

**浙江晋一特种电机有限公司**  
ZHEJIANG JINYI MOTOR CO.,LTD.

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**TBYC 系列三相隔爆型永磁同步电动机**  
TBYC series three-phase flameproof permanent  
magnet synchronous motor

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ZHEJIANG JINYI SPECIAL MOTOR CO., LTD





## 企业简介 >>>

浙江晋一特种电机有限公司是一家专业生产稀土永磁同步电动机及其驱动装置的高科技型企业，主要进行中高端电机产品的研发、制造和销售，是国家节能惠民工程入围企业（享受中央财政补贴、地方财政补贴）。公司旗下已拥有不同系列的三相永磁电动机，其中有稀土永磁同步电动机、伺服永磁同步电动机、水冷永磁同步电动机、低速直驱永磁同步电动机、高速永磁同步电动机、隔爆型永磁同步电动机等产品，居国内同行前列。公司与国内知名机械制造企业合作建立永磁同步电动机试验中心，致力于打造行业匹配的永磁同步电动机，达到节能减排的效果。

公司始终遵循“以质量求生存，以创新谋发展，客户至上”的企业精神与工作理念，追求以“高要求，高质量，高效率”为目标，竭诚为客户提供优质的产品和完善的售后服务。

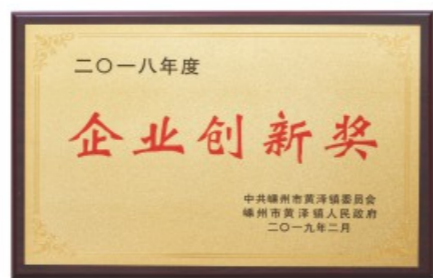
## Company Profile

Zhejiang jinyi special motor co., LTD. is a high-tech enterprise specializing in the production of rare earth permanent magnet synchronous motor and its driving device, mainly engaged in the r&d, manufacturing and sales of high-end motor products. The company has a series of three-phase permanent magnet motors with different specifications, mainly including rare earth permanent magnet synchronous motors, servo permanent magnet synchronous motors, water-cooled permanent magnet synchronous motors, low-speed direct drive permanent magnet synchronous motors, high-speed permanent magnet synchronous motors, flameproof permanent magnet synchronous motors and other products, ranking top in the domestic industry. The company cooperates with domestic well-known machinery manufacturing enterprises to establish permanent magnet synchronous motor test center, and is committed to creating industry-matched permanent magnet synchronous motor, so as to achieve the effect of energy conservation and emission reduction. The company always adhere to the "strives for the survival by the quality, seek development by innovation, customer first" spirit of enterprise and work ethic, pursuing the "high request, high quality, high efficiency" goal, wholeheartedly for the customer to provide quality products and perfect after-sales service.





# 企业荣誉



用心服务 注重创新



## ● 产品概述

三相隔爆型永磁同步电动机是我司在永磁同步电动机的基础上新开发设计的隔爆永磁同步电机，不仅高效节能，而且结构简单、运行可靠，可完全替代YB2、YB3等隔爆型异步电动机，防爆标志为Exd II BT4Gb，可适用于石油、化工、粮油、造纸、医药、纺织等易燃易爆的场合。

该产品获得国家防爆电气产品质量监督检验中心颁发的防爆合格证和国家质量技术监督局颁发的生产许可证。

## ● Product Overview

Three flameproof type permanent magnet synchronous motor is apart house in permanent magnet synchronous motor based on the new development and design of permanent magnet synchronous motor, not only high efficiency and energy saving, and simple structure, reliable operation, can completely replace YB2, YB3 flameproof asynchronous motor, explosion-proof marks for Exd II BT4Gb, can be used in petroleum, chemical industry, grain and oil, paper making, medicine, textile and other inflammable and explosive occasions.

The product has obtained the explosion-proof certificate issued by the national quality supervision and inspection center for explosion-proof electrical products and the production license issued by the state bureau of quality and technical supervision.

## ● 使用条件

环境温度：-15℃~40℃  
海拔：不超过1000米  
额定电压：380V、660V、其它电压可选  
额定频率：50Hz、60Hz、其它频率可选  
工作制：连续工作制（S1）  
防护等级：IP55  
绝缘等级：F  
冷却方式：IC411/IC416  
接法：Y

## ● Operating Conditions

Ambient Temperature:-15℃~40℃  
Rated Voltage:380V、660V、or other rated voltage  
Rated Frequency:50Hz、60Hz、or other rated frequency  
Working Duty:Continuous (S1)  
Ingress Protection:IP55  
Insulation:F  
Cooling Method:IC411/IC416  
Connection: Y

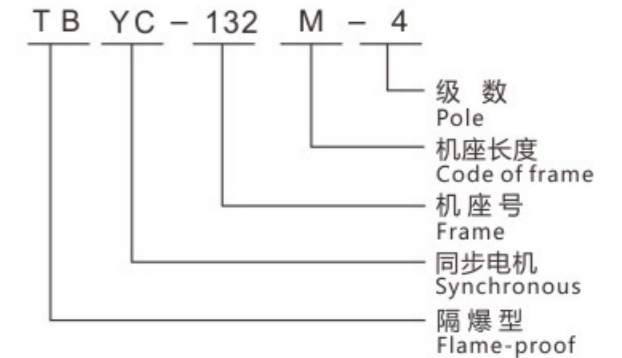
## ● 性能特点

- 1、效率高，额定效率达到国家1级能效标准；
- 2、功率因数高，无需无功补偿；
- 3、同步性好，无转差，不掉速，转速恒定；
- 4、噪声低，振动小，运行更加稳定可靠；
- 5、温升低，比异步隔爆电机温升可降低10-20K左右；
- 6、节能省电，综合节电率可达8-20%，视负载情况而定；
- 6、控制性能优良，动态响应快，转速控制精准。

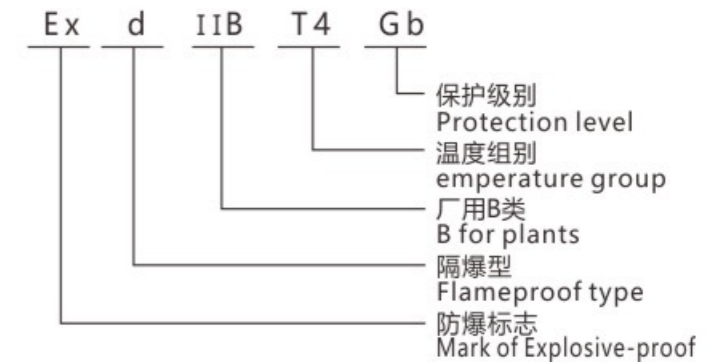
## ● Performance Characteristics

- 1.High efficiency, the rated efficiency reaches the national level 1 energy efficiency standard;
- 2.High power factor, no need for reactive power compensation;
- 3.Good synchronization, no slip, no drop speed, constant rotation speed
- 4.Low noise, small vibration, more stable and reliable operation;
- 5.Lower temperature rise, about 10-20k lower than that of asynchronous flameproof motor;
- 6.Energy saving, comprehensive power saving rate up to 8-20%, depending on the load;
- 7.Excellent control performance, fast dynamic response, accurate speed control.

## ● 型号说明 Model Description



## ● 标志说明 Marks description







## ● 技术数据 Technical Data

电机型号 Motor Model	额定功率kW Rated Output	额定电流A Rated Current	额定转矩N.m Rated Torque	效率 (%) Efficiency	功率因数 Power factor	额定转速 r/min	额定频率Hz Rated Frequency
TBYC-801-2	0.75	1.3	2.4	84.9	0.95	3000	100
TBYC-802-2	1.1	1.9	3.5	86.7	0.95	3000	100
TBYC-90S-2	1.5	2.4	4.7	87.5	0.95	3000	100
TBYC-90L-2	2.2	3.8	7.0	89.1	0.95	3000	100
TBYC-100L-2	3	5.1	9.5	89.7	0.95	3000	100
TBYC-112M-2	4	6.6	12.7	90.3	0.95	3000	100
TBYC-132S1-2	5.5	9.2	17.5	91.5	0.95	3000	100
TBYC-132S2-2	7.5	10.9	23.8	92.1	0.95	3000	100
TBYC-160M1-2	11	19.5	35	93.0	0.95	3000	150
TBYC-160M2-2	15	26.7	47.7	93.4	0.95	3000	150
TBYC-160L-2	18.5	32	58.9	93.8	0.95	3000	200
TBYC-180M-2	22	37.4	70	94.4	0.95	3000	200
TBYC-200L1-2	30	51	95.5	94.5	0.95	3000	200
TBYC-200L2-2	37	61.3	117.8	94.8	0.95	3000	200
TBYC-225M-2	45	75	143.3	95.1	0.95	3000	200
TBYC-250M-2	55	95	175	95.4	0.95	3000	100
TBYC-280S-2	75	125	238.7	95.6	0.95	3000	100
TBYC-280M-2	90	151	286.5	95.8	0.95	3000	100
TBYC-315S-2	110	179	350	96	0.95	3000	200
TBYC-315M-2	132	206	420	96	0.95	3000	200
TBYC-315L1-2	160	262	509	96.2	0.95	3000	200
TBYC-315L2-2	200	330	636.7	96.3	0.95	3000	150
TBYC-801-4	0.55	0.96	3.5	84.5	0.95	1500	50
TBYC-802-4	0.75	1.3	4.7	85.6	0.95	1500	50
TBYC-90S-4	1.1	1.9	7	87.4	0.95	1500	50
TBYC-90L-4	1.5	2.6	9.5	88.1	0.95	1500	50
TBYC-100L1-4	2.2	3.7	14	89.7	0.95	1500	50
TBYC-100L2-4	3	5.1	19.1	90.3	0.95	1500	50
TBYC-112M-4	4	6.6	25.4	90.9	0.95	1500	50
TBYC-132S-4	5.5	9	35	92.1	0.95	1500	50
TBYC-132M-4	7.5	12.2	47.7	92.6	0.95	1500	50
TBYC-160M-4	11	18.6	70	93.6	0.95	1500	50
TBYC-160L-4	15	23.9	95.5	94.0	0.95	1500	50
TBYC-180M-4	18.5	32	117.7	94.3	0.95	1500	100
TBYC-180L-4	22	37	140	94.7	0.95	1500	100
TBYC-200L-4	30	50	191	95	0.95	1500	100
TBYC-225S-4	37	65	235.6	95.3	0.95	1500	100
TBYC-225M-4	45	71	286.5	95.6	0.95	1500	100
TBYC-250M-4	55	85.4	350	95.8	0.95	1500	100
TBYC-280S-4	75	117	477.5	96.0	0.95	1500	100
TBYC-280M-4	90	152	573	96.2	0.95	1500	100
TBYC-315S-4	110	183	700	96.4	0.95	1500	100
TBYC-315M-4	132	209	840.4	96.5	0.95	1500	100
TBYC-315L1-4	160	260	1018.6	96.5	0.95	1500	100
TBYC-315L2-4	200	352	1273.3	96.6	0.95	1500	100



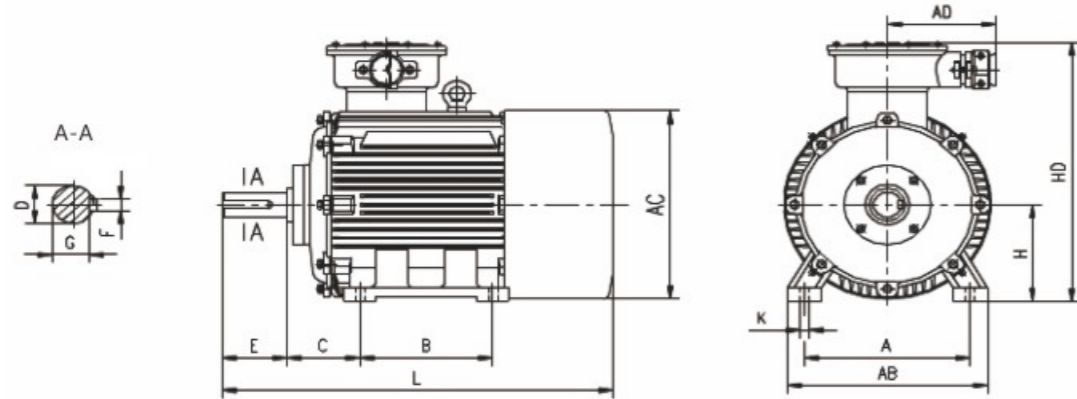
电机型号 Motor Model	额定功率kW Rated Output	额定电流A Rated Current	额定转矩N.m Rated Torque	效率 (%) Efficiency	功率因数 Power factor	额定转速 r/min	额定频率Hz Rated Frequency
TBYC-802-6	0.55	1.0	5.2	82.4	0.95	1000	33.3
TBYC-90S-6	0.75	1.3	7.2	86.8	0.95	1000	33.3
TBYC-90L-6	1.1	1.9	10.5	88.2	0.95	1000	33.3
TBYC-100L-6	1.5	2.7	14.3	89.4	0.95	1000	33.3
TBYC-112M-6	2.2	3.9	21	90.5	0.95	1000	66.7
TBYC-132S-6	3	5	28.6	91.5	0.95	1000	50
TBYC-132M1-6	4	6.6	38.2	92.4	0.95	1000	50
TBYC-132M2-6	5.5	9.5	52.5	93.1	0.95	1000	50
TBYC-160M-6	7.5	12.5	71.6	93.7	0.95	1000	50
TBYC-160L-6	11	18.5	105	94.3	0.95	1000	66.7
TBYC-180L-6	15	25	143.3	94.7	0.95	1000	66.7
TBYC-200L1-6	18.5	32	176.7	95.1	0.95	1000	66.7
TBYC-200L2-6	22	36.5	210	95.4	0.95	1000	66.7
TBYC-225M-6	30	49	286.5	95.7	0.95	1000	66.7
TBYC-250M-6	37	61	353.3	95.9	0.95	1000	66.7
TBYC-280S-6	45	71	430	96.0	0.95	1000	66.7
TBYC-280M-6	55	86	525.3	96.1	0.95	1000	66.7
TBYC-315S-6	75	123	716.3	96.2	0.95	1000	66.7
TBYC-315M-6	90	141	860	96.2	0.95	1000	66.7
TBYC-315L1-6	110	174	1050.5	96.3	0.95	1000	66.7
TBYC-315L2-6	132	210	1260.6	96.3	0.95	1000	66.7
TBYC-315L3-6	160	248	1528	96.3	0.95	1000	66.7
TBYC-315L4-6	200	320	1910	96.4	0.95	1000	66.7
TBYC-112M-8	1.5	2.8	19.1	90	0.95	750	50
TBYC-132S-8	2.2	3.8	28	90	0.95	750	37.5
TBYC-132M-8	3	5.2	38.2	91.0	0.95	750	37.5
TBYC-160M1-8	4	7.2	51	91.8	0.95	750	50
TBYC-160M2-8	5.5	9.9	70	92.6	0.95	750	50
TBYC-160L-8	7.5	13.4	95.5	93.2	0.95	750	50
TBYC-180L-8	11	19.5	140	93.7	0.95	750	50
TBYC-200L-8	15	26.6	191	94.2	0.95	750	50
TBYC-225S-8	18.5	32.7	235.6	94.6	0.95	750	50
TBYC-225M-8	22	38.3	280	94.9	0.95	750	50
TBYC-250M-8	30	52.7	382	95.1	0.95	750	50
TBYC-280S-8	37	65	471	95.3	0.95	750	50
TBYC-280M-8	45	75.8	573	95.6	0.95	750	50
TBYC-315S-8	55	96.2	700	95.6	0.95	750	50
TBYC-315M-8	75	122	955	95.7	0.95	750	50
TBYC-315L1-8	90	157	1146	95.7	0.95	750	50
TBYC-315L2-8	110	185.7	1400	95.7	0.95	750	50
TBYC-315L3-8	132	200	1680.8	95.8	0.95	750	50
TBYC-315L4-8	160	270	2037	95.8	0.95	750	50





● 安装及外形尺寸 Dimensions

IMB3 (机座带底脚, 端盖无上凸缘)

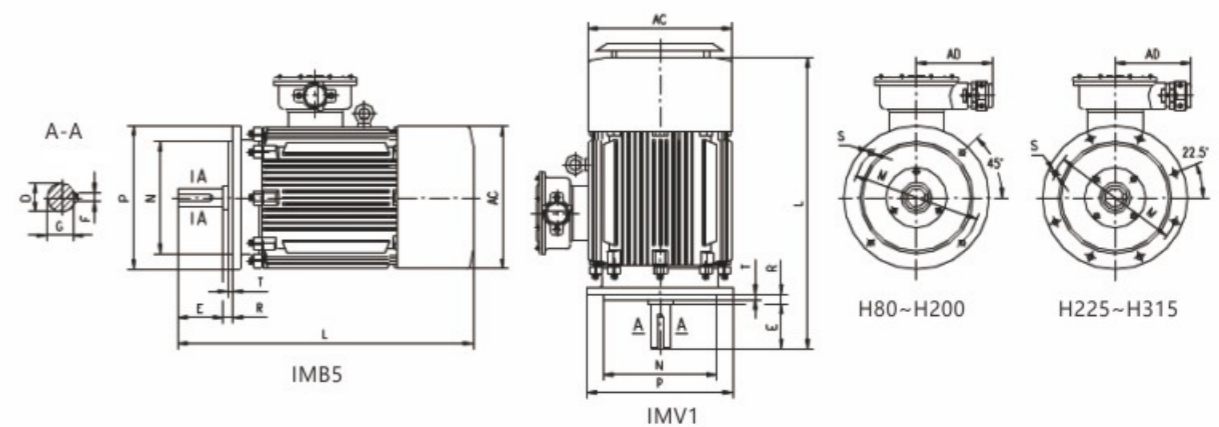


机座号 Frame	极数 Pole	安装尺寸 Mounting Dimension									外形尺寸 Overall Dimension				
		A	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L
80M	2.4.6.8	125	100	50	19	40	6	15.5	80	10	165	165	180	320	330
90S	2.4.6.8	140	100	56	24	50	8	20	90	10	180	180	180	350	360
90L	2.4.6.8	140	125	56	24	50	8	20	90	10	180	180	180	350	385
100L	2.4.6.8	160	140	63	28	60	8	24	100	12	200	205	180	400	440
112M	2.4.6.8	190	140	70	28	60	8	24	112	12	245	230	200	420	460
132S	2.4.6.8	216	140	89	38	80	10	33	132	12	280	270	200	450	510
132M	2.4.6.8	216	178	89	38	80	10	33	132	12	280	270	200	450	550
160M	2.4.6.8	254	210	108	42	110	12	37	160	15	330	325	220	520	670
160L	2.4.6.8	254	254	108	42	110	12	37	160	15	330	325	220	520	710
180M	2.4.6.8	279	241	121	48	110	14	42.5	180	15	355	360	220	550	730
180L	2.4.6.8	279	279	121	48	110	14	42.5	180	15	355	360	220	550	750
200L	2.4.6.8	318	305	133	55	110	16	49	200	19	390	400	250	645	805
225S	4.8	356	286	149	60	140	18	53	225	19	435	450	250	690	865
225M	2	356	311	149	55	110	16	49	225	19	435	450	250	690	860
225M	4.6.8	356	311	149	60	140	18	53	225	19	435	450	250	690	890
250M	2	406	349	168	60	140	18	53	250	24	490	500	300	730	945
250M	4.6.8	406	349	168	65	140	18	58	250	24	490	500	300	730	945
280S	2	457	368	190	65	140	18	58	280	24	545	560	300	810	1010
280S	4.6.8	457	368	190	75	140	20	67.5	280	24	545	560	300	810	1010
280M	2	457	419	190	65	140	18	58	280	24	545	560	300	810	1060
280M	4.6.8	457	419	190	75	140	20	67.5	280	24	545	560	300	810	1060
315S	2	508	406	216	65	140	18	58	315	28	640	630	400	1020	1320
315S	4.6.8	508	406	216	80	170	22	71	315	28	640	630	400	1020	1350
315M	2	508	457	216	65	140	18	58	315	28	640	630	400	1020	1350
315M	4.6.8	508	457	216	80	170	22	71	315	28	640	630	400	1020	1380
315L	2	508	508	216	65	140	18	58	315	28	640	630	400	1020	1490
315L	4.6.8	508	508	216	80	170	22	71	315	28	640	630	400	1020	1520



● 安装及外形尺寸 Dimensions

IMB5 V1 (机座不带底脚, 端盖上有凸缘)



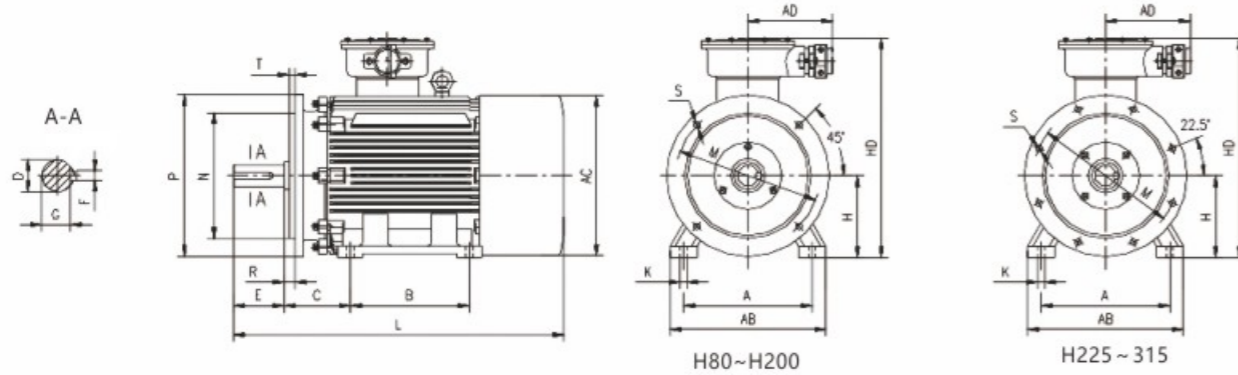
机座号 Frame	极数 Pole	安装尺寸 Mounting Dimension											外形尺寸 Overall Dimension			
		D	E	F	G	M	N	P	R	S	T	凸缘孔数	AC	AD	L	
80M	2.4.6.8	19	40	6	15.5	165	130	200	0	12	3.5	4	165	240	330	
90S	2.4.6.8	24	50	8	20	165	130	200	0	12	3.5	4	180	260	360	
90L	2.4.6.8	24	50	8	20	165	130	200	0	12	3.5	4	180	260	385	
100L	2.4.6.8	28	60	8	24	215	180	250	0	15	4	4	205	300	440	
112M	2.4.6.8	28	60	8	24	215	180	250	0	15	4	4	230	310	460	
132S	2.4.6.8	38	80	10	33	265	230	300	0	15	4	4	270	320	510	
132M	2.4.6.8	38	80	10	33	265	230	300	0	15	4	4	270	320	550	
160M	2.4.6.8	42	110	12	37	300	250	350	0	19	5	4	325	360	670	
160L	2.4.6.8	42	110	12	37	300	250	350	0	19	5	4	325	360	710	
180M	2.4.6.8	48	110	14	42.5	300	250	350	0	19	5	4	360	370	730	
180L	2.4.6.8	48	110	14	42.5	300	250	350	0	19	5	4	360	370	750	
200L	2.4.6.8	55	110	16	49	350	300	400	0	19	5	4	400	445	805	
225S	4.8	60	140	18	53	400	350	450	0	19	5	8	450	465	865	
225M	2	55	110	16	49	400	350	450	0	19	5	8	450	465	860	
225M	4.6.8	60	140	18	53	400	350	450	0	19	5	8	450	465	890	
250M	2	60	140	18	53	500	450	550	0	19	5	8	500	500	945	
250M	4.6.8	65	140	18	58	500	450	550	0	19	5	8	500	500	945	
280S	2	65	140	18	58	500	450	550	0	19	5	8	560	550	1010	
280S	4.6.8	75	140	20	67.5	500	450	550	0	19	5	8	560	550	1010	
280M	2	65	140	18	58	500	450	550	0	19	5	8	560	550	1060	
280M	4.6.8	75	140	20	67.5	500	450	550	0	19	5	8	560	550	1060	
315S	2	65	140	18	58	600	550	660	0	24	6	8	630	705	1340	
315S	4.6.8	80	170	22	71	600	550	660	0	24	6	8	630	705	1370	
315M	2	65	140	18	58	600	550	660	0	24	6	8	630	705	1420	
315M	4.6.8	80	170	22	71	600	550	660	0	24	6	8	630	705	1450	
315L	2	65	140	18	58	600	550	660	0	24	6	8	630	705	1510	
315L	4.6.8	80	170	22	71	600	550	660	0	24	6	8	630	705	1540	





● 安装及外形尺寸 Dimensions

IMB35 (机座带底脚、端盖上有凸缘)



机座号 Frame	极数 Pole	安装尺寸 Mounting Dimension															外形尺寸 Overall Dimension					
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	凸缘孔数	AB	AC	AD	HD	L
80M	2.4.6.8	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	4	165	165	180	320	330
90S	2.4.6.8	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	4	180	180	180	350	360
90L	2.4.6.8	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	4	180	180	180	350	385
100L	2.4.6.8	160	140	63	28	60	8	24	100	12	215	180	250	0	15	4	4	200	205	180	400	440
112M	2.4.6.8	190	140	70	28	60	8	24	112	12	215	180	250	0	15	4	4	245	230	200	420	460
132S	2.4.6.8	216	140	89	38	80	10	33	132	12	265	230	300	0	15	4	4	280	270	200	450	510
132M	2.4.6.8	216	178	89	38	80	10	33	132	12	265	230	300	0	15	4	4	280	270	200	450	550
160M	2.4.6.8	254	210	108	42	110	12	37	160	15	300	250	350	0	19	5	4	330	325	220	520	670
160L	2.4.6.8	254	254	108	42	110	12	37	160	15	300	250	350	0	19	5	4	330	325	220	520	710
180M	2.4.6.8	279	241	121	48	110	14	42.5	180	15	300	250	350	0	19	5	4	355	360	220	550	730
180L	2.4.6.8	279	279	121	48	110	14	42.5	180	15	300	250	350	0	19	5	4	355	360	220	550	750
200L	2.4.6.8	318	305	133	55	110	16	49	200	19	350	300	400	0	19	5	4	390	400	250	645	805
225S	4.8	356	286	149	60	140	18	53	225	19	400	350	450	0	19	5	8	435	450	250	690	865
225M	2	356	311	149	55	110	16	49	225	19	400	350	450	0	19	5	8	435	450	250	690	860
225M	4.6.8	356	311	149	60	140	18	53	225	19	400	350	450	0	19	5	8	435	450	250	690	890
250M	2	406	349	168	60	140	18	53	250	24	500	450	550	0	19	5	8	490	500	300	730	945
250M	4.6.8	406	349	168	65	140	18	58	250	24	500	450	550	0	19	5	8	490	500	300	730	945
280S	2	457	368	190	65	140	18	58	280	24	500	450	550	0	19	5	8	545	560	300	810	1010
280S	4.6.8	457	368	190	75	140	20	67.5	280	24	500	450	550	0	19	5	8	545	560	300	810	1010
280M	2	457	419	190	65	140	18	58	280	24	500	450	550	0	19	5	8	545	560	300	810	1060
280M	4.6.8	457	419	190	75	140	20	67.5	280	24	500	450	550	0	19	5	8	545	560	300	810	1060
315S	2	508	406	216	65	140	18	58	315	28	600	550	660	0	24	6	8	640	630	400	1020	1340
315S	4.6.8	508	406	216	80	170	22	71	315	28	600	550	660	0	24	6	8	640	630	400	1020	1370
315M	2	508	457	216	65	140	18	58	315	28	600	550	660	0	24	6	8	640	630	400	1020	1420
315M	4.6.8	508	457	216	80	170	22	71	315	28	600	550	660	0	24	6	8	640	630	400	1020	1450
315L	2	508	508	216	65	140	18	58	315	28	600	550	660	0	24	6	8	640	630	400	1020	1510
315L	4.6.8	508	508	216	80	170	22	71	315	28	600	550	660	0	24	6	8	640	630	400	1020	1540



● 订货须知 Ordering Instructing

- 1、订货时须说明产品型号、额定功率、额定电压、额定转速、调速范围（恒转矩），接线盒位置、安装型式等。
- 2、如有特殊要求，经双方协商后，可提供其它极数、其它结构及安装型式的电动机，也可配各种编码器、温度传感器等。
- 3、样本仅供用户选型参考，公司保留具体数据变更和修改的权利，恕不另行通知，订货前请确认。

- 1.The order must specify the product model, rated power, rated voltage, rated speed, speed range (constant torque), junction box location and installation type, etc.
- 2.If you have special requirements, after both sides talks things over, can provide the number of other, other structure and installation of motor, also can match various encoder, temperature sensor, etc.
- 3.Selection of reference sample is only for customers, the company reserves the right to specific data changes and modification, without prior notice, please confirm before order.

