为S3, 随后应标以负载持续率。如: S3 25%。

S3 (intermittent periodic duty)-It is a cycles identical in duration, a duty cycle being length of time spent running at constant duty, and at rest and de-energized. Based on a duty cycle of 10 minutes, i.e. 6 starts / hour, it represents the condition in which heating during starting should not significantly affect the temperature rise.

5 使用条件: 海拔不超过1000m。环境温度随季节变化, 但最高不超过+40℃, 最低不低-15℃。

Circumstance for use: the altitude not exceeding 1000m above sea level. The ambient temperature subject to seasonal variations but not exceeding 40℃ and not less than -15℃.

6 接线方式 Connection Mode

6.1 三相单速电机 Three phase motor (single speed)

通常有两种接线方式, 即△形接法和Y形接法, 如图2所示。

It can be connected to two modes △ and Y as the following Fig.2 shows.



图2 (Fig.2)

如果电机在额定电压 U_N 下是Y形接法, 则该电机可改成△形接法直接运行于 $U_N/\sqrt{3}$ 的电压下。此时电机的额定电流为 $I_{\Delta}=\sqrt{3} I_Y$ 。
If the power supply is connected to Y mode and the voltage symbolized U_Y , the voltage of motor connected to Δ mode has following relations. $U_{\Delta}=U_Y/\sqrt{3}$, and the current should be $I_{\Delta}=\sqrt{3} I_Y$.

6.2 三相电压单速电机. Three phase motor(double voltages)

若电机在两种成倍数的电压下均能使用 (如220V / 440V, 230V / 460V等), 则该电机一般有2Y / Y接法和2△ / △两种接法(见图3), 出线端标志如表2所示。

If the motor can be used in double voltages (such as NEMA motor, It can be operated under 230V and 460V), the motor has two connections 2Y / Y and 2△ / △, which showing as the following Fig.3 and the mark of the terminals shown as Table 2.

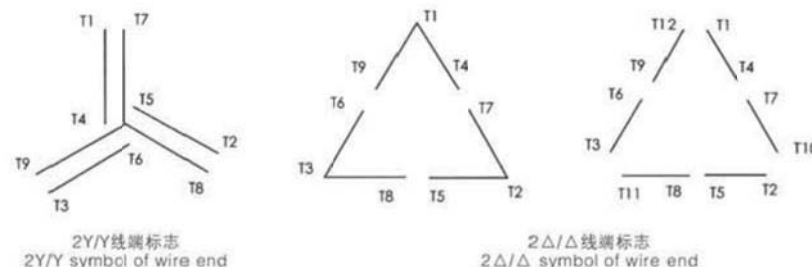


图3 (Fig.3)

电压 Voltage	接法 Connection	L1	L2	L3	端子连接 Connected
230V	2Y	T1、T7	T2、T8	T3、T9	(T4、T5、T6)
460V	Y	T1	T2	T3	(T4、T7), (T5、T8), (T6、T9)
230V	2△	(T1、T6、T7、(T12)	(T2、T4、T8、(T10)	(T3、T5、T9、(T11)	——
460V	△	T1	T2	T3	(T4、T7), (T5、T8), (T6、T9)

表2 (Table 2)

6.3 三相多速电机 Three phase motor (double speed)

三相双速电机一般设计成单绕组变极调速, 因此通常用在直接启动场合。其接线方法一般是△ / 2Y或Y / 2Y(见图4), 而三速电机的出线端子则至少有9个, 进线端子与速度的对应关系如表3。

Three phase, two-speed motor is commonly designed to single winding, pole adjustable motor, so it can be used in the situation of starting directly. The connection mode is $\Delta / 2Y$ (as Fig.4). The symbols of the terminals are shown in table 3.



图4 (Fig.4)

	二速 Double speed	三速 Three speed
低速 Low speed	1U、1V、1W	1U、1V、1W
中速 Middle speed	——	2U、2V、2W
高速 High speed	2U、2V、2W	3U、3V、3W

表3 (Table 3)

二、常用电气参数的计算 Common measurement units and conversion

转矩(N·m)	$T = \frac{\text{输出功率(KW)}}{\text{转速(r/min)}} \times 9550$	Torque	$T = \frac{\text{Output(KW)}}{\text{Speed(r/min)}} \times 9550$
额定电流(A)	$I_n = \frac{\text{输出功率(W)}}{\sqrt{3} \times \text{电压(V)} \times \text{功率因数} \times \text{效率}}$	Rated Current	$I_n = \frac{\text{Output(W)}}{\sqrt{3} \times \text{Voltage(V)} \times \text{power Factor} \times \text{Efficiency}}$
同步转速(r/min)	$n_s = \frac{120 \times \text{频率(Hz)}}{\text{极数}}$	Syn. Speed	$n_s = \frac{120 \times \text{Frequency(Hz)}}{\text{Poles}}$
转差率(%)	$S = \frac{\text{同步转速(r/min)} - \text{额定转速(r/min)}}{\text{同步转速(r/min)}}$	Slip (%)	$S = \frac{\text{Syn.Speed(r/min)} - \text{Rated Speed(r/min)}}{\text{Syn.Speed(r/min)}}$

三、性能容差范围 Tolerance

序号	电气性能名称 Electrical performance description	容差 Tolerance
1	效率 η Efficiency	$\leq 150\text{kW}$ $> 150\text{kW}$ -0.15(1- η) -0.10(1- η)
2	功率因数 Power Factor	- (1-cos Φ) / 6, 最少 (min) -0.02, 最多 (max) -0.07
3	堵转转矩倍数 Locked Rotor Torque	-15%
4	最小转矩倍数 Pull up Torque	-15%
5	最大转矩倍数 Breakdown Torque	-10%
6	堵转电流倍数 Locked Rotor Current	+20%

四、绝缘等级和温升极限 Insulation class and limit of temperature rise

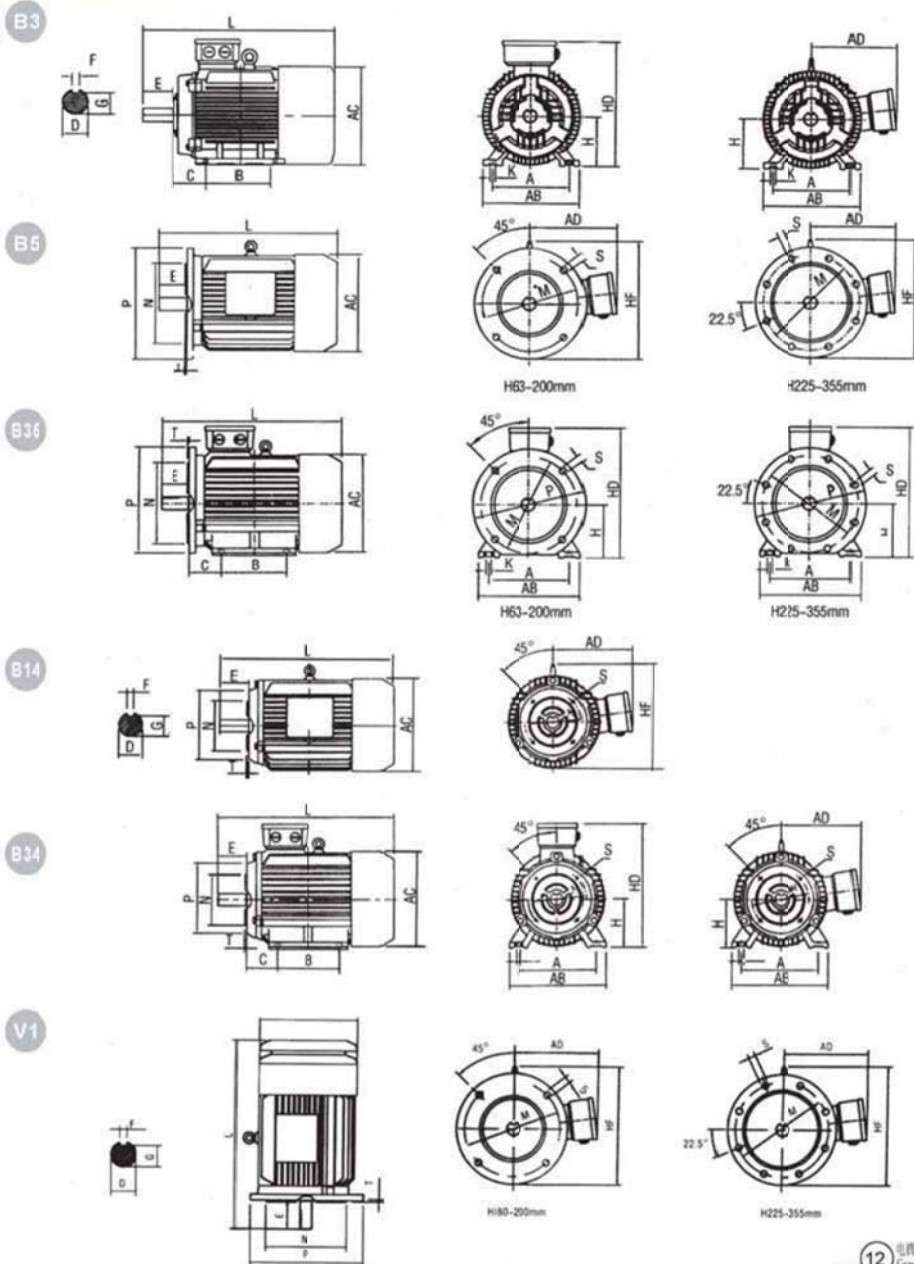
电机为了可靠运行在带电部件和壳体之间需要用绝缘材料加以隔离, 而绝缘材料的使用寿命与其材料本身的绝缘等级及使用温度有很大的关系。电机作为一个能量转换或信号转换元件, 在运转过程中本身存在着能量损耗, 有部分能量损耗造成自身温度升高, 在一般状态下, 绝缘材料等级, 承受最高使用极限温度。用电阻法测量电机的温升极限值之间符合表4的规定, 在此温升限值内电机应能正常工作。符合GB755和IEC34-1的规定。

It is necessary to separate with insulation material between electric parts and casting. Life of insulation material rests on the insulation degree and the temperature rise of it. The motor is an element to conversion the energy and signal. The motor consumes energy itself and causes temperature rising during its running. Normally insulation Agree and limit of Temperature rise in method of resistance check are according with table 4 as following. It is according to GB755 and IEC34-1.

绝缘等级 Class of insulation system	使用极限温度 Temperature Limit	温升限值 Limit of Temperature Rise
E	120°C	75K
B	130°C	80K
F	155°C	105K
H	180°C	125K

表4 (Table 4)

五、外形及安装尺寸 Dimensions



4.YE3系列 (GB3 IE3) 超高效三相异步电动机

YE3 SERIES (GB3 IE3) PREMIUM EFFICIENCY THREE PHASE ASYNCHRONOUS MOTORS

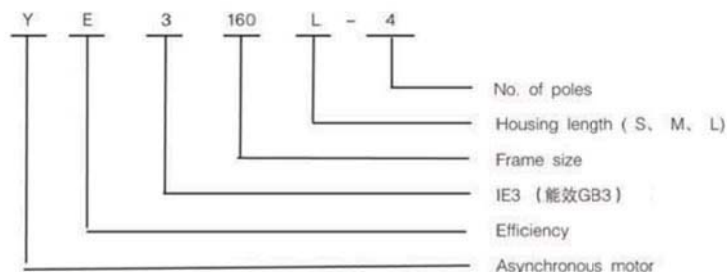
YE3 系列超高效电机效率指标符合 IEC60034-30(IE3) 和 GB18613-2020(GB3), 功率从 0.75 至 355 千瓦, 可根据客户要求定做。
YE3 series premium efficiency motor complying with IE3 efficiency levels according to IEC60034-30 and GB 18613-2020 3 levels, power from 0.75 to 355 kW, can be customized according to customer requirements.



应用于水泵, 风机, 破碎机, 皮带输送机, 面粉厂, 离心机, 冲床, 电梯, 包装设备, 研磨机等

Typical Applications: Pumps, Fans, Crushers, Conveyor belts, Mills, Centrifugal machines, Presses, Elevators, Packaging equipment, Grinders and others

电动机型号含义 YE3 DESIGNATION



产品系列型谱 Motor series spectrum

Table 1

机座号 Frame size	同步转速 Synchronous speed r/min		
	3000	1500	1000
	功率 Output kW		
80M 1	0.75	-	-
80M 2	1.1	0.75	-
90S	1.5	1.1	0.75
90L	2.2	1.5	1.1
100L1	3	2.2	1.5
100L2		3	
112M	4	4	2.2
132S1	5.5	5.5	3
132S2	7.5		

机座号 Frame size	同步转速 Synchronous speed r/min		
	3000	1500	1000
	功率 Output kW		
132M 1	-	7.5	4
132M2			5.5
160M 1	11	11	7.5
160M 2	15		
160L	18.5	15	11
180M	22	18.5	-
180L	-	22	15
200L1	30	30	18.5
200L2	37		22
225S	-	37	-
225M	45	45	30
250M	55	55	37
280S	75	75	45
280M	90	90	55
315S	110	110	75
315M	132	132	90
315L1	160	160	110
315L2	200	200	132
355M	250	250	200
355L	315	315	250
3551	355	355	-
3552	-	-	315

性能数据 SPEED 3000RPM 2P 50Hz PERFORMANCE DATA

型号 Type	功率 kW	额定转速 Rated Speed r/min	效率		功率因数 COSφ	额定电流 Rated Current(A) 380V 400V 415V	额定转矩 Rated Torque N·m	堵转电流 Idr/n	堵转转矩 Tbr/n	堵转功率 Tmax/n	噪声Sound power level(dB(A)		重量 Weight kg
			Efficiency at 100% load	Efficiency at 75% load							空载No load	负载 Full load	
YE3-80M1-2	0.75	2870	80.7	80.8	0.82	1.72	1.64	1.58	2.4	7			19
YE3-80M2-2	1.1	2880	82.7	82.8	0.83	2.43	2.31	2.23	3.5	7.3	62	64	22
YE3-90S-2	1.5	2900	84.2	84.4	0.85	3.22	3.06	2.95	4.8	7.6			28
YE3-90L-2	2.2	2900	85.9	86.0	0.86	4.58	4.35	4.19	7.0	7.6			33
YE3-100L-2	3	2900	87.1	87.2	0.87	6.02	5.71	5.51	9.6	7.8	68	70	43
YE3-112M-2	4	2910	88.1	88.2	0.88	7.84	7.45	7.18	12.7	8.3			53
YE3-132S1-2	5.5	2915	89.2	89.2	0.89	10.6	10.1	9.75	17.5	8.3	76	78	71
YE3-132S2-2	7.5	2915	90.1	90.1	0.89	14.4	13.7	13.2	23.9	7.9			79
YE3-160M1-2	11	2940	91.2	91.2	0.89	20.8	19.8	19.1	36.0	8.1			124
YE3-160M2-2	15	2945	91.9	92.0	0.90	27.8	26.5	25.5	47.8	8.1	76	78	135
YE3-160L-2	18.5		92.4	92.5	0.90	34.2	32.5	31.3	59.9	8.2			145
YE3-180M-2	22	2960	92.7	92.7	0.90	40.5	38.5	37.1	70.0	8.2	81	83	202
YE3-200L-2	30	2965	93.3	93.4	0.91	54.9	52.1	50.3	96.5				242
YE3-220M-2	37		93.7	93.8	0.91	67.4	64.0	61.7	118	7.6	84	86	264
YE3-250M-2	45	2980	94.0	94.2	0.91	80.8	76.8	74.0	143	7.7			308
YE3-280S-2	55	2970	94.3	94.3	0.92	98.5	93.5	90.2	175				399
YE3-280M-2	75		94.7	94.8	0.92	124	117	112	239		85	87	530
YE3-280L-2	90		95.0	95.1	0.93	160	152	146	287	7.1			592
YE3-315S-2	110		95.2	95.2	0.93	195	185	179	360				910
YE3-315M-2	132	2975	95.4	95.5	0.93	234	222	214	430	7.1			1015
YE3-315L-2	160		95.6	95.6	0.93	279	265	256	569		92	94	1060
YE3-355M-2	200		95.8	95.8	0.93	349	331	319	637				1335
YE3-355L-2	250		95.8	95.8	0.93	436	414	399	796				1650
YE3-380L-2	315	2980	95.8	95.8	0.93	548	522	503	1023	7.2			1800
YE3-380L-2	355		95.8	95.8	0.93	619	588	567	1130		104	106	2050

性能数据 SPEED 1500RPM 4P 50Hz PERFORMANCE DATA

型号 Type	功率 kW	额定转速 Rated Speed r/min	效率		功率因数 COSφ	额定电流 Rated Current(A) 380V 400V 415V	额定转矩 Rated Torque N·m	堵转电流 Idr/n	堵转转矩 Tbr/n	堵转功率 Tmax/n	噪声Sound power level(dB(A)		重量 Weight kg
			Efficiency at 100% load	Efficiency at 75% load							空载No load	负载 Full load	
YE3-80M2-4	0.75	1430	82.5	82.7	0.75	1.84	1.75	1.69	4.8	6.5			24
YE3-90S-4	1.1	1435	84.1	84.2	0.76	2.61	2.48	2.39	7.0	6.6			32
YE3-90L-4	1.5		85.3	85.4	0.77	3.47	3.30	3.18	9.6	6.9			36
YE3-100L-4	2.2	1445	86.7	86.9	0.80	4.76	4.52	4.36	14.0	7.5			43
YE3-100L-4	3		87.7	87.8	0.82	6.34	6.02	5.80	19.1				49
YE3-112M-4	4	1450	88.0	88.7	0.82	8.37	7.95	7.66	25.5	7.8			63
YE3-132S-4	5.5	1460	89.6	89.7	0.83	11.2	10.7	10.3	35.0				80
YE3-132M-4	7.5		90.4	90.6	0.84	15.0	14.3	13.7	47.8	7.5	69	74	100
YE3-160M-4	11	1470	91.4	91.5	0.86	21.5	20.4	19.7	70.0	7.6			126
YE3-160L-4	15		92.1	92.3	0.86	28.8	27.3	26.3	95.5		66	71	148
YE3-180M-4	18.5		92.6	92.7	0.86	35.3	33.5	32.3	118				190
YE3-180L-4	22	1475	93.0	93.0	0.86	41.8	39.7	38.3	140		75	79	205
YE3-200L-4	30		93.6	93.8	0.86	50.6	47.8	46.1	191	7.2			260
YE3-225S-4	37		93.9	94.0	0.86	60.6	56.1	53.7	236	7.3			312
YE3-250M-4	45		94.2	94.4	0.86	68.4	62.7	60.3	287		73	76	338
YE3-280M-4	55	1480	94.6	94.9	0.87	86.1	80.3	77.8	360	7.4			412
YE3-280S-4	75		95.0	95.1	0.88	120	115	112	478		74	77	574
YE3-315M-4	90		95.2	95.4	0.88	153	145	140	637	7.2	78	81	650
YE3-315S-4	110		95.4	95.5	0.89	197	187	180	700				925
YE3-315M-4	132		95.6	95.7	0.89	236	224	216	840				1032
YE3-355L-4	160	1485	95.8	95.8	0.89	285	271	261	1019				1105
YE3-355M-4	200		96.0	96.0	0.90	352	334	322	1273	7	84	87	1205
YE3-380M-4	250		96.0	96.1	0.90	440	418	403	1591				1685
YE3-380L-4	315	1490	96.0	96.0	0.91	554	526	507	2005				1790
YE3-380L-4	355		96.0	96.0	0.91	638	607	585	2260				2160

性能数据 SPEED 1000RPM 6P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	功率因数	额定电流	额定转矩	堵转电流/额定电流	堵转转矩/额定转矩	最大转矩/额定转矩	转动惯量	噪声 Sound power levels(dBA)	重量
Type	kW	Rated Speed r/min	Efficiency at 75% load	Efficiency at 100% load	Efficiency at 50% load	Rated Torque N·m	Rated Current 380V 400V 415V	Blocked Torque N·m	Blocked Current A	Blocked Torque N·m	Blocked Current A	Weight kg
YE3 90S-6	0.75	925	78.9	79.1	77.3	2.03	1.93	1.86	7.2	5.8	57	29
YE3 90L-6	1.1	925	81.1	81.1	79.4	2.83	2.69	2.59	10.5	5.9	64	36
YE3 100L-6	1.5	945	82.5	82.6	80.9	3.78	3.60	3.47	14.3	6	61	44
YE3 112M-6	2.2	960	84.3	84.4	82.6	5.36	5.08	4.91	21.0	6	65	54
YE3 132S-6	3	965	85.6	85.8	83.9	7.20	6.84	6.59	28.7	6.2	69	69
YE3 132M-6	4	970	86.8	86.9	85.1	9.46	8.99	8.66	38.2	6.8	69	88
YE3 132M-6	5.5	970	88.0	88.2	86.2	12.7	12.0	11.6	52.5	7	76	101
YE3 160M-6	7.5	975	89.1	89.3	87.3	16.2	15.4	14.8	71.6	6.7	74	125
YE3 160L-6	11	975	90.3	90.5	88.5	23.1	22.0	21.2	105	6.9	74	140
YE3 180L-6	15	980	91.2	91.3	89.4	30.9	29.3	28.2	143	7.2	84	190
YE3 200L-6	18.5	980	91.7	91.9	89.9	37.8	36.0	34.7	177	7	85	230
YE3 200L-6	22	980	92.2	92.3	90.4	44.8	42.5	41.0	210	7	85	250
YE3 225M-6	30	985	92.9	93.1	91.0	63.3	59.1	56.2	287	6.9	82	292
YE3 250M-6	37	985	93.3	93.3	91.4	81.7	76.1	72.7	353	7.2	84	380
YE3 280S-6	45	989	93.7	93.8	91.8	103	96.1	91.6	430	7.2	84	500
YE3 280M-6	55	989	94.1	94.2	92.1	125	117.1	111.6	525	7.2	84	562
YE3 315S-6	75	990	94.6	94.6	92.7	161	151.1	143.1	716	7.2	84	872
YE3 315M-6	90	990	94.9	95.0	93.0	187	176.1	166.1	860	7.2	84	963
YE3 315L-6	110	990	95.1	95.2	93.2	224	209.1	199.1	1051	7	84	1072
YE3 315L-6	132	990	95.4	95.4	93.5	264	242.1	229.1	1261	7	84	1180
YE3 355M-6	160	990	95.6	95.6	93.7	315	290.1	271.1	1528	7	84	1690
YE3 355L-6	200	990	95.8	95.8	93.8	365	334.1	310.1	1910	7	84	1790
YE3 355L-6	250	990	95.8	95.8	93.9	433	417.1	388.1	2268	7	84	2045
YE3 355L-6	315	990	95.8	95.8	93.9	522	502.1	465.1	2768	7	84	2560

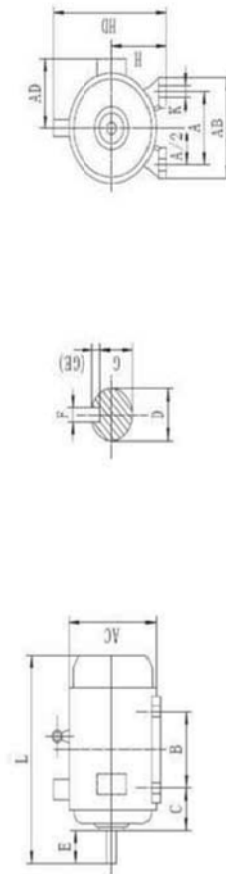
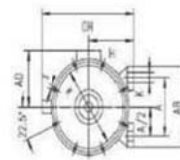


Table 5 机座带底脚、端盖无凸缘的电动机数据 IMB3 Dimensional Drawings

Frame Size	POLES	Mounting dimensions and tolerances										Contour size				
		A	A/2	B	C	D	E	F	G	H	I	J	K	L	M	N
80M	2	125	62.5	100	50	±19	40	6	15.5	80	10	165	175	145	220	295
90S	2	140	70	125	56	±24	50	8	20	90	12	180	195	160	255	360
90L	2	160	80	140	63	±28	60	10	24	100	15	200	215	180	270	390
100L	2	190	95	170	70	±32	80	12	30	112	18	220	240	190	300	435
112M	2	216	108	190	80	±36	110	14	36	132	20	270	275	210	345	510
132S	2	254	127	210	108	±42	120	16	42	150	22	320	330	255	420	680
132M	2	279	139.5	231	121	±48	140	18	48	180	25	355	380	280	455	730
160M	2	318	159	305	133	±55	160	20	55	200	28	390	420	305	500	785

11

[illegible]

机座号80-200

Table 6 机座带底脚、端盖上有凸缘(带通孔)的电动机数据 IMB35 Dimensional Drawings

3

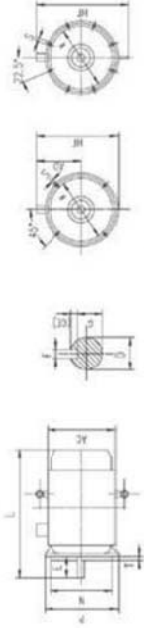
Frame Size	Mounting dimensions and tolerances														Contour size							
	A		B		C		D		E		F		G		H		K		L			
	基本尺寸	基本尺寸	基本尺寸	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	
80M	125	62.5	50	±	19	40	±0.3	6	15.5	80	10	165	175	145	220	265						
	140	70	56	1.5	24	50	±0.3	8	20	90	10	180	195	160	255	360						
	160	80	63		28	60	±0.3		24	100	12	200	215	180	270	435						
	112M	190	95	140	70	±	2.0	38	80	110	±0.4	12	320	340	190	300	475					
132S	216	108	178		38	±0.18 +0.052	10	33	132	15	330	340	210	345	545							
132M	216	108	178		38	±0.18 +0.052	10	33	132	15	330	340	210	345	545							
160M	254	127	254		42	110	±0.4	12	37	160	180	355	380	280	455	730						
160L	279	139.5	279		48	110	±0.4	14	42.5	180	200	390	420	305	500	785						
180M	279	139.5	279		48	110	±0.4	14	42.5	180	200	390	420	305	500	785						
180L	318	159	305	133	55	120	±0.4 +0.052	16	49	200	220	420	450	330	550	830						
200L	318	159	305	133	55	120	±0.4 +0.052	16	49	200	220	420	450	330	550	830						

Table 6 (Continued)

Frame Size	POLES	Mounting dimensions and Tolerances										Contour size												
		A	A/2	B	C		D		E		F		G ^a		H		K ^b		AB	AC	AD	HD	L	
		基本尺寸	基本尺寸	基本尺寸	极限尺寸	基本尺寸	极限尺寸	基本尺寸	极限尺寸	基本尺寸	极限尺寸	基本尺寸	极限尺寸	基本尺寸	极限尺寸	基本尺寸	极限尺寸	基本尺寸	极限尺寸	基本尺寸	基本尺寸	基本尺寸	基本尺寸	公差
225S	4~6			286		60	140	±0.10	18			53												825
225M	2	356	178	311	149	55	110	±0.10	16			49				225		19		435	470	335	560	830
	4~6					60						53												855
250M	2	406	203	349	168				18							250				484	510	370	620	915
280S	2			368		65	140					58						24						990
	4~6	457	228.5		190	75	±0.08 +0.11	75	18			67.5				280				550	580	410	680	1030
280M	2			419		65						58												
	4~6					75			20			67.5												
315S	2			406		65			18			58												1210
	4~6					80	170		22			71												1240
315M	2	508	254	457	216	65	140					58												1320
	4~6					80	170	±0.10	22			71				315				628	645	530	845	1350
315L	2			508		65	140					58												1330
	4~6					80	170		22			71												1350
355M	2			560		75	±0.08 +0.11	140				67.5						28						1500
	4~6					95	170		25			86												1530
355L	2					75	±0.08 +0.11	140				67.5												1500
	4~6	610	305		254	95	±0.08 +0.11	170	25			86				355				730	710	645	1010	1530
355L	2			630		75	±0.08 +0.11	140				67.5												1605
355L	4					95	±0.08 +0.11	170				86												1645
355L	6								25															

Table 6 (Continued)

Table 6 (Continued)													
Frame Size	POLES	M		N		P ^c		R ^d		S ^b		T	S-hole number
		基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	位置公差	极限偏差		
80	2~6	105	±0.014 -0.011	130	±1.5	200	±1.5	12	Φ1.0 ^①	+0.43 0	3.5	0 -0.12	4
90		180		250		15		4					
100		265		300		19		5					
112		300		350		24		6					
132		350	400	±4.0	±3.0	+0.32 0	24	Φ2.0 ^①	0 -0.15				
160		400	450							6			
180		500	550										
200		600	660										
225	2~6	740	680	800									
250													
280													
315													
355													



机座号 80~200

机座号 225~280

Table 7 卧式安装, 机座不带底脚, 端盖上有凸缘 (带通孔) 的电动机数据 IMB5 Dimensional Drawings H80~280

Frame Size	Poles	Mounting dimensions and tolerances										Contour size		
		D	E	F	G ^a	M	N	P ^c	R ^d	S ^b	T	凸缘孔数	AC	AD
80M	2	19	40	6	15.5	165	130	200	±1.5	12	3.5	4	175	145
90S	2	24	50	8	20	180	180	250	±2.0	15	4	4	195	160
90L	2	28	60	10	24	205	230	300	±2.0	19	5	4	215	180
100L	2	38	80	12	37	300	300	350	±2.0	19	5	4	240	190
112M	2	42	110	14	42.5	350	350	400	±2.0	19	5	4	275	210
132M	2	48	140	16	49	400	400	450	±2.0	19	5	4	330	255
160M	2	55	160	18	53	450	450	500	±2.0	19	5	4	360	280
160L	2	60	170	20	58	500	500	550	±2.0	19	5	4	420	305
180L	2	65	180	22	63	550	550	600	±2.0	19	5	4	470	335
200L	2	75	200	24	67.5	600	600	650	±2.0	19	5	4	510	370
225S	2	85	225	28	77.5	700	700	750	±2.0	19	5	4	580	410
225M	2	90	240	30	82.5	750	750	800	±2.0	19	5	4	630	460

Table 7 (Continued)

Frame Size	Poles	Mounting dimensions and tolerances										Contour size					
		D	E	F	G ^a	M	N	pc	gd	S ^b	T	凸缘孔数	AC	AD	HF	L	
250M	2	60	140	18	53	500	450	550	0	±4.0	19	5	8	510	370	620	915
		65		58	±0.15												
280S	2	75	±0.5	20	67.5	550	±0.02	550	0	±4.0	19	5	8	580	410	680	990
		65	58	±0.15													
280M	2	75		18	58												1000

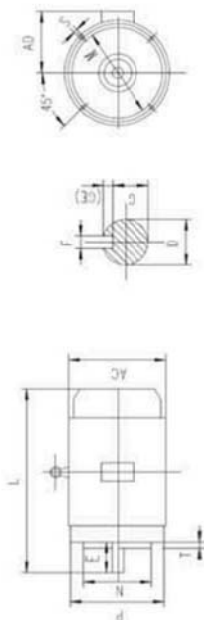


Table 9 机座不带底脚,端盖上有凸缘(带螺孔)的电动机 IMB14 Dimensional Drawings H80~112

Frame Size	POLES	Mounting dimensions and tolerances										Contour size			
		D		E		F		G ^a		M		N		P ^c	
		基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差	基本尺寸	极限偏差
80M	2~6	19	±0.03	40	±0.3	6	0 -0.03	15.5	0 -0.1	100	115	80	0 -0.02	120	145
90S		24	±0.03	50	0.3	8	0 -0.03	20	0 -0.2	115	130	95	0 -0.03	140	160
90L															
100L															
112M															

5.LE3系列 (IE2) 高效率三相异步电动机

LE3-SERIES (IE2) HIGH EFFICIENCY THREE PHASE ASYNCHRONOUS MOTORS

LE3 系列 高效 电机 效率 指标 符合 IEC60034-30(IE2), 功率从 0.55 至 355 千瓦, 可根据客户要求定做。

LE3 series high efficiency motor complying with IE2 efficiency levels according to IEC60034-30, from 0.55 to 375 kW, can be customized according to customer requirements.



应用于水泵, 风机, 破碎机, 皮带输送机, 面粉厂, 离心机, 冲床, 电梯, 包装设备, 研磨机等

Typical Applications: Pumps, Fans, Crushers, Conveyor belts, Mills, Centrifugal machines, Presses, Elevators, Packaging equipment, Grinders and others

性能数据 SPEED 3000RPM 2P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流			额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed r/min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSΦ	Rated Current(A) 380V 400V 415V			Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
LE3-80M1-2	0.75	2820	77.4	75.0	72.0	0.83	1.77	1.69	1.62	2.5	2.2	6.1	2.3	14
LE3-80M2-2	1.1	2825	79.6	77.5	74.0	0.84	2.50	2.37	2.29	3.7	2.2	7.0	2.3	15
LE3-90S-2	1.5	2830	81.3	79.5	77.0	0.84	3.34	3.17	3.06	5.1	2.2	7.0	2.3	20
LE3-90L-2	2.2	2835	83.2	81.0	80.0	0.85	4.73	4.49	4.33	7.4	2.2	7.0	2.3	25
LE3-100L-2	3	2850	84.6	83.0	82.0	0.87	6.19	5.88	5.67	10.1	2.2	7.5	2.3	32
LE3-112M-2	4	2885	85.8	85.0	84.0	0.88	8.05	7.65	7.37	13.2	2.2	7.5	2.3	39
LE3-132S1-2	5.5	2900	87.0	86.0	85.0	0.88	10.9	10.4	10.0	18.1	2.2	7.5	2.3	58
LE3-132S2-2	7.5	2900	88.1	87.0	86.0	0.88	14.7	14.0	13.5	24.7	2.2	7.5	2.3	65
LE3-160M1-2	11	2930	89.4	88.0	87.0	0.89	21.0	20.0	19.2	35.9	2.2	7.5	2.3	104
LE3-160M2-2	15	2930	90.3	89.0	88.0	0.89	28.4	26.9	26.0	48.9	2.2	7.5	2.3	112
LE3-160L-2	18.5	2930	90.9	90.0	88.5	0.90	34.4	32.6	31.5	60.3	2.2	7.5	2.3	132
LE3-180M-2	22	2945	91.3	90.0	89.0	0.90	40.7	38.6	37.2	71.3	2.0	7.5	2.3	162
LE3-200L1-2	30	2960	92.0	91.3	89.5	0.90	55.1	52.3	50.4	96.8	2.0	7.5	2.3	215
LE3-200L2-2	37	2960	92.5	92.4	90.2	0.90	67.5	64.2	61.8	119	2.0	7.5	2.3	240
LE3-225M-2	45	2960	92.9	92.5	90.7	0.90	81.8	77.7	74.9	145	2.0	7.5	2.3	290
LE3-250M-2	55	2965	93.2	92.9	91.0	0.90	100	94.6	91.2	177	2.0	7.5	2.3	357
LE3-280S-2	75	2975	93.8	93.3	91.3	0.90	135	128	124	241	2.0	7.5	2.3	495
LE3-280M-2	90	2975	94.1	94.2	91.9	0.91	160	152	146	289	2.0	7.5	2.3	530
LE3-315S-2	110	2980	94.3	94.2	92.2	0.91	195	185	178	353	1.8	7.1	2.2	850
LE3-315M-2	132	2978	94.6	94.5	92.4	0.91	233	221	213	423	1.8	7.1	2.2	1000
LE3-315L1-2	160	2978	94.8	94.7	92.7	0.92	279	265	255	513	1.8	7.1	2.2	1080
LE3-315L2-2	200	2978	95.0	95.2	92.9	0.92	348	330	318	641	1.8	7.1	2.2	1130
LE3-355M-2	250	2980	95.0	95.4	93.5	0.92	435	413	398	801	1.6	7.1	2.2	1710
LE3-355L-2	315	2980	95.0	95.6	93.9	0.92	548	520	501	1009	1.6	7.1	2.2	1855



性能数据 SPEED 1500RPM 4P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流			额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed r/min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSφ	Rated Current(A) 380V 400V 415V			Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
LE3-80M1-4	0.55	1385	73.5	71.0	67.0	0.75	1.52	1.44	1.39	3.8	2.4	5.2	2.3	14
LE3-80M2-4	0.75	1390	79.6	73.0	70.0	0.76	1.88	1.79	1.72	5.2	2.3	6.0	2.3	16
LE3-90S-4	1.1	1385	81.4	75.0	72.0	0.77	2.67	2.53	2.44	7.6	2.3	6.0	2.3	24
LE3-90L-4	1.5	1385	82.8	78.5	75.5	0.79	3.48	3.31	3.19	10.3	2.3	6.0	2.3	29
LE3-100L1-4	2.2	1410	84.3	80.0	79.0	0.81	4.90	4.65	4.48	14.9	2.3	7.0	2.3	31
LE3-100L2-4	3	1410	85.5	82.5	81.0	0.82	6.50	6.18	5.95	20.3	2.3	7.0	2.3	36
LE3-112M-4	4	1430	86.6	84.3	82.3	0.82	8.56	8.13	7.84	26.7	2.3	7.0	2.3	41
LE3-132S-4	5.5	1455	87.7	85.0	83.5	0.83	11.5	10.9	10.5	36.1	2.3	7.0	2.3	60
LE3-132M-4	7.5	1455	88.7	87.0	86.0	0.84	15.3	14.5	14.0	49.2	2.3	7.0	2.3	74
LE3-160M-4	11	1460	89.8	88.0	86.9	0.84	22.2	21.0	20.3	72.0	2.2	7.0	2.3	108
LE3-160L-4	15	1460	90.6	89.0	87.0	0.85	29.6	28.1	27.1	98.1	2.2	7.5	2.3	128
LE3-180L-4	18.5	1470	91.2	90.9	88.8	0.86	35.8	34.0	32.8	120	2.2	7.5	2.3	158
LE3-180L-4	22	1470	91.6	91.2	89.2	0.86	42.4	40.3	38.9	143	2.2	7.5	2.3	172
LE3-200L-4	30	1470	92.3	92.3	90.3	0.86	57.4	54.6	52.6	195	2.2	7.2	2.3	240
LE3-225S-4	37	1480	92.7	92.7	90.5	0.87	69.7	66.2	63.8	239	2.2	7.2	2.3	280
LE3-225M-4	45	1480	93.1	93.0	90.8	0.87	84.4	80.2	77.3	290	2.2	7.2	2.3	305
LE3-250M-4	55	1485	93.5	93.4	91.2	0.87	103	97.6	94.1	354	2.2	7.2	2.3	375
LE3-280S-4	75	1485	94.0	93.8	91.7	0.87	139	132	128	482	2.2	7.2	2.3	500
LE3-280M-4	90	1485	94.2	94.5	92.3	0.87	167	159	153	579	2.2	7.2	2.3	565
LE3-315S-4	110	1489	94.5	94.8	92.6	0.88	201	191	184	706	2.1	6.9	2.2	930
LE3-315M-4	132	1489	94.7	94.8	92.8	0.88	241	229	220	847	2.1	6.9	2.2	1020
LE3-315L1-4	160	1489	94.9	95.2	93.1	0.89	288	273	264	1026	2.1	6.9	2.2	1100
LE3-315L2-4	185	1489	94.9	95.2	93.0	0.89	333	316	305	1187	2.1	6.9	2.2	1120
LE3-315L2-4	200	1488	95.1	95.3	93.2	0.89	359	341	329	1284	2.1	6.9	2.2	1150
LE3-355M-4	250	1489	95.1	95.4	93.2	0.90	444	422	406	1603	2.1	6.9	2.2	1660
LE3-355L-4	315	1489	95.1	95.6	93.6	0.90	559	531	512	2020	2.1	6.9	2.2	1880

性能数据 SPEED 1000RPM 6P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流			额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed r/min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSφ	Rated Current(A) 380V 400V 415V			Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
LE3-80M1-6	0.37	885	62.0	60.5	56.0	0.70	1.30	1.23	1.19	4.0	1.9	4.7	2.1	15
LE3-80M2-6	0.55	885	71.0	64.0	60.0	0.72	1.63	1.55	1.50	5.9	1.9	4.7	2.1	16
LE3-90S-6	0.75	910	75.9	69.0	65.0	0.72	2.09	1.98	1.91	7.9	2.0	5.5	2.1	20
LE3-90L-6	1.1	910	78.1	72.0	68.0	0.73	2.93	2.78	2.68	11.5	2.0	5.5	2.1	24
LE3-100L-6	1.5	925	79.8	76.0	73.0	0.75	3.81	3.62	3.49	15.5	2.0	5.5	2.1	30
LE3-112M-6	2.2	935	81.8	79.5	77.0	0.76	5.38	5.11	4.92	22.5	2.0	6.5	2.1	39
LE3-132S-6	3	960	83.3	81.3	79.5	0.76	7.20	6.84	6.59	29.8	2.1	6.5	2.1	55
LE3-132M1-6	4	960	84.6	82.0	80.2	0.76	9.45	8.98	8.66	39.8	2.1	6.5	2.1	68
LE3-132M2-6	5.5	960	86.0	84.1	82.5	0.77	12.6	12.0	11.6	54.7	2.1	6.5	2.1	73
LE3-160M-6	7.5	970	87.2	86.3	84.3	0.77	17.0	16.1	15.5	73.8	2.0	6.5	2.1	104
LE3-160L-6	11	970	88.7	87.5	85.8	0.78	24.2	22.9	22.1	108	2.0	6.5	2.1	126
LE3-180L-6	15	975	89.7	89.3	87.4	0.81	31.4	29.8	28.7	147	2.0	7.0	2.1	168
LE3-200L1-6	18.5	980	90.4	90.1	88.0	0.81	38.4	36.5	35.1	180	2.1	7.0	2.1	215
LE3-200L2-6	22	985	90.9	90.3	88.0	0.83	44.3	42.1	40.6	213	2.1	7.0	2.1	230
LE3-225M-6	30	985	91.7	91.7	89.7	0.84	59.2	56.2	54.2	291	2.0	7.0	2.1	280

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流			额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed r/min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSφ	Rated Current(A) 380V 400V 415V			Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
LE3-250M-6	37	987	92.2	92.0	90.2	0.86	70.9	67.4	64.9	358	2.1	7.0	2.1	354
LE3-280S-6	45	988	92.7	92.7	90.5	0.86	85.8	81.5	78.5	435	2.1	7.0	2.1	463
LE3-280M-6	55	988	93.1	93.0	90.9	0.86	104	99.2	95.6	532	2.1	7.0	2.0	508
LE3-315S-6	75	989	93.7	93.5	91.7	0.86	141	134	129	724	2.0	7.0	2.0	860
LE3-315M-6	90	989	94.0	93.9	92.0	0.86	169	161	155	869	2.0	7.0	2.0	915
LE3-315L1-6	110	989	94.3	94.1	92.1	0.86	206	196	189	1062	2.0	6.7	2.0	1000
LE3-315L2-6	132	989	94.6	94.2	92.1	0.87	244	232	223	1275	2.0	6.7	2.0	1135
LE3-355M1-6	160	992	94.8	94.6	92.6	0.88	291	277	267	1540	1.9	6.7	2.0	1680
LE3-355M2-6	200	992	95.0	94.7	92.8	0.88	363	345	333	1925	1.9	6.7	2.0	1710
LE3-355L-6	250	992	95.0	95.0	92.9	0.88	454	432	416	2407	1.9	6.7	2.0	1890

性能数据 SPEED 750RPM 8P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流			额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed r/min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSφ	Rated Current(A) 380V 400V 415V			Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
LE3-80M1-8	0.18	645	51.0	47.5	41.0	0.61	0.88	0.84	0.80	2.7	1.8	4.0	1.8	15
LE3-80M2-8	0.25	645	54.0	51.0	45.5	0.61	1.15	1.10	1.06	3.7	1.8	4.0	1.8	16
LE3-90S-8	0.37	670	62.0	60.5	56.0	0.61	1.49	1.41	1.36	5.3	1.8	4.0	1.8	20
LE3-90L-8	0.55	670	63.0	62.0	57.0	0.61	2.17	2.07	1.99	7.8	1.8	4.0	2.0	23
LE3-100L1-8	0.75	680	71.0	71.0	67.0	0.67	2.40	2.28	2.19	10.5	1.8	4.0	2.0	27
LE3-100L2-8	1.1	680	73.0	73.0	70.0	0.69	3.32	3.15	3.04	15.4	1.8	5.0	2.0	29
LE3-112M-8	1.5	690	75.0	75.0	72.0	0.69	4.40	4.18	4.03	20.8	1.8	5.0	2.0	40
LE3-132S-8	2.2	705	78.0	78.5	75.5	0.71	6.04	5.73	5.53	29.8	1.8	6.0	2.0	55
LE3-132M-8	3	705	79.0	79.5	77.0	0.73	7.90	7.51	7.24	40.6	1.8	6.0	2.0	66
LE3-160M1-8	4	720	81.0	81.0	79.0	0.73	10.3	9.76	9.41	53.1	1.9	6.0	2.0	92
LE3-160M2-8	5.5	720	83.0	83.0	81.0	0.74	13.6	12.9	12.5	73.0	2.0	6.0	2.0	103
LE3-160L-8	7.5	720	85.5	85.5	83.5	0.75	17.8	16.9	16.3	99.5	2.0	6.0	2.0	125
LE3-180L-8	11	730	87.5	87.5	85.5	0.76	25.1	23.9	23.0	144	2.0	6.6	2.0	170
LE3-200L-8	15	730	88.0	88.0	86.0	0.76	34.1	32.4	31.2	196	2.0	6.6	2.0	220
LE3-225S-8	18.5	730	90.0	90.0	88.5	0.76	41.1	39.0	37.6	242	1.9	6.6	2.0	280
LE3-225M-8	22	730	90.5	90.7	88.7	0.78	47.4	45.0	43.4	288	1.9	6.6	2.0	300
LE3-250M-8	30	735	91.0	91.0	89.0	0.79	63.4	60.2	58.1	390	1.9	6.6	2.0	385
LE3-280S-8	37	735	91.5	91.7	90.0	0.79	77.8	73.9	71.2	481	1.9	6.6	2.0	510
LE3-280M-8	45	735	92.0	92.2	90.7	0.79	94.1	89.4	86.1	585	1.9	6.6	2.0	548
LE3-315S-8	55	735	92.8	93.0	91.0	0.81	111	106	102	715	1.8	6.6	2.0	840
LE3-315M-8	75	735	93.0	93.1	91.2	0.81	151	144	139	974	1.8	6.6	2.0	955
LE3-315L1-8	90	735	93.8	93.8	91.7	0.82	178	169	163	1169	1.8	6.6	2.0	1025
LE3-315L2-8	110	735	94.0	94.1	92.1	0.82	217	206	199	1429	1.8	6.4	2.0	1135
LE3-355M1-8	132	744	93.7	94.1	92.1	0.82	261	248	239	1694	1.8	6.4	2.0	1575
LE3-355M2-8	160	744	94.2	94.2	92.3	0.82	315	299	288	2054	1.8	6.4	2.0	1600
LE3-355L-8	200	744	94.5	94.6	92.6	0.83	387	368	355	2567	1.8	6.4	2.0	1780

性能数据 SPEED 600RPM 10P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流			额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed r/min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSΦ	Rated Current(A) 380V 400V 415V			Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
LE3-315S-10	45	590	91.5	91.7	90.0	0.75	99.6	94.7	91.2	728	1.5	6.2	2.0	835
LE3-315M-10	55	590	92.0	92.2	90.5	0.75	121	115	111	890	1.5	6.2	2.0	945
LE3-315L1-10	75	590	92.5	92.7	91.0	0.76	162	154	148	1214	1.5	6.2	2.0	1020
LE3-315L2-10	90	590	93.0	93.1	90.7	0.77	191	181	175	1457	1.5	6.2	2.0	1120
LE3-355M1-10	110	593	93.2	93.3	91.0	0.78	230	218	211	1772	1.3	6.0	2.0	1595
LE3-355M2-10	132	593	93.5	93.5	91.3	0.78	275	261	252	2126	1.3	6.0	2.0	1800
LE3-355L-10	160	593	93.5	93.6	91.3	0.78	333	317	305	2577	1.3	6.0	2.0	1940

6.YX3系列高效(EFF1)三相异步电动机

YX3 SERIES (EFF1) HIGH EFFICIENCY THREE PHASE ASYNCHRONOUS MOTORS

YX3 系列三相异步电动机是在 Y 和 Y2 系列电机的设计基础上采用了新材料和新工艺。优质冷轧硅钢片被作为磁性导电材料。此外，该系列产品符合能效限值的要求，符合 EFF1 在欧盟和 GB18613-2012 的要求，并满足国内外客户对电机一般用途。电机具有更高的效率和更好的节能效果，具有机座号：H80-355 的，功率：0.55-315kW，极数：2,4,6,8,10。

YX3 series low voltage three-phase motor is for general purpose designed with the adoption of new materials and new technology on the basis of Y and Y2 series of motors. High-quality cold-rolled silicon steel sheets are taken as the magnetic-conducting materials. Moreover, The series meets the requirements on energy efficiency limit, it meets the requirement of EFF1 in EU and GB 18613-2012, and meet domestic and international customers on motors for general purposes. Motors have higher efficiency and better energy-saving effect, with frame of H80-355, power 0.55-315kW, pole numbers of 2,4,6,8 and 10.

应用于水泵、风机、破碎机、皮带输送机、面粉厂、离心机、冲床、电梯、包装设备、研磨机等

Typical Applications: Pumps, Fans, Crushers, Conveyor belts, Mills, Centrifugal machines, Presses, Elevators, Packaging equipment, Grinders and others



效率和功率因数的保证值

功率 kW	同步转速r/min									
	3000	1500	1000	750	600	3000	1500	1000	750	600
	效率Eff.%					功率因数Power Factor				
0.55	—	80.7	75.4	63.0	—	—	0.75	0.71	0.61	—
0.75	77.5	82.3	77.7	71.0		0.83	0.75	0.72	0.67	
1.1	82.8	83.8	79.9	73.0		0.84	0.75	0.73	0.69	
1.5	84.1	85.0	81.5	75.0		0.84	0.75	0.74	0.69	
2.2	85.6	86.4	83.4	78.0		0.85	0.81	0.74	0.71	
3	86.7	87.4	84.9	79.0		0.87	0.82	0.74	0.73	
4	87.6	88.3	86.1	81.0		0.88	0.82	0.74	0.73	
5.5	88.6	89.2	87.4	83.0		0.88	0.82	0.75	0.74	
7.5	89.5	90.1	89.0	85.5		0.89	0.83	0.78	0.75	
11	90.5	91.0	90.0	87.5		0.89	0.85	0.79	0.76	
15	91.3	91.8	91.0	88.0		0.89	0.86	0.81	0.76	
18.5	91.8	92.2	91.5	90.0		0.89	0.86	0.81	0.76	
22	92.2	92.6	92.0	90.5		0.89	0.86	0.82	0.78	
30	92.9	93.2	92.5	91.0		0.89	0.86	0.82	0.79	
37	93.3	93.6	93.0	91.5		0.89	0.86	0.84	0.79	
45	93.7	93.9	93.5	92.0	91.5	0.89	0.86	0.86	0.79	0.75
55	94.0	94.2	93.8	92.8	92.0	0.89	0.86	0.86	0.81	0.75
75	94.6	94.7	94.2	93.0	92.5	0.89	0.88	0.86	0.81	0.76
90	95.0	95.0	94.5	93.8	93.0	0.89	0.88	0.86	0.82	0.77
110	95.0	95.4	95.0	94.0	93.2	0.90	0.88	0.86	0.82	0.78
132	95.4	95.4	95.0	93.7	93.5	0.90	0.88	0.87	0.82	0.78
160	95.4	95.4	95.0	94.2	93.5	0.91	0.89	0.87	0.82	0.78
185	95.4	95.4	95.0	94.2	93.5	0.91	0.89	0.87	0.82	0.78
200	95.4	95.4	95.0	94.5	—	0.91	0.89	0.87	0.83	—
220	95.4	95.4	95.0	94.5		0.91	0.89	0.87	0.83	
250	95.8	95.8	95.0	—		0.91	0.90	0.87	—	
280	95.8	95.8	95.0			0.91	0.90	0.87		
315	95.8	95.8	—			0.91	0.90	—		
355	95.8	95.8				0.92	0.90			

7. Y2系列三相电动机

Y2 SERIES THREE PHASE INDUCTION MOTORS

Y2系列电机可以在各种领域,如机械工具,水泵,鼓风机和压缩机以及运输,混合物,印刷,农业机械和食品加工在没有易燃,易爆或腐蚀性气体中使用。

Y2-series motor can be used in various fields such as machine tools, water pumps, blowers and compressors as well as transportation, mixture, printing, agricultural machines and food processors where there are no inflammable, explosive or corrosive gases.

安装尺寸和功率等级符合 IEC 标准。防护等级为 IP54 或 IP55,冷却方式为 IC411,连续工作 (S1), F 级绝缘,升温 B 级考核。

The mounting dimension and the power degree of Y2-series motor conform to IEC standard. The protection degree of the frame is of IP54 or IP55 and the cooling method is of IC411 with continuous duty (S1). F-class insulation is used and the temperature rising is checked against B-class.

电机的运转应不超过海拔 1000 米以上。环境温度随季节而变化,但不超过 40°C,最低环境温度为 -15°C。最高月平均相对湿度为 90%,在最湿润月的月最低平均气温不超过 25°C。

The operating place of the motor is not more than 1,000 meters above the sea level. The ambient temperature varies with seasons but not more than 40°C. The lowest ambient temperature is -15°C. The highest monthly average relevant humidity is 90% in the most moist month; and at the same time, the lowest monthly average temperature of this month is not more than 25°C.



性能数据 SPEED 3000RPM 2P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流	额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed /min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSφ	Rated Current(A) 380V 400V 415V	Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
Y2-80M1-2	0.75	2845	75.0	75.0	72.0	0.83	1.63 1.74 1.66	2.5	2.2	6.1	2.3	14
Y2-80M2-2	1.1	2840	77.0	77.5	74.0	0.84	2.58 2.45 2.37	3.7	2.2	7.0	2.3	15
Y2-90S-2	1.5	2840	79.0	79.5	77.0	0.84	3.43 3.26 3.14	5.0	2.2	7.0	2.3	19
Y2-90L-2	2.2	2840	81.0	81.0	80.0	0.85	4.85 4.61 4.45	7.4	2.2	7.0	2.3	24
Y2-100L-2	3	2860	83.0	83.0	82.0	0.87	6.31 6.00 5.78	10.0	2.2	7.5	2.3	30
Y2-112M-2	4	2880	85.0	85.0	84.0	0.88	8.13 7.72 7.44	13.3	2.2	7.5	2.3	38
Y2-132S1-2	5.5	2900	86.0	86.0	85.0	0.88	11.0 10.5 10.1	18.1	2.2	7.5	2.3	54
Y2-132S2-2	7.5	2900	87.0	87.0	86.0	0.88	14.9 14.1 13.6	24.7	2.2	7.5	2.3	59
Y2-160M1-2	11	2930	88.0	88.0	87.0	0.89	21.3 20.3 19.5	35.9	2.2	7.5	2.3	98
Y2-160M2-2	15	2930	89.0	89.0	88.0	0.89	28.8 27.3 26.3	48.9	2.2	7.5	2.3	110
Y2-160L-2	18.5	2930	90.0	90.0	88.5	0.90	34.7 33.0 31.8	60.3	2.2	7.5	2.3	128
Y2-180M-2	22	2940	90.0	90.0	89.0	0.90	41.3 39.2 37.8	71.5	2.0	7.5	2.3	165
Y2-200L1-2	30	2950	91.2	91.3	89.5	0.90	55.5 52.8 50.8	97.1	2.0	7.5	2.3	214
Y2-200L2-2	37	2950	92.0	92.4	90.2	0.90	67.9 64.5 62.2	120	2.0	7.5	2.3	234
Y2-225M-2	45	2960	92.3	92.5	90.7	0.90	82.3 78.2 75.4	145	2.0	7.5	2.3	296
Y2-250M-2	55	2965	92.5	92.9	91.0	0.90	100 95.4 91.9	177	2.0	7.5	2.3	367
Y2-280S-2	75	2970	93.0	93.3	91.3	0.90	136 129 125	241	2.0	7.5	2.3	504
Y2-280M-2	90	2970	93.8	94.2	91.9	0.91	160 152 147	289	2.0	7.5	2.3	528
Y2-315S-2	110	2975	94.0	94.2	92.2	0.91	195 186 179	353	1.8	7.1	2.2	802
Y2-315M-2	132	2975	94.5	94.5	92.4	0.91	233 222 214	424	1.8	7.1	2.2	960
Y2-315L1-2	160	2975	94.6	94.7	92.7	0.92	279 265 256	514	1.8	7.1	2.2	982
Y2-315L2-2	200	2975	94.8	95.2	92.9	0.92	348 331 319	642	1.8	7.1	2.2	1160
Y2-355M-2	250	2987	95.3	95.4	93.5	0.92	433 412 397	799	1.6	7.1	2.2	1650
Y2-355L-2	315	2987	95.6	95.6	93.9	0.92	544 517 498	1007	1.6	7.1	2.2	1790

性能数据 SPEED 1500RPM 4P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流	额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed /min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSφ	Rated Current(A) 380V 400V 415V	Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
Y2-80M1-4	0.55	1390	71.0	71.0	67.0	0.75	1.57 1.49 1.44	3.8	2.4	5.2	2.3	14
Y2-80M2-4	0.75	1380	73.0	73.0	70.0	0.76	2.05 1.95 1.88	5.2	2.3	6.0	2.3	15
Y2-90S-4	1.1	1390	75.0	75.0	72.0	0.77	2.89 2.75 2.65	7.6	2.3	6.0	2.3	21
Y2-90L-4	1.5	1390	78.0	78.5	75.5	0.79	3.70 3.51 3.39	10.3	2.3	6.0	2.3	23
Y2-100L1-4	2.2	1410	80.0	80.0	79.0	0.81	5.16 4.90 4.72	14.9	2.3	7.0	2.3	31
Y2-100L2-4	3	1410	82.0	82.5	81.0	0.82	6.78 6.44 6.21	20.3	2.3	7.0	2.3	33
Y2-112M-4	4	1435	84.0	84.3	82.3	0.82	8.82 8.38 8.08	25.6	2.3	7.0	2.3	40
Y2-132S-4	5.5	1440	85.0	85.0	83.5	0.83	11.8 11.3 10.8	35.5	2.3	7.0	2.3	56
Y2-132M-4	7.5	1440	87.0	87.0	86.0	0.84	15.6 14.8 14.3	49.7	2.3	7.0	2.3	71
Y2-160M-4	11	1460	88.0	88.0	86.9	0.84	22.6 21.5 20.7	72.0	2.2	7.0	2.3	106
Y2-160L-4	15	1460	89.0	89.0	87.0	0.85	30.1 28.6 27.6	98.1	2.2	7.5	2.3	126
Y2-180M-4	18.5	1470	90.5	90.9	88.8	0.86	36.1 34.3 33.1	120	2.2	7.5	2.3	157
Y2-180L-4	22	1470	91.0	91.2	89.2	0.86	42.7 40.6 39.1	143	2.2	7.5	2.3	174
Y2-200L-4	30	1470	92.0	92.3	90.3	0.86	57.6 54.7 52.8	195	2.2	7.2	2.3	225
Y2-225S-4	37	1475	92.5	92.7	90.5	0.87	69.9 66.4 64.0	240	2.2	7.2	2.3	274
Y2-225M-4	45	1475	92.8	93.0	90.8	0.87	84.7 80.5 77.5	291	2.2	7.2	2.3	297
Y2-250M-4	55	1480	93.0	93.4	91.2	0.87	103 98.1 94.6	355	2.2	7.2	2.3	374
Y2-280M-4	75	1480	93.8	93.8	91.7	0.87	140 133 128	484	2.2	7.2	2.3	488
Y2-280L-4	90	1480	94.2	94.5	92.3	0.87	167 159 153	581	2.2	7.2	2.3	562
Y2-315S-4	110	1480	94.5	94.8	92.6	0.88	201 191 184	710	2.1	6.9	2.2	900
Y2-315M-4	132	1480	94.8	94.8	92.8	0.88	240 228 220	852	2.1	6.9	2.2	956
Y2-315L1-4	160	1480	94.9	95.2	93.1	0.89	288 273 264	1032	2.1	6.9	2.2	1004
Y2-315L2-4	185	1480	94.9	95.2	93.0	0.89	333 316 305	1194	2.1	6.9	2.2	1080
Y2-355L1-4	200	1480	95.0	95.3	93.2	0.89	359 341 329	1291	2.1	6.9	2.2	1120
Y2-355M-4	250	1490	95.3	95.4	93.2	0.90	443 421 406	1602	2.1	6.9	2.2	1685
Y2-355L2-4	315	1490	95.6	95.6	93.6	0.90	556 528 509	2019	2.1	6.9	2.2	1890
Y2-80M1-6	0.37	885	62.0	60.5	56.0	0.70	1.30 1.23 1.19	4.0	1.9	4.7	2.1	15
Y2-80M2-6	0.55	885	65.0	64.0	60.0	0.72	1.79 1.70 1.64	5.9	1.9	4.7	2.1	16
Y2-90S-6	0.75	910	69.0	69.0	65.0	0.72	2.29 2.18 2.10	7.9	2.0	5.5	2.1	20
Y2-90L-6	1.1	910	72.0	72.0	68.0	0.73	3.18 3.02 2.91	11.5	2.0	5.5	2.1	23
Y2-100L-6	1.5	920	76.0	76.0	73.0	0.75	4.00 3.80 3.66	15.6	2.0	5.5	2.1	28
Y2-112M-6	2.2	935	79.0	79.5	77.0	0.76	5.57 5.29 5.10	22.5	2.0	6.5	2.1	37
Y2-132S-6	3	960	81.0	81.3	79.5	0.76	7.40 7.03 6.78	29.8	2.1	6.5	2.1	52
Y2-132M1-6	4	960	82.0	82.0	80.2	0.76	9.75 9.26 8.93	39.8	2.1	6.5	2.1	61
Y2-132M2-6	5.5	960	84.0	84.1	82.5	0.77	12.9 12.3 11.8	54.7	2.1	6.5	2.1	75
Y2-160M-6	7.5	970	86.0	86.3	84.3	0.77	17.2 16.3 15.8	73.8	2.0	6.5	2.1	100
Y2-160L-6	11	970	87.5	87.5	85.8	0.78	24.5 23.3 22.4	108	2.0	6.5	2.1	127
Y2-180L-6	15	970	89.0	89.3	87.4	0.81	31.6 30.0 28.9	148	2.0	7.0	2.1	161
Y2-200L1-6	18.5	980	90.0	90.1	88.0	0.81	38.6 36.6 35.3	180	2.1	7.0	2.1	204
Y2-200L2-6	22	980	90.0	90.3	88.0	0.83	44.7 42.5 41.0	214	2.1	7.0	2.1	216
Y2-225M-6	30	980	91.5	91.7	89.7	0.84	59.3 56.3 54.3	292	2.0	7.0	2.1	271
Y2-250M-6	37	980	92.0	92.0	90.2	0.86	71.1 67.5 65.1	361	2.1	7.0	2.1	352
Y2-280S-6	45	980	92.5	92.7	90.5	0.86	85.9 81.7 78.7	439	2.1	7.0	2.1	492
Y2-280M-6	55	980	92.8	93.0	90.9	0.86	105 99.5 95.9	536	2.1	7.0	2.0	510



性能数据 SPEED 1000RPM 6P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流			额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed r/min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSΦ	Rated Current(A) 380V 400V 415V			Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
Y2-315S-6	75	989	93.5	93.5	91.7	0.86	142	135	130	724	2.0	7.0	2.0	820
Y2-315M-6	90	989	93.8	93.9	92.0	0.86	170	161	155	869	2.0	7.0	2.0	895
Y2-315L1-6	110	989	94.0	94.1	92.1	0.86	207	196	189	1062	2.0	6.7	2.0	1010
Y2-315L2-6	132	989	94.2	94.2	92.1	0.87	245	232	224	1275	2.0	6.7	2.0	1080
Y2-355M1-6	160	989	94.5	94.6	92.6	0.88	292	278	268	1545	1.9	6.7	2.0	1590
Y2-355M2-6	200	989	94.7	94.7	92.8	0.88	365	346	334	1931	1.9	6.7	2.0	1730
Y2-355L-6	250	989	94.9	95.0	92.9	0.88	455	432	416	2414	1.9	6.7	2.0	1940

性能数据 SPEED 750RPM 8P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流			额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed r/min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSΦ	Rated Current(A) 380V 400V 415V			Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
Y2-80M1-8	0.18	645	51.0	47.5	41.0	0.61	0.88	0.84	0.80	2.7	1.8	4.0	1.8	15
Y2-80M2-8	0.25	645	54.0	51.0	45.5	0.61	1.15	1.10	1.06	3.7	1.8	4.0	1.8	16
Y2-90S-8	0.37	670	62.0	60.5	56.0	0.61	1.49	1.41	1.36	5.3	1.8	4.0	1.8	20
Y2-90L-8	0.55	670	63.0	62.0	57.0	0.61	2.17	2.07	1.99	7.8	1.8	4.0	2.0	23
Y2-100L1-8	0.75	680	71.0	71.0	67.0	0.67	2.40	2.28	2.19	10.5	1.8	4.0	2.0	27
Y2-100L2-8	1.1	680	73.0	73.0	70.0	0.69	3.32	3.15	3.04	15.4	1.8	5.0	2.0	29
Y2-112M-8	1.5	690	75.0	75.0	72.0	0.69	4.40	4.18	4.03	20.8	1.8	5.0	2.0	40
Y2-132S-8	2.2	705	78.0	78.5	75.5	0.71	6.04	5.73	5.53	29.8	1.8	6.0	2.0	55
Y2-132M-8	3	705	79.0	79.5	77.0	0.73	7.90	7.51	7.24	40.6	1.8	6.0	2.0	66
Y2-160M1-8	4	720	81.0	81.0	79.0	0.73	10.3	9.76	9.41	53.1	1.9	6.0	2.0	92
Y2-160M2-8	5.5	720	83.0	83.0	81.0	0.74	13.6	12.9	12.5	73.0	2.0	6.0	2.0	103
Y2-160L-8	7.5	720	85.5	85.5	83.5	0.75	17.8	16.9	16.3	99.5	2.0	6.0	2.0	125
Y2-180L-8	11	730	87.5	87.5	85.5	0.76	25.1	23.9	23.0	144	2.0	6.6	2.0	170
Y2-200L-8	15	730	88.0	88.0	86.0	0.76	34.1	32.4	31.2	196	2.0	6.6	2.0	220
Y2-225S-8	18.5	730	90.0	90.0	88.5	0.76	41.1	39.0	37.6	242	1.9	6.6	2.0	280
Y2-225M-8	22	730	90.5	90.7	88.7	0.78	47.4	45.0	43.4	288	1.9	6.6	2.0	300
Y2-250M-8	30	735	91.0	91.0	89.0	0.79	63.4	60.2	58.1	390	1.9	6.6	2.0	385
Y2-280S-8	37	735	91.5	91.7	90.0	0.79	77.8	73.9	71.2	481	1.9	6.6	2.0	510
Y2-280M-8	45	735	92.0	92.2	90.7	0.79	94.1	89.4	86.1	585	1.9	6.6	2.0	548
Y2-315S-8	55	735	92.8	93.0	91.0	0.81	111	106	102	715	1.8	6.6	2.0	840
Y2-315M-8	75	735	93.0	93.1	91.2	0.81	151	144	139	974	1.8	6.6	2.0	955
Y2-315L1-8	90	735	93.8	93.8	91.7	0.82	178	169	163	1169	1.8	6.6	2.0	1025
Y2-315L2-8	110	735	94.0	94.1	92.1	0.82	217	206	199	1429	1.8	6.4	2.0	1135
Y2-355M1-8	132	744	93.7	94.1	92.1	0.82	261	248	239	1694	1.8	6.4	2.0	1575
Y2-355M2-8	160	744	94.2	94.2	92.3	0.82	315	299	288	2054	1.8	6.4	2.0	1645
Y2-355L-8	200	744	94.5	94.6	92.6	0.83	387	368	355	2567	1.8	6.4	2.0	1920

性能数据 SPEED 600RPM 10P 50Hz PERFORMANCE DATA

型号	功率	额定转速	效率	效率	效率	功率因数	额定电流			额定转矩	堵转转矩/额定转矩	堵转电流/额定电流	最大转矩/额定转矩	重量
Type	kW	Rated Speed r/min	Efficiency %	Efficiency at 75% load	Efficiency at 50% load	COSΦ	Rated Current(A) 380V 400V 415V			Rated Torque N·m	Tst/Tn	Ist/In	Tmax/Tn	Weight kg
Y2-315S-10	45	590	91.5	91.7	90.0	0.75	99.6	94.7	91.2	728	1.5	6.2	2.0	835
Y2-315M-10	55	590	92.0	92.2	90.5	0.75	121	115	111	890	1.5	6.2	2.0	945
Y2-315L1-10	75	590	92.5	92.7	91.0	0.76	162	154	148	1214	1.5	6.2	2.0	1020
Y2-315L2-10	90	590	93.0	93.1	90.7	0.77	191	181	175	1457	1.5	6.2	2.0	1120
Y2-355M1-10	110	593	93.2	93.3	91.0	0.78	230	218	211	1772	1.3	6.0	2.0	1595
Y2-355M2-10	132	593	93.5	93.5	91.3	0.78	275	261	252	2126	1.3	6.0	2.0	1800
Y2-355L-10	160	593	93.5	93.6	91.3	0.78	333	317	305	2577	1.3	6.0	2.0	1940

8.YVF2系列变频调速专用三相异步电动机

YVF2 SERIES FREQUENCY VARIABLE SPEED REGULATION MOTORS

机座号80~355 功率0.55~315kW

基准频率50Hz 绝缘等级F

变频范围5~100Hz 基准极数4P

适用于：冶金、化工、纺织、制药、印刷、包装、食品等行业的机械、风机、泵类。输送线自动化设备及机床(如数控机床，加工中心)等领域。

Applications: Various operation systems by which speed-regulation is needed, such as metallurgy, chemistry, textile, pumps, machine tool, etc.

特点:

无级调速、调速范围宽

系统调速性能好，节能效果显著

采用耐高频脉冲电压冲击的绝缘材料和工艺

独立风机强制通风冷却

Features:

Stepless adjustable speed operation in a wide range

Good performance of the system energy saving

High-grade insulation material and special technological

withstand high frequency pulse impact

Separate fan for forced-ventilation



性能数据 PERFORMANCE DATA

380V 50Hz

型号 Type	功率 kW	额定电流 Current A	额定转矩 Rated Torque N·m	恒转矩调速范围 Constant Torque Frequency Range Hz	恒功率调速范围 Constant Output Frequency Range Hz
YVF2-80M1-4	0.55	1.57	3.5	5~50	50~100
YVF2-80M2-4	0.75	2.05	4.7		
YVF2-90S-4	1.1	2.89	7.0		
YVF2-90L-4	1.5	3.70	9.5		
YVF2-100L1-4	2.2	5.16	14.0		
YVF2-100L2-4	3	6.78	19.0		
YVF2-112M-4	4	8.82	25.4		
YVF2-132S-4	5.5	11.8	35.0		
YVF2-132M-4	7.5	15.6	47.7		
YVF2-160M-4	11	22.6	70.0		
YVF2-160L-4	15	30.1	95.4		
YVF2-180M-4	18.5	36.1	117.1		
YVF2-180L-4	22	42.7	140	3~50	50~100
YVF2-200L-4	30	57.6	199		
YVF2-225S-4	37	69.9	235		
YVF2-225M-4	45	84.7	286.4		
YVF2-250M-4	55	103	350.1		
YVF2-280S-4	75	140	477.4		
YVF2-280M-4	90	167	572.9		
YVF2-315S-4	110	201	700		
YVF2-315M-4	132	240	840		
YVF2-315L1-4	160	288	1018		
YVF2-315L2-4	200	359	1273		
YVF2-355M1-4	220	407	1400		
YVF2-355M2-4	250	443	1592		
YVF2-355L1-4	280	515	1780		
YVF2-355L2-4	315	556	2005		

采用V/f控制的转矩特性

The torque characteristic under the condition of V/f control.

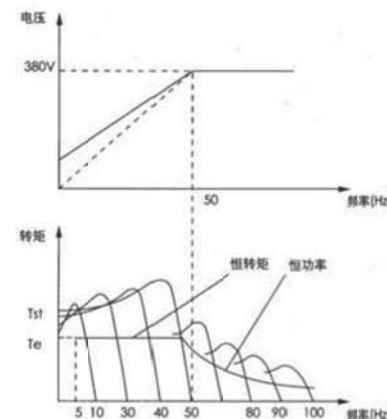
采用V/f控制恒转矩输出时，须采用电压补偿方式，

以增大低频力矩。

The voltage needs to be compensated to increase the

torque at low frequency when the motor is operated under

the condition of V/f control with constant torque output.



与变频电机配套的部件参数

Specifications of cooling blower and brake for the motor

电机 Motor	机座号 Frme	80	90	100	112	132	160	180	200	225	250	280	315	355
冷却风机 Cooling Fan	功率 (W) Power	30	40	52	60	80	80	80	230	230	230	320	320	450
制动器 Brake	制动力矩 (N · m) Braking Torque	7.5	15	30	40	75	150	200	300	450	-	-	-	-
	励磁功率 (W) Excitation Power	50	60	80	110	130	150	150	200	200	-	-	-	-
	励磁电压 Excitation Voltage	DC99V			DC170V						-	-	-	-
光电编码器 Encoder	增量型编码器 Incremental Encoder													

安装结构型式 MOUNTING ARRANGEMENTS OF THE MOTORS

常用的安装结构型式，以及适用的机座号见下表

Conventional mounting type and suitable frame size are given in following table (with "√")

机座号 Frame	基本安装结构 Basic Type			派生的安装型式 Derived Type								
	B3	B5	B35	V1	V3	V5	V6	B6	B7	B8	V15	V36
80~160	√	√	√	√	√	√	√	√	√	√	√	√
180~225	√	√	√	√	-	-	-	-	-	-	-	-
250~355	√	-	√	√	-	-	-	-	-	-	-	-

注：“√”表示可以制造的结构型式

9.YD2系列 变极多速三相异步电动机

YD2 SERIES POLE-CHANGING MULTI-SPEED THREE-PHASE INDUCTION MOTORS

YD2变极多速电动机是Y2系列电动机的主要派生系列。它采用改变绕组的接法来变换电机的极数和输出功率，使之与机械设备的负载特性相匹配。该系列电动机噪声、启动转矩、振动值及外形安装尺寸均符合IEC标准，具有Y系列电机体积小、重量轻、运行可靠、结构坚固、外形美观等特点。它可以与手动控制、接触器、控制器械等一起进行速度控制，节约大量电能。

Description: The YD2 change-pole multi speed motor is one of the main derivative series of the Y2 series motor. We adopt the method of changing the winding connection way to change the number of poles and the output of the motor so as to match the load characteristic of the mechanical equipment. The noise, the starting torque, the vibration value and the outline mounting dimensions of the motor conform to IEC standard. It is of the features of small size, light weight, reliability service, solid structure and good-looking etc. It is capable of controlling speed and saving much of energy with manual control, contactors and controllers etc.

应用范围: 广泛使用具有转速阶跃变化的行业，以满足负载性质的要求，如：机床、矿山、冶金、纺织、印染、化工等行业于旱农业机械等。
Applications: Widely used in such industry which have step changes of rotational speed to meet the requirements of load character, as machine tools, mining, metallurgy, textile, printing and dyeing, chemical industry and agricultural machinery, etc.

功能: 通过改变连接，以获得不同的输出和速度简化变速系统

Features: Simplify speed-changing systems by changing the connection to obtain different output and speed

变极方式: 双速、三速和四速。

Pole-changing mode: Double-speed, triple-speed and four speed.



规格表 SPECIFICATION TABLE

型号 Type	极数 Poles						
	4/2	6/4	8/4	8/6	12/6	6/4/2	8/4/2
	功率 Power (KW)						
YD2-801	0.45/0.55						
YD2-802	0.55/0.75						
YD2-90S	0.85/1.1	0.65/0.85		0.35/0.45			
YD2-90L	1.3/1.8	0.85/1.1	0.45/0.75	0.45/0.65			
YD2-100L1	2/2.4	1.3/1.8					
YD2-100L2	2.4/3	1.5/2.2	0.85/1.5	0.75/1.1	0.75/1.3/1.8		
YD2-112M	3/4	2.2/2.8	1.5/2.4	1.3/1.8	1.1/2/2.4	0.65/2/2.4	0.85/1/1.5
YD2-132S	4.5/5.5	3/4	2.2/3.3	1.8/2.4	1.8/2.6/3	1.1/1.5/1.8	
YD2-132M1					2.2/3.3/4	1.3/3.7/4.5	1.5/2/2.2
YD2-132M2	6.5/8	4/5.5	3/4.5	2.6/3.7	2.6/4/5	1.8/2.6/3	1.8/2.6/3
YD2-160M	9/11	6.5/8	5/7.5	4.5/6	2.6/5	3.7/5/6	2.2/5/6
YD2-160L	11/14	9/11	7/11	6/8	3.7/7	4.5/7/9	2.8/7/9
YD2-180M	15/18.5	11/14		7.5/10			
YD2-180L	18.5/22	13/16	11/17	9/12	5.5/10		7/9/12
YD2-200L1			14/22	12/17	7.5/13		
YD2-200L2	26/30	18.5/22	17/26	15/20	9/15		13/13/17
YD2-225S	32/37	22/28					14/18.5/24
YD2-225M	37/45	28/32	24/34		12/20		17/22/28
YD2-250M	45/52	32/42	30/42		15/24		24/26/34
YD2-280S	60/72	42/55	40/55		20/30		30/34/42
YD2-280M	72/82	55/67	47/67		24/37		34/37/50
YD2-315S	92/100	70/95	65/90		36/45		40/45/62
YD2-315M	108/120	80/110	80/110		45/65		50/50/70
YD2-315L	118/140	100/140	100/132		65/97		58/62/78
YD2-355M	170/220	170/200	150/200		85/120		100/110/170
YD2-355L		210/240	180/240		105/150		116/118/190

安装结构型式 MOUNTING ARRANGEMENTS OF THE MOTORS

常用的安装结构型式，以及适用的机座号见下表

Conventional mounting type and suitable frame size are given in following table (with "√")

机座号 Frame	基本安装结构 Basic Type			派生的安装型式 Derived Type									
	B3	B5	B35	V1	V3	V5	V6	B6	B7	B8	V15	V36	
80-160	√	√	√	√	√	√	√	√	√	√	√	√	
160-225	√	√	√	√	√	√	√	√	√	√	√	√	
250-280	√	√	√	√	√	√	√	√	√	√	√	√	

注: 1. "√" 表示可以制造的结构型式

2. YD2系列多速电机机座的外形及安装尺寸同Y2系列电机。

The mounting dimensions and overall dimensions of frame motors is the same as that of the Y2 series motors.

10.Y3 低压大功率三相异步电动机

Y3 SERIES LOW VOLTAGE HIGH POWER THREE PHASE INDUCTION MOTORS

机座号355-450 功率1 85~800kW

工作制S1 绝缘等级F

适用于: 石油、化工、冶金、水泥、造纸等行业，拖动各种机械设备。
Applications: Driving the equipment of the petroleum industry, chemistry industry, metallurgy industry, paper making, etc.

特点: 外型美观，噪声低、振动小，绝缘等级为F级。外壳防护等级为IP54或IP55。

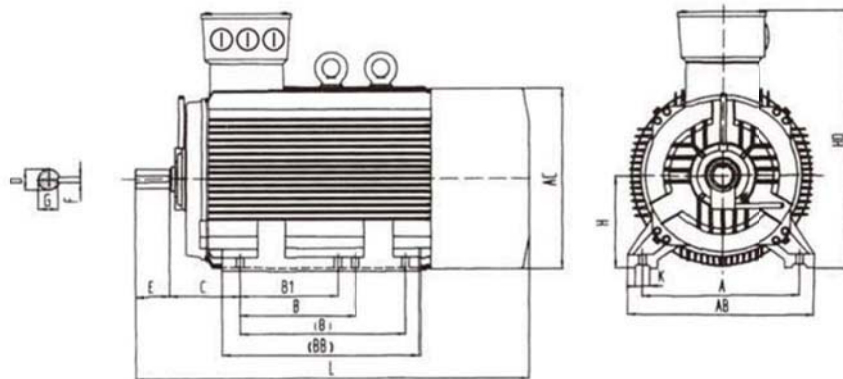
Features: High efficiency and energysaving, low noise and vibration. The insulation class is F; the protective class is IP54 or IP55.

使用条件: 海拔不超过1000m。环境温度随季节变化，但最高不超过+40℃。

Circumstance For Use: The altitude not exceeding 1000m above sea level. The ambient temperature subject to seasonal variations but not exceeding 40℃.

外型及安装尺寸 DIMENSIONS

机座 Frame	极数 Poles	安装尺寸 Mounting Dimension										外形尺寸 Overall Dimension					
		A	B	(B)	B1	C	D	E	F	G	H	K	AB	AC	BB	HD	L
355	2	610	630	900	560	254	75	140	20	67.5	355	28	730	715	1080	1010	1825
355	4,6,8,10	610	630	900	560	254	100	210	28	90	355	28	730	715	1080	1010	1900
400	2	686	710	—	630	280	100	210	28	90	400	35	810	850	1090	1100	1890
400	4	686	710	—	630	280	120	210	32	109	400	35	810	850	1090	1100	1950
400	6,8,10,12	686	710	—	630	280	120	210	32	109	400	35	810	850	1090	1100	1950
450	2	800	1120	—	790	280	95	170	25	86	450	42	950	950	1340	1400	2270
450	4	800	1120	—	790	280	120	210	32	109	450	42	950	950	1340	1400	2310
450	6,8,10,12	800	1120	—	790	280	130	250	32	119	450	42	950	950	1340	1400	2350



性能数据 PERFORMANCE DATA

380V 50Hz

型号 Type	功率 kW	额定电流 Current A	转速 r/min	效率 Eff. %	功率因数 Power Factor	堵转转矩 额定转矩 Locked Rotor Torque Rated Torque	堵转电流 额定电流 Locked Rotor Current Rated Current	最大转矩 额定转矩 Breakdown Torque Rated Torque
同步转速 3000r/min								
Y3-355-1-2	355	614	2980	95.5	0.92	1.6	7.0	2.0
Y3-355-2-2	400	695	2980	95.6	0.915	1.6	7.0	2.0
Y3-400-1-2	355	614	2980	95.5	0.92	1.6	7.0	2.0
Y3-400-2-2	400	695	2980	95.6	0.915	1.6	7.0	2.0
同步转速 1500r/min								
Y3-355-1-4	355	628	1490	95.5	0.90	1.65	6.9	2.4
Y3-355-2-4	400	706	1490	95.6	0.90	1.65	6.9	2.4
Y3-400-1-4	355	628	1490	95.5	0.90	1.65	6.9	2.4
Y3-400-2-4	400	706	1490	95.6	0.90	1.65	6.9	2.4
Y3-400-3-4	450	790	1490	95.6	0.905	1.7	6.9	2.4
Y3-400-4-4	500	878	1490	95.6	0.905	1.7	6.9	2.4
Y3-400-5-4	560	977	1490	95.7	0.91	1.7	6.9	2.3
Y3-400-6-4	630	1099	1490	95.7	0.91	1.5	7.0	2.3
Y3-450-1-4	630	1099	1490	95.7	0.91	1.5	7.0	2.3
Y3-450-2-4	710	1239	1490	95.7	0.91	1.5	7.0	2.3
Y3-450-3-4	800	1396	1490	95.7	0.91	1.5	7.0	2.3
同步转速 1000r/min								
Y3-355-1-6	280	521	990	94.9	0.86	1.9	7.0	2.3
Y3-355-2-6	315	586	990	95.0	0.86	1.9	7.0	2.3
Y3-400-1-6	280	521	990	94.9	0.86	1.9	7.0	2.3
Y3-400-2-6	315	586	990	95.0	0.86	1.9	7.0	2.3
Y3-400-3-6	355	660	990	95.0	0.86	1.9	7.0	2.3
Y3-400-4-6	400	740	990	95.0	0.865	1.9	7.0	2.3
Y3-400-5-6	450	832	990	95.0	0.865	1.9	7.0	2.3
Y3-400-6-6	500	924	990	95.0	0.865	1.6	7.0	2.3
Y3-450-1-6	500	924	990	95.0	0.865	1.6	7.0	2.3
Y3-450-2-6	560	1026	990	95.3	0.87	1.6	6.8	2.3
Y3-450-3-6	630	1154	990	95.3	0.87	1.7	6.8	2.3
同步转速 750r/min								
Y3-355-1-8	220	421	740	94.5	0.82	1.8	6.8	2.0
Y3-355-2-8	250	490	740	94.6	0.82	1.8	6.8	2.0
Y3-400-1-8	220	431	740	94.6	0.82	1.8	6.8	2.0
Y3-400-2-8	250	490	740	94.6	0.82	1.8	6.8	2.0
Y3-400-3-8	280	548	740	94.6	0.82	1.8	6.8	2.3
Y3-400-4-8	315	613	740	94.6	0.825	1.8	6.8	2.3
Y3-400-5-8	355	691	740	94.6	0.825	1.8	6.8	2.3
Y3-400-6-8	400	779	740	94.6	0.825	1.6	6.8	2.3
Y3-450-1-8	400	779	740	94.6	0.825	1.6	6.8	2.3
Y3-450-2-8	450	874	740	94.8	0.825	1.7	6.8	2.3
Y3-450-3-8	500	971	740	94.8	0.825	1.8	6.8	2.3
同步转速 600r/min								
Y3-355-1-10	185	396	590	93.5	0.76	1.3	6.0	1.8
Y3-355-2-10	200	427	590	93.7	0.76	1.5	6.0	1.8
Y3-400-1-10	185	395	590	93.7	0.76	1.6	6.0	1.8
Y3-400-2-10	200	427	590	93.7	0.76	1.6	6.0	1.8
Y3-400-3-10	220	469	590	93.7	0.76	1.6	6.0	1.9
Y3-400-4-10	250	533	590	93.7	0.76	1.6	6.0	1.9
Y3-400-5-10	280	597	590	93.8	0.76	1.6	6.0	1.9
Y3-400-6-10	315	663	590	93.8	0.77	1.6	6.5	1.9
Y3-450-1-10	315	663	595	93.8	0.77	1.6	6.5	1.9
Y3-450-2-10	355	797	595	94.0	0.72	1.7	6.5	2.1
Y3-450-3-10	400	898	595	94.0	0.72	1.7	6.5	2.1
同步转速 500r/min								
Y3-400-3-12	185	488	495	92.9	0.62	1.6	5.5	2.0
Y3-400-4-12	200	528	495	92.9	0.62	1.6	5.5	2.0
Y3-400-5-12	220	562	495	93.0	0.64	1.6	5.5	2.0
Y3-400-6-12	250	638	495	93.0	0.64	1.6	6.0	2.0
Y3-450-1-12	250	638	495	93.0	0.64	1.6	6.0	2.0
Y3-450-2-12	280	713	495	93.2	0.64	1.6	6.0	2.1
Y3-450-3-12	315	796	495	93.2	0.65	1.6	6.0	2.1

11.YEJ2系列电磁制动三相异步电动机

YEJ2 SERIES AC SQUIRREL-CAGE BRAKE MOTORS

机座号80~225

功率0.55~45kW

制动方式 失电制动

整流方式 半波整流

适用于：各种机床、印刷机械、锻压机、运输机械、包装机械、食品机械、建筑机械、木工机械等要求快速停止、准确定位、往复运转、防止滑行的各种机械中作主传动和辅助传动。

Applications: Widely used on mechanical equipment and driving machines where rapidly and accurate braking is demanded.

特点：制动迅速、结构简单、定位准确。

Features: Spring set brake. Power off operation manual release. Resets automatically. One-half period rectification.



性能数据 PERFORMANCE DATA

380V 50Hz

型号 Type	功率 kW	满载时 Full Load				堵转转矩	堵转电流	最大转矩
		额定电流 Current A	转速 r/min	效率 Eff. %	功率因数 Power Factor	额定转矩 Locked Rotor Torque Rated Torque	额定电流 Locked Rotor Current Rated Current	额定转矩 Breakdown Torque Rated Torque
同步转速 3000/rmin								
YEJ2-801-2	0.75	1.8	2825	75.0	0.84	2.2	6.5	2.3
YEJ2-802-2	1.1	2.5	2825	77.0	0.86	2.2	7.0	2.3
YEJ2-90S-2	1.5	3.4	2840	78.0	0.85	2.2	7.0	2.3
YEJ2-90L-2	2.2	4.8	2840	80.5	0.86	2.2	7.0	2.3
YEJ2-100L-2	3	6.4	2880	82.0	0.87	2.2	7.0	2.3
YEJ2-112M-2	4	8.2	2890	85.5	0.87	2.2	7.0	2.3
YEJ2-132S1-2	5.5	11.1	2900	85.5	0.88	2.0	7.0	2.3
YEJ2-132S2-2	7.5	15.0	2900	86.2	0.88	2.0	7.0	2.3
YEJ2-160M1-2	11	21.8	2930	87.2	0.88	2.0	7.0	2.3
YEJ2-160M2-2	15	29.4	2930	88.2	0.88	2.0	7.0	2.2
YEJ2-160L-2	18.5	35.5	2930	89.0	0.89	2.0	7.0	2.2
YEJ2-180M-2	22	42.2	2940	89.0	0.89	2.0	7.0	2.2
YEJ2-200L1-2	30	56.9	2950	90.0	0.89	2.0	7.0	2.2
YEJ2-200L2-2	37	69.8	2950	90.5	0.89	2.0	7.0	2.2
YEJ2-225M-2	45	84.0	2970	91.5	0.89	2.0	7.0	2.2
同步转速 1500/rmin								
YEJ2-801-4	0.55	1.5	1390	73.0	0.76	2.4	6.0	2.3
YEJ2-802-4	0.75	2.0	1390	74.5	0.76	2.3	6.0	2.3
YEJ2-90S-4	1.1	2.7	1400	78.0	0.78	2.3	6.5	2.3
YEJ2-90L-4	1.5	3.7	1400	79.0	0.79	2.3	6.5	2.3
YEJ2-100L1-4	2.2	5.0	1420	81.0	0.82	2.3	7.0	2.3
YEJ2-100L2-4	3	6.8	1420	82.5	0.81	2.2	7.0	2.3
YEJ2-112M-4	4	8.8	1440	84.5	0.82	2.2	7.0	2.3
YEJ2-132S-4	5.5	11.6	1440	85.5	0.84	2.2	7.0	2.3
YEJ2-132M-4	7.5	15.4	1440	87.0	0.85	2.2	7.0	2.3
YEJ2-160M-4	11	22.6	1460	88.0	0.84	2.2	7.0	2.3



性能数据 PERFORMANCE DATA

380V 50Hz

型号 Type	功率 kW	满载时 Full Load				堵转转矩	堵转电流	最大转矩
		额定电流 Current A	转速 r/min	效率 Eff. %	功率因数 Power Factor	额定转矩 Locked Rotor Torque Rated Torque	额定电流 Locked Rotor Current Rated Current	额定转矩 Breakdown Torque Rated Torque
同步转速 1500r/min								
YEJ2-160L-4	15	30.0	1460	88.5	0.85	2.2	7.0	2.2
YEJ2-180M-4	18.5	35.9	1470	91.0	0.86	2.0	7.0	2.2
YEJ2-180L-4	22	42.5	1470	91.5	0.86	2.0	7.0	2.2
YEJ2-200L-4	30	56.8	1470	92.2	0.87	2.0	7.0	2.2
YEJ2-225S-4	37	70.4	1480	91.8	0.87	1.9	7.0	2.2
YEJ2-225M-4	45	84.2	1480	92.3	0.88	1.9	7.0	2.2
同步转速 1000r/min								
YEJ2-90S-6	0.75	2.3	910	72.5	0.70	2.0	5.5	2.2
YEJ2-90L-6	1.1	3.2	910	73.5	0.72	2.0	5.5	2.2
YEJ2-100L-6	1.5	4.0	940	77.5	0.74	2.0	6.0	2.2
YEJ2-112M-6	2.2	5.6	960	80.5	0.74	2.0	6.0	2.2
YEJ2-132S-6	3	7.2	960	83.0	0.76	2.0	6.5	2.2
YEJ2-132M1-6	4	9.4	960	84.0	0.77	2.0	6.5	2.2
YEJ2-132M2-6	5.5	12.6	960	85.3	0.78	2.0	6.5	2.0
YEJ2-160M-6	7.5	17.0	970	86.0	0.78	2.0	6.5	2.0
YEJ2-160L-6	11	24.6	970	87.0	0.78	2.0	6.5	2.0
YEJ2-180L-6	15	31.4	970	89.5	0.81	1.8	6.5	2.0
YEJ2-200L1-6	18.5	37.7	980	89.8	0.83	1.8	6.5	2.0
YEJ2-200L2-6	22	44.6	980	90.2	0.83	1.8	6.5	2.0
YEJ2-225M-6	30	59.3	980	90.2	0.85	1.7	6.5	2.0
同步转速 750r/min								
YEJ2-132S-8	2.2	5.8	710	80.5	0.71	2.0	5.5	2.0
YEJ2-132M-8	3	7.7	710	82.0	0.72	2.0	5.5	2.0
YEJ2-160M1-8	4	9.9	720	84.0	0.73	2.0	6.0	2.0
YEJ2-160M2-8	5.5	13.3	720	85.0	0.74	2.0	6.0	2.0
YEJ2-160L-8	7.5	17.7	720	86.0	0.75	2.0	5.5	2.0
YEJ2-180L-8	11	24.8	730	87.5	0.77	1.7	6.0	2.0
YEJ2-200L-8	15	34.1	730	88.0	0.76	1.8	6.0	2.0
YEJ2-225S-8	18.5	41.3	735	89.5	0.76	1.7	6.0	2.0
YEJ2-225M-8	22	47.6	735	90.0	0.78	1.8	6.0	2.0

制动器技术参数 TECHNICAL DATA OF THE BRAKE

机座号 Frame	衔铁最大行程 (气隙) Stroke of the Armature mm	空载制动时间 No-load braking time S	制动力矩 Braking torque N.m	励磁电压 (DC) Excitation Voltage V	制动器励磁功率 Brake Excitation Power W
YEJ2-80	1.0	0.20	7.5	99	50
YEJ2-90	1.0	0.20	15	99	60
YEJ2-100	1.0	0.20	30	99	80
YEJ2-112	1.0	0.25	40	170	110
YEJ2-132	1.2	0.25	75	170	130
YEJ2-160	1.2	0.35	150	170	150
YEJ2-180	1.2	0.35	200	170	150
YEJ2-200	1.5	0.45	300	170	200
YEJ2-225	1.5	0.45	450	170	200

安装结构型式 MOUNTING ARRANGEMENTS OF THE MOTORS

常用的安装结构型式, 以及适用的机座号见下表

Conventional mounting type and suitable frame size are given in following table (with "√")

机座号 Frame	基本安装结构 Basic Type			派生的安装型式 Derived Type		
	B3	B5	B35	B6	B7	B8
80-160	√	√	√	√	√	√
180-225	√	√	√	-	-	-

注: "√" 表示可以制造生产的结构型式

12.Y系列(IP23)三相异步电动机

Y (IP23) SERIES THREE PHASE INDUCTION MOTORS

Y系列(IP23)电机是防护式、自扇冷三相鼠笼型一般用途的电机。具有高效、节能、起动转矩高、噪音低、振动小、可靠性高等特点。安装尺寸符合IEC标准, 功率与机座号的配置关系符合DIN标准。外壳防护等级IP23。

使用场所: 不可含易燃、易爆或腐蚀性气体。

额定功率: 5.5-630kW

额定电压: 380V

额定频率: 50Hz

机座号: 160-400



Y series motors are open drip-proof, fan-ventilated, three-phase, squirrel cage induction motors for general purpose. Motors offer such features as higher efficiency, saving energy, higher locked-rotor torque, lower noise and vibration and higher reliability. Mounting dimensions conform to IEC Standard. The relationship between rated output and frame size conforms to DIN Standard. The protection degree of enclosure is IP23.

These motors are not suitable for certain location where explosive, ignitable and chemical corrosive mixture gas.

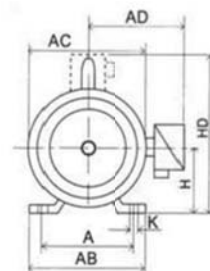
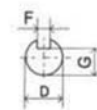
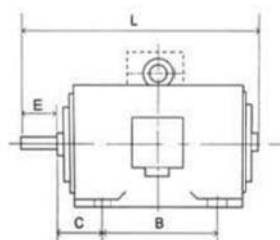
Rated output: 5.5-630kW

Rated voltage: 380V

Rated frequency: 50Hz

Frame Size: 160-400

安装型式: IMB3 Types of construction: IMB3



规格表 Specification table

型号 Type	功率(kw) Power	型号 Type	功率(kw) Power	型号 Type	功率(kw) Power	型号 Type	功率(kw) Power	型号 Type	功率(kw) Power
Y160M-2	15	Y200L-2	55	Y280M-6	90	Y355M3-2	315	Y4001-2	450
Y160M-4	11	Y200L-4	45	Y280M-8	75	Y355M2-4	280	Y4002-2	500
Y160M-6	7.5	Y200L-6	30	Y315S-2	60	Y355M2-4	315	Y4003-2	560
Y160M-8	5.5	Y200L-8	22	Y315S-4	60	Y355M1-6	185	Y4004-2	630
Y160L-2	18.5	Y225M-2	75	Y315S-6	110	Y355M2-6	200	Y4001-4	355
Y160L-2-2	22	Y225M-4	55	Y315S-8	90	Y355M3-6	220	Y4002-4	400
Y160L-4	15	Y225M-6	37	Y315S-10	55	Y355M4-6	250	Y4003-4	450
Y160L-4-2	18.5	Y225M-8	30	Y315M1-2	185	Y355M2-8	160	Y4004-4	500
Y160L-6	11	Y250S-2	90	Y315M2-2	200	Y355M3-8	185	Y4005-4	560
Y160L-8	7.5	Y250S-4	75	Y315M3-2	220	Y355M4-8	200	Y4002-6	280
Y180M-2	30	Y250S-6	45	Y315M4-2	250	Y355M2-10	110	Y4003-6	315
Y180M-4	22	Y250S-8	37	Y315M1-4	185	Y355M3-10	132	Y4004-6	355
Y180M-6	15	Y250M-2	110	Y315M2-4	200	Y355M4-12	90	Y4005-6	400
Y180M-8	11	Y250M-4	90	Y315M3-4	220	Y355L1-2	355	Y4003-8	220
Y180L-2	37	Y250M-6	55	Y315M4-4	250	Y355L1-4	355	Y4004-8	250
Y180L-4	30	Y250M-8	45	Y315M1-6	132	Y355L1-6	280	Y4005-8	280
Y180L-6	18.5	Y250M2-6	65	Y315M2-6	160	Y355L1-8	220		
Y180L-8	15	Y280S-4	110	Y315M1-8	110	Y355L2-6	250		
Y200M-2	45	Y280S-6	75	Y315M2-8	132	Y355L1-10	160		
Y200M-4	37	Y280S-8	55	Y315M1-10	75	Y355L2-10	185		
Y200M-6	22	Y280M-2	132	Y315M2-10	90	Y355L1-12	110		
Y200M-8	18.5	Y280M-4	132	Y355M2-2	280	Y355L2-12	132		

外形及安装尺寸 Dimensions for overall and mounting arrangement

机座号 Frame size	机数 Poles	安装尺寸 (mm) Mounting Dimensions								外形尺寸 (mm) Contour Dimensions					
		A	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L
160M	2, 4, 6, 8	254	210	108	48	110	14	42.5	160	15	330	380	290	440	676
160L		254	254	108	48	110	14	42.5	160	15	330	380	290	440	676
180M	2, 4, 6, 8	279	241	121	55	110	16	49	180	15	350	420	325	505	726
180L		279	279	121	55	110	16	49	180	15	350	420	325	505	726
200M	2, 4, 6, 8	318	267	133	60	140	18	53	200	19	400	465	350	570	820
200L		318	305	133	60	140	18	53	200	19	400	465	350	570	886
225M	2	356	311	149	60	140	18	53	225	19	450	520	395	640	880
250S	4, 6, 8	356	311	149	65	140	18	58	225	19	450	520	395	640	880
	2	406	311	168	65	140	18	58	250	24	510	550	410	710	930
250M	4, 6, 8	406	311	168	75	140	20	67.5	250	24	510	550	410	710	930
	2	406	349	168	65	140	18	58	250	24	510	550	410	710	960
280S	4, 6, 8	457	368	190	80	170	22	71	280	24	570	610	485	785	1090
	2	457	419	190	65	140	18	58	280	24	570	610	485	785	1090
280M	4, 6, 8	457	419	190	80	170	22	71	280	24	570	610	485	785	1140
	2	508	406	216	70	140	20	62.5	315	28	628	792	586	928	1130
315S	4-10	508	406	216	90	170	25	81	315	28	628	792	586	928	1160
	2	508	457	216	70	140	20	62.5	315	28	628	792	586	928	1240
315M	4-10	508	457	216	90	170	25	81	315	28	628	792	586	928	1270
	2	610	560	254	75	140	20	67.5	355	28	740	980	630	1120	1550
355M	4-12	610	560	254	100	210	28	90	355	28	740	980	630	1120	1620
	2	610	630	254	75	140	20	67.5	355	28	740	980	630	1120	1620
355L	4-12	610	630	254	100	210	28	90	355	28	740	980	630	1120	1690
	2	710	1000	375	90	170	25	81	400	35	1150	850	1330	2090	
400	4-8	710	1000	355	110	210	28	100	400	35	1150	850	1330	1980	

13.YGVF系列辊道用变频调速三相异步电动机

YGVF SERIES CONVERTER ADJUSTABLE BPED FOR ROLLER TABLE INDUCTION MOTORS

机座号100~225 功率0.55~25kW

防护等级IP54 绝缘等级F、H

适用于: 冶金行业特别是冶金行业中辊道设备在变频控制条件下, 电动机既适合于S1连续工作制运行的输送辊道, 也特别适合于短时或断续周期运行、频繁启动、制动和正、反转运行的工作辊道。

Applications: Widely used for the metallurgy equipment, especially for transporting roller bed on continuous duty and working roller bed with short time on duty where frequent starting, braking and reversing running is existed.

特点: 过载能力大、机械强度高、调速范围广、运行稳定
Features: Ability of overload and mechanic strength
Wide range of speed and running smoothly.



性能数据 PERFORMANCE DATA

380V 50Hz

型号 Type	功率 kW	额定电流 Current A	额定转矩 Rated Torque N·m	转速 r/min	堵转转矩 额定转矩 Locked Rotor Torque Rated Torque	最大转矩 额定转矩 Breakdown Torque Rated Torque	转动惯量 kg·m²
50Hz时 同步转速 1500r/min							
YGVF100L-4	0.75	1.8	5	1440	1.3~2.0	3.7	0.0092
YGVF112L1-4	1.1	2.4	7.3	1450	1.3~2.0	3.6	0.0124
YGVF112L2-4	1.5	3.0	10	1450	1.3~2.0	3.6	0.0173
YGVF132M1-4	2.2	4.6	14.5	1450	1.3~2.0	3.5	0.0254
YGVF132M2-4	3	6.1	20	1450	1.3~2.0	3.5	0.0382
YGVF160S1-4	4	8.0	26.2	1460	1.3~2.0	3.6	0.0785
YGVF160S2-4	5.5	11	36	1460	1.3~2.0	3.6	0.0826
YGVF160L1-4	6.3	12.3	41.2	1460	1.3~2.0	3.7	0.102
YGVF160L2-4	7.5	14.5	49.1	1460	1.3~2.0	3.7	0.125
YGVF180L1-4	9	17.0	58.7	1465	1.3~2.0	3.7	0.152
YGVF180L2-4	11	20.5	71.7	1465	1.3~2.0	3.7	0.178
YGVF200L1-4	15	28.0	97.8	1465	1.3~2.0	3.8	0.265
YGVF200L2-4	18.5	33.4	120.6	1465	1.3~2.0	3.8	0.356
YGVF225M1-4	22	39.6	142.5	1475	1.3~2.0	3.8	0.411
YGVF225M2-4	25	44.5	162	1475	1.3~2.0	3.7	0.483
50Hz时 同步转速 1000r/min							
YGVF112L1-6	0.75	2.0	7.4	965	1.3~2.0	3.6	0.0112
YGVF112L2-6	1.1	2.7	11	965	1.3~2.0	3.6	0.0116
YGVF132M1-6	1.5	3.4	15	965	1.3~2.0	3.2	0.0264
YGVF132M2-6	2.2	4.8	22	965	1.3~2.0	3.2	0.0426
YGVF160S1-6	3	6.6	29.5	970	1.3~2.0	3.4	0.0857
YGVF160S2-6	4	8.7	39.4	970	1.3~2.0	3.4	0.0934
YGVF160L1-6	5.5	11.7	54	970	1.3~2.0	3.6	0.115
YGVF160L2-6	6.3	13.2	62	970	1.3~2.0	3.5	0.159
YGVF180L1-6	7.5	15.0	73.5	975	1.3~2.0	3.6	0.203
YGVF180L2-6	9	17.7	88.1	975	1.3~2.0	3.6	0.287
YGVF200L1-6	11	21.7	107.8	975	1.3~2.0	3.7	0.312

性能数据 PERFORMANCE DATA

380V 50Hz

型号 Type	功率 kW	额定电流 Current A	额定转矩 Rated Torque N·m	转速 r/min	堵转转矩 额定转矩 Locked Rotor Torque Rated Torque	最大转矩 额定转矩 Breakdown Torque Rated Torque	转动惯量 kg·m ²
50Hz时 同步转速 1000r/min							
YGVF200L2-6	15	28.6	147	975	1.3~2.0	3.7	0.383
YGVF225M1-6	18.5	34.4	181	975	1.3~2.0	3.5	0.524
YGVF225M2-6	22	41.0	215	975	1.3~2.0	3.5	0.623
50Hz时 同步转速 750r/min							
YGVF112L1-8	0.55	1.6	7.3	725	1.3~2.0	3.5	0.0112
YGVF112L2-8	0.75	2.0	10	725	1.3~2.0	3.5	0.0166
YGVF132M1-8	1.1	3.2	14.5	725	1.3~2.0	3.2	0.0264
YGVF132M2-8	1.5	4.3	20	725	1.3~2.0	3.2	0.0426
YGVF160S1-8	2.2	5.5	30	725	1.3~2.0	3.5	0.0857
YGVF160S2-8	3	7.3	39.5	725	1.3~2.0	3.5	0.0945
YGVF160L1-8	4	9.6	52.7	725	1.3~2.0	3.6	0.121
YGVF160L2-8	5.5	13.0	72.5	725	1.3~2.0	3.6	0.196
YGVF180L1-8	6.3	15.0	82.4	730	1.3~2.0	3.6	0.238
YGVF180L2-8	7.5	17.0	98	730	1.3~2.0	3.5	0.297
YGVF200L1-8	9	20.0	117.7	730	1.3~2.0	3.6	0.315
YGVF200L2-8	11	25.0	144	730	1.3~2.0	3.7	0.341
YGVF225M1-8	15	31.7	195	735	1.3~2.0	3.6	0.524
YGVF225M2-8	18.5	38.5	240	735	1.3~2.0	3.6	0.623

注：表中堵转转矩/额定转矩为3Hz时的值，其大小与变频器的控制方式有关。最大转矩/额定转矩为50Hz时的值。
The ratio of the locked-torque/rated torque is the value at 3Hz, which is determined by the control mode of the inverter. The ratio of the breakdown/rated torque is the value at 50Hz.

主要技术特性 TECHNICAL PERFORMANCE

电动机的绝缘等级为F或H级，外壳防护等级为IP54(防尘、防溅水)，也可根据需要制成IP55、IP56，冷却方式为IC410(全封闭表面冷却)。电动机的调速范围广，变频范围为5~100Hz，其中5~50Hz为恒转矩调速，50~100Hz为恒功率调速。电动机的过载能力大，过载能力可达到额定转矩的3.5~4.0倍(一般电动机为2.0倍)。低频起动转矩大，频率为5Hz时的起动转矩可达到额定转矩的1.3~1.8倍。电动机低速性能好，低速时转矩平滑，无爬行、脉动现象。

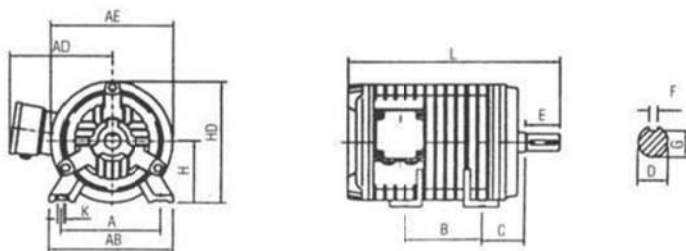
The motor designed with F or H insulation, IP54 protection. The frequency range of the motor is 5~100Hz, maintaining torque constant during 5~50Hz and output constant during 50~100Hz. The overload capability of the motor is excellent. The motor can be operated with the overload of 3.5~4.0 times of the rated torque (the ratio of the general purpose motor is about 2). Motors have good performance at low speed. The starting torque at 5Hz is 1.3~1.8 times of the rated values.

外形及安装尺寸 DIMENSIONS

mm

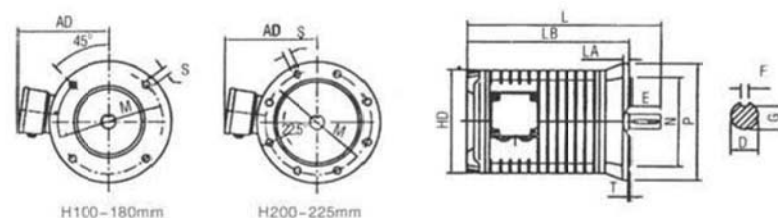
常用的安装结构型式为B3、B5和B35。The mounting type is B3、B5 or B35

B3



机座号 Frame	安装尺寸 Mounting Dimension										外形尺寸 Overall Dimension							
	A	B	C	D	E	F	G	GD	H	K	AB	AD	BB	HA	HD	HE	L	
100L	160	140	63	Φ28j6	60	8	24	7	100	12	200	180	180	18	205	—	310	
112L	190	159	70	Φ32k6	80	10	27	8	112	12	245	205	205	20	240	—	445	
132M	216	178	89	Φ38k6	80	10	33	8	132	12	265	220	225	22	265	—	500	
160S	254	178	108	Φ48k6	110	14	42.5	9	160	15	315	220	230	27	325	—	565	
160L	254	254	108	Φ48k6	110	14	42.5	9	160	15	315	220	320	27	325	—	685	
180L	279	279	121	Φ55m6	110	16	49	10	180	15	360	260	350	28	365	—	710	
200L	318	305	133	Φ65m6	140	18	58	11	200	19	415	310	385	35	410	—	795	
225M	356	311	149	Φ75m6	140	20	67.5	12	225	19	470	315	395	36	455	—	840	

B5

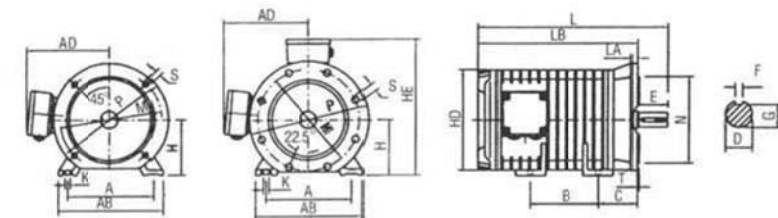


H100~180mm

H200~225mm

机座号 Frame	安装尺寸 Mounting Dimension											外形尺寸 Overall Dimension					
	D	E	F	G	GD	M	N	P	R	S	T	AD	AE	HD	LA	LB	L
100L	Φ28j6	60	8	24	7	215	Φ180j6	250	0	15	4	180	220	205	14	250	310
112L	Φ32k6	80	10	27	8	215	Φ180j6	250	0	15	4	205	240	240	15	365	445
132M	Φ38k6	80	10	33	8	265	Φ230j6	300	0	15	4	220	265	265	15	420	500
160S	Φ48k6	110	14	42.5	9	300	Φ250j6	350	0	19	5	220	340	325	15	455	565
160L	Φ48k6	110	14	42.5	9	300	Φ250j6	350	0	19	5	220	340	325	15	575	685
180L	Φ55m6	110	16	49	10	300	Φ250j6	350	0	19	5	260	370	365	18	600	710
200L	Φ65m6	140	18	58	11	400	Φ350j6	450	0	19	5	310	435	410	20	655	795
225M	Φ75m6	140	20	67.5	12	400	Φ350j6	450	0	19	4	315	475	455	22	700	840

B35



H100~180mm

H200~225mm

机座号 Frame	安装尺寸 Mounting Dimension															外形尺寸 Overall Dimension											
	A	B	C	D	E	F	G	H	M	N	P	R	S	T	K	AB	AD	AE	BB	HD	HA	HE	LA	LB	L		
100L	160	140	63	28	60	8	24	100	215	180	250	0	15	4	12	200	180	220	180	205	18	—	14	250	310		
112L	190	159	70	32	80	10	27	112	215	180	250	0	15	4	12	245	205	240	205	240	20	—	15	365	445		
132M	216	178	89	38	80	10	33	132	265	230	300	0	15	4	12	265	220	265	225	265	22	—	15	420	500		
160S	254	178	108	48	110	14	42.5	160	300	250	350	0	19	5	15	315	220	340	230	325	27	—	15	455	565		
160L	254	254	108	48	110	14	42.5	160	300	250	350	0	19	5	15	315	220	340	320	325	27	—	15	575	685		
180L	279	279	121	55	110	16	49	180	300	250	350	0	19	5	15	360	260	370	350	365	28	—	18	600	710		
200L	318	305	133	65	140	18	58	200	400	350	450	0	19	5	15	415	310	435	385	410	35	—	20	655	795		
225M	356	311	149	75	140	20	67.5	225	400	350	450	0	19	5	15	470	315	475	395	455	36	—	22	700	840		

14.YBF系列风机用隔爆型三相异步电动机

YBF SERIES OF THREE PHASE ASYNCHRONOUS FLAMEPROOF MOTORS FOR BLOWER

YBF系列电动机是按照GB3836.2-2010《爆炸性气体环境用电气设备第2部分隔爆型“d”》的规定设计制造的专为风机配套的隔爆型三相异步电动机。防爆标志为dI、dIIBT4、dIIBT4，分别适用于煤矿井下及工厂II A级、II B级，温度组别为T1-T4组的可燃性气体或蒸汽与空气形成的爆炸性混合物的场所。电气性能与YB2电机一致。

符合IEC60034、IEC60079标准。

额定功率：0.12-200kW

额定电压：380V、660V、380/660V

额定频率：50Hz

绝缘等级：F

机座号：63-315

YBF series of motors which are designed in accordance with GB3836.2-2010, Electrical apparatus for explosive atmospheres, the second Flameproof electrical apparatus “d” are the three phase asynchronous flameproof ones equipped with blower. Explosion protection marking is dI, dIIBT4, dIIBT4, apply places of explosion class IIB(fixed equipment in the coal mine and factory) and the places of combustible gas of temperature class which is T1-T4 or where are the mixture of explosive gas and steam. The electric performance is same to that of YB2 series of motors.

Conform to IEC60034, IEC60079 standard.

Rated output: 0.12-200kW

Rated voltage: 380V、660V、380/660V

Rated frequency: 50Hz

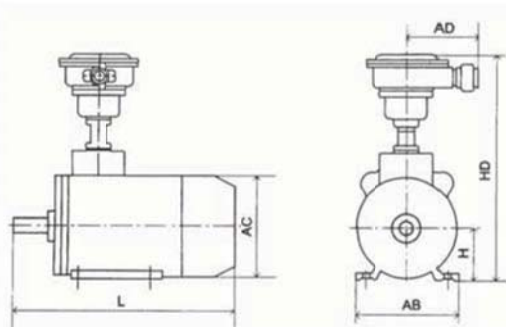
Insulation class: F

Frame size: 63-315



安装型式 IMB3 Types of construction IMB3

380V 50Hz



规格表 Specification table

型号 Type	功率 (KW) Power	型号 Type	功率 (KW) Power	型号 Type	功率 (KW) Power
YBF631-2	0.18	YBF132S-6	3	YBF250M-8	30
YBF632-2	0.25	YBF132M-4	7.5	YBF280S-2	75
YBF633-2	0.37	YBF132M1-6	4	YBF280S-4	75
YBF631-4	0.12	YBF132M2-6	5.5	YBF280S-6	45
YBF632-4	0.18	YBF160M1-2	11	YBF280S-8	37
YBF711-2	0.37	YBF160M2-2	15	YBF280M-2	90
YBF712-2	0.55	YBF160M-4	11	YBF280M-4	90
YBF713-2	0.75	YBF160M-6	7.5	YBF280M-6	55
YBF711-4	0.25	YBF160L-2	18.5	YBF280M-8	45
YBF712-4	0.37	YBF160L-4	15	YBF315S-2	110
YBF802-2	1.1	YBF160L-6	11	YBF315S-4	110
YBF801-4	0.55	YBF180M-2	22	YBF315S-6	75
YBF802-4	0.75	YBF180M-4	18.5	YBF315S-8	55
YBF801-6	0.25	YBF180L-4	22	YBF315S-10	45
YBF802-6	0.37	YBF180L-6	15	YBF315M-2	132
YBF90S-2	1.5	YBF180L-8	11	YBF315M-4	132
YBF90L-2	2.2	YBF200L1-2	30	YBF315M-6	90
YBF90S-4	1.1	YBF200L2-2	37	YBF315M-8	75
YBF90L-4	1.5	YBF200L-4	30	YBF315M-10	55
YBF90S-6	0.75	YBF200L1-6	18.5	YBF315L1-2	160
YBF90L-6	1.1	YBF200L2-6	22	YBF315L2-2	200
YBF100L-2	3	YBF200L-8	15	YBF315L1-4	160
YBF100L1-4	2.2	YBF225S-4	37	YBF315L2-4	200
YBF100L2-4	3	YBF225S-8	18.5	YBF315L1-6	110
YBF100L-6	1.5	YBF225M-2	45	YBF315L2-6	132
YBF112M-2	4	YBF225M-4	45	YBF315L1-8	90
YBF112M-4	4	YBF225M-6	30	YBF315L2-8	110
YBF112M-6	2.2	YBF225M-8	22	YBF315L1-10	75
YBF132S1-2	5.5	YBF250M-2	55	YBF315L2-10	90
YBF132S2-2	7.5	YBF250M-4	55		
YBF132S-4	5.5	YBF250M-6	37		

安装尺寸：同YB3系列隔爆型三相异步电动机

Dimensions mounting and outline, Mounting dimensions: Same to YE3 series of flameproof motors

外形及尺寸 contour dimensions

机座号 Power size	极数 poles	外形尺寸(mm) contour dimensions					机座号 Power size	极数 poles	外形尺寸(mm) contour dimensions				
		AB	AC	AD	HD	L			AB	AC	AD	HD	L
63	2,4	130	150	165	570	270	200L	2,4,6,8	390	400	250	1220	805
71	2,4,6	140	155	165	580	300	225S	4,8	435	450	250	1325	865
80	2,4,6,8	165	165	180	590	330	225M	2	435	450	250	1325	860
90S	2,4,6,8	180	180	180	645	360	225M	4,6,8	435	450	250	1325	890
90L	2,4,6,8	180	180	180	645	385	250M	2,4,6,8	490	500	300	1385	945
100L	2,4,6,8	200	205	180	735	440	280S	2,4,6,8	545	565	300	1510	1010
112M	2,4,6,8	245	230	200	780	460	280M	2,4,6,8	545	565	300	1510	1060
132S	2,4,6,8	280	270	200	895	510	315S	2	640	630	400	1780	1250
132M	2,4,6,8	280	270	200	895	550	315S	4,6,8,10	640	630	400	1780	1280
160M	2,4,6,8	330	325	220	1015	655	315M	2	640	630	400	1780	1320
160L	2,4,6,8	330	325	220	1015	695	315M	4,6,8,10	640	630	400	1780	1350
180M	2,4,6,8	355	360	220	1085	730	315L	2	640	630	400	1780	1410
180L	2,4,6,8	355	360	220	1085	750	315L	4,6,8,10	640	630	400	1780	1440

15.YB3系列隔爆型高效三相异步电动机

YB3 SERIES FLAMEPROOF THREE-PHASE ASYNCHRONOUS MOTORS

YB3 系列隔爆型高效三相异步电动机,是全新设计的全封闭自扇冷式高效笼型防爆电机,效率指标满足 GB18613<<中小型三相异步电动机能效限定值及能效等级>>能效要求,并符合欧洲 EFF1 标准。具有高效,节能,寿命长等优点,性能好,振动小,维修方便等特点。YB3 是 YB,YB2 系列普通隔爆型三相异步电动机的升级换代产品。

YB3 series flameproof three-phase asynchronous motor is a new design of totally enclosed fan-cooled high-efficiency cage flameproof motors, it meets the requirement of EFF1 in EU and GB 18613, and has the advantages of high efficiency, energy saving, long life, good performance, small vibration, convenient maintenance etc., and is a new generation of YB and YB2 series flameproof three-phase asynchronous motors.



本系列电动机的防爆性能符合 GB3836.1-2010《爆炸性气体环境用电气设备第 1 部分:通用要求》和 GB3836.2-2010《爆炸性气体环境用电气设备第 2 部分:隔爆型“d”》标准的规定,制成隔爆型 Exd I Mb、Exd II AT4 Gb、Exd II BT4 Gb、Exd II CT4。适用于有爆炸性气体混合物存在的场所。隔爆型 Exd I Mb 适用于有瓦斯气体存在的场所(采掘工作面除外)。

隔爆型 Exd I Mb 适用于有瓦斯气体存在的场所(采掘工作面除外)。

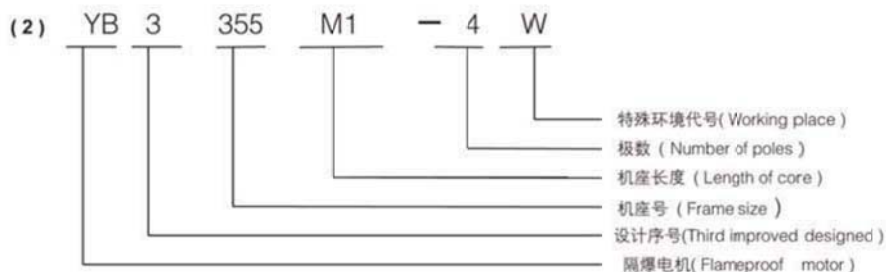
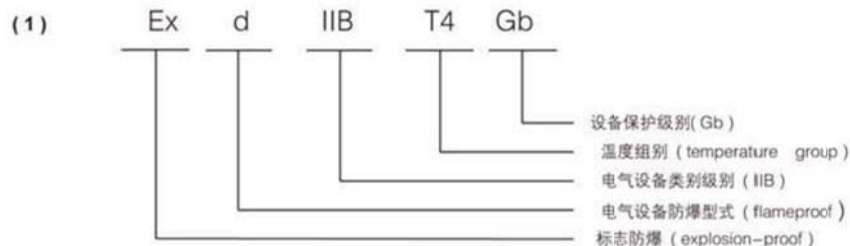
隔爆型 Exd II AT4 Gb, 适用于有工厂用 IIA 类, 温度组别为 T1, T2, T3 和 T4 组爆炸性气体混合物存在的环境

隔爆型 Exd II BT4 Gb, 适用于有工厂用 IIB 类, 温度组别为 T1, T2, T3 和 T4 组爆炸性气体混合物存在的环境

隔爆型 Exd II CT4, 适用于有工厂用 IIC 类, 温度组别为 T1, T2, T3 和 T4 组爆炸性气体混合物存在的环境

This series of explosion-proof motor performance comply with GB3836.1-2010 "Electrical apparatus for explosive gas atmospheres - Part 1: General requirements" and GB3836.2-2010 "Electrical apparatus for explosive gas atmospheres - Part 2: flameproof" d ", and meet the IEC79-1, BS4683 and EN50018. were made flameproof Exd I Mb, Exd II AT4 Gb, Exd II BT4 Gb, Exd II CT4, applicable to the presence of explosive gas mixtures in place. Suitable for the coal mine underground non mining work face and factories with dangerous places with group IIA, IIB and IIC, temperature group are T1-T4 of explosive gas mixture.

型号说明 Designation



主要技术条件和使用条件 Operating Conditions

额定电压 Rated Voltage: 380V、660V、380 / 660V、660 / 1140V

额定频率 Rated Frequency: 50Hz

防护等级 Protection Class: IP55

冷却方式 Cooling Method: IC411

工作制 Working System: S1

绝缘等级 Insulation Class: F

安装形式 Installation Type: IMB3、IMB5、IMB35

环境温度 Ambient temperature: $-15^{\circ}\text{C} \leq \theta \leq 40^{\circ}\text{C}$

海拔不超过 1000m

Altitude: Altitude should be lower than 1000meters above sea level

电动机安装外形尺寸见 表2

订货指南

本样本中的数据随着技术进步允许有变动, 不另行通知, 请注意样本的出版日期。

如有特殊要求, 如电压、频率、防护等级、旋转方向、双轴伸、噪声振动限值、防护等级、海拔高度等特殊情况请订货时说明

订货时请注明样本中所标明的电动机的型号、功率、同步转速、电压、频率、结构及安装型式、防爆标志、隔爆等级和接线盒进线方式以及旋转方向等等。

例: 机座中心为 355、220KW、2P 机座带底脚, 端盖无凸缘, 工厂用 IIB 类 T4 组隔爆型, 380/660V, 顺时针转向, 橡套电缆进线的电动机标注如下:

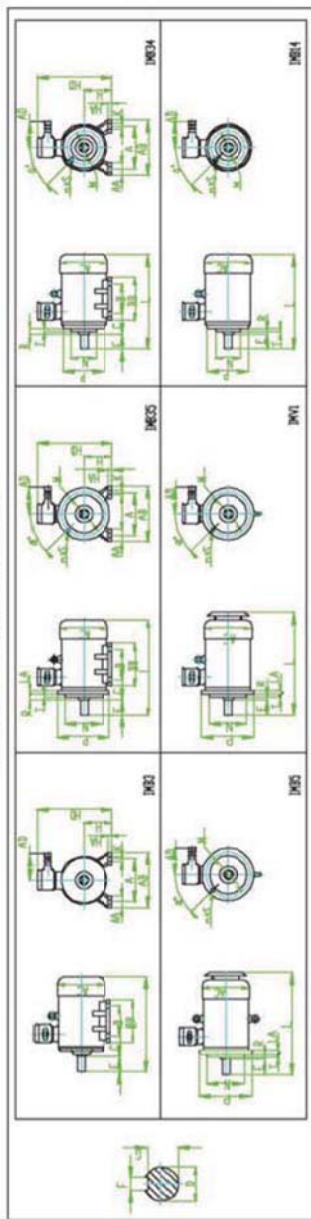
YB3--355M1-2 220KW 300r/min 380/660V 50Hz IMB3 Ex d IIB T4 Gb 橡套电缆, 顺时针旋转。

表 1

机座号 Frame size	同步转速 r/min Synchronous speed r/min						
	3000	1500	1000	750	600	500	429
功率 kW Output kW							
63M1	0.18	0.12	—	—	—	—	—
63M2	0.25	0.18	—	—	—	—	—
71M1	0.37	0.25	0.18	—	—	—	—
71M2	0.55	0.37	0.25	—	—	—	—
80M1	0.75	0.55	0.37	0.18	—	—	—
80M2	1.10	0.75	0.55	0.25	—	—	—
90S	1.50	1.10	0.75	0.37	—	—	—
90L	2.20	1.50	1.10	0.55	—	—	—
100L1	—	2.20	—	0.75	—	—	—
100L2	3.00	3.00	1.50	1.10	—	—	—
112M	4.00	4.00	2.20	1.50	—	—	—
132S1	5.50	—	—	—	—	—	—
132S2	7.50	5.50	3.00	2.20	—	—	—
132M1	—	—	4.00	—	—	—	—
132M2	—	7.50	5.50	3.00	—	—	—
160M1	11.00	—	—	4.00	—	—	—
160M2	15.00	11.00	7.50	5.50	—	—	—
160L	18.50	15.00	11.00	7.50	—	—	—
180M	22.00	18.50	—	—	—	—	—
180L	—	22.00	15.00	11.00	—	—	—
200L1	30.00	—	18.50	—	—	—	—
200L2	37.00	30.00	22.00	15.00	—	—	—
225S	—	37.00	—	18.50	—	—	—
225M	45.00	45.00	30.00	22.00	—	—	—
250M	55.00	55.00	37.00	30.00	18.50 (22.00)	18.50	—
280S	75.00	75.00	45.00	37.00	30.00	22.00	18.50
280M	90.00	90.00	55.00	45.00	37.00	30.00	22.00
315S	110.00	110.00	75.00	55.00	45.00	37.00	30.00
315M	132.00	132.00	90.00	75.00	55.00	45.00	37.00
315L1	160.00	160.00	110.00	90.00	75.00	55.00	45.00
315L	185.00	185.00	—	—	—	—	—
315L2	200.00	200.00	132.00	110.00	90.00	(75.00)	55.00
355S1	(185.00)	(185.00)	—	—	—	—	—
355S2	(200.00)	(200.00)	160.00	132.00	(90.00)	75.00	55.00
355M1	(220.00)	(220.00)	(185.00)	—	110.00	90.00	75.00
355M2	250.00	250.00	(200.00)	160.00	132.00	110.00	90.00
355L1	(280.00)	(280.00)	(220.00)	(185.00)	160.00	132.00	—
355L2	315.00	315.00	250.00	(200.00)	(185.00)	160.00	110.00

注 1: 带括号的为不优先推荐规格。注 2: S、M、L 后面的数字 1、2 分别代表同一机座号和转速下不同的功率。

表 2 YB3-63~355 电动机安装方式及外型尺寸



机座号 Frame size	外型尺寸									
	总长 L	定子外径 D	定子内径 d	定子高度 H	定子中心高 H ₁	定子中心距 A	定子中心距 B	定子中心距 C	定子中心距 D	定子中心距 E
63	115	115	115	115	115	115	115	115	115	115
71	130	130	130	130	130	130	130	130	130	130
80	145	145	145	145	145	145	145	145	145	145
90	160	160	160	160	160	160	160	160	160	160
100	175	175	175	175	175	175	175	175	175	175
112	190	190	190	190	190	190	190	190	190	190
132	215	215	215	215	215	215	215	215	215	215
160	240	240	240	240	240	240	240	240	240	240
180	265	265	265	265	265	265	265	265	265	265
200	290	290	290	290	290	290	290	290	290	290
225	315	315	315	315	315	315	315	315	315	315
250	340	340	340	340	340	340	340	340	340	340
280	365	365	365	365	365	365	365	365	365	365
315	390	390	390	390	390	390	390	390	390	390
355	415	415	415	415	415	415	415	415	415	415