



YBX5系列高效率隔爆型三相异步电动机

YBX5 series super high efficiency flameproof three-phase asynchronous motor



江苏大中电机股份有限公司

Jiangsu Dazhong Electric Motor Co.,Ltd.

地址：中国江苏省靖江市季市大中路 66-68 号

电话：0086-523-84542326 84542309

传真：0086-523-84542280 邮编：214523

网址：[/www.dzmotor.com](http://www.dzmotor.com)

ADD No.66-68 Dazhong Road, Jishi Town, Jingjiang,
Jiangsu Province, P.R. China

TEL:0086-523-84542326 84542309

FAX:0086-523-84542280 POST CODE 214523

E-mail:jdzjd@pub.tz.jsinfo.net

江苏大中电机股份有限公司
Jiangsu Dazhong Electric Motor Co.,Ltd.



YBX5系列超高效率隔爆型三相异步电动机

YBX5 series super high efficiency flameproof three-phase asynchronous motor



Brief Introduction

江苏大中电机股份有限公司(简称大中电机)是一家具有现代化生产规模的综合性电机制造企业。位于经济发达的长江三角洲江苏省靖江市，京沪高速、宁通高速、新长铁路贯穿而过，距上海、南京均约1.5小时车程，交通十分便捷。

大中电机是1996年由国营靖江电机电器总厂按现代企业制度要求改制而成，现有员工1860人，工程技术人员460多人，占地面积25万平方米，拥有总资产5.2亿元，年生产能力50万台，1200万千瓦。主要产品有大、中型高压电机、直流电机、同步电机、隔爆电机以及各种交流电动机等。广泛用于电站、冶金、煤矿、机械、石油、化工、船舶、交通、水利、水泥、造纸、环保等厂矿企业，产品畅销全国各地。其中，出口量占生产总量的三分之一，远销世界三十多个国家和地区。

近年来，大中电机坚持科技创新，注重技术改造，不断加大新品开发力度。使原有的大、中型高压电机、直流电机、各种交流电机产品的质量产量都跃上新的台阶，同时成功开发了高速电机、尼玛超高效防爆电机，高温电机、四级隔爆船用电机等新产品，投放市场，深受用户欢迎。

大中电机坚持管理创新，全面提升现代化管理水平，1996年在同行业中率先通过了ISO9001质量管理体系认证，并先后获得了CQC、CCC、CCS证书、美国UL、加拿大CSA、欧盟CE、ATEX等认证。是国家科技部命名的“全国微特电机产业基地”。

大中电机坚持品牌战略，注重产品质量，产品先后荣获“江苏省名牌产品”、“江苏省信得过产品”、国家“质量信得过产品”、“中国名牌产品”、“中国驰名商标”等荣誉。产品质量稳定可靠，部分产品达到了国际同类先进水平。大中电机的规模及综合经济效益排列在全国电机行业前列。

大中电机坚持“发展科技拓市场，强化质量铸品牌，严格管理增效益，诚信为本誉天下”的工厂方针，发扬“诚信、团结、敬业、创新”的企业精神，竭诚为各行各业广大用户提供优质的产品和满意的服务。大中电机全体员工正努力将大中品牌发展成为国际知名品牌。

Jiangsu Dazhong Electric Limited by Share Ltd (referred to as large and medium-sized motor) is a modern production scale integrated motor manufacturing enterprises. Is located in the economically developed Yangtze River Delta -- Jingjiang City, Jiangsu Province, the Beijing Shanghai Expressway, Ningtong expressway, the new long railway runs through, from Shanghai, Nanjing are about 1.5 hours by car, the traffic is very convenient.

Large and medium-sized motor is 1996 by the state-run Jingjiang electrical appliance factory according to the requirements of modern enterprise system reform, the existing staff of 1860 people, engineering and technical personnel more than 460 people, covers an area of 250000 square meters, with total assets of 520000000 yuan, annual production capacity of 500000 units, 12000000 kilowatts. The main products are high, medium high voltage motor, DC motor, synchronous motor, explosion-proof motor and AC motor etc.. Widely used in power plants, metallurgy, coal, machinery, petroleum, chemical, marine, transportation, water conservancy, cement, paper, environmental protection and other industrial enterprises, products sell well all over the country. Among them, exports accounted for 1/3 of total production, exported to the world more than 30 countries and regions.

In recent years, large and medium-sized motor adhere to scientific and technological innovation, focus on technological transformation, increasing new product development efforts. The yield and quality of the large and medium-sized high-voltage motors, DC motor, AC motor products are new step, at the same time, the successful development of the high speed motor, fuck ultra efficient explosion-proof motor, motor, four stage high temperature explosion-proof marine motor and other new products, put on the market, deeply welcomed by the users.

Large and medium-sized electrical adhere to management innovation, improve the modern management level, in 1996 in the same industry in the first through the ISO9001 quality management system certification, and has obtained CQC, CCC, CCS certificate, UL, Canada CSA, American European Union CE, ATEX certification. National Ministry of science and technology was named "national micro motor industry base".

Large and medium-sized electrical adhere to brand strategy, pay attention to product quality, product has won the "brand-name products in Jiangsu province", "trustworthy product of Jiangsu province", "national quality trustworthy product", "Chinese brand-name products", "A Well-Known Trademark in China" and other honorary. Stable and reliable product quality, some products have reached the international advanced level of similar. The size of large and medium-sized motors and integrated economic order in the forefront of the national motor industry.

Large and medium-sized electrical adhere to the "science and technology extension market, strengthen the quality of casting brand, strict management to increase efficiency, integrity world reputation" the factory approach, carry forward the "integrity, unity, professionalism, innovation" the enterprise spirit, dedication to provide quality products and satisfactory service for the vast number of users of all walks of life. Large and medium-sized electrical staff's efforts to become an international famous brand and brand development.



YBX5系列超高效率隔爆型三相异步电动机

YBX5 series super high efficiency flameproof three-phase asynchronous motor

概述

YBX5系列高效率隔爆型三相异步电动机是我公司电动机基础产品，本系列电动机的功率等级、安装尺寸符合国际电工委员会(IEC)标准，其对应关系与德国DIN42673标准相同。

本系列电动机隔爆性能符合GB3836.1-2010《爆炸性环境第1部分：设备.通用要求》和GB3836.2-2010《爆炸性环境第2部：由隔爆外壳“d”保护的设备》的规定，防爆标志为Ex d II B T4 Gb。适用于除煤矿外爆炸性气体环境用设备，具有“高”的保护级别。

在基础系列产品上，可按使用环境、气候、腐蚀等条件制造成特制型。

该系列电动机效率指标符合GB18613-2020《中小型三相异步电动机能效限定值及能效等级》中规定的能效1级的效率值。

General Description

YBX5 series efficiency motor flameproof three-phase asynchronous motor is our company basic product, the series of the power rating of the motor and installation size are in line with the international electrotechnical commission (IEC) standard and its corresponding relationship with German DIN42673 standard is the same.

Flame-proof performance of this series motor conforms to GB3836.1-2010 "explosive environment, part 1: equipment. General requirements" and GB3836.2-2010 explosive environment department: 2 by flame-proof enclosures "d" protect the equipment of the provisions of the explosion-proof marks for the Ex d II B T4 Gb. Suitable for the explosive gas environment use equipment in exceptfor the use of coal mine, has a "high" level of protection.

On the basic series of products, it can be made into a special type according to the environment, climate andcorrosion conditions and so on.

This series of motor efficiency indexes accord with GB18613-2020 "small and medium sized three-phase asynchronous motor limited value of energy efficiency and energy efficiency grade specified in the efficiency value of the energy efficiency of grade 1.

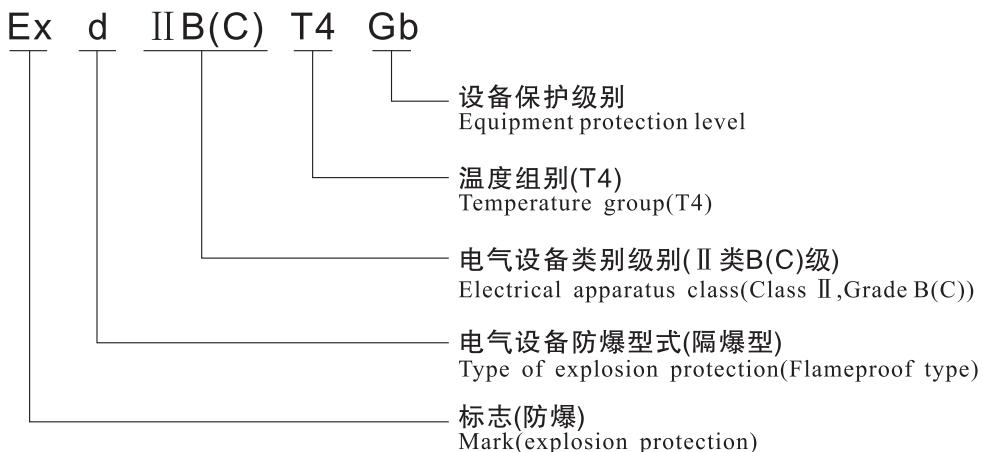


YBX5系列超高效率隔爆型三相异步电动机

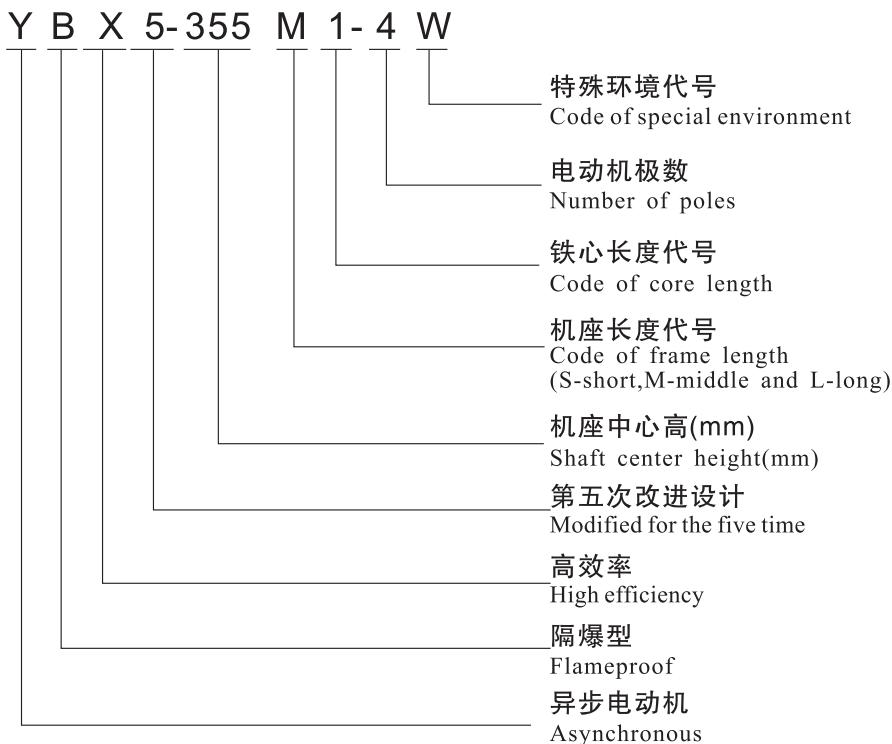
YBX5 series super high efficiency flameproof three-phase asynchronous motor



电动机防爆标志代表的意义 Explanation of Ex marking and designation



电动机型号代表的意义 Explanation of type designation





YBX5系列超高效率隔爆型三相异步电动机

YBX5 series super high efficiency flameproof three-phase asynchronous motor

结构及使用条件 Construction and using condition

◆ 电动机结构 Motor construction

Motor construction

1. 电动机的防爆等级为 Ex d II B T4 Gb，适用于Ⅱ类A级、Ⅱ类B级及Ⅱ类C级、温度组别为T1、T2、T3和T4组爆炸性混合物存在的环境。
2. 电动机主体外壳防护等级为IP55，可按要求制成IP65。
3. 电动机的冷却方式为IC411。
1. The explosive grade of the motor is Ex d II B T4 Gb、Ex d II C T4 Gb, which is suitable for the environment Class II grade A, Class II grade B and Class II grade C, temperature grade T1,T2,T3 and T4 with explosive mixture.
2. The protection grade of the motor frame is IP55、Can be made according to the requirement IP65.
3. The cooling method of the motor is IC411.

◆ 电动机使用电气条件 Electrical Condition

1. 额定电压：220/380V、230/400V、240/415V、380/660V、400/690V、415/720V、660/1140V、440V、460V、480V、525V、575V、600V。
2. 额定频率：50&60Hz。
3. 定额：连续工作制S1。
1. Rating voltage: 220/380V、230/400V、240/415V、380/660V、400/690V、415/720V、660/1140V、440V、460V、480V、525V、575V、600V.
2. Rating frequency: 50&60Hz.
3. Load duty: Continuous duty S1

◆ 电动机使用环境条件 Circumstance Conditions

海拔不超过1000m，环境空气温度随季节而变化，为-20℃~+40℃的户内环境
Less than 1000m sea level, the ambient air temperature varies with the season, for indoor user ranging from -20℃to +40℃ for indoor use.

◆ 特殊使用环境 Special using environment

1. YBX5-W适用于室内环境 suitable for indoor environment
2. YBX5-TH适用于室内湿热带环境 suitable for humid tropical environment
3. YBX5-THW适用于户外湿热带环境 suitable for outdoor humid tropical environment
4. YBX5-TA适用于户内干热带型环境 suitable for indoor dry tropical environment
5. YBX5-TAW适用于户外干热带型环境 suitable for outdoor dry tropical environment
6. YBX5-F1适用于户内中等腐蚀环境 suitable for indoor medium corrosive environment
7. YBX5-WF1适用于户外中等腐蚀环境 suitable for outdoor medium corrosive environment
8. YBX5-F2适用于户内强腐蚀环境 suitable for indoor strong corrosive environment
9. YBX5-WF2适用于户外强腐蚀环境 suitable for outdoor strong corrosive environment

电动机技术数据 Technical Data

- 1.电动机机座号与功率及转速对应关系见表1
- 2.电动机电气性能参数见表2
- 1.The correlation between frame size, output and speed are shown in Table 1
- 2.The electrical property parameters are shown in Table 2



YBX5系列超高效率隔爆型三相异步电动机
YBX5 series super high efficiency flameproof three-phase asynchronous motor

表1 Table 1

机座号 Frame size	同步转速 Synchronous speed(r/min)				
	3000	1500	1000	750	600
80M 1 2	0.75	0.55	0.37	0.18	
	1.1	0.75	0.55	0.25	
90S	1.5	1.1	0.75	0.37	
90L	2.2	1.5	1.1	0.55	
100L 1 2	3	2.2	1.5	0.75	
		3		1.1	
112M	4	4	2.2	1.5	
132S 1 2	5.5	5.5	3	2.2	
	7.5				
132M 1 2		7.5	4	3	
			5.5		
160M 1 2	11	11	7.5	4	
	15			5.5	
160L	18.5	15	11	7.5	
180M	22	18.5			
180L	—	22	15	11	
200L 1 2	30	30	18.5	15	
	37		22		
225S		37	—	18.5	
225M	45	45	30	22	
250M	55	55	37	30	
280S	75	75	45	37	
280M	90	90	55	45	
315S	110	110	75	55	45
315M	132	132	90	75	55
315L 1 2	160	160	110	90	75
	(185)	(185)	—	—	—
	200	200	132	110	90
355S 1 2	(185)	(185)	160	132	(90)
	(200)	(200)			
355M 1 2	(220)	(220)	(185)	160	110
	250	250	200		132
355L 1 2	(280)	(280)	(220)	(185)	160
	315	315	250	200	(185)

注：1、带括号的为不优先推荐规格；

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。

Note: 1.Parentheses is not the preferred recommended specification;

2.S. M.L after the number 1.2 represent the same seat number and different power under the rotating speed respectively.



YBX5系列超高效率隔爆型三相异步电动机
YBX5 series super high efficiency flameproof three-phase asynchronous motor

表2 Table 2

型 号 Type	额 定 Rated		效 率 Efficiency %	功 率因数 Power factor $\cos\phi$	堵转转距 额定转距 Locked torque Rated torque	堵转电流 额定电流 Locked current Rated current	最大转距 额定转距 Pull out torque Rated torque	转动惯量 Inertia movement (kg · m ²)
	功 率 Output kW	电 流 Current (380V)A						
同 步 转 速 Synchronous speed 3000r/min								
YBX5-80M1-2	0.75	1.61	2895	86.3	0.82	2.2	8.5	2.3
YBX5-80M2-2	1.1	2.3	2890	87.8	0.82	2.2	8.5	2.3
YBX5-90S-2	1.5	3.1	2900	88.9	0.84	2.2	9.0	2.3
YBX5-90L-2	2.2	4.3	2900	90.2	0.86	2.2	9.0	2.3
YBX5-100L-2	3	5.8	2900	91.1	0.87	2.2	9.5	2.3
YBX5-112M-2	4	7.6	2915	91.8	0.87	2.2	9.5	2.3
YBX5-132S1-2	5.5	10.4	2945	92.6	0.87	2.0	9.5	2.3
YBX5-132S2-2	7.5	13.9	2945	93.3	0.88	2.0	9.5	2.3
YBX5-160M1-2	11	20.2	2955	94	0.88	2.0	9.5	2.3
YBX5-160M2-2	15	27.4	2955	94.5	0.88	2.0	9.5	2.3
YBX5-160L-2	18.5	33.7	2955	94.9	0.88	2.0	9.5	2.3
YBX5-180M-2	22	39.9	2970	95.1	0.88	2.0	9.5	2.3
YBX5-200L1-2	30	54.2	2970	95.5	0.88	2.0	9.0	2.3
YBX5-200L2-2	37	66.7	2970	95.8	0.88	2.0	9.0	2.3
YBX5-225M-2	45	80.9	2975	96	0.88	2.0	9.0	2.3
YBX5-250M-2	55	97.6	2985	96.2	0.89	2.0	9.0	2.3
YBX5-280S-2	75	132.7	2980	96.5	0.89	1.8	8.5	2.3
YBX5-280M-2	90	159.0	2980	96.6	0.89	1.8	8.5	2.3
YBX5-315S-2	110	194.0	2985	96.8	0.89	1.8	8.5	2.3
YBX5-315M-2	132	232.5	2985	96.9	0.89	1.8	8.5	2.3
YBX5-315L1-2	160	281.6	2985	97.0	0.89	1.8	8.5	2.2
YBX5-315L2-2	200	351.3	2985	97.2	0.89	1.8	8.5	2.2
YBX5-355M1-2	(220)	382.1	2985	97.2	0.90	1.6	8.5	2.2
YBX5-355M2-2	250	434.2	2985	97.2	0.90	1.6	8.5	2.2
YBX5-355L1-2	(280)	486.3	2985	97.2	0.90	1.6	8.5	2.2
YBX5-355L2-2	315	547.1	2985	97.2	0.90	1.6	8.5	2.2



YBX5系列超高效率隔爆型三相异步电动机
YBX5 series super high efficiency flameproof three-phase asynchronous motor

续表2 Table 2 (continued) <

型 号 Type	额 定 Rated		效 率 Efficiency %	功 率 Power factor $\cos\phi$	堵 转 距 堵转转距 Locked torque	堵 转 电 流 额定电流 Locked current	最 大 转 距 额定转距 Pull out torque	噪 声 Noise (L _w) dB(A)	振 动 等 级 Vibration class (mm/s)	转 动 惯 量 Inertia movement (kg · m ²)
	功 率 Output kW	电 流 Current (380V)A								
同 步 转 速 Synchronous speed 1500r/min										
YBX5-80M1-4	0.55	1.3	1440	86.7	0.72	2.3	6.3	2.3	56	1.3
YBX5-80M2-4	0.75	1.8	1435	88.2	0.73	2.3	8.5	2.3	56	1.3
YBX5-90S-4	1.1	2.5	1445	89.5	0.74	2.3	8.5	2.3	59	1.3
YBX5-90L-4	1.5	3.4	1445	90.4	0.75	2.3	9.0	2.3	59	1.3
YBX5-100L1-4	2.2	4.7	1465	91.4	0.78	2.3	9.0	2.3	64	1.3
YBX5-100L2-4	3	6.3	1455	92.1	0.79	2.3	9.5	2.3	64	1.3
YBX5-112M-4	4	8.3	1460	92.8	0.79	2.3	9.5	2.3	65	1.3
YBX5-132S-4	5.5	11.3	1475	93.4	0.79	2.0	9.5	2.3	71	1.3
YBX5-132M-4	7.5	15.2	1475	94.0	0.8	2.0	9.5	2.3	71	1.3
YBX5-160M-4	11	21.5	1475	94.6	0.82	2.0	9.5	2.3	73	1.8
YBX5-160L-4	15	28.9	1475	95.1	0.83	2.0	9.5	2.3	73	1.8
YBX5-180M-4	18.5	35.1	1480	95.3	0.84	2.0	9.5	2.3	76	1.8
YBX5-180L-4	22	41.7	1480	95.5	0.84	2.0	9.5	2.3	76	1.8
YBX5-200L-4	30	56.6	1485	95.9	0.84	2.0	9.0	2.3	76	1.8
YBX5-225S-4	37	69.6	1485	96.1	0.84	2.0	9.0	2.3	78	1.8
YBX5-225M-4	45	84.5	1485	96.3	0.84	2.0	9.0	2.3	78	1.8
YBX5-250M-4	55	101.9	1485	96.5	0.85	2.0	9.0	2.3	79	1.8
YBX5-280S-4	75	137.0	1490	96.7	0.86	2.0	8.5	2.3	80	1.8
YBX5-280M-4	90	162.2	1490	96.9	0.87	2.0	8.5	2.3	80	1.8
YBX5-315S-4	110	195.8	1490	97.0	0.88	1.8	8.5	2.2	88	2.3
YBX5-315M-4	132	234.7	1490	97.1	0.88	1.8	8.5	2.2	88	2.3
YBX5-315L1-4	160	281.0	1490	97.2	0.89	1.8	8.5	2.2	88	2.3
YBX5-315L2-4	200	350.5	1490	97.4	0.89	1.8	8.5	2.2	88	2.3
YBX5-355S1-4 (185)	320.6	1490	97.3	0.89	1.8	8.5	2.2	92	2.3	6.3237
YBX5-355S2-4 (200)	350.5	1490	97.4	0.89	1.8	8.5	2.2	92	2.3	7.1527
YBX5-355M1-4 (220)	385.6	1490	97.4	0.89	1.8	8.5	2.2	92	2.3	8.2643
YBX5-355M2-4 250	438.2	1490	97.4	0.89	1.8	8.5	2.2	92	2.3	10.5792
YBX5-355L1-4 (280)	490.8	1490	97.4	0.89	1.8	8.5	2.2	92	2.3	11.3641
YBX5-355L2-4 315	552.1	1490	97.4	0.89	1.8	8.5	2.2	93	2.3	12.0642



YBX5系列超高效率隔爆型三相异步电动机
YBX5 series super high efficiency flameproof three-phase asynchronous motor

续表2 Table 2 (continued) <

型 号 Type	额 定 Rated		效 率 Efficiency %	功 率 Power factor $\cos\phi$	堵 转 距 堵转转距 Locked torque Rated torque	堵 转 电 流 额定电流 Locked current Rated current	最 大 转 距 额定转距 Pull out torque Rated torque	转 动 惯 量 Inertia movement (kg · m ²)
	功 率 Output kW	电 流 Current (380V)A						
同 步 转 速 Synchronous speed 1000r/min								
YBX5-80M1-6	0.37	1.0	890	81.6	0.68	1.9	4.7	2.0
YBX5-80M2-6	0.55	1.5	890	84.2	0.68	1.9	4.7	2.1
YBX5-90S-6	0.75	1.9	955	85.7	0.69	2.1	7.5	2.1
YBX5-90L-6	1.1	2.8	955	87.2	0.69	2.1	7.5	2.1
YBX5-100L-6	1.5	3.7	960	88.4	0.7	2.1	7.5	2.1
YBX5-112M-6	2.2	5.3	970	89.7	0.7	2.1	7.5	2.1
YBX5-132S-6	3	7.2	975	90.6	0.7	2.0	7.5	2.1
YBX5-132M1-6	4	9.4	975	91.4	0.71	2.0	8.0	2.1
YBX5-132M2-6	5.5	12.8	975	92.2	0.71	2.0	8.0	2.1
YBX5-160M-6	7.5	16.4	980	92.9	0.75	2.0	8.0	2.1
YBX5-160L-6	11	23.5	980	93.7	0.76	2.0	8.5	2.1
YBX5-180L-6	15	30.6	985	94.3	0.79	2.0	8.5	2.1
YBX5-200L1-6	18.5	37.6	985	94.6	0.79	2.0	8.5	2.1
YBX5-200L2-6	22	44.0	985	94.9	0.8	2.0	8.5	2.1
YBX5-225M-6	30	59.0	985	95.3	0.81	2.0	8.3	2.1
YBX5-250M-6	37	71.7	990	95.6	0.82	2.0	8.3	2.1
YBX5-280S-6	45	87.0	990	95.8	0.82	2.0	8.5	2.0
YBX5-280M-6	55	104.9	990	96.0	0.83	2.0	8.5	2.0
YBX5-315S-6	75	142.6	990	96.3	0.83	1.6	8.0	2.0
YBX5-315M-6	90	168.7	990	96.5	0.84	1.6	8.0	2.0
YBX5-315L1-6	110	206.0	990	96.6	0.84	1.6	8.0	2.0
YBX5-315L2-6	132	243.7	990	96.8	0.85	1.6	8.0	2.0
YBX5-355S-6	160	295.1	990	96.9	0.85	1.6	8.0	2.0
YBX5-355M1-6	185	340.9	990	97.0	0.85	1.6	8.0	2.0
YBX5-355M2-6	200	368.5	990	97.0	0.85	1.6	8.0	2.0
YBX5-355L1-6	220	405.4	990	97.0	0.85	1.6	8.0	2.0
YBX5-355L2-6	250	460.7	990	97.0	0.85	1.6	8.0	2.0





YBX5系列超高效率隔爆型三相异步电动机
YBX5 series super high efficiency flameproof three-phase asynchronous motor

续表2 Table 2 (continued)

型 号 Type	额 定 Rated		效 率 Efficiency %	功 率因数 Power factor $\cos\phi$	同 步 转 速 Synchronous speed		堵转转距 额定转距 Locked torque Rated torque	堵转电流 额定电流 Locked current Rated current	最大转距 额定转距 Pull out torque Rated torque	噪 声 Noise (L _w) dB(A)	振 动 等 级 Vibration class (mm/s)	转动惯量 Inertia movement (kg · m ²)
	功 率 Output kW	电 流 Current (380V)A			710	82.0						
YBX5-100L1-8	0.75	2.1	710	84.0	0.66	2.0	7.0	2.0	59	1.3	0.0080	
YBX5-100L2-8	1.1	3.0	710	85.5	0.68	2.0	7.0	2.0	59	1.3	0.0092	
YBX5-112M-8	1.5	3.9	710	87.2	0.69	1.8	7.5	2.0	61	1.3	0.0141	
YBX5-132S-8	2.2	5.6	725	88.4	0.69	1.8	7.8	2.0	64	1.3	0.0209	
YBX5-132M-8	3	7.5	725	89.4	0.7	1.8	7.9	2.0	64	1.3	0.0457	
YBX5-160M1-8	4	9.7	730	90.4	0.71	1.8	8.1	2.0	68	1.8	0.0591	
YBX5-160M2-8	5.5	13.0	730	91.3	0.73	1.8	7.8	2.0	68	1.8	0.0849	
YBX5-160L-8	7.5	17.1	730	92.2	0.73	1.8	7.9	2.0	70	1.8	0.1104	
YBX5-180L-8	11	24.8	735	94.1	0.76	1.8	8.0	2.0	73	1.8	0.1614	
YBX5-200L-8	15	33.2	735	92.9	0.74	1.8	8.1	2.0	73	1.8	0.2629	
YBX5-225S-8	18.5	40.7	740	93.3	0.74	1.8	8.1	2.0	73	1.8	0.3849	
YBX5-225M-8	22	47.6	740	93.6	0.75	1.8	8.3	2.0	73	1.8	0.6427	
YBX5-250M-8	30	63.7	740	94.1	0.77	1.8	7.9	2.0	75	1.8	0.7671	
YBX5-280S-8	37	77.3	740	94.4	0.77	1.8	7.9	2.0	76	1.8	1.2924	
YBX5-280M-8	45	93.8	740	94.7	0.77	1.8	7.9	2.0	76	1.8	1.9575	
YBX5-315S-8	55	111.5	745	94.9	0.79	1.6	8.2	2.0	82	2.3	2.418	
YBX5-315M-8	75	151.4	745	95.3	0.79	1.6	7.6	2.0	82	2.3	3.8577	
YBX5-315L1-8	90	179.0	745	95.5	0.8	1.6	7.7	2.0	82	2.3	5.1955	
YBX5-315L2-8	110	215.6	745	95.7	0.81	1.6	7.7	2.0	82	2.3	6.2058	
YBX5-355S-8	132	258.2	745	95.9	0.81	1.6	7.7	2.0	89	2.3	7.7992	
YBX5-355M-8	160	312.3	745	96.1	0.81	1.6	7.7	2.0	89	2.3	12.7935	
YBX5-355L1-8	185	360.7	745	96.2	0.81	1.6	7.7	2.0	89	2.3	15.6365	
YBX5-355L2-8	200	389.6	745	96.3	0.81	1.6	7.8	2.0	89	2.3	18.4795	
YBX5-315S-10	45	100.0	590	91.2	0.75	1.3	6.2	2.0	82	2.3	3.8772	
YBX5-315M-10	55	121.4	590	91.8	0.75	1.3	6.2	2.0	82	2.3	4.7846	
YBX5-315L1-10	75	162.4	590	92.3	0.76	1.3	6.2	2.0	82	2.3	6.1870	
YBX5-315L2-10	90	191.2	585	92.9	0.77	1.3	6.2	2.0	82	2.3	7.2595	
YBX5-355S-10	90	191.2	585	92.9	0.77	1.3	6.0	2.0	82	2.3	9.3540	
YBX5-355M1-10	110	230.1	585	93.1	0.78	1.3	6.0	2.0	90	2.3	11.4481	
YBX5-355M2-10	132	275.0	585	93.5	0.78	1.3	6.0	2.0	90	2.3	13.9612	
YBX5-355L1-10	160	333.3	585	93.5	0.78	1.3	6.0	2.0	90	2.3	17.3118	
YBX5-355L2-10	185	385.4	585	93.5	0.78	0.8	6.0	2.0	90	2.3	19.9645	



YBX5系列超高效率隔爆型三相异步电动机
YBX5 series super high efficiency flameproof three-phase asynchronous motor

表3 Table 3

机座号 Frame size	结构与安装型式代号 Code of constructions and mounting arrangements(IM)
80~112	B3,B5,B6,B7,B8,B14,B34,B35,V1,V3,V5,V6,V15,V18,V35,V37
132~160	B3,B5,B6,B7,B8,B35,V1,V3,V5,V6,V15,V35,V37
180~280	B3,B5,B35,V1
315~355	B3,B35,V1

表4 Table 4

安装结构型式 Constructions and mounting arrangements	B3	B5	B6	B7	B8
示意图 Illustrated diagram					
安装结构型式 Constructions and mounting arrangements	B14	B34	B35	V1	V3
示意图 Illustrated diagram					
安装结构型式 Constructions and mounting arrangements	V5	V6	V15	V18	V35
示意图 Illustrated diagram					

表5 Table 5

接线盒规格 Specifications of terminal box	适用机座号 For frame size	进线口数 Number of entry	进线口螺纹 Inlet's thread	进线电缆最大外径 The max.outer diameter of inlet cable	正常供货范围 Scope of supply
M5	80~100	单 One	M30×2	Φ25	正常 Normal
M5	112~132	单 One	M30×2	Φ25	正常 Normal
M6	160~180	单 One	M36×2	Φ35	正常 Normal
M8	200~225	单 One	M48×2	Φ42	正常 Normal
M10	250~280	单 One	M64×2	Φ50	正常 Normal
M10	250~280	双 Two	M48×2	Φ42	正常 Normal
M16	315~355	双 Two	M64×2	Φ50	正常 Normal
M16	315~355	双 Two	M80×1.5	Φ64	正常 Normal



YBX5系列超高效率隔爆型三相异步电动机
YBX5 series super high efficiency flameproof three-phase asynchronous motor

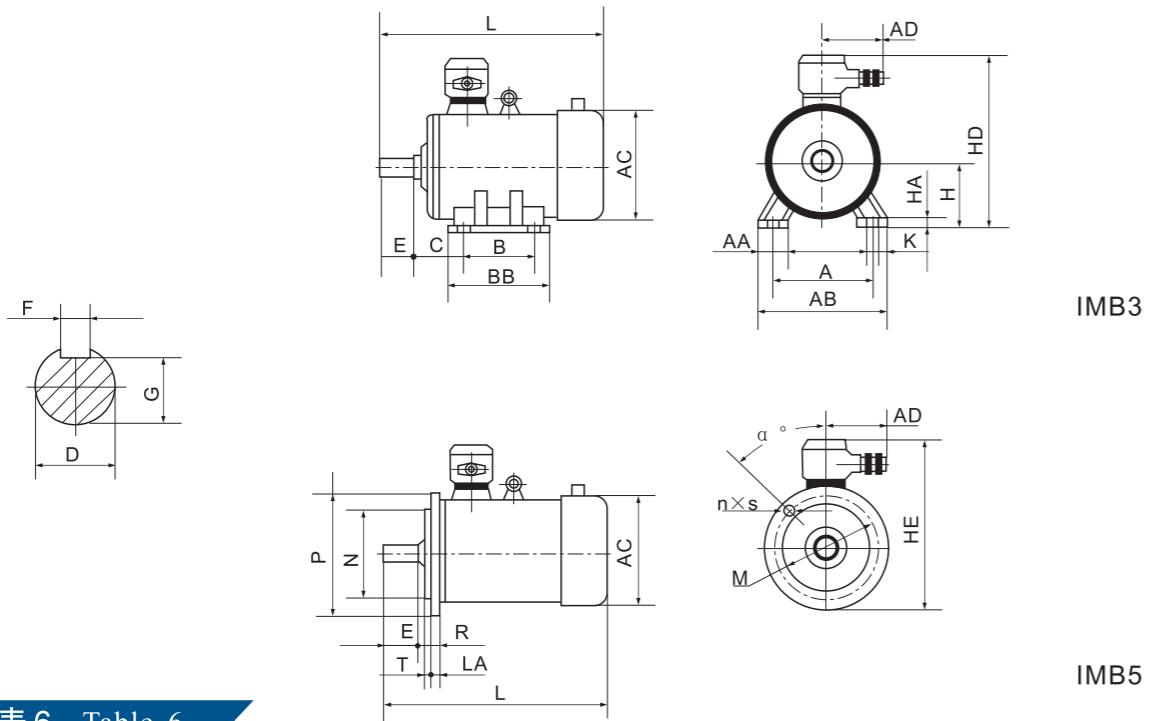
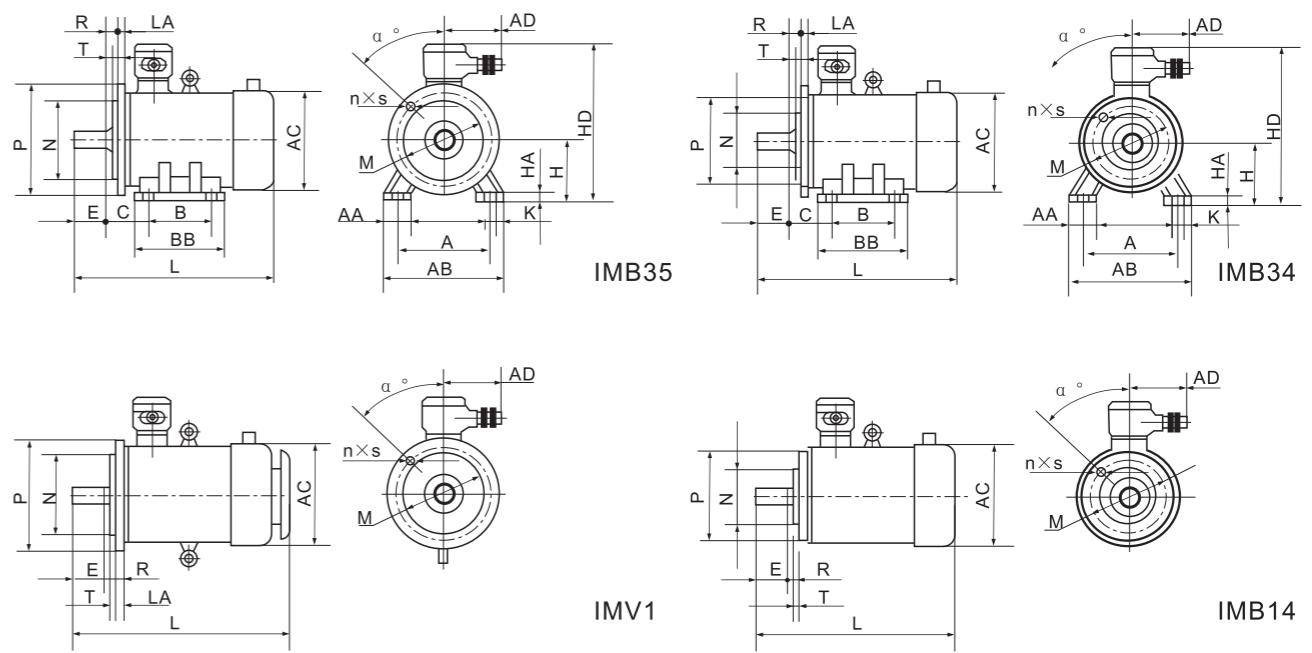


表6 Table 6



YBX5系列超高效率隔爆型三相异步电动机
YBX5 series super high efficiency flameproof three-phase asynchronous motor



机座号 Frame size	凸缘号 Flange number			安装及外形尺寸 Mounting and overall dimensions												凸缘尺寸 Flange dimensions																		
	IMB35 IMB5 IMV1	IMB14 IMB34	A B C	D				E				F				G				H	K	凸缘尺寸 Flange dimensions												
				极数 Pole number		2P 4P		2P 4P		2P 4P		2P 4P		2P 4P		IMB35		IMB5		IMV1				IMB14		IMB34								
				M	N	P	R	。	n×S	T	M	N	P	R	。	n×S	T	AA	AB	AC	AD	BB	HA	HD	HE	L _A	L							
80	FF165	FF100	125 100 50	19	40	6	15.5	80	10	165	130	200	0	45	4×Φ12	3.5	100	80	120	0	45	4×M6	3.0	34	160	185	165	130	10	310	330	12	320 320 320 345	
90S	FF165	FF115	140 100 56	24	50	8	20	90	10	165	130	200	0	45	4×Φ12	3.5	115	95	140	0	45	4×M8	3.0	36	180	205	165	155	14	320	345	14	395 395 395 420	
90L	FF165	FF115	140 125 56	24	50	8	20	90	10	165	130	200	0	45	4×Φ12	3.5	115	95	140	0	45	4×M8	3.0	36	180	205	165	190	14	320	345	14	425 425 425 450	
100L	FF215	FF130	160 140 63	28	60	8	24	100	12	215	180	250	0	45	4×Φ14.5	4.0	130	110	160	0	45	4×M8	3.5	43	200	225	165	176/220 (4.3KW)	14	340	380	14	450/490 480/520 (4.3KW) 450/490 (4.3KW) 480/520 (4.3KW)	
112M	FF215	FF130	190 140 70	28	60	8	24	112	12	215	180	250	0	45	4×Φ14.5	4.0	130	110	160	0	45	4×M8	3.5	50	245	245	175	280	16	365	405	14	525 525 525 555	
132S	FF265		216 140 89	38	80	10	33	132	12	265	230	300	0	45	4×Φ14.5	4.0								60	280	297	175	245	18	430	490	14	550 550 550 590	
132M	FF265		216 178 89	38	80	10	33	132	12	265	230	300	0	45	4×Φ14.5	4.0								60	280	297	175	285	18	430	490	14	590 590 590 630	
160M	FF300		254 210 108	42	110	12	37	160	14.5	300	250	350	0	45	4×Φ18.5	5.0								70	330	330	202	305	20	500	520	15	710 710 710 760	
160L	FF300		254 254 108	42	110	12	37	160	14.5	300	250	350	0	45	4×Φ18.5	5.0								70	330	330	202	350	20	500	520	15	750 750 750 800	
180M	FF300		279 241 121	48	110	14	42.5	180	14.5	300	250	350	0	45	4×Φ18.5	5.0								70	355	375	202	370	25	535	535	18	815 815 815 875	
180L	FF300		279 279 121	48	110	14	42.5	180	14.5	300	250	350	0	45	4×Φ18.5	5.0								70	355	375	202	390	25	535	535	18	835 835 835 895	
200L	FF350		318 305 133	55	110	16	49	200	18.5	350	300	400	0	45	4×Φ18.5	5.0								70	390	426	230	380	25	610	610	18	850 850 850 920	
225S	FF400		356 286 149	55 60	110 140	16 18	49	53	225	18.5	400	350	450	0	22.5	8×Φ18.5	5.0								75	435	470	230	390	28	645	645	18	- - 930 1020
225M	FF400		356 311 149	55 60	110 140	16 18	49	53	225	18.5	400	350	450	0	22.5	8×Φ18.5	5.0								75	435	470	230	420	28	645	645	18	930 930 960 1050
250M	FF500		406 349 168	60 65	140 140	18 18	53	58	250	24	500	450	550	0	22.5	8×Φ18.5	5.0								80	490	540	270	440	30	720	745	20	1000 1000 1000 1105
280S	FF500		457 368 190	65 75	140 140	18 20	58	67.5	280	24	500	450	550	0	22.5	8×Φ18.5	5.0								85	545	550	270	465	35	800	795	22	1065 1065 1085 1200
280M	FF500		457 419 190	65 75	140 140	18 20	58	67.5	280	24	500	450	550	0	22.5	8×Φ18.5	5.0								85	545	550	270	520	35	800	795	22	1120 1120 1140 1255
315S	FF600		508 406 216	65 80	140 170	18 22	58	71	315	28	600	550	660	0	22.5	8×Φ24	6.0								120	635	620	310	630	45	930	945	25	1220 1220 1290 1410
315M	FF600		508 457 216	65 80	140 170	18 22	58	71	315	28	600	550	660	0	22.5	8×Φ24	6.0								120	635	620	310	780	45	930	945	25	1370 1370 1440 1560
315L	FF600		508 508 216	65 80	140 170	18 22	58	71	315	28	600	550	660	0	22.5	8×Φ24	6.0								120	635	620	310	880	45	930	945	25	1470 1470 1540 1660
355S	FF740		610 500 254	75 95	140 170	20 25	67.5</																											



YBX5系列超高效率隔爆型三相异步电动机

YBX5 series super high efficiency flameproof three-phase asynchronous motor

电动机结构及安装型式和安装外形尺寸

◆ 电动机结构及安装型式

本系列电动机的安装方式符合GB997《电机结构及安装型式代号》及IEC34-7的规定。本系列电动机有5种基本结构型式：

- B3—机座带底脚、端盖无凸缘；
- B5—机座不带底脚、端盖有凸缘；
- B35—机座带底脚、端盖有凸缘；
- B14—机座不带底脚、端盖有小凸缘；
- B34—机座带底脚、端盖有小凸缘。

本系列电动机在上述5中基本结构上，可派生15种常用结构及安装型式，其制造范围见表3。结构及安装型式示意图见表4。

◆ 电动机接线盒结构

电动机接线盒结构具有优良的隔爆性能和较高防护等级，且具有较大的空腔以便于接线，进线为橡套电缆和钢管布线(螺纹接口)2种。按不同起动要求，可分别制成一个进线口(适用于电动机直接起动)和两个进线口(适用于电动机Y-△起动)。接线盒进线口及使用范围见表5。

◆ 电动机安装外形尺寸见表6。

Constructions,Mounting Arrangements and Overall Dimensions

◆ Constructions and Mounting Arrangements

The mounting arrangements of this series motors conform to China Standards GB997 Sample for types of construction and mounting arrangement of rotating electrical machinery and IEC Publication 34-7.

- Five basic constructions are available:
- B3-with foot mounted and flangeless;
 - B5-with flange mounted and footless;
 - B35-with both foot and flange mounted;
 - B14-with small flange mounted and footless;
 - B34-with both foot and small flange mounted.

Based on five constructions mentioned above, this series motors can be modified into 15 constructions and mounting arrangements. For the manufacture range, see Table 3. And for the constructions and mounting arrangements, see Table 4.

◆ Motor Terminal Construction

The motor junction box structure is with excellent flameproof performance and high protection level, it has larger cavity to facilitate wiring. There are two kinds of incoming wirings: rubber-sheathed cable steel pipe wiring. As per different starting requirement, it can be made into one inlet (applicable for motor direct starting) and two inlets(applicable for motor Y-? starting). Please refer to table 5 for junction box inlet and scope of Application.

◆ For the mounting and overall dimensions, see Table 6.



YBX5系列超高效率隔爆型三相异步电动机

YBX5 series super high efficiency flameproof three-phase asynchronous motor

订货指南

- 1、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。
- 2、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、转速(双速、三速或四速)等必须签订技术协议后，方可制造。
- 3、订货时请按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。

例：机座中心高为355,220KW, 2P, 机座带底脚，端盖无凸缘，工厂用ⅡB类T4组隔爆型，380V，顺时针转向，电动机标注如下：

YBX5-355M1-2 220KW 380V 50HZ IMB3 Ex dⅡB T4 Gb,

顺时针旋转。

Ordering Requirements

1. Since the technique is developing continuously, the data in this catalogue may be subject to attention without prior notice. Pls note the publication date by month and year.

2. For the special requirements. Such as voltage ,frequency, protection degree, rotating direction, two shaft extension ends, limiting values of noise and vibration, speed(two-speed, three-speed or four-speed)etc, the motors will not be manufactured until a technical specification being signed.

3. When placing orders, Pls follow motor model, power, synchronous speed, voltage, frequency, structure and installation type, explosive-proof mark, flameproof grade and terminal box incoming way and rotating direction etc. specified in brochure.

Example: base center height of 355, 220KW,2P, frame with feet, end cover without flange,

Factories with class Ⅱ B group T4 flameproof type, 380V, veering, rubber sets of cables into linear motor marked as follows:

YBX5-355M1-2, 220KW, 380V, 50Hz, IMB3, Ex dⅡB T4 Gb, rubber-insulated cable entry and clockwise rotation.