



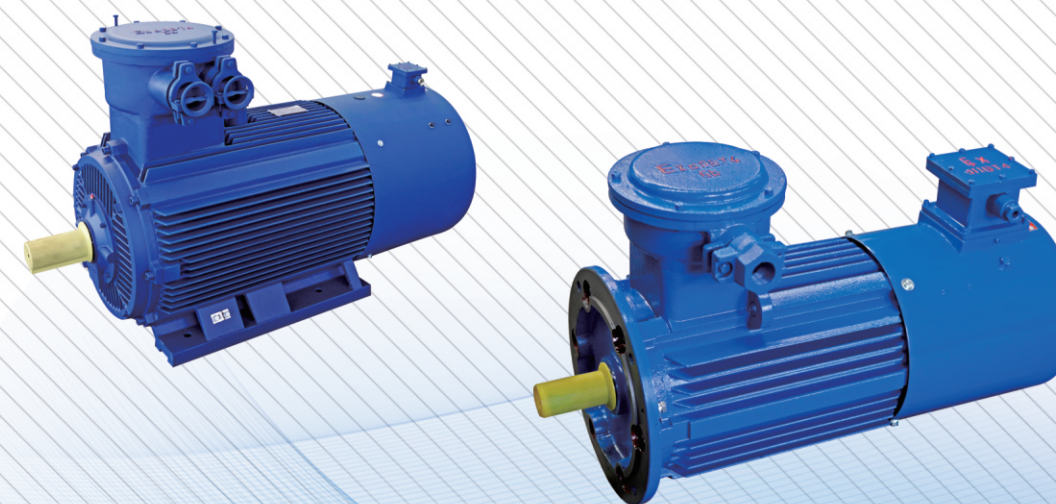
大中电机走向世界的品牌

Da Zhong Motor A brand tends towards World

YBBP

系列隔爆型变频调速三相异步电动机

YBBP series of explosion-proof frequency conversion speed control 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：0086-523-84542453 84542326 84542309

传 真：0086-523-84542280 84542257

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

TEL:0086-0523-84542453 84542326 84542309

FAX:0086-0523-84542280 84542257

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

www.dzem-china.com



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概述

YBBP系列隔爆型变频调速三相异步电动机是我公司在YB3系列电动机基础上，结合当前国、内外电磁结构、工艺、材料等方面的新技术而新开发产品。其特点是电机与变频器配合使用，可以实现较宽范围内平滑无极调速，具有调速范围广、动态响应快、调速精度高等特点，满足石油、化工、机械等存在爆炸性气体环境防爆要求的变频驱动产品。

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”保护的装置》的规定，防爆标志为Ex d II B T4 Gb、Ex d II C 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。

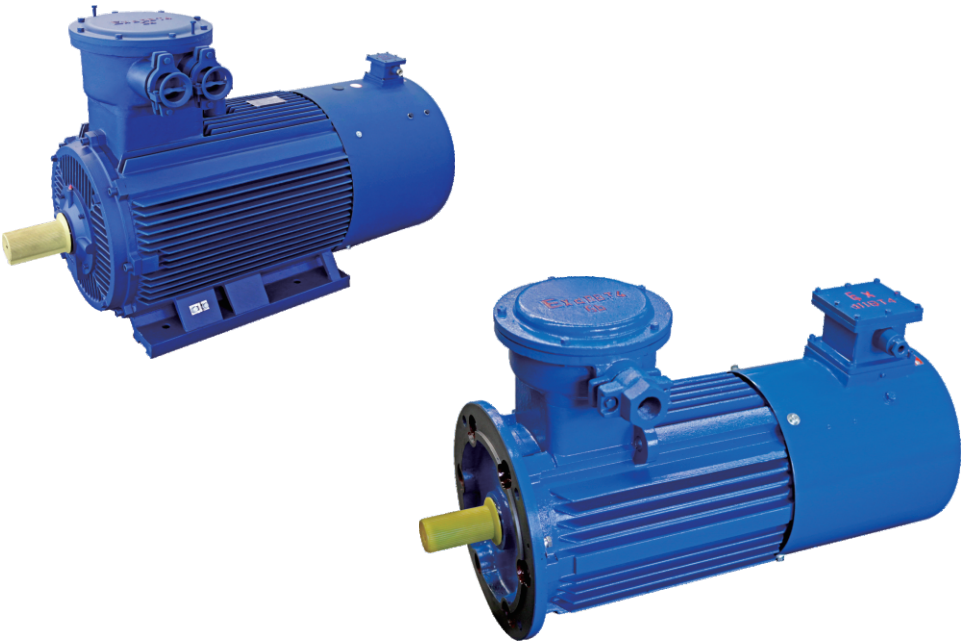
General Description

YBBP series flameproof three-phase induction motor with variable frequency speed regulation is a new product developed by our company on the basis of YB3 series motor and combining with the new technology of electromagnetic structure, technology and materials at home and abroad. It is characterized by a wide range of smooth stepless speed regulation, a wide range of speed regulation, fast dynamic response, high speed regulation accuracy, etc. , frequency conversion drive products that meet the explosion protection requirements of Petroleum, chemical, mechanical and other explosive gas environment.

The power grade and installation dimension of this series motors are in accordance with the International Electrotechnical Commission standard, and the corresponding relationship is the same as din 42673 standard.

This series of motor flameproof performance conforms to GB3836.1-2010"Explosive Environment Part 1: equipment-general requirements" and Gb3836.2-2010"explosive environment part 2: Equipment Protected by "D" flameproof enclosure" , the explosion-proof marks are Ex d II BT 4 Gb and Ex d II C T 4 Gb. Applicable to explosive gas environment equipment except coal mine, with "high" protection level.

In the basic series of products, according to the use of the environment, climate, corrosion and other conditions to make a special type.



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、调频范围、防护等级、噪声振动限值及旋转方向等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、电压结构及安装型式、防爆标志和接线盒进线方式以及旋转方向等等。

例：机座中心高为355，220kW，2极，机座带底脚，端盖无凸缘，工厂用 II B类T4组隔爆型，380V，橡套电缆进线，隔爆型变频调速电动机标注如下：
YBBP-355M1-2 220kW IMB3 50Hz 380V 恒转矩变频范围：5~50HZ
恒功率变频范围：50~60HZ、Ex d II B T4Gb橡套电缆。

Ordering Requirements

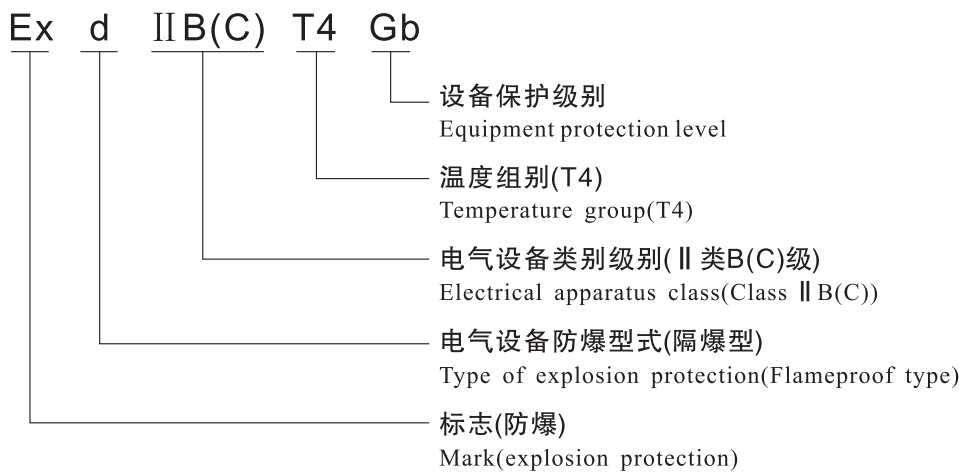
1. The data in this sample with the technological progress allows to have the change, without further notice, please pay attention to the date of publication of the sample.
2. If there are special requirements, such as voltage, frequency modulation range, protection level, noise vibration limit value and the direction of rotation, etc., Square can be manufactured.
3. When the order of the motor shown in the sample size, power, voltage structure and installation type, explosion-proof symbol and wiring box into the lineAs well as the direction of rotation.

Cases: The frame central high 355、220kW, 2 pole, frame with feet, end cover flange, factory II class B T4 group flameproof type, 380V.The rubber sleeve cable into the line, the explosion-proof type frequency control motor marked as Follows:
220kW IMB3 50Hz 380V YBBP-355M1-2 Constant torque frequency conversion range: 5~50HZ
Constant power frequency conversion range: Ex d II B T4Gb 50~60HZ rubber sheathed cable.



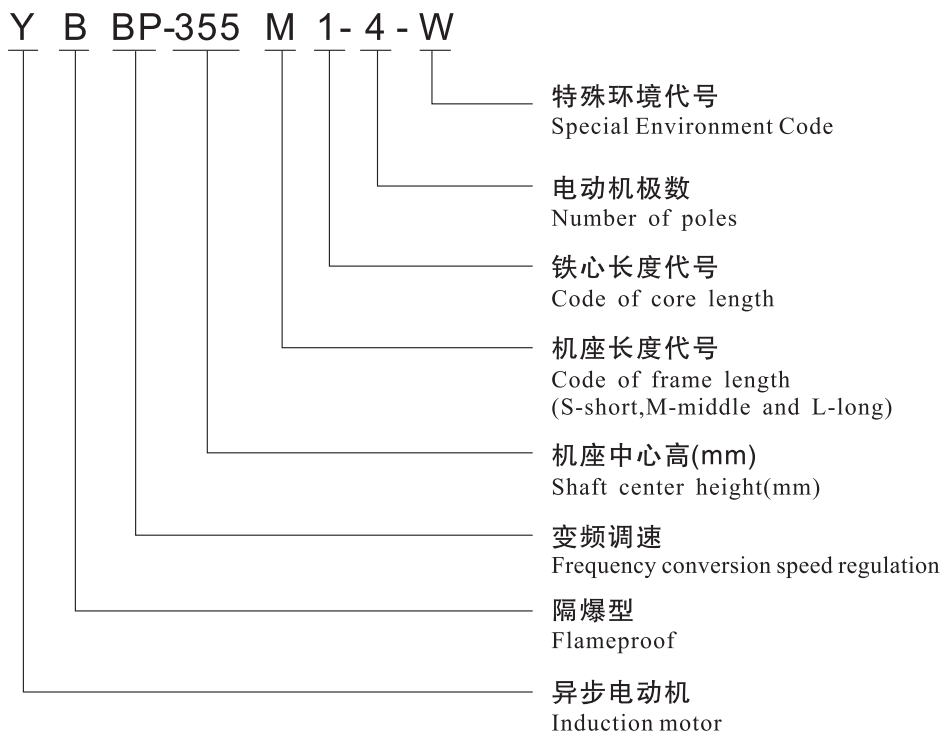
电动机防爆标志代表的意义

Explanation of Ex marking and designation



电动机型号代表的意义

Explanation of type designation



结构说明

- 1、电动机的防爆等级为 Ex d Ⅱ B T4 Gb、Ex d Ⅱ C 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。
- 3、电动机的冷却方式为IC411、IC416(强迫通风)。
- 4、电动机定子绕组及绝缘除具有良好的电气、机械、防潮性能及热稳定性特点外，在设计过程中还充分考虑了在变频器供电条件下脉冲电压对电机定子绕组的冲击，通过采用更加优越的电磁线，对绝缘体进行特殊工艺处理等措施，有效提升电机定子绕组部分耐脉冲电压冲击性能，充分保证电机在变频器供电条件下运行稳定性。
- 5、电动机转子采用铸铝结构，采用比普通电机更高精度的动平衡处理工艺，有效提升电机在较大转速范围内运行稳定性。
- 6、电动机轴承选用电动机专用低振动、低噪声轴承，机座号132及以下采用双面密封轴承。机座号160及以上采用内、外盖结构，并在轴承部位采用挡圈固定，有效地防止电动机转子的轴向窜动。对机座号315及以上电机考虑到可能产生的轴电流对轴承的影响，风扇端采用绝缘轴承。机座号160及以上电动机设有注排油装置。
- 7、机座号160~280电动机可配置定子PTC测温或加热带，并在主接线盒设置独立出线口。
- 轴承测温装置根据用户需要进行设置并配置独立测温接线盒。
- 机座号315及以上电动机可配置定子及轴承测温独立接线盒。
- 建议定子、轴承温度设定值：
- 轴承报警温度：90℃；停机温度：95℃。
- 定子报警温度：140℃；停机温度：145℃。

Construction Features

1. Motor Ex explosion-proof level for dⅡ T4 T4 Gb Gb, Ex d Ⅱ C B, applicable to Ⅱ a-class, Ⅱ B and Ⅱ class C level, temperature classes T1, T2, T3, and T4 group explosive mixture of environment.
2. Motor subject to IP55 protection grade.
3. The cooling of the motor for IC411, IC416 (forced ventilation).
4. Motor stator winding and insulation in addition to have good electrical and mechanical, moistureproof performance and thermal stability characteristics, in the design process also give full consideration to the under the condition of the inverter power supply pulse voltage of motor stator winding impact, through the adoption of more excellent electromagnetic wire, special process of insulator processing measures, such as the boost motor stator winding part pulse voltage impact resistance, sufficient to ensure the stability of motor under the condition of the inverter power supply operation.
5. Motor rotor structure of cast aluminum, with higher precision than the general motor's dynamic balance processing craft, enhance the motor running in a large speed range stability.
6. The top end of motivation to choose motor bearing vibration, low noise bearings, double sealed bearing were adopted for frame size 132 and below. Frame size 160 and above the internal and external structure, and the bearing parts adopt fixed ring, effectively prevent motor rotor axial channeling. For motor frame size 315 and above considering the possible influence on bearing, shaft current fan end USES the insulation bearing. Motor frame size 160 and above the discharge of oil injection device.
7. Stand 160 ~ 280 motor stator PTC temperature measurement can be configured or add the tropics, and in the main junction box set outlet independently.
- Bearing temperature measuring device according to user needs to be set up and configuration independent temperature measuring terminal block.
- Motor frame size 315 and above configurable stator and bearing temperature independent junction box.
- Suggest stator and bearing temperature Settings:
- Bearing alarm temperature: 90℃; Stop temperature: 95℃.
- The stator alarm temperature: 140 ℃. Stop temperature: 145℃.



电动机使用条件 Service Conditions

※ 电动机使用电气条件 Electrical Conditions

- 1、额定电压 Rated voltage: 440V、460V、480V、380/660V、400/690V、415/720V、660/1140V
- 2、额定频率 Rated frequency: 50Hz
- 3、定额 Duty type: 连续工作制S1 Continuous running duty-type S1
- 4、单独风机的额定频率50HZ，额定电压与主电机相同。
- Rated frequency 50HZ, rated voltage and the same as the main motor.

※ 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℃的户内型环境
- The altitude is up to 1000m above sea level.The ambient temperature,which is subject to seasonal variation,belongs to indoor circumstance of -20℃~+40℃.
- YBBP 为基本型，适用于户内环境
- YBBP is the basic type,suitable for indoor circumstance

电动机技术数据 Technical Data

- 1、电动机的额定转矩与标称功率的对应关系见表1。
- 2、电动机电气性能参数见表2。
- 3、配套风机的型号及参数见表7。

- 1.The correlation between flame size,output and speed are shown in Table 1
- 2.The electrical property parameters are shown in Table 2
- 3.The model and parameters of the model are shown in Table 7.



表1 Table 1

机座号 Frame size	同 步 转 速 Synchronous speed(r/min)						
	3000	1500	1000	750	600	500	
	功 率 Output(kW)						
80M	1	0.75	0.55	0.37	0.18	—	
	2	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	3	2.2	1.5	0.75		
	2		3		1.1		
112M	4	4	2.2	1.5			
132S	1	5.5	5.5	3	2.2		
	2	7.5					
132M	1	—	4	3			
	2		5.5				
160M	1	11	7.5	4			
	2		15	5.5			
160L	18.5	15	11	7.5			
180M	22	18.5	—	—			
180L	—	22	15	11			
200L	1	30	30	18.5			15
	2	37		22			
225S	—	37	—	18.5			15
225M	45	45	30	22			18.5
250M	55	55	37	30		22	18.5
280S	75	75	45	37		30	22
280M	90	90	55	45		37	30
315S	110	110	75	55		45	37
315M	132	132	90	75		55	45
315L	1	160	160	110		75	55
	2	(185)	(185)	—		—	
		200	200	132		110	
355S	1	(185)	(185)	160		132	(90)
	2	(200)	(200)				
355M	1	(220)	(220)	(185)	160	110	90
	2	250	250	200		132	
355L	1	(280)	(280)	(220)	(185)	160	110
	2	315	315	250	200	(185)	132
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.The specification in bracket is not preferentially recommended spec. 2.The numbers 1 and 2 following letters S,M and L represent separately different output in the same frame size at the same speed.							

表 2 Table 2

型 号 Type	额 定 Rated			效 率 Efficieey %	功 率 因 数 Power factor COSΦ	恒 转 矩 变 频 范 围 Constant torque Variable frequency range HIZ	恒 功 率 变 频 范 围 Constant power Variable frequency range HZ	堵 转 转 矩		堵 转 电 流		最 大 转 矩 额定转矩 Pull out torque Rated torque	噪 声 Noise	振 动 等 级 Vibration class	转 动 惯 量 Inertia movement	重 量 Weight kg
	功 率 Output kW	电 流 Current (380V)A	转 矩 Torque N.m					额 定 转 矩 Locket torque Rated torque	额 定 电 流 Locket current Rated current							
同 步 转 速 Synchronous speed 3000r/min																
YBBP-80M1-2	0.75	1.8	2.3	77.4	0.83	5~50	50~100	2.2	6.5	2.3	70	1.3	0.0010	34.3		
YBBP-80M2-2	1.1	2.5	3.5	79.6	0.83	5~50	50~100	2.2	6.5	2.3	70	1.3	0.0013	37.3		
YBBP-90S-2	1.5	3.3	4.7	81.3	0.84	5~50	50~100	2.2	8.0	2.3	74	1.3	0.0020	42.6		
YBBP-90L-2	2.2	4.7	7.0	83.2	0.85	5~50	50~100	2.2	8.0	2.3	74	1.3	0.0026	46.7		
YBBP-100L-2	3	6.2	9.5	84.6	0.87	5~50	50~100	2.2	8.0	2.3	78	1.3	0.0042	57		
YBBP-112M-2	4	8.0	12.7	85.8	0.88	5~50	50~100	2.2	8.0	2.3	82	1.3	0.0058	73.5		
YBBP-132S1-2	5.5	10.9	17.5	87.0	0.88	5~50	50~100	2.2	8.0	2.3	85	1.3	0.0128	91		
YBBP-132S2-2	7.5	14.5	23.8	88.1	0.89	5~50	50~100	2.2	8.0	2.3	85	1.3	0.0151	96		
YBBP-160M1-2	11	21.0	35.0	89.4	0.89	5~50	50~80	2.2	8.0	2.4	87	1.8	0.0489	159.5		
YBBP-160M2-2	15	28.4	47.7	90.3	0.89	5~50	50~80	2.2	8.0	2.4	87	1.8	0.0559	169.5		
YBBP-160L-2	18.5	34.7	58.8	90.9	0.89	5~50	50~80	2.2	8.0	2.4	87	1.8	0.0648	182.5		
YBBP-180M-2	22	41.0	70.0	91.3	0.89	5~50	50~80	2.0	8.0	2.3	90	1.8	0.0808	246		
YBBP-200L1-2	30	55.7	95.4	92.0	0.89	5~50	50~80	2.0	8.0	2.3	92	1.8	0.163	204.5		
YBBP-200L2-2	37	68.3	117.7	92.5	0.89	5~50	50~80	2.0	8.0	2.3	92	1.8	0.172	322.5		
YBBP-225M-2	45	82.7	143.2	92.9	0.89	5~50	50~80	2.0	8.0	2.3	94	1.8	0.302	368		
YBBP-250M-2	55	100.7	175.0	93.2	0.89	5~50	50~60	2.0	8.0	2.3	96	1.8	0.420	530.5		
YBBP-280S-2	75	136.5	238.7	93.8	0.89	5~50	50~60	2.0	8.0	2.3	98	1.8	0.986	671		
YBBP-280M-2	90	163.3	286.4	94.1	0.89	5~50	50~60	2.0	8.0	2.3	98	1.8	1.04	727		
YBBP-315S-2	110	196.6	350.1	94.3	0.90	5~50	50~60	1.8	8.0	2.2	100	2.3	1.33	1110		
YBBP-315M-2	132	235.6	420.1	94.6	0.90	5~50	50~60	1.8	8.0	2.2	100	2.3	1.50	1217		
YBBP-315L1-2	160	281.8	509.2	94.8	0.91	5~50	50~60	1.8	8.0	2.2	100	2.3	1.67	1315		
YBBP-315L2-2	200	351.5	636.6	95.0	0.91	5~50	50~60	1.8	8.0	2.2	100	2.3	1.88	1475		
YBBP-355S1-2	(185)	323	588.9	95.0	0.91	5~50	50~60	1.8	8.0	2.2	103	2.3	2.88	1726		
YBBP-355S2-2	(200)	345.8	636.6	95.0	0.91	5~50	50~60	1.8	8.0	2.2	103	2.3	3.05	1786		
YBBP-355M1-2	(220)	380.4	700.3	95.0	0.91	5~50	50~60	1.6	8.0	2.2	103	2.3	3.67	1836		
YBBP-355M2-2	250	439.4	795.7	95.0	0.91	5~50	50~60	1.6	8.0	2.2	103	2.3	4.02	1886		
YBBP-355L1-2	(280)	482	891.2	95.0	0.91	5~50	50~60	1.6	8.0	2.2	103	2.3	4.16	2086		
YBBP-355L2-2	315	553.6	1002.6	95.0	0.91	5~50	50~60	1.6	8.0	2.2	103	2.3	4.86	2106		

注：1、重量为理论估算值。(参考)The weight is theoretic calculation (for reference).
2、额定电压和额定频率是指电动机输出恒转矩和恒功率特性间的与转折点相对应的电动机工作电压及频率。
The rated voltage and rated frequency are the motor operating voltage and frequency of the motor output constant torque and constant power characteristics.

续表 2 Table 2 (continued)

型 号 Type	额 定 Rated			效 率 Efficieey %	功 率 因 数 Power factor COSΦ	恒 转 矩 变 频 范 围 Constant torque Variable frequency range HZ	恒 功 率 变 频 范 围 Constant power Variable frequency range HZ	堵 转 转 矩		堵 转 电 流		噪 声 Noise	振 动 等 级 Vibration class	转 动 惯 量 Inertia movement	重 量 Weight kg	
	功 率 Output kW	电 流 Current (380V)A	转 矩 Torque N.m					额 定 转 矩		额 定 电 流						
								Locket torque	Rated torque	Locket current	Rated current					
同 步 转 速 Synchronous speed 1500r/min																
YBBP-80M1-4	0.55	1.38	3.5	79.0	0.75	5~50	50~100	2.4	5.5	2.3	62	1.3	0.0016	35.3		
YBBP-80M2-4	0.75	1.9	4.7	79.6	0.75	5~50	50~100	2.4	5.5	2.3	62	1.3	0.0020	36.3		
YBBP-90S-4	1.1	2.7	7.0	81.4	0.75	5~50	50~100	2.3	6.5	2.3	64	1.3	0.0030	43.7		
YBBP-90L-4	1.5	3.7	9.5	82.8	0.75	5~50	50~100	2.3	6.5	2.3	64	1.3	0.0038	46.7		
YBBP-100L1-4	2.2	4.9	14.0	84.3	0.81	5~50	50~100	2.3	6.5	2.4	68	1.3	0.0077	58		
YBBP-100L2-4	3	6.5	19.0	85.5	0.82	5~50	50~100	2.3	6.5	2.4	68	1.3	0.0093	63		
YBBP-112M-4	4	8.6	25.4	86.6	0.82	5~50	50~100	2.3	6.5	2.4	72	1.3	0.0128	79.5		
YBBP-132S-4	5.5	11.6	35.0	87.7	0.82	5~50	50~100	2.3	7.5	2.4	76	1.3	0.0285	98		
YBBP-132M-4	7.5	15.5	47.7	88.7	0.83	5~50	50~100	2.3	7.5	2.4	76	1.3	0.0366	111		
YBBP-160M-4	11	21.9	70.0	89.8	0.85	5~50	50~100	2.2	7.5	2.4	79	1.8	0.0771	156.5		
YBBP-160L-4	15	29.3	95.4	90.6	0.86	5~50	50~100	2.2	7.5	2.4	79	1.8	0.101	176.5		
YBBP-180M-4	18.5	35.8	117.7	91.2	0.86	5~50	50~100	2.2	7.5	2.3	83	1.8	0.152	231		
YBBP-180L-4	22	42.3	140.0	91.6	0.86	5~50	50~100	2.2	7.5	2.3	83	1.8	0.187	303		
YBBP-200L-4	30	57.4	190.9	92.3	0.86	5~50	50~100	2.2	7.5	2.4	85	1.8	0.285	375.5		
YBBP-225S-4	37	70.5	235.5	92.7	0.86	5~50	50~100	2.2	7.5	2.4	88	1.8	0.473	422		
YBBP-225M-4	45	85.4	286.4	93.1	0.86	5~50	50~100	2.2	7.5	2.4	88	1.8	0.554	520		
YBBP-250M-4	55	103.9	350.1	93.5	0.86	5~50	50~100	2.2	7.5	2.4	92	1.8	0.751	683.5		
YBBP-280S-4	75	137.8	477.7	94.0	0.88	5~50	50~100	2.2	7.5	2.4	94	1.8	1.92	751		
YBBP-280M-4	90	165.0	572.9	94.2	0.88	5~50	50~100	2.2	7.5	2.4	94	1.8	2.32	783		
YBBP-315S-4	110	201.0	700.2	94.5	0.88	5~50	50~100	2.1	7.5	2.2	96	2.3	2.34	1126		
YBBP-315M-4	132	240.7	840.3	94.7	0.88	5~50	50~100	2.1	7.5	2.2	96	2.3	2.58	1181		
YBBP-315L1-4	160	287.8	1018.5	94.9	0.89	5~50	50~100	2.1	7.5	2.2	96	2.3	2.96	1302		
YBBP-315L2-4	200	359.0	1273.2	95.1	0.89	5~50	50~60	2.1	7.5	2.2	96	2.3	3.46	1472		
YBBP-355S1-4	(185)	330.7	1177.7	95.1	0.90	5~50	50~100	2.1	7.5	2.2	98	2.3	6.02	1746		
YBBP-355S2-4	(200)	357.5	1273.2	95.1	0.90	5~50	50~60	2.1	7.5	2.2	98	2.3	6.30	1806		
YBBP-355M1-4	(220)	388.8	1400.5	95.1	0.90	5~50	50~60	2.1	7.5	2.2	98	2.3	6.42	1846		
YBBP-355M2-4	250	443.8	1591.5	95.1	0.90	5~50	50~60	2.1	7.5	2.2	98	2.3	6.60	1929		
YBBP-355L1-4	(280)	492.8	1782.5	95.1	0.90	5~50	50~60	2.1	7.5	2.2	98	2.3	6.77	2096		
YBBP-355L2-4	315	559.2	2005.2	95.1	0.90	5~50	50~60	2.1	7.5	2.2	98	2.3	7.55	2126		

注：1、重量为理论估算值。(参考)The weight is theoretic calculation (for reference).
2、额定电压和额定频率是指电动机输出恒转矩和恒功率特性间的与转折点相对应的电动机工作电压及频率。
The rated voltage and rated frequency are the motor operating voltage and frequency of the motor output constant torque and constant power characteristics.

江苏大中电机股份有限公司
JIANGSU DAZHONG ELECTRIC MOTOR CO.,LTD.
YBBP系列隔爆型变频调速三相异步电动机



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续表 2 Table 2 (continued)

型 号 Type	额 定			效 率 Efficieey %	功 率 因 数 Power factor COSΦ	恒 转 矩 变 频 范 围 Constant torque Variable frequency range HZ	恒 功 率 变 频 范 围 Constant power Variable frequency range HZ	堵 转 转 距		堵 转 电 流		最 大 转 矩 额定转矩 Pull out torque Rated torque	噪 声 Noise	振 动 等 级 Vibration class	转 动 惯 量 Inertia movement	重 量 Weight kg
	功 率 Output kW	电 流 Current (380V)/A	转 矩 Torque N.m					额定转矩 Locket torque Rated torque	额定电流 Locket current Rated current							
同 步 转 速 Synchronous speed 1000r/min																
YBBP-80M1-6	0.37	1.27	3.5	62.6	0.70	5~50	50~100	1.9	4.5	2.0	61	1.3	0.0023			33.9
YBBP-80M2-6	0.55	1.54	5.2	75	0.72	5~50	50~100	2.1	4.5	2.1	61	1.3	0.0030			36.3
YBBP-90S-6	0.75	2.1	7.1	75.9	0.72	5~50	50~100	2.1	4.5	2.1	63	1.3	0.0038			41.7
YBBP-90L-6	1.1	2.9	10.5	78.1	0.73	5~50	50~100	2.1	5.5	2.1	63	1.3	0.0053			46.7
YBBP-100L-6	1.5	3.9	14.3	79.8	0.74	5~50	50~100	2.1	5.5	2.1	66	1.3	0.0107			55
YBBP-112M-6	2.2	5.5	21.0	81.8	0.74	5~50	50~100	2.1	5.5	2.1	71	1.3	0.0151			69.5
YBBP-132S-6	3	7.4	28.6	83.3	0.74	5~50	50~100	2.1	6.5	2.4	75	1.3	0.0318			96
YBBP-132M1-6	4	9.7	38.1	84.6	0.74	5~50	50~100	2.1	6.5	2.4	75	1.3	0.0394			105
YBBP-132M2-6	5.5	13.0	52.5	86.0	0.75	5~50	50~100	2.1	7.0	2.4	75	1.3	0.0404			112
YBBP-160M-6	7.5	16.8	71.6	87.2	0.78	5~50	50~100	2.1	7.0	2.4	78	1.8	0.0964			157.5
YBBP-160L-6	11	23.9	105.0	88.7	0.79	5~50	50~100	2.1	7.0	2.4	78	1.8	0.127			185.5
YBBP-180L-6	15	31.4	143.2	89.7	0.81	5~50	50~100	2.1	7.5	2.1	82	1.8	0.201			244
YBBP-200L1-6	18.5	38.4	176.6	90.4	0.81	5~50	50~100	2.1	7.5	2.4	84	1.8	0.325			294.5
YBBP-200L2-6	22	44.8	210.0	90.9	0.82	5~50	50~100	2.1	7.5	2.4	84	1.8	0.371			299.5
YBBP-225M-6	30	61.4	286.4	91.7	0.81	5~50	50~100	2.1	7.5	2.4	86	1.8	0.533			373
YBBP-250M-6	37	72.6	353.3	92.2	0.84	5~50	50~100	2.1	7.5	2.4	90	1.8	0.877			486.5
YBBP-280S-6	45	85.8	429.7	92.7	0.86	5~50	50~100	2.1	7.5	2.4	92	1.8	1.85			621
YBBP-280M-6	55	104.4	525.1	93.1	0.86	5~50	50~100	2.1	7.5	2.2	92	1.8	2.12			687
YBBP-315S-6	75	143.1	716.1	93.7	0.85	5~50	50~100	2.0	7.5	2.0	94	2.3	2.61			1109
YBBP-315M-6	90	173.2	859.4	94.0	0.84	5~50	50~100	2.0	7.5	2.0	94	2.3	3.04			1205
YBBP-315L1-6	110	208.5	1050.3	94.3	0.85	5~50	50~100	2.0	7.5	2.0	94	2.3	3.71			1330
YBBP-315L2-6	132	246.5	1260.4	94.6	0.86	5~50	50~100	2.0	7.5	2.0	94	2.3	4.24			1485
YBBP-355S-6	160	294.8	1527.8	94.8	0.87	5~50	50~100	1.9	7.5	2.0	96	2.3	7.44			1816
YBBP-355M1-6	185	343	1766.6	94.8	0.87	5~50	50~100	1.9	7.5	2.0	96	2.3	7.7			1866
YBBP-355M2-6	200	367.7	1909.8	95.0	0.87	5~50	50~100	1.9	7.5	2.0	96	2.3	9.10			1896
YBBP-355L1-6	220	408	2100.8	95.0	0.87	5~50	50~100	1.9	7.5	2.0	96	2.3	9.8			2116
YBBP-355L2-6	250	459.6	2387.2	95.0	0.87	5~50	50~100	1.9	7.5	2.0	96	2.3	10.80			2176

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The rated voltage and rated frequency are the motor operating voltage and frequency of the motor output constant torque and constant power characteristics.



续表 2 Table 2 (continued)

型 号 Type	额 定			效 率 Efficieey %	功 率 因 数 Power factor COSΦ	恒 转 矩 变 频 范 围 Constant torque Variable frequency range HZ	堵 转 转 距 额 定 转 距 Locket torque Rated torque	堵 转 电 流 额 定 电 流 Locket current Rated current	最 大 转 距 额 定 转 距 Pull out torque Rated torque	噪 声 Noise	振 动 等 级 Vibration class	转 动 惯 量 Inertia movement	重 量 Weight kg	
	功 率 Output kW	电 流 Current (380V)A	转 矩 Torque N.m											
同 步 转 速 Synchronous speed 750r/min														
YBBP-100L2-8	1.1	3.31	14.0	72	0.69	5~50	50~100	1.8	4.5	2.0	66	1.3	0.0102	56
YBBP-112M-8	1.5	4.0	19.1	74	0.70	5~50	50~100	1.8	4.5	2.0	71	1.3	0.0147	72.5
YBBP-132S-8	2.2	5.78	28.0	79	0.71	5~50	50~100	1.8	5.5	2.2	75	1.3	0.0307	92
YBBP-132M-8	3	7.69	38.2	80	0.73	5~50	50~100	1.8	5.5	2.2	75	1.3	0.0426	103
YBBP-160M1-8	4	9.7	50.1	81	0.73	5~50	50~100	1.9	6.5	2.2	78	1.8	0.0635	142.5
YBBP-160M2-8	5.5	13.0	70.0	83	0.74	5~50	50~100	1.9	6.5	2.2	78	1.8	0.0897	154.5
YBBP-160L-8	7.5	16.9	95.5	85.5	0.75	5~50	50~100	1.9	6.5	2.2	78	1.8	0.1270	176.5
YBBP-180L-8	11	24.8	140.1	87.5	0.75	5~50	50~100	1.9	6.5	2.2	82	1.8	0.2138	237
YBBP-200L-8	15	33.6	191.0	88.0	0.76	5~50	50~100	1.9	7.2	2.2	84	1.8	0.3588	294.5
YBBP-225S-8	18.5	40.2	235.0	90.0	0.76	5~50	50~100	1.9	7.2	2.2	86	1.8	0.5488	349
YBBP-225M-8	22	47.0	280.1	90.5	0.78	5~50	50~100	1.9	7.2	2.2	86	1.8	0.6454	380
YBBP-250M-8	30	64.0	382.0	91	0.79	5~50	50~100	1.9	7.2	2.0	90	1.8	0.9876	498.5
YBBP-280S-8	37	78.0	471.1	91.5	0.79	5~50	50~100	1.8	7.2	2.0	92	1.8	1.7092	617
YBBP-280M-8	45	95.0	573.0	92	0.79	5~50	50~100	1.8	7.2	2.0	92	1.8	1.9875	680
YBBP-315S-8	55	110.7	700.3	92.8	0.81	5~50	50~100	1.8	7.2	2.0	94	2.3	3.9597	1007
YBBP-315M-8	75	151	955.0	93.5	0.81	5~50	50~100	1.8	7.2	2.0	94	2.3	5.2790	1115
YBBP-315L1-8	90	179.9	1145.9	93.8	0.82	5~50	50~100	1.8	7.2	2.0	94	2.3	6.2695	1261
YBBP-315L2-8	110	217.2	1400.5	94.0	0.82	5~50	50~100	1.8	7.2	2.0	94	2.3	7.4245	1345
YBBP-355S-8	132	259.6	1680.6	93.7	0.82	5~50	50~100	1.8	7.2	2.0	96	2.3	11.4275	1451
YBBP-355M-8	160	314.7	2037.1	94.2	0.82	5~50	50~100	1.8	7.2	2.0	96	2.3	13.9360	1926
YBBP-355L1-8	185	363.5	2355.4	94.2	0.82	5~50	50~100	1.8	7.2	2.0	96	2.3	16.1657	2024
YBBP-355L2-8	200	387.0	2546.4	94.5	0.83	5~50	50~100	1.2	7.2	2.0	96	2.3	18.1168	2176
YBBP-315S-10	45	99.4	716.2	91.5	0.75	5~50	50~100	1.2	6.5	2.0	96	2.3	3.8772	1007
YBBP-315M-10	55	120.1	875.3	92.0	0.75	5~50	50~100	1.2	6.5	2.0	92	2.3	4.7846	1115
YBBP-315L1-10	75	162	1193.6	92.5	0.76	5~50	50~100	1.2	6.5	2.0	92	2.3	6.1870	1261
YBBP-315L2-10	90	190.5	1432.4	93.0	0.77	5~50	50~100	1.2	6.5	2.0	92	2.3	7.2595	1345
YBBP-355S-10	90	190.3	1432.4	93.0	0.77	5~50	50~100	1.2	6.5	2.0	94	2.3	9.3540	1451
YBBP-355M1-10	110	229.6	1750.6	93.2	0.78	5~50	50~100	1.2	7.0	2.0	94	2.3	11.4481	1926
YBBP-355M2-10	132	274.7	2100.8	93.5	0.78	5~50	50~100	1.2	7.0	2.0	94	2.3	13.9612	2006
YBBP-355L1-10	160	332.9	2546.4	93.5	0.78	5~50	50~100	1.2	7.0	2.0	94	2.3	17.3118	2132
YBBP-355L2-10	185	385	2944.3	93.5	0.78	5~50	50~100	1.2	7.0	2.0	94	2.3	19.9645	2176

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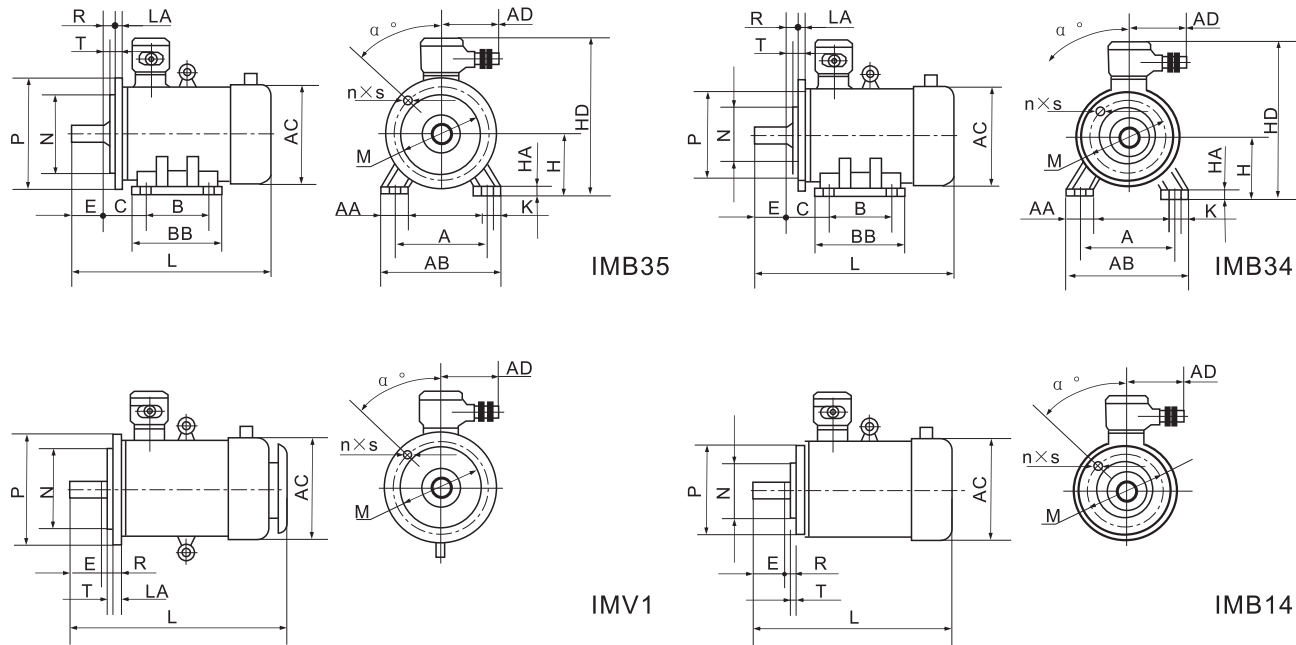
JIANGSU DAZHONG ELECTRIC MOTOR CO.,LTD.

YBBP系列隔爆型变频调速三相异步电动机

江苏大中电机股份有限公司

JIANGSU DAZHONG ELECTRIC MOTOR CO.,LTD.

YBBP系列隔爆型变频调速三相异步电动机



mm																											
Mounting and overall dimensions																											
Flange dimensions								进线口管螺纹 Thread of conduit entry		AA	AB	AC	AD	BB	HA	HD	HE	L _A	L				L				
																			2P IC416		≥4P IC416		2P IC411		≥4P IC411		
M	N	P	R	α°	n×S	T	单口 One entry												双口 Two entries	其它 Other	V _i	其它 Other	V _i	其它 Other	V _i	其它 Other	V _i
100	80	120	0	45	4×M6	3.0	M30×2		34	165	165	180	135	10	340	340	12	458	483	458	483	330	355	330	355		
115	95	140	0	45	4×M8	3.0	M30×2		36	180	180	180	135	14	355	355	14	503	528	503	528	377	402	377	402		
115	95	140	0	45	4×M8	3.0	M30×2		36	180	180	180	160	14	355	355	14	528	553	528	553	402	427	402	427		
130	110	160	0	45	4×M8	3.5	M30×2		43	200	205	180	180	14	360	400	14	586	616	586	616	454	484	454	484		
130	110	160	0	45	4×M8	3.5	M30×2		50	245	225	200	180	16	380	420	14	637	667	637	667	503	533	503	533		
							M30×2		60	280	265	200	190	18	470	490	14	667	707	667	707	519	559	519	559		
							M30×2		60	280	265	200	230	18	470	490	14	707	747	707	747	559	599	559	599		
							M36×2		70	330	320	220	260	20	500	520	15	822	872	822	872	689	739	689	739		
							M36×2		70	330	320	220	310	20	500	520	15	852	902	852	902	719	769	719	769		
							M36×2		70	355	360	220	315	25	540	540	18	947	1007	947	1007	771	831	771	831		
							M36×2		70	355	360	220	355	25	540	540	18	967	1027	967	1027	791	851	791	851		
							M48×2	M48×2	70	390	400	250	370	25	650	650	18	995	1065	995	1065	834	904	834	904		
							M48×2	M48×2	75	435	450	250	360	28	695	695	18		1026	1116			886	976			
							M48×2	M48×2	75	435	450	250	385	28	695	695	18	1026	1116	1056	1146	886	976	916	1006		
							M64×2	M48×2	80	490	500	275	430	30	730	755	20	1133	1238	1133	1238	957	1062	957	1062		
							M64×2	M48×2	85	545	560	275	455	35	800	795	22	1222	1337	1222	1337	1002	1117	1002	1117		
							M64×2	M48×2	85	545	560	275	505	35	800	795	22	1277	1392	1277	1392	1057	1172	1057	1172		
							M85×3	M64×2	120	635	630	350	630	45	960	975	25	1418	1538	1448	1568	1223	1343	1298	1418		
							M85×3	M64×2	120	635	630	350	630	45	960	975	25	1418	1538	1448	1568	1223	1343	1298	1418		
							M85×3	M64×2	120	635	630	350	780	45	960	975	25	1568	1688	1598	1718	1373	1493	1448	1568		
							M85×3	M72×2	150	735	710	350	710	52	1030	1145	25	1652	1792	1682	1822	1461	1601	1501	1641		
							M85×3	M72×2	150	735	710	350	710	52	1030	1145	25	1652	1792	1682	1822	1461	1601	1501	1641		
							M85×3	M72×2	150	735	710	350	810	52	1030	1145	25	1752	1892	1782	1922	1561	1701	1601	1741		

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IEC60034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；

本系列电动机在上述3种基本结构上，可派生12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，进线分为橡胶电缆，钢管布线两种。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。

接线盒进线口及适用范围见表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 60034.

Five basic constructions are available:

B3 --- with foot mounted and flangeless,

B5 --- with flange mounted and footless,

B35 --- with both foot and flange mounted,

Based on three constructions mentioned above,this series motors can be modified into 12 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 . Pls refer to table 5 for junction box inlet and scope of Application.

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

表 7 Table 7

型号 Type	电压 Voltage V	频率 HZ	功率 Output W	电流 Current A	同步转速 Synchronous speed r/min	进线口 螺纹 Thread of thread	型号 Type	电压 Voltage V	频率 HZ	功率 Output W	电流 Current A	同步转速 Synchronous speed r/min	进线口 螺纹 Thread of thread
GB-80A	380	50	40	0.2	3000	M20×1.5	GB-200A	380	50	135	0.51	1500	M20×1.5
GB-90A	380	50	40	0.2	3000	M20×1.5	GB-225A	380	50	180	0.65	1500	M20×1.5
GB-100A	380	50	60	0.25	3000	M20×1.5	GB-250A	380	50	250	0.86	1500	M20×1.5
GB-112A	380	50	60	0.25	3000	M20×1.5	GB-280A	380	50	420	1.2	1500	M20×1.5
GB-132A	380	50	90	0.4	1500	M20×1.5	GB-315A	380	50	750	2.03	1500	M20×1.5
GB-160A	380	50	100	0.41	1500	M20×1.5	GB-355A	380	50	1100	2.9	1500	M20×1.5
GB-180A	380	50	120	0.48	1500	M20×1.5							