

北京中源电机制造有限公司

产品目录 IV: YE4 电机 & 永磁电机 & 伺服 & 变频器

PRODUCT CATALOG IV : IE4 motor & PMSM & SERVO & INVERTER



0.1-500kW



企业简介 Company Introduction

我公司，始建于1991年，是原国家机械部定点生产中小型电机的专业骨干厂家。

历经近50年的发展，中源电机已经成为中小型电机行业中最具产业规模、产品系列最为全面、服务网络最为完善的大型制造企业。公司现占地面积614亩，拥有各种加工检测设备千余台套及14条装配生产线，连续保持年销售约15亿元，产量约1000万kW的领先业绩，并位列中国机械工业500强。

公司拥有电机工程技术研究中心，并荣获国家火炬计划重点高新技术企业的称号。多年来一直追踪国内外最高端的技术和制造工艺，专注于高品质工业电动机及衍生产品的研发和生产，依托遍布全国的销售服务网络，致力于为客户提供最高品质的产品，最全面快捷的服务和最优质的驱动技术解决方案。

BJZHongyuan Motor Co., Ltd., which was founded in 1991, is appointed by the former National Machinery Ministry as chief factory for small and medium-sized motor.

After about 50 years of development, ZY motor has become the most industrial scale enterprise with most complete product series and most perfect service network in this industry. The company now covers an area of 102 acres, with more than 1000 sets processing, testing equipments and 14 assembly lines. For years, it maintains of about 1500 million CNY (245 million USD) annual sales and 10 million kW output. it was also in the China Machinery Industry 500.

The company was also electrical engineering technology research center, and won the title of national torch plan high-tech enterprises. For many years, it was tracking for the most advanced technology and manufacturing process, focusing on the research and production of high quality industrial motors and derivative products, relying on the national wide sales and service network, committing to provide the highest quality product, the most comprehensive and efficient service and the best solutions for drive technology for customers.



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YE4 系列超高效率电机概述

Basic knowledge for YE4 Series Super Premium Efficiency Motor

全世界大约2/3的工业用电被大量的电动机所消耗，通过增加电动机的效率，可实现巨大的能源节约。这就促使各国政府陆续出台MEPS（最低能源性能标准），设置电动机的强制性最低效率水平。

出于对电动机能效的认定，大家逐渐形成了相对统一的效率判别标准和测试方法，以IEC或NEMA为主。这使得选择合适的电机节约能源和减少排放变的更加容易。

Motors now consume for about 2/3 of all industry electricity, by increasing motors efficiency, it would be possible to realize huge savings in energy. This is why more and more governments introduce MEPS (Minimum Energy Performance Standards), setting mandatory minimum efficiency levels for motors.

In order to identify the motor's efficiency, we gradually formed a relatively uniform efficiency criteria and testing methods, mostly based on IEC and NEMA. This makes it easier to choose right motor to save energy and reduce emissions.

MEPS:



国家 Country	USA	Canada	Mexico	Brazil	Australia	Turkey
电压 Voltage	≤600V	≤600V	≤600V	≤1000V	≤1100V	≤1000V
时间 Time	2010	2012	2010	2012	2006	2017
标准 Standard	IE3	IE3	IE2	IE2	IE2	IE3
极数 Poles	2,4,6	2,4,6	2,4,6,8	2,4,6,8	2,4,6,8	2,4,6
范围 Range	1-200HP	1-200HP	0.75~375kW	0.75~185kW	0.75~185kW	0.75~375kW



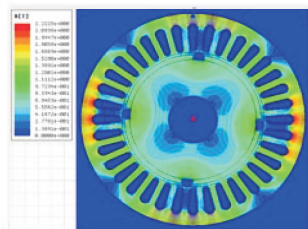
国家 Country	EU	Switzerland	Saudi Arabia	South Korea	Japan	China
电压 Voltage	≤1000V	≤1000V	≤1000V	≤600V	≤1000V	≤1000V
时间 Time	2017	2017	2017	2018	2015	2012
标准 Standard	IE3	IE3	IE3	IE3	IE3	IE2
极数 Poles	2,4,6	2,4,6	2,4,6	2,4,6,8	2,4,6	2,4,6
范围 Range	0.75~375kW	0.75~375kW	0.75~375kW	0.75~375kW	0.75~375kW	0.75~375kW

北京中源电机制造有限公司,可以生产符合各种现有效率标准的电机,针对所有地区和客户要求,总能从中找到最佳产品。这其中包含根据 IEC60034-2015 标准生产的,并已取得 CE 认证的 IE2、IE3、IE4 电机,以及根据 GB18613-2012 标准生产的,并已取得能效认证的 GB3、GB2、GB1 电机。使用高效率的电动机,不仅能够在电机运行中节约大量的能源,而且也提高了电机和环境耐受性和可靠性。

中源电机 IE4 产品,符合 IEC 中规定的 IE4 能效标准和 GB18613 中规定的 GB1 能效标准,功率范围涵盖 0.75~375kW,适用于大部分的低压工业场合,其外形既可选择 IE1 外形,也可以选择 IE2、IE3 外形,完全铁壳电机,无需另外考虑电机的安装问题。

与 IE1 电机相比,IE4 电机能提升效率值平均达 13% 左右,比 IE3 电机效率值平均提升 3% 左右,确保客户可以很快的收回投资。为达到如此高的效率值,江淮电机为 IE4 电机做了多处改进:

- 1、使用更为优质的原材料;
- 2、更为优秀的结构和电磁方案设计;



3、更能确保精确尺寸的加工设备及工艺,包括高速冲片,动平衡,加工中心等。



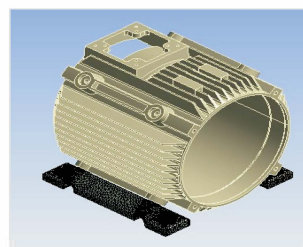
- 4、小功率电机采用铸铜转子。

ZYM motor can produce almost every existing efficiency standards of motors, so customers always find the best products to meet requirements for all regions. This includes the IE2, IE3 and IE4 motors with certification CE according to the IEC60034, and the GB3, GB2, GB1 motors with energy efficiency certification according to the GB18613. The use of high efficiency motor, not only can save a lot of energy in the motor running, but also improve the motor's reliability.

ZYM IE4 motor (0.75~375kW), is applicable to most of the low voltage industrial applications, with aluminum shape or cast iron. The motor's center height and dimensions are completely consistent with the IE1, IE2 and IE3 motors, that the customer need not consider the installation of the motors.

IE4 motor can enhance the efficiency of the average value of about 13% than IE1 motors, about 3% than IE3 motors, which ensure the investment can be quickly recover. For such a high efficiency, LA IE4 motors do many improvements:

- 1, Using of high-quality materials;
- 2, Better structure and electromagnetic design;



3, Better equipments, including high speed punching, dynamic balance, processing center, and so on;



- 4, Cast copper rotor for small power motor.

YE4 系列超超高效三相异步电动机



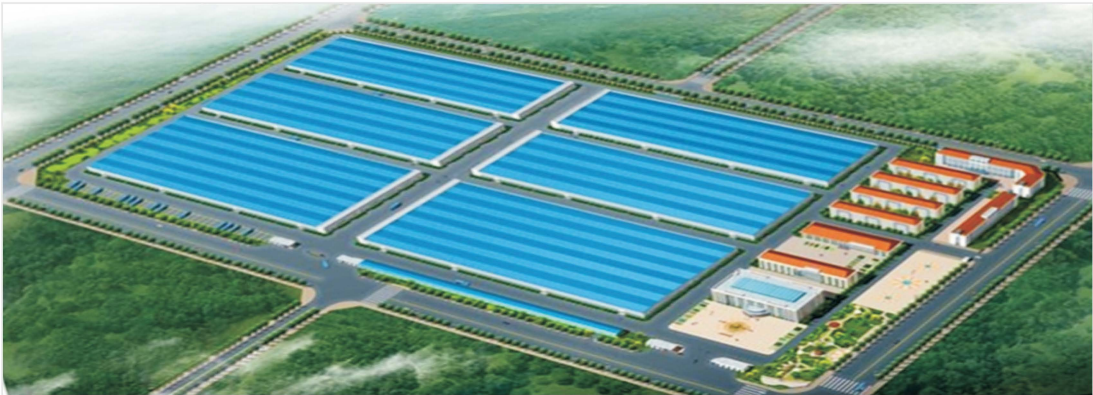
YE4 Series

Super Premium
Efficiency
asynchronous
Motor

IE4

IC411

概述	Summary
机座号: H80~H355	Frame Size: H80~H355
额定功率: 0.75~375kW	Rated Power: 0.75~375kW
额定电压: 380V	Rated Voltage: 380V
额定频率: 50Hz	Rated Frequency: 50Hz
极数: 2~8 极	Poles: 2p,4p,6p,8p
防护等级: IP55	Protection Degree: IP55
绝缘等级: F	Insulation Class: F
冷却方式: IC411	Cooling Method: IC411
工作制: S1 连续工作制	Duty: S1
能效等级: GB18613-2012 1 级	Efficiency Class: IEC60034-30-1:IE4
铸铜转子系列: YZTE4-80~180	Cast copper rotor series: YZTE4-80~180
铸铝转子系列: YE4-132~355	Cast aluminum rotor series: YE4-132~355



产品技术数据 Technical data(380V/50Hz)

设计值 Design value

型号 Type	额定功率 Power	额定电流 Current	额定转速 Speed	效率 EFF.	功率因数 P.F.	堵转转矩/ 额定转矩	最大转矩/ 额定转矩	堵转电流/ 额定电流
	kW	A	rpm	%		T_{st}/T_N	T_{max}/T_N	I_{st}/I_N
2 极-同步转速 3000rpm-50Hz								
YE4-80M1-2	0.75	1.6	2910	83.5	0.83	2.2	2.4	8.5
YE4-80M2-2	1.1	2.4	2920	85.2	0.83	2.2	2.4	8.5
YE4-90S-2	1.5	3.1	2930	86.5	0.85	2.2	2.4	8.5
YE4-90L-2	2.2	4.5	2930	88	0.86	2	2.4	9
YE4-100L-2	3	5.9	2935	89.1	0.87	1.9	2.4	9.5
YE4-112M-2	4	7.7	2940	90	0.88	1.9	2.4	9.5
YE4-132S1-2	5.5	10.4	2945	90.9	0.88	2	2.3	9.5
YE4-132S2-2	7.5	14.0	2945	91.7	0.89	2	2.3	9.5
YE4-160M1-2	11	20.3	2960	92.6	0.89	2	2.3	9.5
YE4-160M2-2	15	27.5	2960	93.3	0.89	2	2.3	9.5
YE4-160L-2	18.5	33.7	2960	93.7	0.89	2	2.3	9.5
YE4-180M-2	22	40.0	2965	94	0.89	2	2.3	9.5
YE4-200L1-2	30	54.2	2970	94.5	0.89	2	2.3	9
YE4-200L2-2	37	66.6	2970	94.8	0.89	2	2.3	9
YE4-225M-2	45	80.9	2975	95	0.89	2	2.3	9
YE4-250M-2	55	98.5	2975	95.3	0.89	2	2.3	9
YE4-280S-2	75	134	2980	95.6	0.89	1.8	2.3	8.5
YE4-280M-2	90	160	2980	95.8	0.89	1.8	2.3	8.5
YE4-315S-2	110	193	2980	96	0.90	1.8	2.3	8.5
YE4-315M-2	132	232	2980	96.2	0.90	1.8	2.3	8.5
YE4-315L1-2	160	277	2980	96.3	0.91	1.8	2.2	8.5
YE4-315L-2	185	320	2980	96.5	0.91	1.8	2.2	8.5
YE4-315L2-2	200	346	2980	96.5	0.91	1.8	2.2	8.5
YE4-355M1-2	220	381	2985	96.5	0.91	1.8	2.2	8.5
YE4-355M2-2	250	433	2985	96.5	0.91	1.6	2.2	8.5
YE4-355L1-2	280	485	2985	96.5	0.91	1.6	2.2	8.5
YE4-355L2-2	315	545	2985	96.5	0.91	1.6	2.2	8.5
YE4-3551-2	355	621	2990	96.5	0.90	0.9	1.8	8.6
YE4-3552-2	375	656	2990	96.5	0.90	0.9	1.8	8.6
4 极-同步转速 1500rpm-50Hz								
YE4-80M2-4	0.75	1.8	1430	85.7	0.76	2.2	2.4	8.5
YE4-90S-4	1.1	2.5	1445	87.2	0.77	2.2	2.4	8.5
YE4-90L-4	1.5	3.3	1450	88.2	0.78	2.2	2.4	9
YE4-100L1-4	2.2	4.7	1455	89.5	0.80	2.1	2.4	9
YE4-100L2-4	3	6.2	1455	90.4	0.81	2	2.4	9.5
YE4-112M-4	4	8.2	1460	91.1	0.81	2	2.4	9.5
YE4-132S-4	5.5	11.4	1470	91.9	0.80	2	2.3	9.5
YE4-132M-4	7.5	15.2	1470	92.6	0.81	2	2.3	9.5

产品技术数据 Technical data(380V/50Hz)

设计值 Design value

电机 Type	额定功率 Power	额定电流 Current	额定转速 Speed	效率 EFF.	功率因数 P.F.	堵转转矩/ 额定转矩	最大转矩/ 额定转矩	堵转电流/ 额定电流
	kW	A	rpm	%		T_{st}/T_N	T_{max}/T_N	I_{st}/I_N
4 极-同步转速 1500rpm-50Hz								
YE4-160M-4	11	21.6	1475	93.3	0.83	2	2.3	9.5
YE4-160L-4	15	28.9	1475	93.9	0.84	2	2.3	9.5
YE4-180M-4	18.5	35.1	1480	94.2	0.85	2	2.3	9.5
YE4-180L-4	22	41.6	1480	94.5	0.85	2	2.3	9.5
YE4-200L-4	30	56.7	1480	94.5	0.85	2	2.3	9
YE4-225S-4	37	68.7	1485	95.2	0.86	2	2.3	9
YE4-225M-4	45	83.3	1485	95.4	0.86	2	2.3	9
YE4-250M-4	55	102	1485	95.7	0.86	2	2.3	9
YE4-280S-4	75	136	1490	96	0.87	2	2.3	8.5
YE4-280M-4	90	162	1490	96.1	0.88	2	2.3	8.5
YE4-315S-4	110	195	1490	96.3	0.89	1.8	2.2	8.5
YE4-315M-4	132	234	1490	96.4	0.89	1.8	2.2	8.5
YE4-315L1-4	160	280	1490	96.6	0.90	1.8	2.2	8.5
YE4-315L-4	185	323	1490	96.6	0.90	1.8	2.2	8.5
YE4-315L2-4	200	349	1490	96.7	0.90	1.8	2.2	8.5
YE4-355M1-4	220	381	1490	96.5	0.91	1.6	2.2	8.5
YE4-355M2-4	250	436	1490	96.7	0.90	1.8	2.2	8.5
YE4-355L1-4	280	489	1490	96.7	0.90	1.8	2.2	8.5
YE4-355L2-4	315	550	1490	96.7	0.90	1.8	2.2	8.5
YE4-3551-4	355	633	1490	96.7	0.88	0.9	1.8	8.5
YE4-3552-4	375	670	1490	96.7	0.88	0.9	1.8	8.5
6 极-同步转速 1000rpm-50Hz								
YE4-90S-6	0.75	1.9	950	82.7	0.72	2	2.3	7.5
YE4-90L-6	1.1	2.8	955	84.5	0.72	1.9	2.3	7.5
YE4-100L-6	1.5	3.7	960	85.9	0.72	1.9	2.3	7.5
YE4-112M-6	2.2	5.3	965	87.4	0.72	1.9	2.3	7.5
YE4-132S-6	3	7.1	970	88.6	0.73	2	2.1	7.5
YE4-132M1-6	4	9.3	975	89.5	0.73	2	2.1	8
YE4-132M2-6	5.5	12.6	975	90.5	0.73	2	2.1	8
YE4-160M-6	7.5	16.0	980	91.3	0.78	2	2.1	8
YE4-160L-6	11	22.9	980	92.3	0.79	2	2.1	8.5
YE4-180L-6	15	30.7	985	92.9	0.80	2	2.1	8.5
YE4-200L1-6	18.5	37.6	985	93.4	0.80	2	2.1	8.5
YE4-200L2-6	22	44.0	985	93.7	0.81	2	2.1	8.5
YE4-225M-6	30	59.0	990	94.2	0.82	2	2.1	8.3
YE4-250M-6	37	71.7	990	94.5	0.83	2	2.1	8.3
YE4-280S-6	45	84.9	990	94.8	0.85	2	2	8.5
YE4-280M-6	55	102	990	95.1	0.86	2	2	8.5

产品技术数据 Technical data(380V/50Hz)

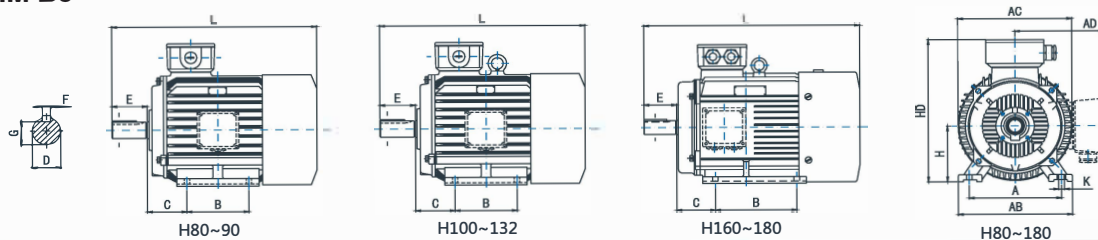
设计值 Design value

型号 Type	额定功率 Power	额定电流 Current	额定转速 Speed	效率 EFF.	功率因数 P.F.	堵转转矩/ 额定转矩	最大转矩/ 额定转矩	堵转电流/ 额定电流
	kW	A	rpm	%		T_{st}/T_N	T_{max}/T_N	I_{st}/I_N
6 极-同步转速 1000rpm-50Hz								
YE4-315S-6	75	142	985	95.4	0.84	1.6	2	8
YE4-315M-6	90	168	985	95.6	0.85	1.6	2	8
YE4-315L1-6	110	205	985	95.8	0.85	1.6	2	8
YE4-315L2-6	132	243	985	96	0.86	1.6	2	8
YE4-355M1-6	160	294	990	96.2	0.86	1.6	2	8
YE4-355M2-6	185	339	990	96.3	0.86	1.6	2	8
YE4-355M3-6	200	367	990	96.3	0.86	1.6	2	8
YE4-355L1-6	220	404	990	96.3	0.86	1.6	2	8
YE4-355L3-6	250	458	990	96.5	0.86	1.6	2	8
YE4-3551-6	280	537	990	96.6	0.82	0.9	1.8	7.9
YE4-3552-6	315	604	990	96.6	0.82	0.9	1.8	7.9
8 极-同步转速 750rpm-50Hz								
YE4-132S-8	2.2	5.7	720	84.5	0.70	1.8	2.3	7.5
YE4-132M-8	3	7.6	720	85.9	0.70	1.8	2.3	7.8
YE4-160M1-8	4	9.6	730	87.1	0.73	1.8	2.3	7.9
YE4-160M2-8	5.5	12.8	730	88.3	0.74	1.8	2.3	8.1
YE4-160L-8	7.5	17.2	730	89.3	0.74	1.8	2.3	7.8
YE4-180L-8	11	25.0	735	90.4	0.74	1.8	2.3	7.9
YE4-200L-8	15	33.3	735	91.2	0.75	1.8	2	8
YE4-225S-8	18.5	40.9	735	91.7	0.75	1.8	2	8.1
YE4-225M-8	22	47.8	735	92.1	0.76	1.8	2	8.3
YE4-250M-8	30	63.9	735	92.7	0.77	1.8	2	7.9
YE4-280S-8	37	77.4	740	93.1	0.78	1.8	2	7.9
YE4-280M-8	45	93.9	740	93.4	0.78	1.8	2	7.9
YE4-315S-8	55	111	740	93.7	0.80	1.6	2	8.2
YE4-315M-8	75	151	740	94.2	0.80	1.6	2	7.6
YE4-315L1-8	90	179	740	94.4	0.81	1.6	2	7.7
YE4-315L2-8	110	218	740	94.7	0.81	1.6	2	7.7
YE4-355M1-8	132	261	740	94.9	0.81	1.6	2	7.7
YE4-355M2-8	160	312	740	95.1	0.82	1.6	2	7.7
YE4-355L-8	200	388	740	95.4	0.82	1.6	2	7.8
YE4-3552-8	250	498	740	95.4	0.80	1.6	1.8	7.6
YE4-3553-8	315	627	740	95.4	0.80	1.6	1.8	7.6

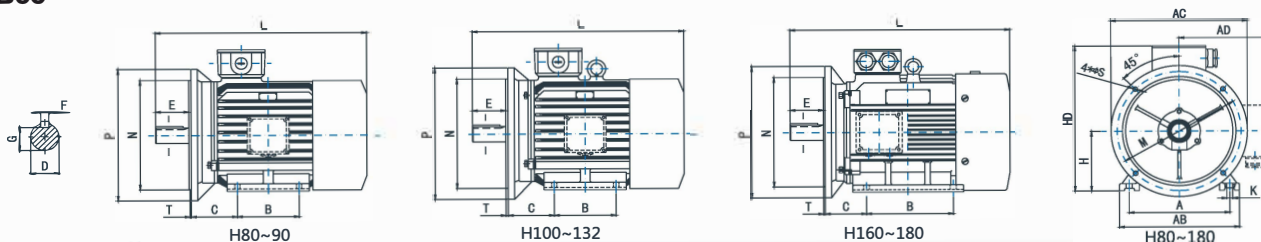
YZTE4-80~180 铸铜转子电机外形及安装尺寸

Mounting dimensions of YZTE4 – 80~ 180 series cast copper rotor motor

IM B3

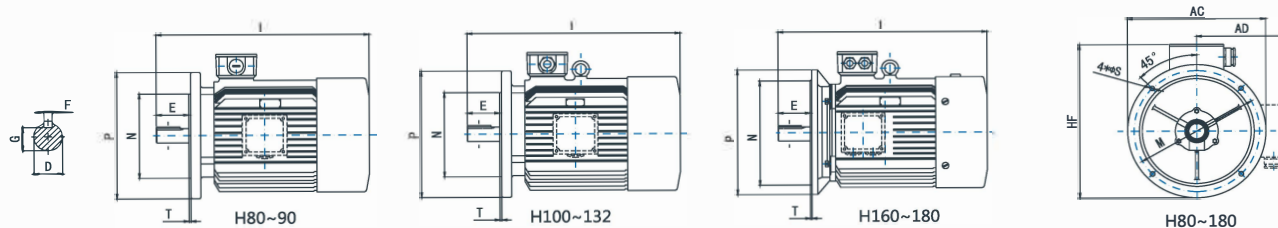


机座 Frame	安装尺寸 Mounting (mm)							外形尺寸 External (mm)						
	A	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L
80M	125	100	50	19	40	6	15.5	80	10	165	175	145	220	305
90S	140	100	56	24	50	8	20	90	10	180	205	170	265	360
90L		125												390
100L	160	140	63	28	60	8	24	100	12	205	215	180	270	435
112M	190	140	70	28	60	8	24	112	12	230	255	200	310	440
132S	216	140	89	38	80	10	33	132	12	270	310	230	365	510
132M		178												550
160M	254	210	108	42	110	12	37	160	14.5	320	340	260	425	730
160L		254												760
180M	279	241	121	48	110	14	42.5	180	14.5	355	390	285	460	770
180L		279												800

IM
B35

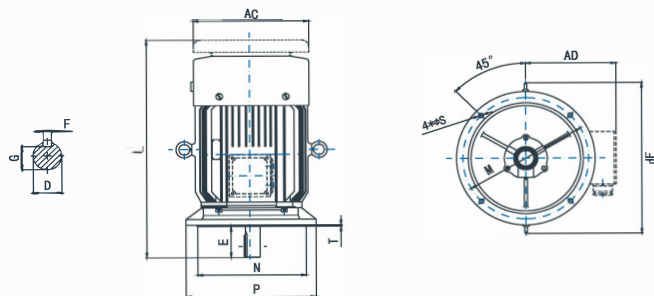
机座号 Frame	凸缘号 Flange	安装尺寸 Mounting (mm)							外形尺寸 External (mm)				
		H	K	M	N	P	S	T	AB	AC	AD	HD	L
80M	FF165	80	10	165	130	200	12	3.5	165	175	145	220	305
90S	FF165	90	10	165	130	200	12	3.5	180	205	170	265	395
90L													425
100L	FF215	100	12	215	180	250	14.5	4	205	215	180	270	435
112M	FF215	112	12	215	180	250	14.5	4	230	255	200	310	475
132S	FF265	132	12	265	230	300	14.5	4	270	310	230	365	535
132M													550
160M	FF300	160	14.5	300	250	350	18.5	5	320	340	260	425	730
160L													760
180M	FF300	180	14.5	300	250	350	18.5	5	355	390	285	460	805
180L													835

IM B5



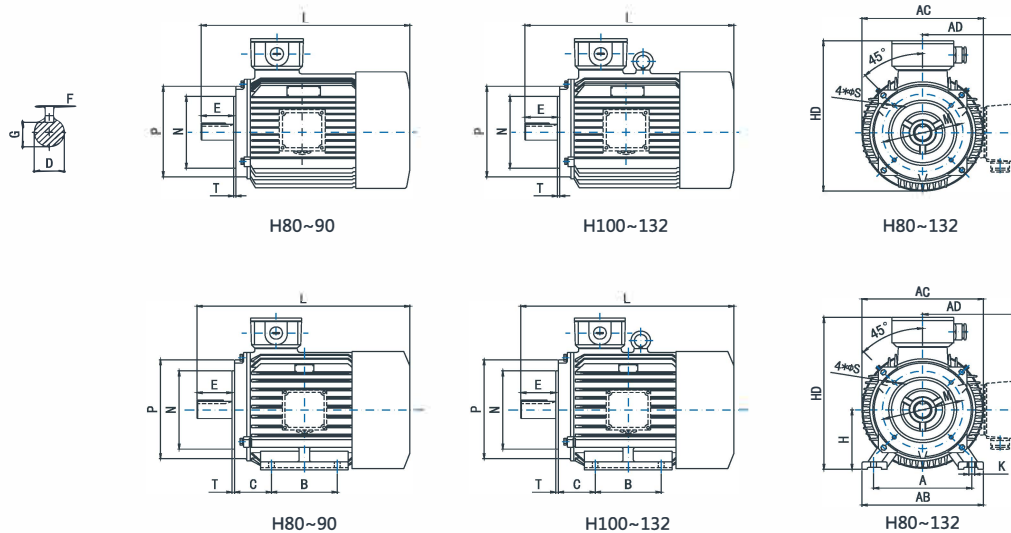
机座号 Frame	凸缘号 Flange	安装尺寸 Mounting (mm)									外形尺寸 External (mm)			
		D	E	F	G	M	N	P	S	T	AC	AD	HF	L
80M	FF165	19	40	6	15.5	165	130	200	12	3.5	175	145	245	305
90S	FF165	24	50	8	20	165	130	200	12	3.5	205	170	270	395
90L														425
100L	FF215	28	60	8	24	215	180	250	14.5	4	215	180	305	435
112M	FF215	28	60	8	24	215	180	250	14.5	4	255	200	325	475
132S	FF265	38	80	10	33	265	230	300	14.5	4	310	230	380	535
132M														550
160M	FF300	42	110	12	37	300	250	350	18.5	5	340	260	435	730
160L														760
180M	FF300	48	110	14	42.5	300	250	350	18.5	5	390	285	460	805
180L														835

IM V1



机座号 Frame	凸缘号 Flange	安装尺寸 Mounting (mm)									外形尺寸 External (mm)			
		D	E	F	G	M	N	P	S	T	AC	AD	HF	L
180M	FF300	48	110	14	42.5	300	250	350	18.5	5	390	285	505	825
180L	FF300	48	110	14	42.5	300	250	350	18.5	5	390	285	505	845

IM B14、IMB34



机座号 Frame	安装尺寸 Mounting					轴伸尺寸 Shaft					外形尺寸 External					凸缘尺寸 Flange					
	A	B	C	H	K	D	E	F	G		AB	AC	AD	HD	L	No.	M	N	P	S	T
80M	125	100	50	80	10	19	40	6	15.5		165	175	145	220	305	FT100	100	80	120	6	3
90S	140	100	56	90	10	24	50	8	20		180	205	170	265	360	FT115	115	95	140	8	3
90L	140	125	56	90	10	24	50	8	20		180	205	170	265	390	FT115	115	95	140	8	3
100L	160	140	63	100	12	28	60	8	24		205	215	180	270	435	FT130	130	110	160	8	3.5
112M	190	140	70	112	12	28	60	8	24		230	255	200	310	440	FT130	130	110	160	8	3.5

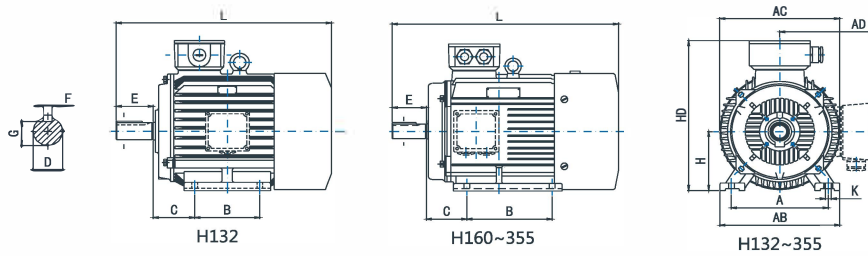
※轴伸尺寸同 IMB3 Shaft dimensions same as IMB3



YE4-132~355 铸铝转子电机外形及安装尺寸

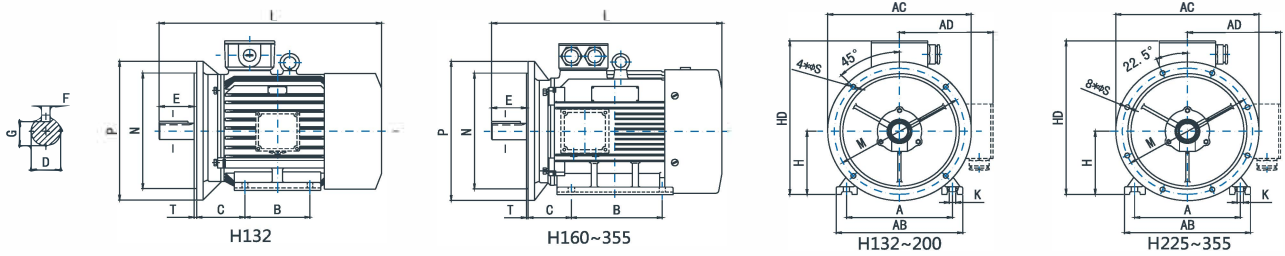
Mounting dimensions of YE4 – 132~355 series cast aluminum rotor motor

IM B3



机座 Frame	极数 Poles	安装尺寸 Mounting					轴伸尺寸 Shaft				外形尺寸 External				
		A	B	C	H	K	D	E	F	G	AB	AC	AD	HD	L
132S	≥2	216	140	89	132	12	38	80	10	33	270	310	230	365	510
132M	≥2	216	178	89	132	12	38	80	10	33	270	310	230	365	550
160M	≥2	254	210	108	160	14.5	42	110	12	37	320	340	260	425	730
160L	≥2	254	254	108	160	14.5	42	110	12	37	320	340	260	425	760
180M	≥2	279	241	121	180	14.5	48	110	14	42.5	355	390	285	460	770
180L	≥2	279	279	121	180	14.5	48	110	14	42.5	355	390	285	460	800
200L	≥2	318	305	133	200	18.5	55	110	16	49	395	445	320	520	860
225S	≥4	356	286	149	225	18.5	60	140	18	53	435	495	350	575	830
225M	2	356	311	149	225	18.5	55	110	16	49	435	495	350	575	830
225M	≥4	356	311	149	225	18.5	60	140	18	53	435	495	350	575	860
250M	2	406	349	168	250	24	60	140	18	53	490	550	390	635	990
250M	≥4	406	349	168	250	24	65	140	18	58	490	550	390	635	990
280S	2	457	368	190	280	24	65	140	18	58	550	630	435	705	990
280S	≥4	457	368	190	280	24	75	140	20	67.5	550	630	435	705	990
280M	2	457	419	190	280	24	65	140	18	58	550	630	435	705	1040
280M	≥4	457	419	190	280	24	75	140	20	67.5	550	630	435	705	1040
315S	2	508	406	216	315	28	65	140	18	58	635	645	530	845	1180
315S	≥4	508	406	216	315	28	80	170	22	71	635	645	530	845	1290
315M	2	508	457	216	315	28	65	140	18	58	635	645	530	845	1210
315M	≥4	508	457	216	315	28	80	170	22	71	635	645	530	845	1320
315L	2	508	508	216	315	28	65	140	18	58	635	645	530	845	1210
315L	≥4	508	508	216	315	28	80	170	22	71	635	645	530	845	1320
355M	2	610	560	254	355	28	75	140	20	67.5	730	710	655	1010	1500
355M	≥4	610	560	254	355	28	95	170	25	86	730	710	655	1010	1530
355L	2	610	630	254	355	28	75	140	20	67.5	730	710	655	1010	1500
355L	≥4	610	630	254	355	28	95	170	25	86	730	710	655	1010	1530
355	2	630	800	224	355	35	80	170	22	71	760	770	760	1130	1870
355	≥4	630	800	224	355	35	110	210	28	100	760	770	760	1130	1920

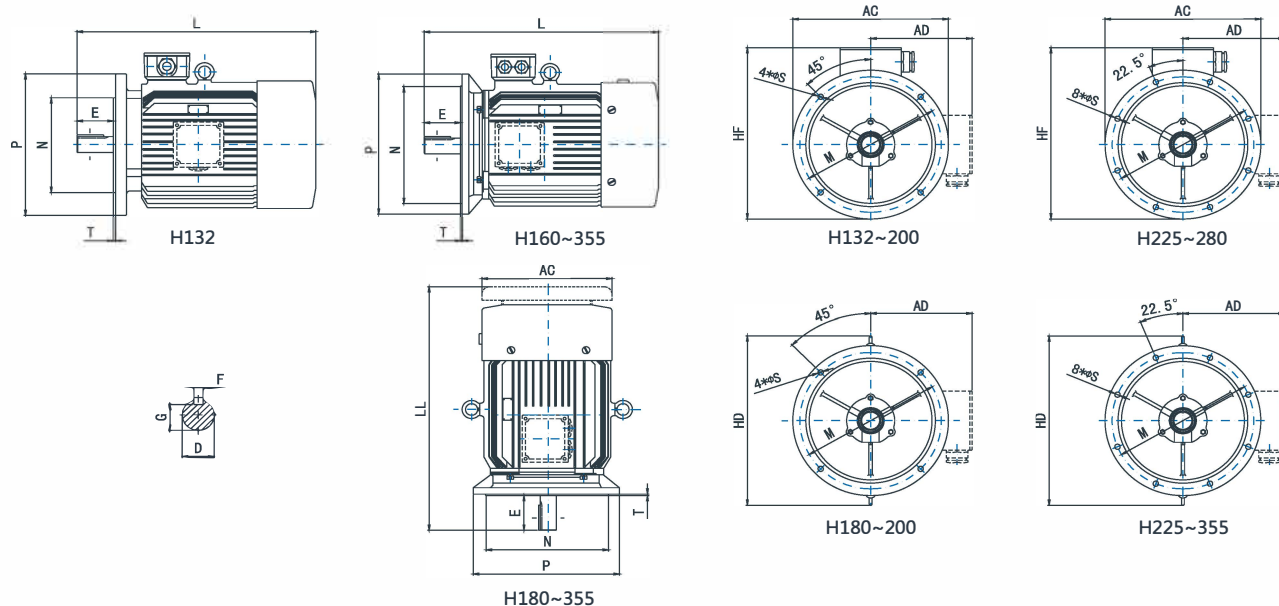
IM B35



机座 Frame	极数 Poles	安装尺寸 Mounting					轴伸尺寸 Shaft					凸缘尺寸 Flange				
		A	B	C	H	K	D	E	F	G	No.	M	N	P	S	T
132S	≥ 2	216	140	89	132	12	38	80	10	33	FF265	265	230	300	14.5	4
132M	≥ 2	216	178	89	132	12	38	80	10	33						
160M	≥ 2	254	210	108	160	14.5	42	110	12	37	FF300	300	250	350	18.5	5
160L	≥ 2	254	254	108	160	14.5	42	110	12	37						
180M	≥ 2	279	241	121	180	14.5	48	110	14	42.5						
180L	≥ 2	279	279	121	180	14.5	48	110	14	42.5						
200L	≥ 2	318	305	133	200	18.5	55	110	16	49	FF350	350	300	400	18.5	5
225S	≥ 4	356	286	149	225	18.5	60	140	18	53	FF400	400	350	450	18.5	5
225M	2	356	311	149	225	18.5	55	110	16	49						
225M	≥ 4	356	311	149	225	18.5	60	140	18	53	FF500	500	450	550	18.5	5
250M	2	406	349	168	250	24	60	140	18	53						
250M	≥ 4	406	349	168	250	24	65	140	18	58						
280S	2	457	368	190	280	24	65	140	18	58						
280S	≥ 4	457	368	190	280	24	75	140	20	67.5						
280M	2	457	419	190	280	24	65	140	18	58						
280M	≥ 4	457	419	190	280	24	75	140	20	67.5	FF600	600	550	660	24	6
315S	2	508	406	216	315	28	65	140	18	58						
315S	≥ 4	508	406	216	315	28	80	170	22	71						
315M	2	508	457	216	315	28	65	140	18	58						
315M	≥ 4	508	457	216	315	28	80	170	22	71						
315L	2	508	508	216	315	28	65	140	18	58						
315L	≥ 4	508	508	216	315	28	80	170	22	71	FF740	740	680	800	24	6
355M	2	610	560	254	355	28	75	140	20	67.5						
355M	≥ 4	610	560	254	355	28	95	170	25	86						
355L	2	610	630	254	355	28	75	140	20	67.5						
355L	≥ 4	610	630	254	355	28	95	170	25	86	FF840	840	780	900	24	6
355	2	630	800	224	355	35	80	170	22	71						
355	≥ 4	630	800	224	355	35	110	210	28	100						

外形尺寸同 IMB3 External dimensions same as IMB3

IM B5、IMV1

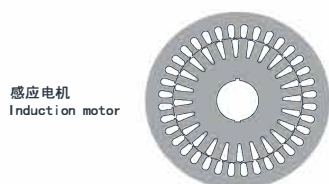


机座 Frame	级数 Poles	轴伸尺寸 Shaft				外形尺寸 External						凸缘尺寸 Flange					
		D	E	F	G	AC	AD	HF	L	HD	LL	No.	M	N	P	S	T
132S	≥ 2	38	80	10	33	310	230	335	510	—	—	FF265	265	230	300	14.5	4
132M	≥ 2	38	80	10	33				550								
160M	≥ 2	42	110	12	37	340	260	390	730	—	—	FF300	300	250	350	18.5	5
160L	≥ 2	42	110	12	37				760								
180M	≥ 2	48	110	14	42.5	390	285	435	770	505	825	FF300	300	250	350	18.5	5
180L	≥ 2	48	110	14	42.5				800		845						
200L	≥ 2	55	110	16	49	445	320	495	860	565	940	FF350	350	300	400	18.5	5
225S	≥ 4	60	140	18	53	495	350	550	830	625	945	FF400	400	350	450	18.5	5
225M	2	55	110	16	49				830		945						
225M	≥ 4	60	140	18	53				860		975						
250M	2	60	140	18	53	550	390	615	990	670	1095	FF500	500	450	550	18.5	5
250M	≥ 4	65	140	18	58				990		1095						
280S	2	65	140	18	58	630	435	675	990	745	1155	FF500	500	450	550	18.5	5
280S	≥ 4	75	140	20	67.5				990		1155						
280M	2	65	140	18	58				1040		1195						
280M	≥ 4	75	140	20	67.5	645	530	—	—	900	1280	FF600	600	550	660	24	6
315S	2	65	140	18	58						1400						
315S	≥ 4	80	170	22	71						1310						
315M、L	2	65	140	18	58						1430						
315M、L	≥ 4	80	170	22	71	710	655	—	—	1010	1640	FF740	740	680	800	24	6
355M、L	2	75	140	20	67.5						1670						
355M、L	≥ 4	95	170	25	86	900	760	—	—	1220	1920	FF840	840	780	900	24	6
355	2	80	170	22	71						1970						
355	≥ 4	110	210	28	100	900	760	—	—	1220	1920	FF840	840	780	900	24	6
355	≥ 4	110	210	28	100						1970						

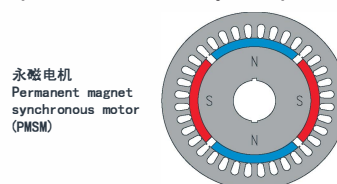
永磁同步电机概述

Basic knowledge for Permanent Magnet Synchronous Motor

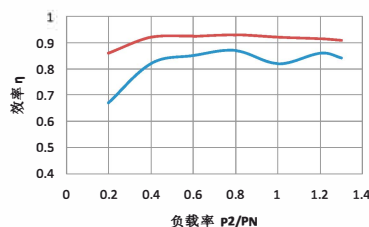
1、永磁电机定子和感应电机类似，不同的是产生机械能和电能转换所需要的气隙磁场，感应电机由电机绕组内通以电流来产生，而永磁电机利用转子上的永磁体来产生磁场，因此不需要无功励磁电流，减少了定子电阻损耗和转子电阻损耗，可显著提高电机的效率和功率因数。



The stator of PMSM is similar to induction motors', the difference is the air gap magnetic field of them which converted between mechanical and electrical energy. The induction motors use current through winding to generate it, but PMSM use permanent magnet on rotor. Because of no reactive excitation current, PMSM can significantly improve the efficiency and power factor.

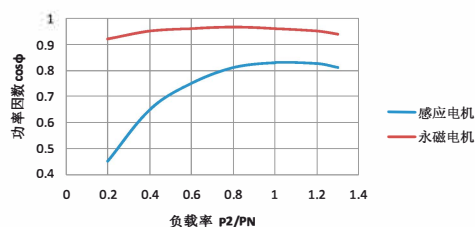


2、永磁电动机在25%-125%变负载范围内，均可保持较高的功率因数和效率，使轻载运行时节能效果更为显著。



3、对于变频驱动永磁同步电机，由于不需要普通异步电机的转子端环、导条，因此转子的设计更为灵活，在保证更高的功率输出和可靠性的前提下，体积可减小到YE3系列相应规格的缩小两个中心高。

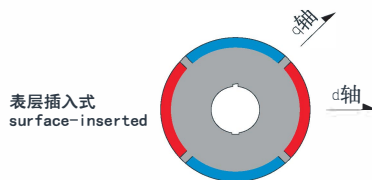
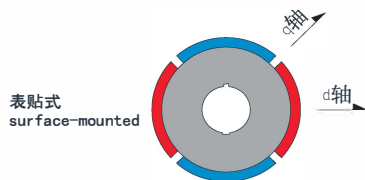
The PMSM can keep high efficiency and power factor in the 25%-125% load range.



Without end ring and guide on rotor of asynchronous motor, rotor design is more flexible for variable frequency PMSM that is available up to two frame sizes smaller motor with high output motor and reliability comparing with YE3 series.

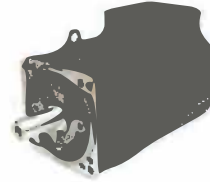
4、由于永磁同步电机的功率因数不受电机极数的影响，因此可以设计成大极数(如40极以上)的永磁同步直驱电机，直接将传动系统中的减速机省去，提高了整体的传动效率。

Without the influence of motor poles on power factor, PMSM can be designed with high poles (such as 40 poles above) to straight drive motor. It can improve the efficiency of the overall transmission while omitting the reducer.



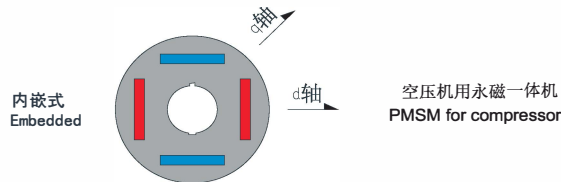
5、表贴式及表层插入式转子结构，具有工艺结构简单和转动惯量小等特点，多用于中小功率伺服电机。

The rotor of surface-mounted or surface-inserted, with the advantages of simple structure and small inertia, is usually used for the medium and small servo motor.



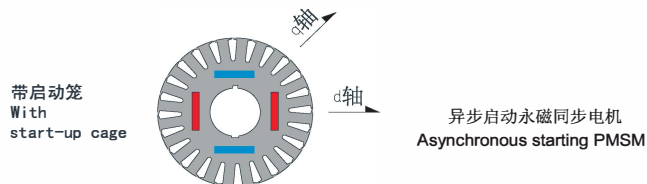
6、内嵌式转子结构，具有结构简单、可靠性高等特点，多用于高速永磁电机和大功率的变频永磁电机。

The embedded rotor, with the advantages of simple structure and high reliability, is usually used for high speed or high power variable frequency PMSM.



7、带启动笼的内置式转子结构，可以在无控制器的前提下自启动，系统成本低。但是转子在有限的空间内既要放置足够的永磁体来满足所需的磁通，又要放置启动笼来满足异步启动能力，因此会造成每个细节的尺寸都很紧张，电机的体积受到限制。多用于原有电机的改造，以及需要高启动转矩和高牵入转矩等的石化、冶金、纺织等场合。

The structure of embedded rotor with start-up cage, can be used in the low cost PMSM, which can start without controller. But the motor size would be limited by nervous rotor space satisfying both enough magnet and aluminum cage. So this kind of motor is usually used for the transformation of the original motor, as well as the need for high torque and high torque, such as the petrochemical, metallurgy, textile and other occasions.



CXYT系列异步启动超超高效永磁同步电机



CXYT Series

Asynchronous Start
Ultra Premium Efficiency
Permanent Magnet
Synchronous Motor

IE4

IC411

概述	Summary
额定功率: 1.1~315kW	Rated Power: 1.1~315kW
机座号: H90~H355	Frame Size: H90~H355
极数: 2~8 极	Poles: 2p,4p,6p,8p
防护等级: IP55	Protection Degree: IP55
绝缘等级: F	Insulation Class: F
冷却方式: IC411	Cooling Method: IC411
工作制: S1 连续工作制	Duty: S1
能效等级: GB18613-2012 1 级	Efficiency Class: IEC60034-30-1:IE4
与 YE3 系列可互换的同等机座号	With the same frame as YE3 series
H90~H160 可选择铸铝机座	Aluminum Frame: H90~H160
2 极电机建议选择 TYP 变频系列	2 poles motor, please choose TYP series



产品技术数据 Technical data(380V/50Hz)

设计值 Design value

型号 Type	功率 Power	额定电流 Current	效率 EFF.	功率因数 P.F.	额定转矩 RT	牵入转矩倍 数	失步转矩倍 数	堵转电流倍 数
	kW	A	%		N _機	T_{st}/T_N	T_{miss}/T_N	I_{st}/I_N
2极-同步转速 3000rpm-50Hz								
CXYT-80M1-2	0.75	1.4	83.5	0.96	2	1.2	2	9.5
CXYT-80M2-2	1.1	2.0	85.2	0.96	4	1.2	2	9.5
CXYT-90S-2	1.5	2.7	86.5	0.96	5	1.2	2	9.5
CXYT-90L-2	2.2	4.0	88.0	0.96	7	1.2	2	9.5
CXYT-100L-2	3	5.3	89.1	0.96	10	1.2	2	9.5
CXYT-112M-2	4	7.0	90.0	0.96	13	1.2	2	9.5
CXYT-132S1-2	5.5	9.6	90.9	0.96	18	1.2	2	9.5
CXYT-132S2-2	7.5	12.9	91.7	0.96	24	1.2	2	9.5
CXYT-160M1-2	11	18.8	92.6	0.96	35	1.2	2	9.5
CXYT-160M2-2	15	25.4	93.3	0.96	48	1.2	2	9.5
CXYT-160L-2	18.5	31.2	93.7	0.96	59	1.2	2	9.5
4极-同步转速 1500rpm-50Hz								
CXYT-80M1-4	0.55	1.0	83.9	0.96	4	1.2	2	9.5
CXYT-80M2-4	0.75	1.4	85.7	0.96	5	1.2	2	9.5
CXYT-90S-4	1.1	2.0	87.2	0.96	7	1.2	2	9.5
CXYT-90L-4	1.5	2.7	88.2	0.96	10	1.2	2	9.5
CXYT-100L1-4	2.2	3.9	89.5	0.96	14	1.2	2	9.5
CXYT-100L2-4	3	5.3	90.4	0.96	19	1.2	2	9.5
CXYT-112M-4	4	6.9	91.1	0.96	25	1.2	2	9.5
CXYT-132S-4	5.5	9.5	91.9	0.96	35	1.2	2	9.5
CXYT-132M-4	7.5	12.8	92.6	0.96	48	1.2	2	9.5
CXYT-160M-4	11	18.7	93.3	0.96	70	1.2	2	9.5
CXYT-160L-4	15	25.3	93.9	0.96	96	1.2	2	9.5
CXYT-180M-4	18.5	31.1	94.2	0.96	118	1.2	1.8	10
CXYT-180L-4	22	36.8	94.5	0.96	140	1.2	1.8	10
CXYT-200L-4	30	50.0	94.9	0.96	191	1.2	1.8	10
CXYT-225S-4	37	61.5	95.2	0.96	236	1.2	1.8	10
CXYT-225M-4	45	74.7	95.4	0.96	287	1.2	1.8	10
CXYT-250M-4	55	91.0	95.7	0.96	350	1.2	1.8	10
CXYT-280S-4	75	123.6	96.0	0.96	478	1.2	1.8	10
CXYT-280M-4	90	148.2	96.1	0.96	573	1.2	1.8	10
CXYT-315S-4	110	180.8	96.3	0.96	700	1.2	1.8	10
CXYT-315M-4	132	216.7	96.4	0.96	840	1.2	1.8	10
CXYT-315L1-4	160	262.1	96.6	0.96	1019	1.2	1.8	10
CXYT-315L2-4	200	327.3	96.7	0.96	1273	1.2	1.8	10
CXYT-355M1-4	220	360.1	96.7	0.96	1401	1.2	1.6	10
CXYT-355M2-4	250	409.2	96.7	0.96	1592	1.2	1.6	10
CXYT-355L1-4	280	458.3	96.7	0.96	1783	1.2	1.6	10
CXYT-355L2-4	315	515.5	96.7	0.96	2006	1.2	1.6	10

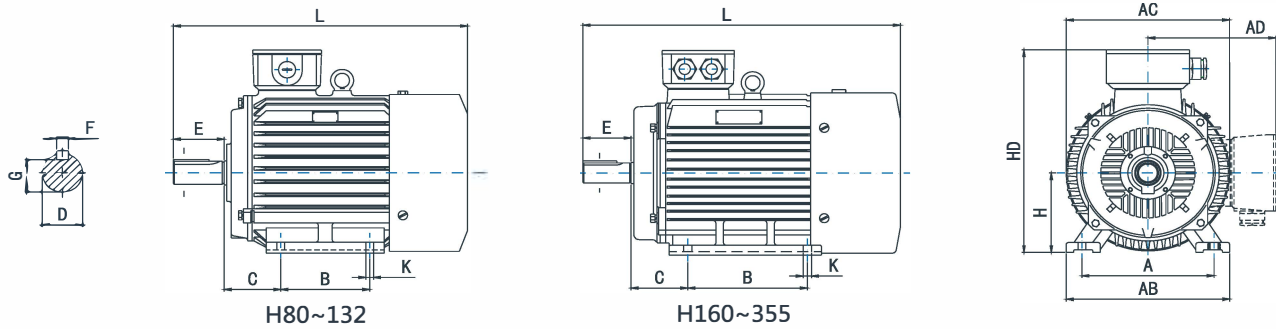
产品技术数据 Technical data(380V/50Hz)

设计值 Design value

型号 Type	功率 Power	额定电流 Current	效率 EFF.	功率因数 P.F.	额定转矩 RT	牵入转矩倍 数	失步转矩倍 数	堵转电流倍 数
	kW	A	%		N 级	T_{st}/T_N	T_{miss}/T_N	I_{st}/I_N
6极-同步转速1000rpm-50Hz								
CXYT-132S-6	3	5.2	88.6	0.98	29	1.2	1.6	10
CXYT-132M1-6	4	6.9	89.5	0.98	38	1.2	1.6	10
CXYT-132M2-6	5.5	9.4	90.5	0.98	53	1.2	1.6	10
CXYT-160M-6	7.5	12.7	91.3	0.98	72	1.2	1.6	10
CXYT-160L-6	11	18.5	92.3	0.98	105	1.2	1.6	10
CXYT-180L-6	15	25.0	92.9	0.98	143	1.2	1.6	10
CXYT-200L1-6	18.5	30.7	93.4	0.98	177	1.2	1.6	10
CXYT-200L2-6	22	36.4	93.7	0.98	210	1.2	1.6	10
CXYT-225M-6	30	49.4	94.2	0.98	287	1.2	1.6	10
CXYT-250M-6	37	60.7	94.5	0.98	353	1.2	1.6	10
CXYT-280S-6	45	73.6	94.8	0.98	430	1.2	1.6	10
CXYT-280M-6	55	89.7	95.1	0.98	525	1.2	1.6	10
CXYT-315S-6	75	121.9	95.4	0.98	716	1.2	1.6	10
CXYT-315M-6	90	146.0	95.6	0.98	860	1.2	1.6	10
CXYT-315L1-6	110	178.0	95.8	0.98	1051	1.2	1.6	10
CXYT-315L2-6	132	213.2	96.0	0.98	1261	1.2	1.6	10
CXYT-355M1-6	160	257.9	96.2	0.98	1528	1.2	1.6	10
CXYT-355M2-6	185	297.8	96.3	0.98	1767	1.2	1.6	10
CXYT-355M3-6	200	322.0	96.3	0.98	1910	1.2	1.6	10
CXYT-355L1-6	220	353.4	96.5	0.98	2101	1.2	1.6	10
CXYT-355L2-6	250	401.6	96.5	0.98	2388	1.2	1.6	10
8极-同步转速750rpm-50Hz								
CXYT-132S-8	2.2	4.1	84.5	0.96	28	1.2	1.6	10
CXYT-132M-8	3	5.5	85.9	0.96	38	1.2	1.6	10
CXYT-160M1-8	4	7.3	87.1	0.96	51	1.2	1.6	10
CXYT-160M2-8	5.5	9.7	88.3	0.98	70	1.2	1.6	10
CXYT-160L-8	7.5	13.0	89.3	0.98	96	1.2	1.6	10
CXYT-180L-8	11	18.9	90.4	0.98	140	1.2	1.6	10
CXYT-200L-8	15	26.0	91.2	0.96	191	1.2	1.6	10
CXYT-225S-8	18.5	31.9	91.7	0.96	236	1.2	1.6	10
CXYT-225M-8	22	37.8	92.1	0.96	280	1.2	1.6	10
CXYT-250M-8	30	51.2	92.7	0.96	382	1.2	1.6	10
CXYT-280S-8	37	62.9	93.1	0.96	471	1.2	1.6	10
CXYT-280M-8	45	76.3	93.4	0.96	573	1.2	1.6	10
CXYT-315S-8	55	92.9	93.7	0.96	700	1.2	1.6	10
CXYT-315M-8	75	126.0	94.2	0.96	955	1.2	1.6	10
CXYT-315L1-8	90	150.9	94.4	0.96	1146	1.2	1.6	10
CXYT-315L2-8	110	183.8	94.7	0.96	1401	1.2	1.6	10
CXYT-355M1-8	132	220.1	94.9	0.96	1681	1.2	1.6	10
CXYT-355M2-8	160	266.3	95.1	0.96	2037	1.2	1.6	10

外形及安装尺寸 Mounting dimension

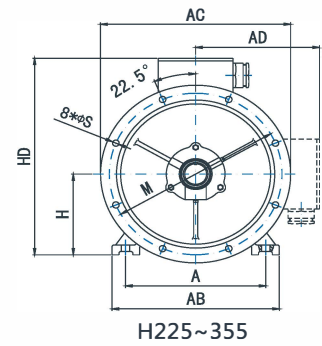
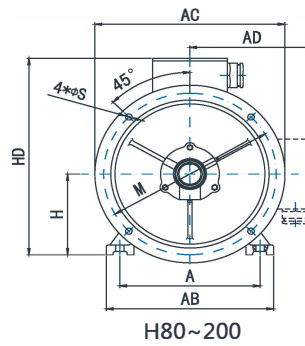
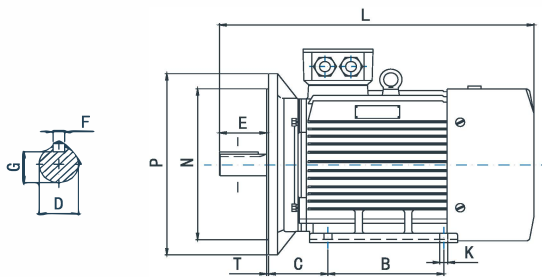
IM B3



机座 Frame	级数 Poles	安装尺寸 Mounting					轴伸尺寸 Shaft				外形尺寸 External				
		A	B	C	H	K	D	E	F	G	AB	AC	AD	HD	L
80M	≥2	125	100	50	80	10	19	40	6	15.5	165	175	145	220	305
90S	≥2	140	100	56	90	10	24	50	8	20	180	195	165	260	360
90L	≥2	140	125	56	90	10	24	50	8	20	180	195	165	260	390
100L	≥2	160	140	63	100	12	28	60	8	24	205	215	180	275	435
112M	≥2	190	140	70	112	12	28	60	8	24	230	240	190	300	470
132S	≥2	216	140	89	132	12	38	80	10	33	270	275	210	345	510
132M	≥2	216	178	89	132	12	38	80	10	33	270	275	210	345	560
160M	≥2	254	210	108	160	14.5	42	110	12	37	320	330	255	420	670
160L	≥2	254	254	108	160	14.5	42	110	12	37	320	330	255	420	700
180M	≥4	279	241	121	180	14.5	48	110	14	42.5	355	380	280	455	740
180L	≥4	279	279	121	180	14.5	48	110	14	42.5	355	380	280	455	790
200L	≥4	318	305	133	200	18.5	55	110	16	49	395	420	305	505	790
225S	≥4	356	286	149	225	18.5	60	140	18	53	435	470	335	560	830
225M	≥4	356	311	149	225	18.5	60	140	18	53	435	470	335	560	855
250M	≥4	406	349	168	250	24	65	140	18	58	490	510	370	615	915
280S	≥4	457	368	190	280	24	75	140	20	67.5	550	580	410	680	985
280M	≥4	457	419	190	280	24	75	140	20	67.5	550	580	410	680	1035
315S	≥4	508	406	216	315	28	80	170	22	71	635	645	530	845	1290
315M	≥4	508	457	216	315	28	80	170	22	71	635	645	530	845	1320
315L	≥4	508	508	216	315	28	80	170	22	71	635	645	530	845	1320
355M	≥4	610	560	254	355	28	95	170	25	86	730	710	655	1010	1530
355L	≥4	610	630	254	355	28	95	170	25	86	730	710	655	1010	1530

外形及安装尺寸 Mounting dimension

IM B35

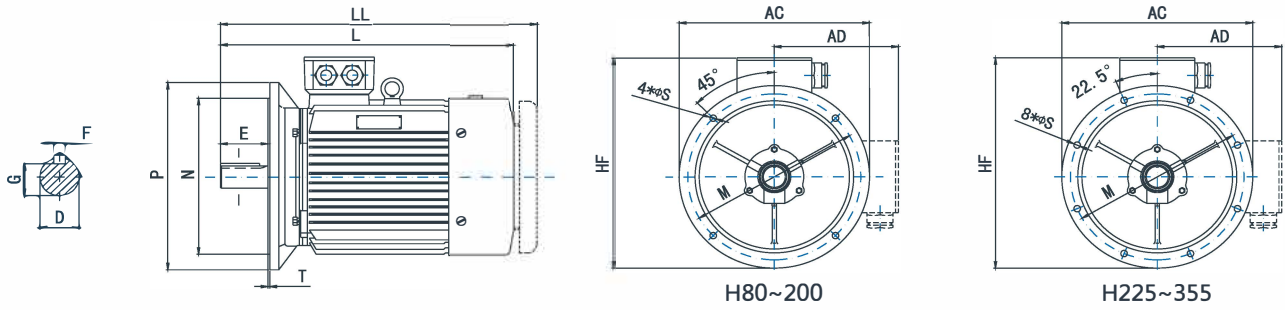


机座 Frame	级数 Poles	安装尺寸 Mounting					轴伸尺寸 Shaft				凸缘尺寸 Flange					
		A	B	C	H	K	D	E	F	G	No.	M	N	P	S	T
80M	≥ 2	125	100	50	80	10	19	40	6	15.5	FF165	165	130	200	12	3.5
90S	≥ 2	140	100	56	90	10	24	50	8	20						
90L	≥ 2	140	125	56	90	10	24	50	8	20						
100L	≥ 2	160	140	63	100	12	28	60	8	24	FF215	215	180	250	14.5	4
112M	≥ 2	190	140	70	112	12	28	60	8	24						
132S	≥ 2	216	140	89	132	12	38	80	10	33	FF265	265	230	300	14.5	4
132M	≥ 2	216	178	89	132	12	38	80	10	33						
160M	≥ 2	254	210	108	160	14.5	42	110	12	37	FF300	300	250	350	18.5	5
160L	≥ 2	254	254	108	160	14.5	42	110	12	37						
180M	≥ 4	279	241	121	180	14.5	48	110	14	42.5						
180L	≥ 4	279	279	121	180	14.5	48	110	14	42.5	FF350	350	300	400	18.5	5
200L	≥ 4	318	305	133	200	18.5	55	110	16	49						
225S	≥ 4	356	286	149	225	18.5	60	140	18	53	FF400	400	350	450	18.5	5
225M	≥ 4	356	311	149	225	18.5	60	140	18	53						
250M	≥ 4	406	349	168	250	24	65	140	18	58	FF500	500	450	550	18.5	5
280S	≥ 4	457	368	190	280	24	75	140	20	67.5						
280M	≥ 4	457	419	190	280	24	75	140	20	67.5						
315S	≥ 4	508	406	216	315	28	80	170	22	71	FF600	600	550	660	24	6
315M	≥ 4	508	457	216	315	28	80	170	22	71						
315L	≥ 4	508	508	216	315	28	80	170	22	71						
355M	≥ 4	610	560	254	355	28	95	170	25	86	FF740	740	680	800	24	6
355L	≥ 4	610	630	254	355	28	95	170	25	86						

※外形尺寸同 IMB3 External dimensions same as IMB3

外形及安装尺寸 Mounting dimension

IM B5、IM V1

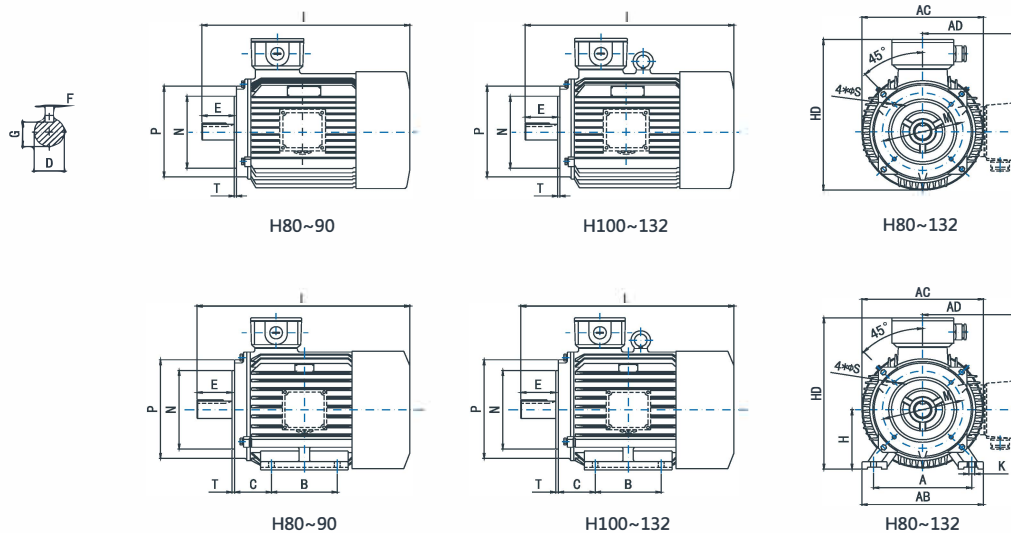


机座 Frame	级数 Poles	轴伸尺寸 Shaft				外形尺寸 External					凸缘尺寸 Flange									
		D	E	F	G	AC	AD	HF	L	LL	No.	M	N	P	S					
80M	≥2	19	40	6	15.5	175	145	—	305	—	FF165	165	130	200	12					
90S	≥2	24	50	8	20	195	165		360											
90L	≥2	24	50	8	20				390											
100L	≥2	28	60	8	24	215	180	245	435		FF215	215	180	250	14.5					
112M	≥2	28	60	8	24	240	190	265	470											
132S	≥2	38	80	10	33	275	210	315	510							FF265	265	230	300	14.5
132M	≥2	38	80	10	33				560											
160M	≥2	42	110	12	37	330	255	385	670		FF300	300	250	350	18.5					
160L	≥2	42	110	12	37				700											
180M	≥4	48	110	14	42.5	380	280	430	740	800										
180L	≥4	48	110	14	42.5				790	850										
200L	≥4	55	110	16	49	420	305	480	790	940						FF350	350	300	400	18.5
225S	≥4	60	140	18	53	470	335	535	830	905						FF400	400	350	450	18.5
225M	≥4	60	140	18	53				855	935										
250M	≥4	65	140	18	58	510	370	595	915	1015						FF500	500	450	550	18.5
280S	≥4	75	140	20	67.5	580	410	650	985	1150										
280M	≥4	75	140	20	67.5				1035	1385										
315S	≥4	80	170	22	71	645	530	900	—	1510	FF600	600	550	660	24					
315M	≥4	80	170	22	71					1620										
315L	≥4	80	170	22	71					1620										
355M	≥4	95	170	25	86	710	655	1010	—	1780	FF740	740	680	800	24					
355L	≥4	95	170	25	86					1780										

※ LL 尺寸为带防雨帽电机长度 LL is size of the motor length with rain hat

外形及安装尺寸 Mounting dimension

IM B14、IM B34



机座号 Frame	安装尺寸 Mounting					轴伸尺寸 Shaft				外形尺寸 External					凸缘尺寸 Flange					
	A	B	C	H	K	D	E	F	G	AB	AC	AD	HD	L	No.	M	N	P	S	T
80M	125	100	50	80	10	19	40	6	15.5	165	175	145	220	305	FT100	100	80	120	6	3.0
90S	140	100	56	90	10	24	50	8	20	180	195	165	260	360	FT115	115	95	140	8	3.0
90L	140	125	56	90	10	24	50	8	20	180	195	165	260	390	FT115	115	95	140	8	3.0
100L	160	140	63	100	12	28	60	8	24	205	215	180	275	435	FT130	130	110	160	8	3.5
112M	190	140	70	112	12	28	60	8	24	230	240	190	300	470	FT130	130	110	160	8	3.5

※轴伸尺寸同 IMB3 Shaft dimensions same as IMB3



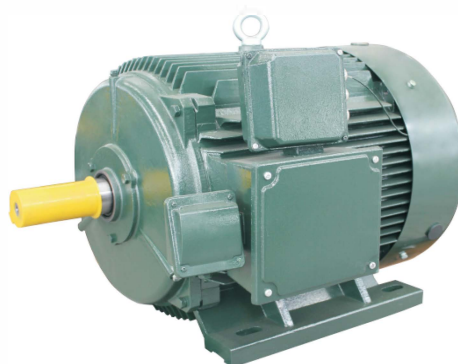
ZY-TYP系列变频超超高效永磁同步电机

TYP Series

Frequency Variable Ultra
Premium Efficiency
Permanent Magnet
Synchronous Motor

IE4

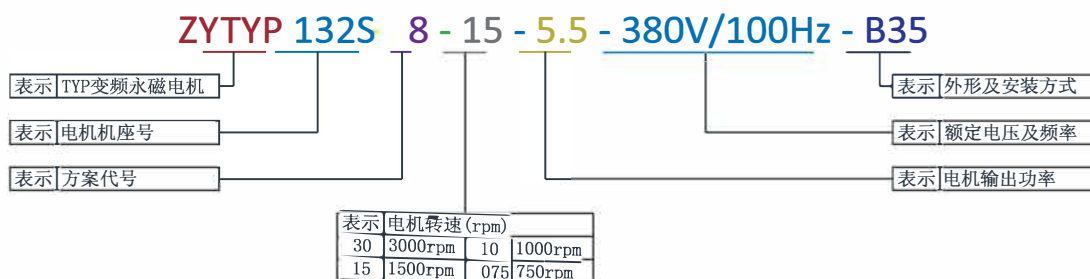
IC411



概述	Summary
额定功率: 1.1~315kW	Rate Power: 1.1~315kW
机座号: H90~H355	Frame Size: H90~H355
转速: 500~3000rpm	Speed: 500~3000rpm
防护等级: IP55	Protection Degree: IP55
绝缘等级: F	Insulation Class: F
冷却方式: IC411	Cooling Method: IC411
工作制: S1 连续工作制	Duty: S1
能效等级: GB18613-2012 1 级	Efficiency Class: IEC60034-30-1:IE4
与 YE3 系列可互换的同等机座号	With the same frame as YE3 series
H90~H160 可选择铸铝机座	Aluminum Frame: H90~H160
可选择更为紧凑的机座号	Narrow frame can be chosen

※外形及安装尺寸同 YE2 系列 Mounting dimensions the same as YE2

命名规则 Naming rules



产品技术数据 Technical data(380V/50Hz)

设计值 Design value

型号 Type	功率 Power kW	额定电流 Current A	额定频率 Frequency Hz	额定转速 Speed rpm	效率 EFF. %	功率因数 P.F.	额定转矩 RT N·m
额定转速3000rpm							
TYP-80M1-6-30	0.75	1.4	150	3000	83.5	0.98	2.4
TYP-80M2-6-30	1.1	2.0	150	3000	85.2	0.98	3.5
TYP-90S-6-30	1.5	2.7	150	3000	86.5	0.98	4.8
TYP-90L-6-30	2.2	3.9	150	3000	88.0	0.98	7.0
TYP-100L-6-30	3	5.2	150	3000	89.1	0.98	9.6
TYP-112M-6-30	4	6.9	150	3000	90.0	0.98	12.7
TYP-132S1-6-30	5.5	9.4	150	3000	90.9	0.98	17.5
TYP-132S2-6-30	7.5	12.7	150	3000	91.7	0.98	23.9
TYP-160M1-6-30	11	18.4	150	3000	92.6	0.98	35.0
TYP-160M2-6-30	15	24.9	150	3000	93.3	0.98	47.8
TYP-160L-6-30	18.5	30.6	150	3000	93.7	0.98	58.9
TYP-180M-6-30	22	36.3	150	3000	94.0	0.98	70.0
TYP-200L1-8-30	30	49.2	200	3000	94.5	0.98	95.5
TYP-200L2-8-30	37	60.5	200	3000	94.8	0.98	117.8
TYP-225M-8-30	45	73.4	200	3000	95.0	0.98	143.3
TYP-250M-8-30	55	89.5	200	3000	95.3	0.98	175.1
TYP-280S-8-30	75	122	200	3000	95.6	0.98	238.8
TYP-280M-8-30	90	146	200	3000	95.8	0.98	286.5
TYP-315S-8-30	110	178	200	3000	96.0	0.98	350.2
TYP-315M-8-30	132	213	200	3000	96.2	0.98	420.2
TYP-315L1-8-30	160	258	200	3000	96.3	0.98	509.3
TYP-315L2-8-30	200	321	200	3000	96.5	0.98	636.7
TYP-355M1-8-30	220	354	200	3000	96.5	0.98	700.3
TYP-355M2-8-30	250	402	200	3000	96.5	0.98	795.8
TYP-355L1-8-30	280	450	200	3000	96.5	0.98	891.3
TYP-355L2-8-30	315	506	200	3000	96.5	0.98	1002.8
额定转速1500rpm							
TYP-80M1-8-15	0.55	1.0	100	1500	83.9	0.98	3.5
TYP-80M2-8-15	0.75	1.4	100	1500	85.7	0.98	4.8
TYP-90S-8-15	1.1	2.0	100	1500	87.2	0.98	7.0
TYP-90L-8-15	1.5	2.6	100	1500	88.2	0.98	9.6
TYP-100L1-8-15	2.2	3.8	100	1500	89.5	0.98	14.0
TYP-100L2-8-15	3	5.1	100	1500	90.4	0.98	19.1
TYP-112M-8-15	4	6.8	100	1500	91.1	0.98	25.5
TYP-132S-8-15	5.5	9.3	100	1500	91.9	0.98	35.0
TYP-132M-8-15	7.5	12.6	100	1500	92.6	0.98	47.8
TYP-160M-8-15	11	18.3	100	1500	93.3	0.98	70.0
TYP-160L-8-15	15	24.8	100	1500	93.9	0.98	95.5

产品技术数据 Technical data(380V/50Hz)

设计值 Design value

型号 Type	功率 Power kW	额定电流 Current A	额定频率 Frequency Hz	额定转速 Speed rpm	效率 EFF. %	功率因数 P.F.	额定转矩 RT N·m
额定转速1500rpm							
TYP-180M-8-15	18.5	30.4	100	1500	94.2	0.98	117.8
TYP-180L-8-15	22	36.1	100	1500	94.5	0.98	140.1
TYP-200L-8-15	30	49.0	100	1500	94.9	0.98	191.0
TYP-225S-8-15	37	60.3	100	1500	95.2	0.98	235.6
TYP-225M-8-15	45	73.1	100	1500	95.4	0.98	286.5
TYP-250M-8-15	55	89.1	100	1500	95.7	0.98	350.2
TYP-280S-8-15	75	121	100	1500	96.0	0.98	477.5
TYP-280M-8-15	90	145	100	1500	96.1	0.98	573.0
TYP-315S-8-15	110	177	100	1500	96.3	0.98	700.3
TYP-315M-8-15	132	212	100	1500	96.4	0.98	840.4
TYP-315L1-8-15	160	257	100	1500	96.6	0.98	1018.7
TYP-315L2-8-15	200	321	100	1500	96.7	0.98	1273.3
TYP-355M1-8-15	220	353	100	1500	96.7	0.98	1400.7
TYP-355M2-8-15	250	401	100	1500	96.7	0.98	1591.7
TYP-355L1-8-15	280	449	100	1500	96.7	0.98	1782.7
TYP-355L2-8-15	315	505	100	1500	96.7	0.98	2005.5
额定转速1000rpm							
TYP-90S-8-10	0.75	1.4	66.7	1000	82.7	0.98	7.2
TYP-90L-8-10	1.1	2.0	66.7	1000	84.5	0.98	10.5
TYP-100L-8-10	1.5	2.7	66.7	1000	85.9	0.98	14.3
TYP-112M-8-10	2.2	3.9	66.7	1000	87.4	0.98	21.0
TYP-132S-8-10	3	5.2	66.7	1000	88.6	0.98	28.7
TYP-132M1-8-10	4	6.9	66.7	1000	89.5	0.98	38.2
TYP-132M2-8-10	5.5	9.4	66.7	1000	90.5	0.98	52.5
TYP-160M-8-10	7.5	12.7	66.7	1000	91.3	0.98	71.6
TYP-160L-8-10	11	18.5	66.7	1000	92.3	0.98	105.1
TYP-180L-8-10	15	25.0	66.7	1000	92.9	0.98	143.3
TYP-200L1-12-10	18.5	30.7	100	1000	93.4	0.98	176.7
TYP-200L2-12-10	22	36.4	100	1000	93.7	0.98	210.1
TYP-225M-12-10	30	49.4	100	1000	94.2	0.98	286.5
TYP-250M-12-10	37	60.7	100	1000	94.5	0.98	353.4
TYP-280S-12-10	45	73.6	100	1000	94.8	0.98	429.8
TYP-280M-12-10	55	89.7	100	1000	95.1	0.98	525.3
TYP-315S-12-10	75	122	100	1000	95.4	0.98	716.3
TYP-315M-12-10	90	146	100	1000	95.6	0.98	859.5
TYP-315L1-12-10	110	178	100	1000	95.8	0.98	1050.5
TYP-315L2-12-10	132	213	100	1000	96.0	0.98	1260.6

产品技术数据 Technical data(380V/50Hz)

设计值 Design value

型号 Type	功率 Power kW	额定电流 Current A	额定频率 Frequency Hz	额定转速 Speed rpm	效率 EFF. %	功率因数 P.F.	额定转矩 RT N·m
额定转速1000rpm							
TYP-355M1-12-10	160	258	100	1000	96.2	0.98	1528.0
TYP-355M2-12-10	185	298	100	1000	96.3	0.98	1766.8
TYP-355M3-12-10	200	322	100	1000	96.3	0.98	1910.0
TYP-355L1-12-10	220	353	100	1000	96.5	0.98	2101.0
TYP-355L2-12-10	250	402	100	1000	96.5	0.98	2387.5
额定转速750rpm							
TYP-132S-8-7.5	2.2	4.0	50	750	84.5	0.98	28.0
TYP-132M-8-7.5	3	5.4	50	750	85.9	0.98	38.2
TYP-160M1-8-7.5	4	7.1	50	750	87.1	0.98	50.9
TYP-160M2-8-7.5	5.5	9.7	50	750	88.3	0.98	70.0
TYP-160L-8-7.5	7.5	13.0	50	750	89.3	0.98	95.5
TYP-180L-8-7.5	11	18.9	50	750	90.4	0.98	140.1
TYP-200L-12-7.5	15	25.5	75	750	91.2	0.98	191.0
TYP-225S-12-7.5	18.5	31.3	75	750	91.7	0.98	235.6
TYP-225M-12-7.5	22	37.0	75	750	92.1	0.98	280.1
TYP-250M-12-7.5	30	50.2	75	750	92.7	0.98	382.0
TYP-280S-12-7.5	37	61.6	75	750	93.1	0.98	471.1
TYP-280M-12-7.5	45	74.7	75	750	93.4	0.98	573.0
TYP-315S-12-7.5	55	91.0	75	750	93.7	0.98	700.3
TYP-315M-12-7.5	75	123	75	750	94.2	0.98	955.0
TYP-315L1-12-7.5	90	148	75	750	94.4	0.98	1146.0
TYP-315L2-12-7.5	110	180	75	750	94.7	0.98	1400.7
TYP-355M1-12-7.5	132	216	75	750	94.9	0.98	1680.8
TYP-355M2-12-7.5	160	261	75	750	95.1	0.98	2037.3

ZY-TYF系列变频超超高效永磁同步电机

TYF Series

Frequency Variable Ultra
Premium Efficiency
Permanent Magnet
Synchronous Motor

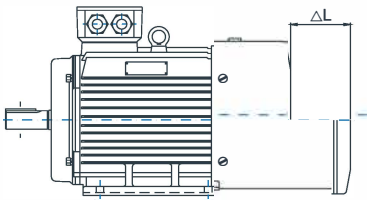
IE4

IC416



TVF 系列电机配置有独立驱动风扇:	For TVF series, separately driven fan is configured:
电动机在低速运行时, 降低电动机温升	To reduce the motor temperature rise at low speed
电动机在明显的高速运行时, 降低电动机噪音	To reduce the motor noise at significantly high speed
当安装独立驱动风扇时, 电动机的长度将增加 ΔL 。	When the separately driven fan is mounted, the length of the motor increase by ΔL .
技术参数同 TYP 系列	Parameters the same with TYP series

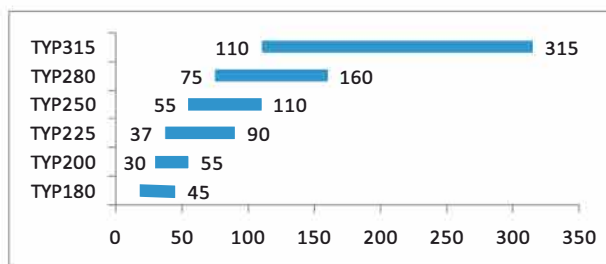
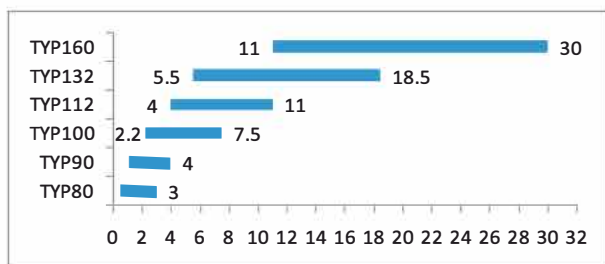
独立风机参数
Technical data for separately fan



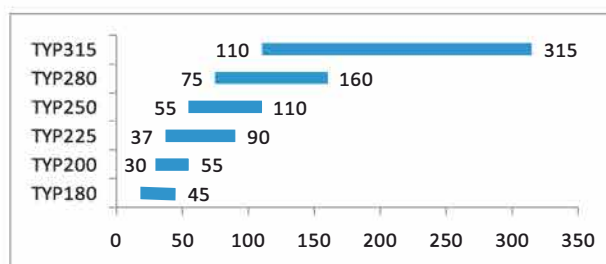
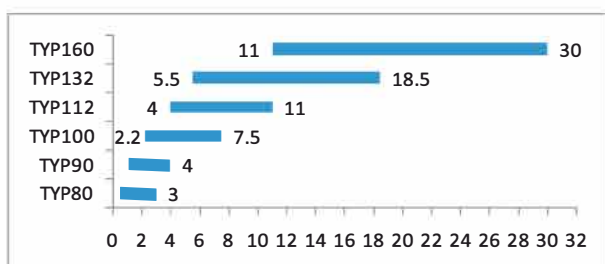
机座 Frame Size	90	100	112	132	160	180	200	225	250	280	315	355
功率 Output (W)	30	50	50	50	80	80	200	200	250	250	370	550
ΔL (mm)	110	115	130	130	125	120	170	175	175	240	270	270

ZY-TYP、TYF系列功率分布 TYP、TYF series power distribution

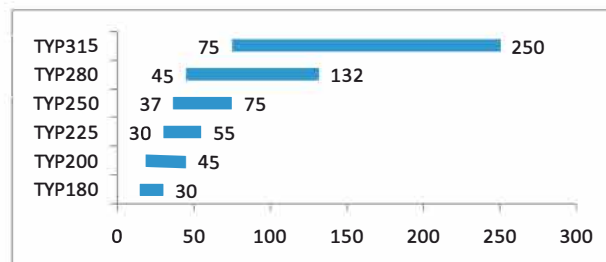
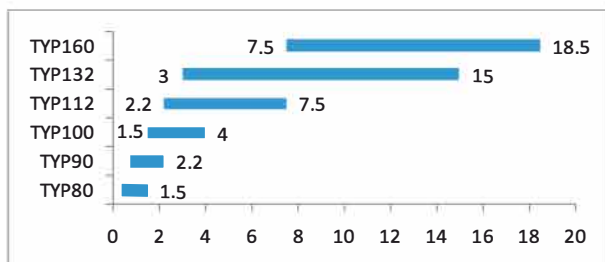
(■kW) 3000rpm:



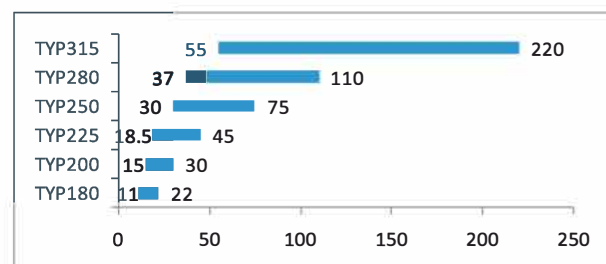
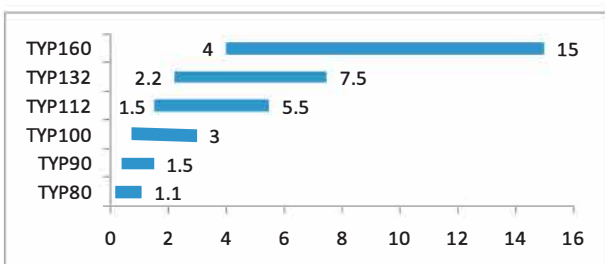
1500rpm:



1000rpm:



750rpm:



Tz 系列变频永磁同步直驱电机

Tz Series

Frequency Variable
Permanent Magnet
Synchronous Direct-drive
Motor

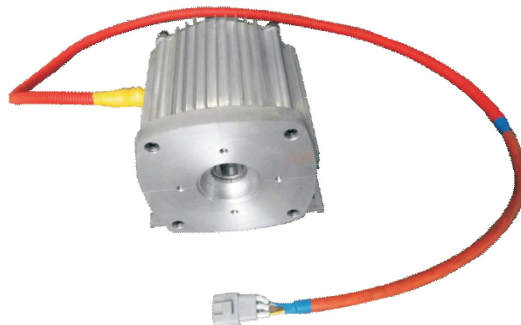
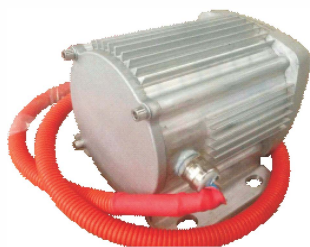
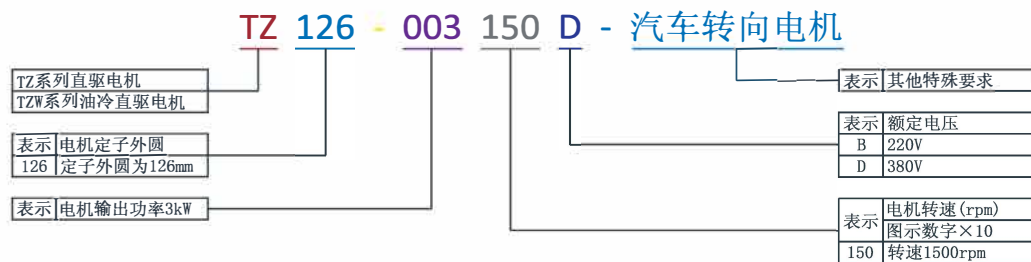
IE4

IC01、IC81W



可高度定制的电机电参数	Customized motor parameters
额定功率: 1.1~315kW	Rate Power: 1.1~315kW
定子外径: 130~520mm	Outer circle of stator: 130~520mm
转速: 0~800rpm	Speed: 0~800rpm
冷却方式: 自然冷却、水冷、油冷	Cooling Method: Natural, water, oil
技术参数请咨询公司技术部门	Technical parameters, please consult the technical department

命名规则 Naming rules



TYC系列压缩机专用变频永磁同步一体机



TYC Series

Frequency Variable
Permanent Magnet
Synchronous Motor
For Compressor

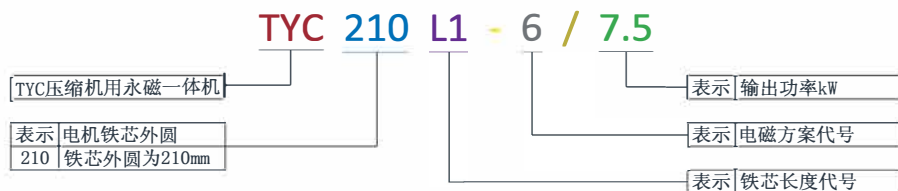
IE4

IP23

规格型号 Frame Size	TYC210		TYC260		TYC368	
	L1-6/7.5	L2-6/11	L1-6/15	L2-6/22	L1-6/30	L2-6/37
额定转速 Rated speed	3000rpm	3000rpm	3000rpm	3000rpm	3000rpm	3000rpm
额定频率 Rated frequency	150Hz	150Hz	150Hz	150Hz	150Hz	150Hz
额定功率 Rated power	7.5kW	11kW	15kW	22kW	30kW	37kW
额定电压 Rated voltage	380V	380V	380V	380V	380V	380V
额定电流 Rated current	12.8A	18.6A	25.2A	36.7A	49.7A	61.1A
效率 Efficiency (%)	91.7	92.6	93.3	94	94.5	94.8

规格型号 Frame Size	TYC368			TYC400		
	L3-6/45	L4-6/55	L5-6/75	L1-6/90	L2-6/110	L3-6/132
额定转速 Rated speed	3000rpm	3000rpm	3000rpm	3000rpm	3000rpm	3000rpm
额定频率 Rated frequency	150Hz	150Hz	150Hz	150Hz	150Hz	150Hz
额定功率 Rated power	45kW	55kW	75kW	90kW	110kW	132kW
额定电压 Rated voltage	380V	380V	380V	380V	380V	380V
额定电流 Rated current	74.2A	90.4A	123A	147A	180A	215A
效率 Efficiency (%)	95	95.3	95.6	95.8	96	96.2

命名规则 Naming rules



变频器产品概述

Basic knowledge for Inverter

优化的矢量算法

基于高速芯片全新的电流矢量算法，带来更高的运算速度，更精确的频率输出，更敏捷的力矩响应，实现低频下大扭矩输出和低速平稳运行。



高可靠性

采用国际知名品牌的元器件，大余量设计，保证变频器的高过载能力和高可靠性。

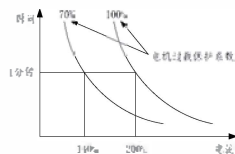
加厚三防漆工艺，可保证变频器防尘防潮能力。

全面的电机保护功能

短路保护/过流保护，输出电流超过额定电流的 2 倍以上，变频器自动切断输出。

过热保护，变频器模拟量输入可接电机温度传感器输入实现电机过热保护。

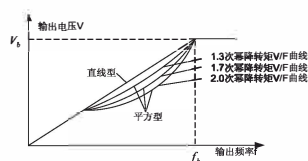
过压保护，母线直流电压过低或者过高时，电机自由停车。



节能控制功能

可根据负载和转速，始终向电机提供使其效率最高的输出，特别适合风机水泵类设备节能使用。

内置简易 PLC 及 16 段速任意次幂曲线可选择，能够最大限度的满足客户节能需求。



CE

全系列通过CE认证。

Optimized vector algorithm

Based on high speed chip and new optimizing current vector algorithm, the inverter has performances of more rapid speed, more accurate frequency output and more quickly torque response, to realize large output torque and running smoothly on low frequency.

High reliability

Based on international famous brand components and large margin design, the inverter has performances of high overload capacity and high reliability.

Fitted with thickened conformal Coating, dust proof ability of the inverter can be ensured.

Comprehensive protection function

Short circuit protection / over current protection: the converter is cut off automatically when the output current is more than 200% of the rated current.

Overheat protection: the temperature sensor input of motor can be connected to the analog input of the inverter to ensure the motor overheating protection.

Overvoltage protection: the motor will free park when the bus DC voltage is too low or too high.

Energy saving control function

The inverter can provide the premium efficiency output to the motor according to the load and speed, especially useful for the fan or pump.

Simple PLC and 16 segment speed have been fitted in the inverter to maximize the satisfaction of customers to meet the needs of energy.

CE

All series have CE certification.



通用矢量变频器



300 Series

Universal vector
frequency converter

220V: 0.4-7.5kW
380V: 0.75-500kW

LD300 系列通用矢量变频器，专为驱动异步电机，从而使客户达到节能和工艺提升的目的而设计，功率涵盖 0.4-500kW，强大的软件功能和完善的保护设计，使您的调速系统更加简洁可靠。

LD300 series converter is designed for induction motor, to save energy or improve process for customers, with powerful software function and perfect protection design.

功能特点及客户受益	Features & customer benefits
基于高速芯片的全新优化后的电流矢量算法，带来更高速的运算速度，更精确的频率输出，更敏捷的力矩响应，实现低频率下大扭矩输出和超低速平稳运行	Based on high speed chip and new optimizing current vector algorithm, the inverter has performances of more rapid speed, more accurate frequency output and more quickly torque response, to realize large output torque and running smoothly on low frequency.
采用 SPWM 方式，可降低电磁干扰并减小电机噪音	Swing PWM mode can reduce electromagnetic interference and motor noise.
高过载能力设计，用户更放心	High overload capacity makes the user more at ease.
自动转矩提升，满足您对输出转矩的要求	Automatic torque boost can meet requirements for output torque.
快速限流，避免变频器频繁出现过流故障	Fast current limit avoid frequent over current of inverter.
完善的保护功能，提高设备的可靠性	Perfect protection function improves the reliability.
自动电压调节(AVR)，当电网电压发生变化时，能自动保持输出电压的恒定，特别适合电网不稳定的场合	Because of automatic voltage regulation (AVR) the output voltage can automatically maintain a constant when the voltage changes.
瞬停不停，保证变频器在瞬间停电或电压突然降低时维持变频器短时间内继续运行	When the power is suddenly cut off or the voltage is suddenly reduced, the inverter can continue to operate in a short time.
内置 Modbus RS485，节约现场总线成本，提高可靠性	Modbus RS485 in inverter save the cost and improve the reliability.
内置 PID，提高设备的产能和精确度	PID in inverter improves the capacity and accuracy of the equipment.
加厚三防漆，保证变频器防尘防潮能力	Three thick paint process converter dust proof capacity assurance.
应用领域: 风机/水泵/压缩机/木工机械/陶瓷机械/工程机械/中央空调.....	Application: Fan / water pump / compressor / Woodworking Machinery / ceramic machinery / central air conditioning.....

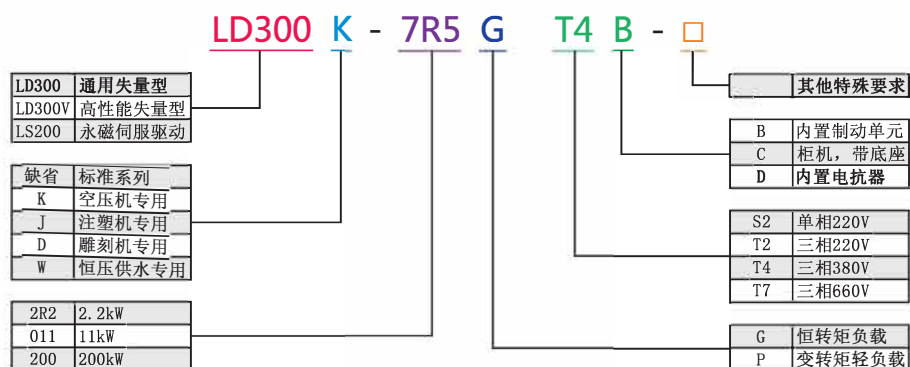
技术参数

	项目	规格
输入输出	模拟量输入	2 路/电压电流信号可切换, 电压 0~10V, 电流 0~20mA
	数字量输入	5 路/光耦隔离
	模拟量输出	2 路/电压输出范围 0~10V, 电流输出范围 0~20mA, 输出信号类型可切换
	数字量输出	2 路/光耦隔离//集电极开路输出/额定电流 20mA (DO1、DO2)
	数字脉冲输出	1 路/光耦隔离/集电极开路脉冲 (频率或 PWM) 输出
	继电器输出	2 路/常开常闭触点/250VAC-3A
	通讯方式	标准 MODBUS-485 通讯协议
控制特性	控制方式	V/F 控制; 无 PG 矢量控制(SVC)
	频率设定方式	键盘设定, 模拟量设定, 脉冲给定, 通讯给定等多种给定方式
	频率控制范围	0.01~500.00Hz
	频率控制精度	数字设定: 0.01Hz; 模拟设定: 最高频率×0.1%
	调速范围	1:200 (SVC); 1:50(V/F)
	稳速精度	±0.5% (SVC)
	加减速时间	1.0~3600.0s (加减速时间可分别设定, 可切换 S 特性)
	点动控制	点动频率范围: 0.00Hz~100.00Hz; 点动加减速时间: 0.0s~3600.0s
	启动转矩	0.5Hz 150% (SVC)可调节, 需考虑变频器容量; 3.0Hz 100% (V/F)
	转矩提升	自动转矩提升; 手动转矩提升 0.1%~30.0%可调
	制动转矩	刹车电阻制动 (125%), 直流制动 (20%)
	直流制动	制动时间: 0.0s~36.0s; 制动电流: 0.0%~100.0%
	定时控制	定时范围 0.0min~6500min
	PID 控制	内置 PID 功能, 可方便实现过程闭环控制
	V/F 曲线	直线型、多点自定义曲线、1.1~2.0 任意降幂曲线
	多段速控制	内置简易 PLC 可以完成对最大 16 段速频率逻辑进行控制
	载波可调	1.0~16.0kHz 可调, 可根据模块温度调整
保护功能	频率设定信号	-10~+10、0~+10、4~20mA、高频脉冲、PWM 脉冲
	过载能力	G:150% 60s 200% 2s; P:120% 60s 150% 1s
	瞬间过流/短路保护	额定输出电流的 200%以上, 自动切断输出
	过压/欠压保护	母线直流电压过低(360V)或者过高(800V)时, 电机自由停车 (制动时例外)
	缺相保护	输入或输出端缺相时, 电机自由停车
	过热保护	散热器温度≥85℃时, 电机自由停车; 温度保护阈值可根据环境温度自由设定
	电机保护	模拟量输入可接温度传感器输入 (PT100、PT1000) 实现电机过热保护
	失速防护	加减速中防止失速、运行中防止失速 (动作电流可设定)
	接地保护	利用电流传感器检测
规格结构	瞬停不停	通过负载回馈能量补偿电压降低, 维持变频器短时间内持续运行
	额定输入	电压: 1/3PH 220V ± 20% ; 3PH 380V ± 20%; 频率: 50Hz/60Hz ± 5%
	冷却及防护	≤18.5kW: IP20 ; >18.5kW: IP10; 强制风冷
	使用环境	温度: -10℃~+40℃; 海拔: 不高于 1000m; 室内, 无腐蚀性气体
	保存环境	温度: -20℃~+65℃; 湿度: 20~90%RH (无凝露); 震动小于 6m/s ² (0.6g)

Technical parameters

Item	Specifications
Analog input	2 / voltage current signal switched, voltage 0 ~ 10V, current 0 ~ 20mA
Digital input	5 / optocoupler
Analog output	2 / voltage current signal switched, voltage 0 ~ 10V, current 0 ~ 20mA
Digital output	2 / optocoupler / / open collector output / rated current 20mA (DO1, DO2)
Digital pulse output	1 / optocoupler / open collector optocoupler (frequency or PWM)
Relay output	2 / normally open normally closed contact /250VAC-3A
Communication	Standard MODBUS-485 communication protocol
control mode	V/F; No feedback vector control (SVC)
Frequency setting	Keyboard, analog, pulse, communication.....
Frequency range	0.01~500.00Hz
Frequency accuracy	Digital setting: 0.01Hz; simulation setting: max frequency x 0.1%
Speed range	1:200 (SVC); 1:50(V/F)
Steady speed precision	±0.5% (SVC)
Plus deceleration time	1.0~3600.0s
Point motion control	Range: 0.00Hz~100.00Hz; deceleration time: 0.0s~3600.0s
Starting torque	0.5Hz 150% (SVC); 3.0Hz 100% (V/F)
Torque boost	Automatic; manual range: 0.1%~30.0%
Brake torque	Brake resistance (125%), DC brake (20%)
DC brake	Brake time: 0.0s~36.0s; brake current: 0.0%~100.0%
Timing control	0.0min~6500min
PID control	Standard built in
V/F curve	Straight line type, multi point
Multi speed control	Simple PLC can complete 16 segment speed control
Adjustable carrier	1 ~ 16.0kHz; or adjusted according to the temperature of the module
Frequency setting signal	-10~+10、0~+10、4~20mA、high frequency pulse、 PWM pulse
Overload capacity	G:150% 60s 200% 2s; P:120% 60s 150% 1s
Current protection	Automatically cut off while output current of more than 200%,
Voltage protection	Free to stop when the DC voltage is too low (360V) or too high (800V)
Lack of phase protection	Free to stop when the phase of the input or output is missing
Overheat protection	Free to stop when the radiator temperature is greater than 85℃
Motor protection	Analog input can be connected to the temperature sensor
Stall protection	Action current can be set
Grounding protection	Current sensor detection
Instant stop	Maintain the converter in a short period of time
Rated input	1/3PH 220V ± 15% ; 3PH 380V ± 15%; 50Hz/60Hz ± 5%
Cooling and protection	≤18.5kW: IP20 ; >18.5kW: IP10; Forced air cooling
Use environment	-10℃~+40℃; altitude ≤ 1000m; indoor, non corrosive gas
Save environment	-20℃~+65℃; 20~90%RH(no condensation); vibration ≤ 6m/s2(0.6g)

规格型号 Type



规格型号 Type	输入电流	输出电流	输出功率	适配电机	制动单元 brake unit
	Input current	Output current	Output power	Motor power	
	A	A	kW	kW	
■单/三相 220V, 50/60Hz					
LD300-0R4G-S2/T2B	7/4	2.5	0.4	0.4	标准内置 Standard built in
LD300-0R7G-S2/T2B	14/8	4.9	0.75	0.75	
LD300-1R5G-S2/T2B	21/12	7.5	1.5	1.5	
LD300-2R2G-S2/T2B	30/18	11	2.2	2.2	
■三相 380V, 50/60Hz					
LD300-0R7G-T4B	3.7	2.1	0.75	0.75	标准内置 Standard built in
LD300-1R5G-T4B	5.1	3.8	1.5	1.5	
LD300-2R2G-T4B	5.9	5	2.2	2.2	
LD300-4R0G-T4B	14	9.5	4	4	标准内置 Standard built in
LD300-5R5G-T4B	20	14	5.5	5.5	
LD300-7R5G-T4B	25	18	7.5	7.5	
LD300-011G-T4B	32	25	11	11	标准内置 Standard built in
LD300-015G-T4B	42	34	15	15	
LD300-018G-T4B	48	41	18.5	18.5	
LD300-022G-T4	56	45	22	22	外置(选配) External (optional)
LD300-030G-T4	73	62	30	30	
LD300-037G-T4	80	75	37	37	
LD300-045G-T4	96	92	45	45	外置(选配) External (optional)
LD300-055G-T4	128	115	55	55	
LD300-075G-T4	165	155	75	75	
LD300-090G-T4	195	186	90	90	外置(选配) External (optional)
LD300-110G-T4	225	214	110	110	
LD300-132G-T4	265	256	132	132	
LD300-160G-T4	310	302	160	160	外置(选配) External (optional)
LD300-185G-T4	353	345	185	185	
LD300-200G-T4	395	387	200	200	
LD300-220G-T4	435	425	220	220	外置(选配) External (optional)
LD300-250G-T4	480	470	250	250	
LD300-280G-T4	540	530	280	280	
LD300-315G-T4	615	605	315	315	外置(选配) External (optional)
LD300-355G-T4	665	650	355	355	
LD300-400G-T4	780	750	400	400	
LD300-450G-T4	835	810	450	450	外置(选配) External (optional)
LD300-500G-T4	890	860	500	500	

外形 Appearance

FIG.1 塑壳壁挂式:0.4-18.5kW Plastic, wall type

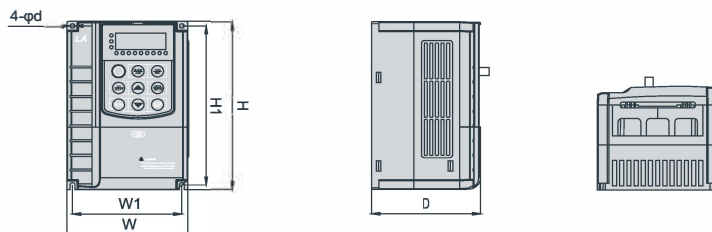


FIG.2 铁壳壁挂式:22-500kW Steel, wall type

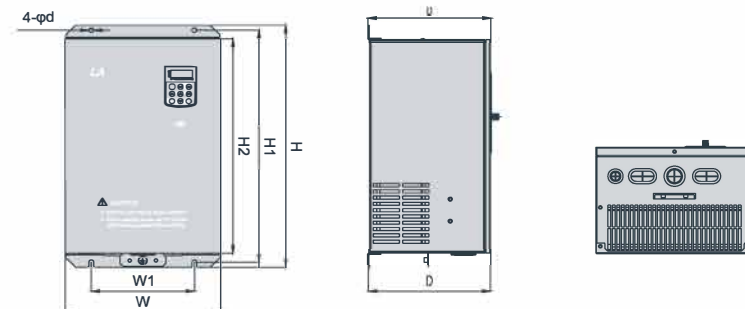
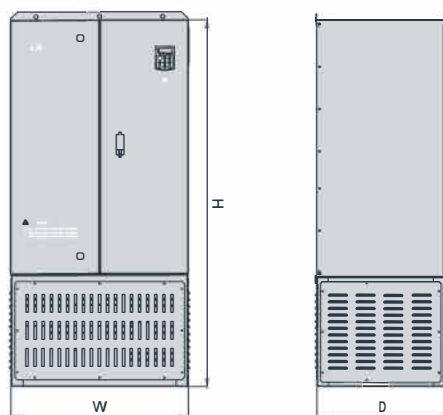


FIG.3 铁壳柜式:90-500kW 可加装底座变为柜式变频器，需在订货时在规格型号后加 C 说明。
Iron cabinet , can be added into the base cabinet inverter, the models with C.



安装尺寸 Installation dimension

规格型号 Type	外形尺寸 mm			安装尺寸 mm			安装孔径 mm	外壳类型 Shell type
	Appearance			Mounting dimension			Mounting aperture	
	H	W	D	H1	H2	W1	d	

■ 单/三相 220V, 50/60Hz

LD300-0R4G-S2/T2B	185	118	157	175	—	107	4.5	塑壳 壁挂式 Plastic wall type
LD300-0R7G-S2/T2B								
LD300-1R5G-S2/T2B								
LD300-2R2G-S2/T2B								

■ 三相 380V, 50/60Hz

LD300-0R7G-T4B	185	118	157	175	—	107	4.5	塑壳 壁挂式 Plastic wall type
LD300-1R5G-T4B								
LD300-2R2G-T4B								
LD300-4R0G-T4B	247	160	178	235	—	148	5.5	塑壳 壁挂式 Plastic wall type
LD300-5R5G-T4B								
LD300-7R5G-T4B								
LD300-011G-T4B	320	220	197	306	—	205	6	塑壳 壁挂式 Plastic wall type
LD300-015G-T4B								
LD300-018G-T4B								
LD300-022G-T4	460	280	230	450	430	240	7	铁壳 壁挂式 Iron wall type
LD300-030G-T4								
LD300-037G-T4								
LD300-045G-T4	600	380	270	580	550	260	10	铁壳 壁挂式 Iron wall type
LD300-055G-T4								
LD300-075G-T4								
LD300-090G-T4	700 (950)	470	310	680	660	340	10	铁壳 壁挂式 Iron wall type
LD300-110G-T4								
LD300-132G-T4								
LD300-160G-T4	930 (1050)	580	380	900	880	450	10	铁壳 壁挂式 Iron wall type
LD300-185G-T4								
LD300-200G-T4								
LD300-220G-T4	1060 (1350)	650	380	1030	980	470	12	铁壳 壁挂式 Iron wall type
LD300-250G-T4								
LD300-280G-T4								
LD300-315G-T4	1300 (1700)	800	400	1300	1200	520	16	铁壳 壁挂式 Iron wall type
LD300-355G-T4								
LD300-400G-T4								
LD300-450G-T4								
LD300-500G-T4								

※括号内为带底座铁壳柜式高度 The brackets for a steel cabinet height

LD300V系列高性能矢量变频器



LD300V Series

High performance
vector frequency
converter

380V: 0.75-500kW

LD300V 系列高性能矢量变频器,为满足客户多种驱动要求,实现全能性控制而设计。可适用于异步电机、永磁电机的矢量控制、开环控制和转距控制,为客户提供更加专业可靠的行业解决方案,同时具备了高性能、高可靠性和高度灵活性。

LD300V series vector inverter is designed for meeting customer requirements and universal control. It can provide more professional and reliable solution to customers with high performance, reliability and flexibility.

功能特点及客户受益(与 LD300 系列的差别)	Features & customer benefits(difference with LD300)
丰富的控制方式: V/F、无 PG 矢量控制(SVC)、有 PG 矢量控制(VC)、转矩控制(TC)	Rich control mode: V/F, no PG vector control (SVC), PG vector control (VC), torque control (TC).
支持多种电机控制: 异步电动、永磁同步电动机	Multiple motor controls: asynchronous motor, PMSM.
支持多种反馈: 差分编码器、开路集电极编码器、UVW 编码器、旋转变压器	Multiple feedbacks: differential encoder, open collector encoder, UVW encoder, rotary transformer.
控制精度更高(VC): 调速范围 1:1000; 稳速精度 $\pm 0.02\%$; 转矩控制精度 $\pm 5\%$	Higher control precision (VC): speed regulation range 1:1000; steady speed precision $\pm 0.02\%$; torque control precision $\pm 5\%$.
输入更方便: 3 路模拟量输入	More convenient input: 3 analog inputs.
内置 2 路 PID, 可通过端子切换或根据偏差自动切换	Built in 2 PID, which can be switched automatically by terminal switch or by deviation.
更优越的瞬态电流和电压控制	Superior transient current and voltage control.
丰富的应用功能: 改进转速跟踪, 可以平滑启动自由滑行中的电机; 直流制动, 实现快速准确停机; 过流降频, 实现负载自动适应(挖土机特性); 瞬停不停, 避免电网电压瞬时波动的影响。	More improved applications: speed tracking, smoothly start free coasting motor; DC brake, fast and accurate stop; reduce frequency when current is over, achieve load automatically adaptive (excavator characteristics).
应用领域: 压缩机/注塑机/纺织机械/提升设备/机床主轴/电工机械/包装输送.....	Application: compressor / injection molding / textile / lifting equipment / electrical machinery / packaging delivery.....

※LD300V 系列外形及安装尺寸同 LD300 系列 Appearance and installation dimensions same with LD300 series

LD300VJ系列电液伺服驱动器

LD300VJ series electro hydraulic servo driver

应用于注塑机、吹塑机、塑料挤出机、油压机等：

Suitable for injection molding machine, plastic extrusion machine, hydraulic press, etc.

- ◎ 低频率大扭矩输出，控制精度高，稳速能力强；
- ◎ 加减速时间短，响应速度快；
- ◎ 集成多段速控制，可与流量、压力设定叠加信号给出频率信号；
- ◎ 专业扩展卡丰富，可与各种系统完美匹配；
- ◎ 内置直流电抗器，提高对电网的适应能力；



- ◎ High torque output on low frequency;
- ◎ Acceleration and deceleration time is short, fast response;
- ◎ Integrated multi speed control, frequency signal output from superposition of flow and pressure signals;
- ◎ Rich professional cards, perfect matching with various systems;
- ◎ Integrated DC reactor, improve the adaptability to power grid.



LD300K、LD300VK系列压缩机专用变频器

LD300K, LD300VK series converter for compressor

应用于螺杆空压机、制冷压缩机等：

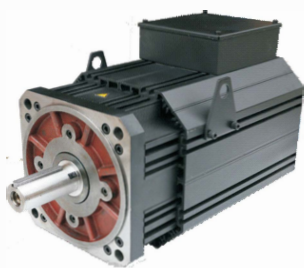
Suitable for screw air compressor, refrigeration compressor, etc.

- ◎ 根据实际用气量自动调节电机转速，节能高效；
- ◎ 在用气量低的时候，可启用休眠唤醒功能，达到最大的节能目的；
- ◎ 启动电流小，对电网冲击小，减少机械损耗和噪音；
- ◎ 内置 PID 调节器，能对压力实现快速调节控制，提高气压稳定性；
- ◎ 可选择内置空压机控制程序、双变频控制程序。

- ◎ Speed adjustment according to the actual gas consumption, high efficiency;
- ◎ Sleep function save largest energy when the need of gas is low;
- ◎ Small starting current, small impact on the power grid, reduce the mechanical loss and mechanical noise;
- ◎ Integrated PID regulator, rapidly adjust pressure, improve the stability of gas pressure;
- ◎ Integrated air compressor control program, dual frequency control can be choose.

S系列永磁同步伺服电机**S series servo motor**

380V: 4~90kW

**完善的产品系列 Perfect product series**

额定电压 Rated voltage : 220V、380V

额定功率 Rated power : 4~90kW

额定转矩 Rated torque : 29~511Nm

额定转速 Rated speed : 1000~3000rpm

法兰止口 Flange : 180、250

支持用户可选择订制设计 Customized

可选择多种编码器类型 Various encoder

转速或转矩 Specific speed or torque

安装方式 Various installation modes

风冷、水冷 Air cooling, water cooling

内埋键 Built-in keyway

**高可靠的标准设计 High reliability standard design**

高性能钕铁硼磁钢 High performance NdFeB magnet

高性能低损耗矽钢片 Low loss silicon steel sheet

绝缘等级 Insulation class : F

防护等级 Protection degree : IP55

测温元件 Temperature sensor : KTY, PTC130

标配多摩川旋变 Rotary transformer : Tamagawa

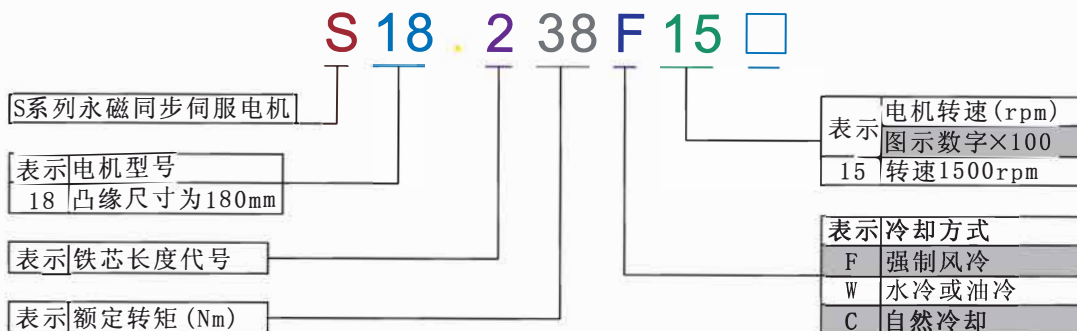
标配 EBM 离心风机 Centrifugal fan : EBM :

S18 : 230V , 53W , 2350rpm ;

S25 : 230V , 135W , 2650rpm

环境温度 Environment temperature : -20℃~+40℃

环境湿度 Environment humidity : < 90%

规格型号 Type:

S18 Servo motor technical parameters (380V, S3)

规格型号 Type	S18.□	238 F15	239 F17	242 F20	355 F15	357 F17	358 F20	474 F15	480 F17	487 F20
额定转矩 Rated torque	N.m	38	39	42	55	57	58	74	80	87
峰值转矩 Max torque	N.m	78	79	80	112	116	117	155	156	159
额定转速 Rated speed	rpm	1500	1700	2000	1500	1700	2000	1500	1700	2000
最大转速 Max speed	rpm	1950	2150	2450	1950	2150	2450	1950	2150	2450
额定频率 Rated frequency	Hz	100	113.3	133.3	100	113.3	133.3	100	113.3	133.3
额定电压 Rated voltage	V	380	380	380	380	380	380	380	380	380
额定电流 Rated current	A	12.2	14	18	17.2	20	24	23.5	28	36.5
额定功率 Rated power	kW	6	6.9	8.8	8.6	10.1	12.1	11.6	14.2	18.2
反电动势常数(1000rpm) Ke	V	204.5	179.8	153.5	209.7	183.6	158.6	206.5	184.3	156.8
转矩常数 Kt	N.m/A	3.11	2.78	2.33	3.19	2.85	2.41	3.14	2.85	2.38
绕组电阻 Winding resistance	Ω	1.32	0.812	0.618	0.941	0.681	0.573	0.604	0.505	0.654
绕组电感 Winding inductance	mH	15.3	11.8	8.6	13.2	10.3	7.4	11.6	9.1	6.5
转子惯量 Rotor inertia	kg.m ²	0.005			0.009			0.013		
电机重量 Mass	kg	37			44			51		
B 尺寸 Length of B	mm	267			285			312		
L 尺寸 Length of L	mm	428			466			503		

规格型号 Type	S18.□	5103 F15	596 F17	596 F20	6128 F15	6128 F17	6135 F20	8186 F15	8164 F17	8175 F20
额定转矩 Rated torque	N.m	103	96	96	128	128	135	186	164	175
峰值转矩 Max torque	N.m	216	217	219	281	281	288	391	392	392
额定转速 Rated speed	rpm	1500	1700	2000	1500	1700	2000	1500	1700	2000
最大转速 Max speed	rpm	1950	2150	2450	1950	2150	2450	1950	2150	2450
额定频率 Rated frequency	Hz	100	113.3	133.3	100	113.3	133.3	100	113.3	133.3
额定电压 Rated voltage	V	380	380	380	380	380	380	380	380	380
额定电流 Rated current	A	32	33.5	39.5	40	41.5	51.5	56.6	54	71
额定功率 Rated power	kW	16.2	17.1	20.1	20.1	22.8	28.3	29.2	29.2	36.7
反电动势常数 (1000rpm) Ke	V	211	182.5	160	210	197.8	173.2	216	189.9	161.9
转矩常数 Kt	Nm/A	3.21	2.86	2.43	3.2	3.1	2.62	3.28	3.03	2.46
绕组电阻 Winding resistance	Ω	0.406	0.312	0.233	0.352	0.261	0.181	0.222	0.183	0.154
绕组电感 Winding inductance	mH	9.8	7.6	5.5	7.7	6.1	4.3	6.2	4.8	3.5
转子惯量 Rotor inertia	kg.m ²	0.017			0.021			0.025		
电机重量 Mass	kg	58			65			80		
B 尺寸 Length of B	mm	354			396			471		
L 尺寸 Length of L	mm	541			583			658		

S25 Servo motor technical parameters (380V, S3)

规格型号 Type	S25.□	3180 F15	3180 F17	3215 F20	4230 F15	4229 F17	4269 F20	5267 F15	5270 F17	5269 F20
额定转矩 Rated torque	N.m	180	180	215	230	229	269	267	270	269
峰值转矩 Max torque	N.m	396	395	397	483	486	482	561	562	562
额定转速 Rated speed	rpm	1500	1700	2000	1500	1700	2000	1500	1700	2000
最大转速 Max speed	rpm	1950	2150	2450	1950	2150	2450	1950	2150	2450
额定频率 Rated frequency	Hz	100	113.3	133.3	100	113.3	133.3	100	113.3	133.3
额定电压 Rated voltage	V	380	380	380	380	380	380	380	380	380
额定电流 Rated current	A	51	58.8	82.5	68	78.9	103	80.9	93	103
额定功率 Rated power	kW	28.3	32.1	45	36.1	40.8	56.3	42	48	56.3
反电动势常数(1000rpm) Ke	V	230.5	195.2	171.3	221.8	185.3	172.2	216.6	185.6	167.9
转矩常数 Kt	Nm/A	3.52	3.06	2.6	3.38	2.9	2.6	3.3	2.9	2.61
绕组电阻 Winding resistance	Ω	0.16	0.12	0.085	0.102	0.082	0.065	0.089	0.067	0.046
绕组电感 Winding inductance	mH	3.7	2.9	2.1	3.1	2.4	1.7	2.5	1.9	1.4
转子惯量 Rotor inertia	kg.m ²	0.022			0.036			0.05		
电机重量 Mass	kg	116			139			162		
B 尺寸 Length of B	mm	316			370			424		
L 尺寸 Length of L	mm	641			694			747		

规格型号 Type	S25.□	6380 F15	6349 F17	6389 F20	8450 F15	8450 F17	8511 F20
额定转矩 Rated torque	N.m	380	349	389	450	450	511
峰值转矩 Max torque	N.m	732	735	741	832	833	829
额定转速 Rated speed	rpm	1500	1700	2000	1500	1700	2000
最大转速 Max speed	rpm	1950	2150	2450	1950	2150	2450
额定频率 Rated frequency	Hz	100	113.3	133.3	100	113.3	133.3
额定电压 Rated voltage	V	380	380	380	380	380	380
额定电流 Rated current	A	113	120	149	130	150	182
额定功率 Rated power	kW	59.7	62.1	81.5	70.7	80.1	107
反电动势常数(1000rpm) Ke	V	218.5	188.3	171.3	219.8	189.6	159.7
转矩常数 Kt	Nm/A	3.35	2.9	2.6	3.46	3	2.8
绕组电阻 Winding resistance	Ω	0.073	0.053	0.036	0.058	0.048	0.024
绕组电感 Winding inductance	mH	1.9	1.5	1.1	1.2	0.9	0.7
转子惯量 Rotor inertia	kg.m ²	0.064			0.078		
电机重量 Mass	kg	185			231		
B 尺寸 Length of B	mm	476			583		
L 尺寸 Length of L	mm	799			899		

Servo motor technical parameters for compressor (380V, S1)

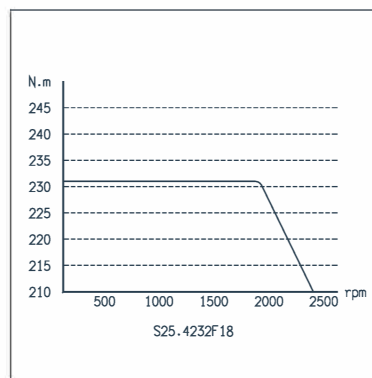
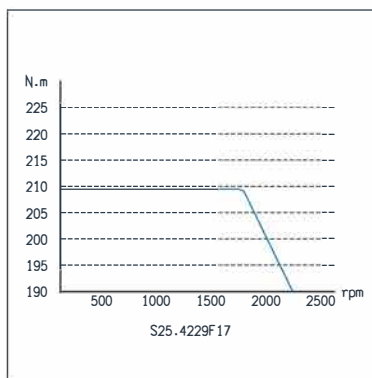
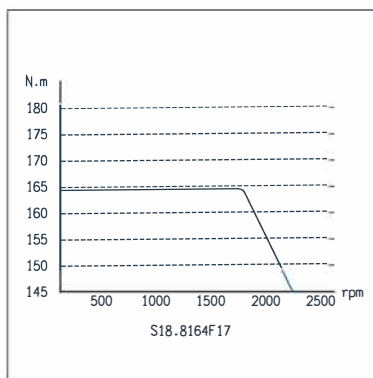
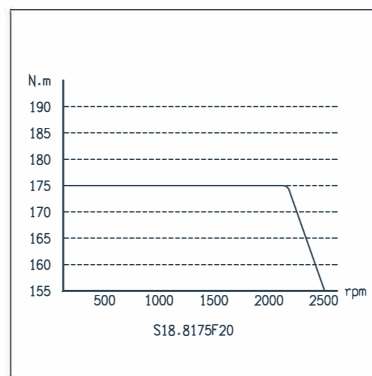
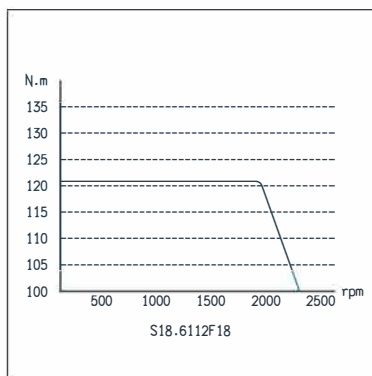
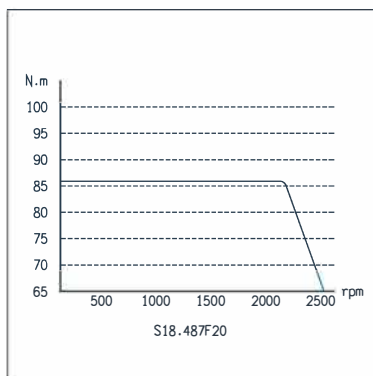
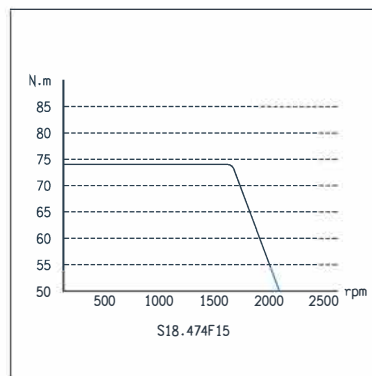
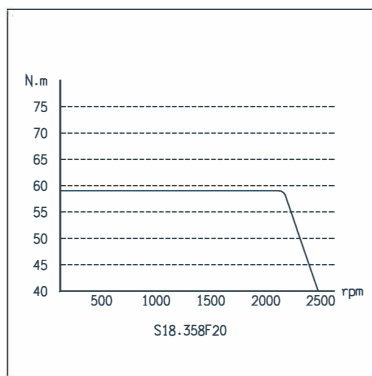
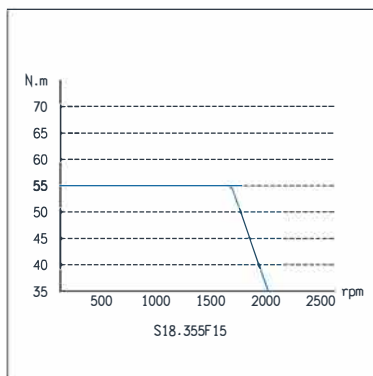
规格型号 Type	S18.□	224F30	335F30	448F30	559F30	670F30	896F30	9118F30
额定功率 Rated power	kW	7.5	11	15	18.5	22	30	37
额定电流 Rated current	A	13	19	26	32	38.5	51.3	63.8
额定电压 Rated voltage	V	380	380	380	380	380	380	380
额定转矩 Rated torque	N.m	24	35	48	59	70	96	118
额定转速 Rated speed	rpm	3000	3000	3000	3000	3000	3000	3000
额定频率 Rated frequency	Hz	200	200	200	200	200	200	200
反电动势常数(1000rpm) Ke	V	122	122	122	122	122	122	122
转矩常数 Kt	Nm/A	1.85	1.86	1.85	1.85	1.86	1.87	1.88
绕组电阻 Winding resistance	Ω	0.389	0.287	0.177	0.17	0.119	0.087	0.066
绕组电感 Winding inductance	mH	4.5	3.6	2.9	2.3	1.8	1.5	1.1
转子惯量 Rotor inertia	kg.m ²	0.005	0.009	0.013	0.017	0.021	0.025	0.029
电机重量 Mass	kg	37	44	51	58	65	80	88
B 尺寸 Length of B	mm	267	285	312	354	396	471	513
L 尺寸 Length of L	mm	428	466	503	541	583	658	700

规格型号 Type	S25.□	3118F30	4143F30	5175F30	6239F30
额定功率 Rated power	kW	37	45	55	75
额定电流 Rated current	A	64	77	94	128
额定电压 Rated voltage	V	380	380	380	380
额定转矩 Rated torque	N.m	118	143	175	238
额定转速 Rated speed	rpm	3000	3000	3000	3000
额定频率 Rated frequency	Hz	200	200	200	200
反电动势常数(1000rpm) Ke	V	121	122	122	122
转矩常数 Kt	Nm/A	1.84	1.85	1.86	1.86
绕组电阻 Winding resistance	Ω	0.059	0.048	0.039	0.018
绕组电感 Winding inductance	mH	2.4	1.3	0.8	0.6
转子惯量 Rotor inertia	kg.m ²	0.022	0.036	0.05	0.064
电机重量 Mass	kg	116	139	162	185
B 尺寸 Length of B	mm	316	370	424	476
L 尺寸 Length of L	mm	641	694	747	799

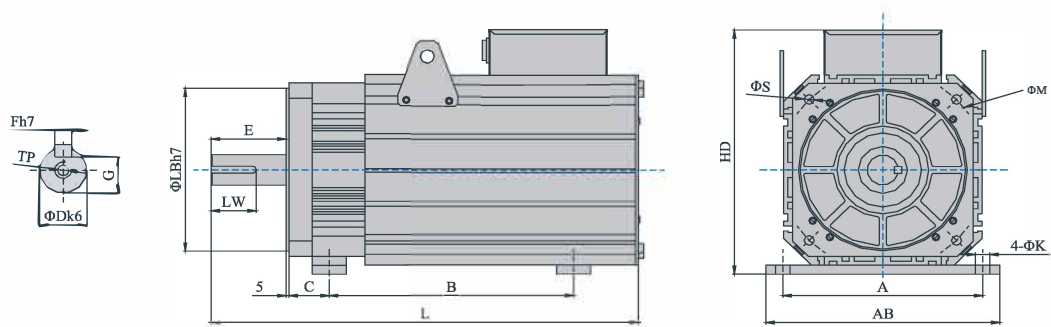
工作特性曲线

Working characteristics S1, $\Delta T 100^{\circ}$

C

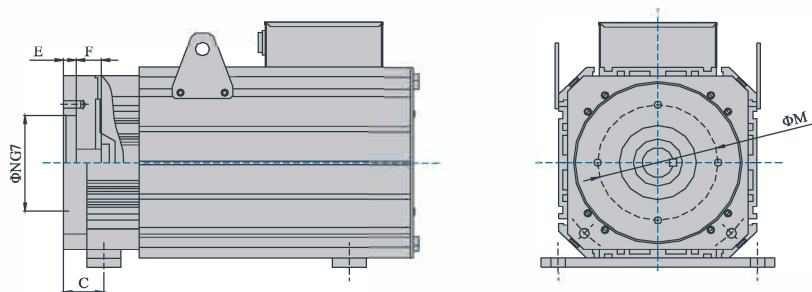


外形及安装尺寸 Installation dimensions



规格型号	机座 Frame					法兰 Flange			机轴 Shaft					
Model	C	A	AB	HD	K	LB	M	S	E	D	G	F	LW	TP
S18	39	254	278	347	12	180	215	14.5	82	42	36.7	12	56	M10*30
S25	60	356	384	430	18	250	300	17.5	112	48	42.5	14	90	M20*35

内轴孔外形及安装尺寸 Inner hole dimensions



规格型号	法兰 Flange			
Model	E	F	N	M
S18	40	11	根据油泵尺寸变动 Change with oil pump	
S25	60	13		

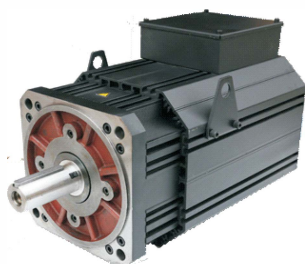
※其余尺寸同标准轴伸产品 The other dimensions same as standard shaft motor



SY系列异步伺服电机

SY series asynchronous servo motor

380V: 4~22kW



完善的产品系列 Perfect product series

额定电压 Rated voltage : 220V、380V

额定功率 Rated power : 4~22kW

额定转矩 Rated torque : 20~140N.m

额定转速 Rated speed : 750~3000rpm

法兰止口 Flange : 180、250

支持用户可选择订制设计 Customized

多种编码器类型 Various encoder

转速或转矩 Specific speed or torque

安装方式 Various installation modes

风冷、水冷 Air cooling, water cooling

内埋键 Built-in keyway

高可靠的标准设计 High reliability standard design

绝缘等级 F Insulation class F

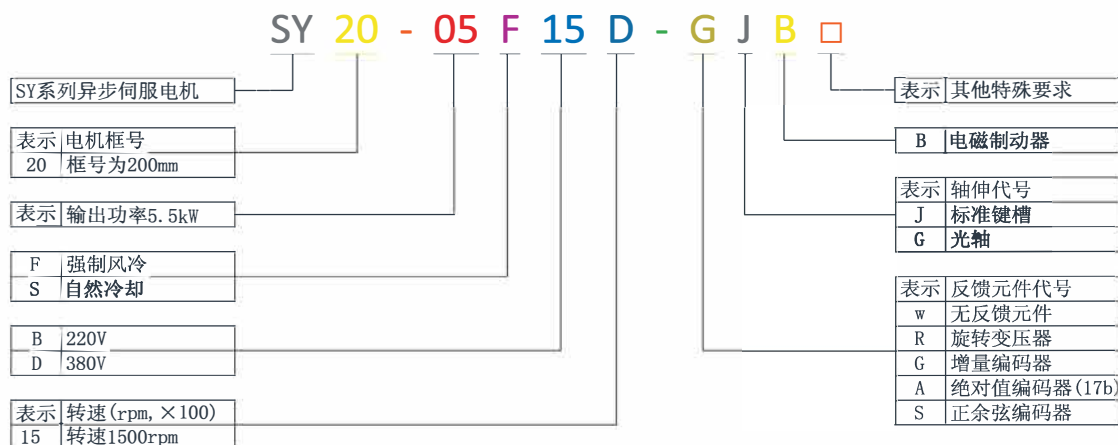
高性能低损耗矽钢片 Low loss silicon steel sheet

防护等级 Protection degree : IP55

环境温度 Environment temperature : -20℃~+40℃

环境湿度 Environment humidity : < 90%RH

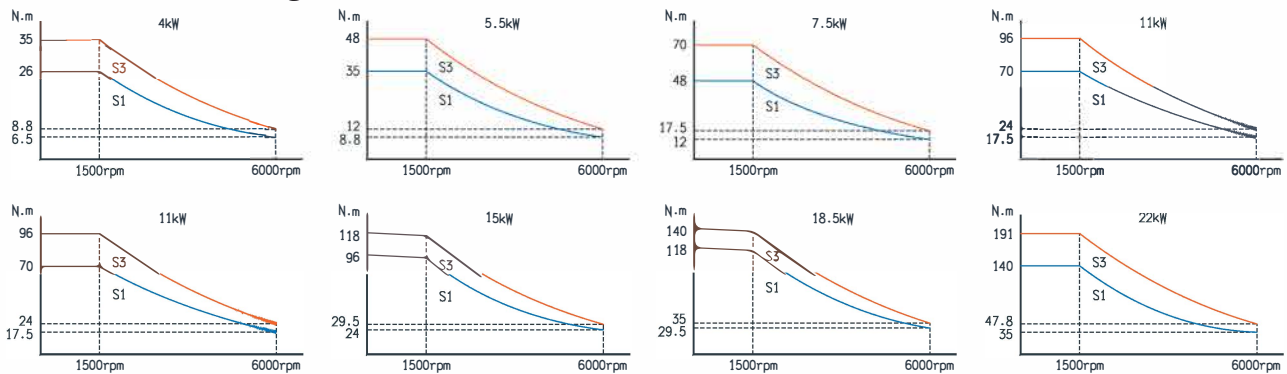
规格型号 Type:



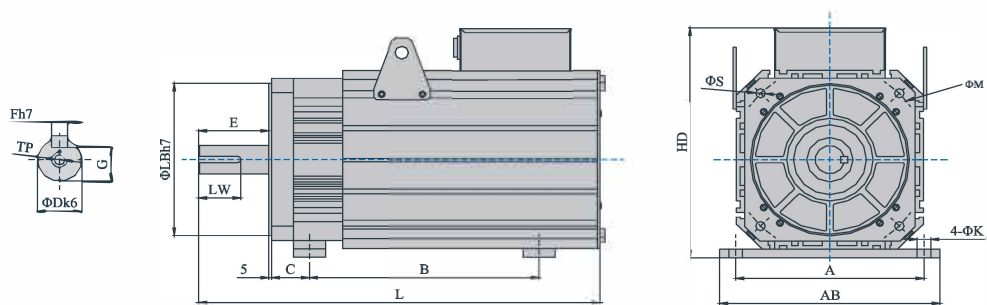
Asynchronous servo motor technical parameters(380V)

规格型号 Type: SY□F15D	Unit	20.04	20.05	20.07	26.11	26.15	26.18	26.22
额定功率 Rated power	kW	4	5.5	7.5	11	15	18.5	22
额定转速 Rated speed	rpm	1500	1500	1500	1500	1500	1500	1500
最大转速 Max speed	rpm	6000	6000	6000	6000	6000	6000	6000
额定频率 Rated frequency	Hz	52	52	52	51	51	51	51
额定电流 Rated current	A	8.1	11.2	15.3	21.3	28.9	35.8	42.5
额定转矩 Rated torque	N.m	26	35	48	70	96	118	140
最大转矩 Max torque	N.m	59	80	110	161	220	271	322
电机效率 Effeiciency	%	86.8	86.8	86.8	88.3	88.3	88.3	88.3
功率因数 Power factor	—	0.86	0.86	0.86	0.89	0.89	0.89	0.89
转子惯量 Rotor inertia	kg.m ²	0.014	0.019	0.024	0.085	0.112	0.139	0.169
B 尺寸 Length of B	mm	354	396	431	370	423	476	529
L 尺寸 Length of L	mm	541	583	618	694	747	799	852
电机重量 Mass	kg	46	55	68	126	148	168	192

工作特性曲线 Working characteristics



外形及安装尺寸 Installation dimensions



规格型号	机座 Frame					法兰 Flange			机轴 Shaft					
Model	C	A	AB	HD	K	LB	M	S	E	D	G	F	LW	TP
SY20	39	254	278	347	12	180	215	14.5	82	42	36.7	12	56	M10*30
SY26	60	356	384	430	18	250	300	17.5	112	48	42.5	14	90	M20*35

ST系列永磁伺服电动机

ST series servo motor

220V: 0.2 ~ 5.5kW

380V: 1.0 ~ 7.5kW



完善的产品系列 Perfect product series

- ◆ 额定电压 Rated voltage : 220V、380V
- ◆ 额定功率 Rated power : 0.2~7.5kW
- ◆ 额定转矩 Rated torque : 0.6~48Nm
- ◆ 额定转速 Rated speed : 1000~3000rpm
- ◆ 框号 Flange : 60、80、100、110、130、180

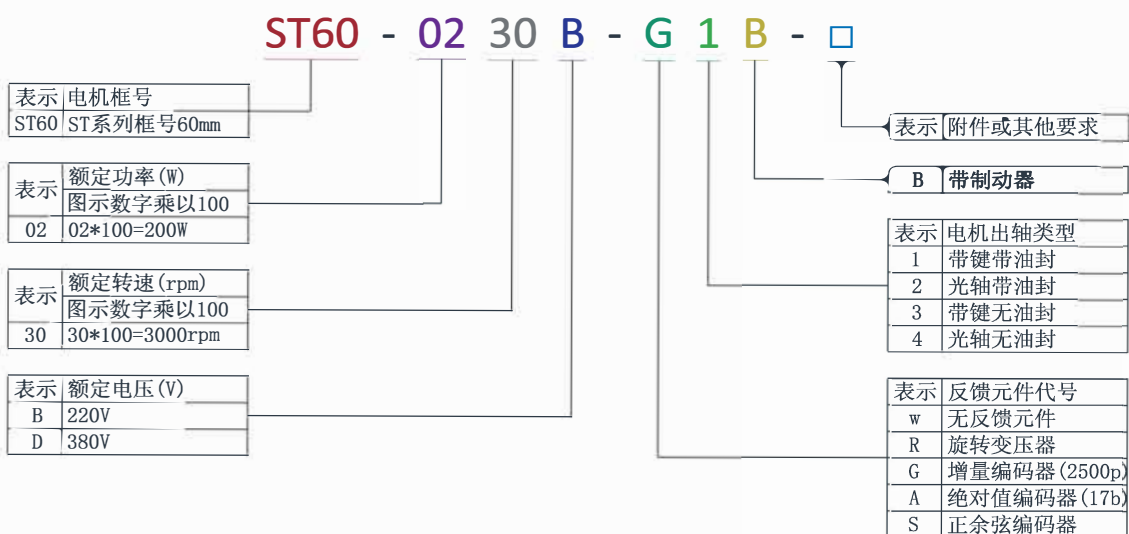
支持用户可选择订制设计 Customized

- ◆ 多种编码器类型 Various encoder
- ◆ 转速或转矩 Specific speed or torque
- ◆ 有多种惯量可供选择 Various inertia

高可靠的标准设计 High reliability standard design

- ◆ 绝缘等级 F Insulation class F
- ◆ 高性能钕铁硼磁钢 High performance NdFeB magnet
- ◆ 高性能低损耗矽钢片 Low loss silicon steel sheet
- ◆ 防护等级 Protection degree : IP65
- ◆ 环境温度 Environment temperature : -20°C~+40°C
- ◆ 环境湿度 Environment humidity : < 90%

规格型号 Type:

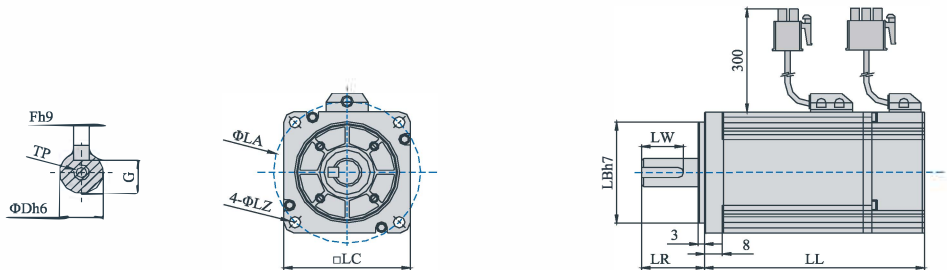


ST60/80/100 技术参数 Technical parameters 220V

规格 号	额定功率	额定转矩	最大转矩	额定电流	最大电流	额定速度	最大速度	转动惯量	电机长度
	Power	Torque	Max torque	Current	Max current	Speed	Max speed	Inertia	LL
Model	W	N.m	N.m	A	A	rpm	rpm	Kg.m ² ×10 ⁻⁴	mm
ST60-0230B	0.2	0.64	1.91	1.5	4.9	3000	6000	0.18	105(145)
ST60-0430B	0.4	1.27	3.82	2.7	9.2	3000	6000	0.27	125(165)
ST80-0830B	0.75	2.39	7.16	4.5	15.1	3000	6000	1.33	140(180)
ST80-1030B	1	3.18	9.55	7.5	24.4	3000	6000	1.72	160(200)
ST100-1030B	1	3.18	9.55	7.5	24.4	3000	5000	2.34	155(195)
ST100-1530B	1.5	4.77	14.3	9.5	3.34	3000	5000	2.65	190(230)

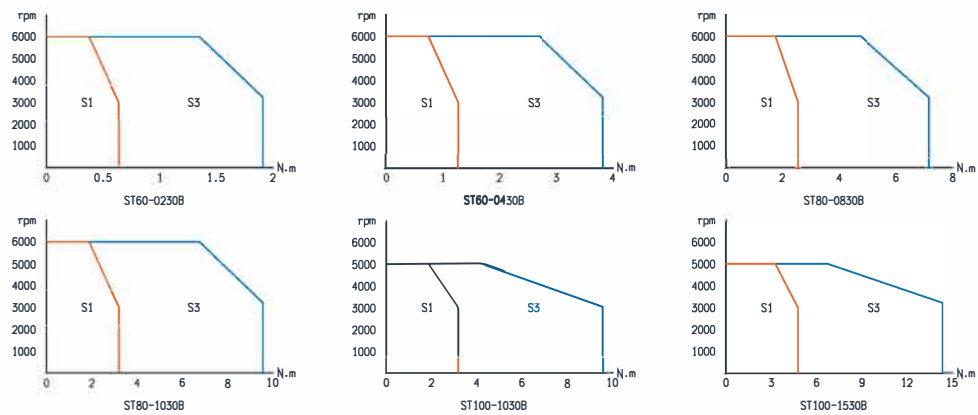
注：1，待发布型号 Models to be released;
2，LL 尺寸中括号内为带刹车尺寸 Size in brackets are with brake

外形及安装尺寸 Installation dimensions



规格 号	安装 Flange						机轴 Shaft					
	LC	LB	LA	LE	LG	LZ	LR	D	G	F	LW	TP
ST60	60	50	70	3	8	5.5	30	14	11	5	20	M5*10
ST80	80	70	90	3	8	6	35	19	15.5	6	25	M6*20
ST100	100	95	115	5	12	9	45	22	18.5	8	32	M8*20

工作特性曲线 Working characteristics



ST110/130/180 技术参数 Technical parameters

规格型号	额定功率	额定电流	额定转矩	最大转矩	额定转速	转子惯量	电机长度
	Power	Current	Torque	Max torque	Speed	Inertia	LL
Model	W	A	N.m	N.m	rpm	Kg.m ²	mm

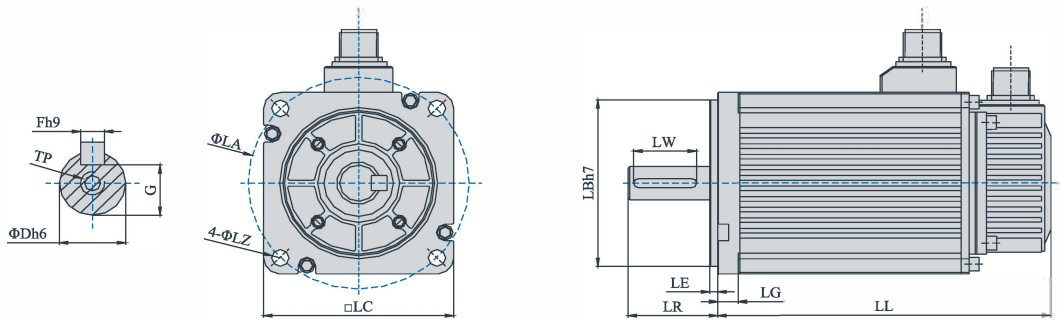
额定电压 Rated voltage 220V

ST110-0830B	0.75	4.2	2.38	7.1	3000	4.1*10 ⁻⁴	160(200)
ST110-1030B	1	6.2	3.19	9.6	3000	5.0*10 ⁻⁴	170(210)
ST110-1530B	1.5	8.7	4.78	14.3	3000	6.3*10 ⁻⁴	180(220)
ST110-2030B	2	11.5	6.37	19.1	3000	8.5*10 ⁻⁴	200(240)
ST130-1025B	1	4	3.82	11.5	2500	0.85*10 ⁻³	170(220)
ST130-1525B	1.5	6	5.73	17.2	2500	1.3*10 ⁻³	190(240)
ST130-2025B	2	7.5	7.64	22.9	2500	1.5*10 ⁻³	210(280)
ST130-3025B	3	12.2	11.5	34.4	2500	2.5*10 ⁻³	230(300)
ST130-4025B	4	17.7	15.3	45.8	2500	3.2*10 ⁻³	250(320)
ST130-0925B	0.9	5.7	5.73	17.2	1500	1.3*10 ⁻³	170(220)
ST130-1825B	1.8	11.4	11.5	34.4	1500	2.5*10 ⁻³	210(280)
ST180-3010B	3	12	19.1	47.8	1500	3.8*10 ⁻³	230(300)
ST180-4010B	4	16	25.5	63.8	1500	6.1*10 ⁻³	260(330)
ST180-4010B	5.5	24	35	87.5	1500	8.6*10 ⁻³	290(360)

额定电压 Rated voltage 380V

ST110-1030D	1	2.3	3.18	9.55	3000	3.9*10 ⁻⁴	170(210)
ST110-1530D	1.5	3.2	4.78	14.3	3000	5.5*10 ⁻⁴	200(240)
ST110-2030D	2	4.3	6.37	19.1	3000	7.4*10 ⁻⁴	220(260)
ST130-1025D	1	1.9	3.82	11.5	2500	0.8*10 ⁻³	170(210)
ST130-1525D	1.5	2.7	5.73	17.2	2500	1.0*10 ⁻³	180(220)
ST130-2025D	2	3.6	7.64	22.9	2500	1.3*10 ⁻³	200(240)
ST130-3025D	3	5.7	11.5	34.4	2500	1.9*10 ⁻³	230(270)
ST130-4025D	4	7.5	15.3	45.8	2500	2.5*10 ⁻³	260(300)
ST130-0915D	0.9	1.7	5.73	17.2	1500	1.0*10 ⁻³	180(220)
ST130-1815D	1.8	3.2	11.5	34.4	1500	1.9*10 ⁻³	230(270)
ST180-3015D	3	7.8	19.1	47.8	1500	3.8*10 ⁻³	230(300)
ST180-4015D	4	10	25.5	63.8	1500	6.1*10 ⁻³	260(330)
ST180-5525D	5.5	12	35	87.5	1500	8.6*10 ⁻³	290(360)
ST180-7525D	7.5	20	47.8	119	1500	9.5*10 ⁻³	350(420)

外形及安装尺寸 Installation dimensions



规格型号 Model	法兰 Flange						机轴 Shaft					
	LC	LB	LA	LE	LG	LZ	LR	D	G	F	LW	TP
ST110	110	95	115	5	12	9	45	22	18.5	6	32	M8*20
ST130	130	110	145	5	14	9	57	22	18.5	6	42.5	M8*20
ST180	180	114.3	200	3.2	18	13.5	65	35	30	10	54	M12*25

配线规格 Connector specification

1、电机插头接线规格 Motor connector specification

	针角号 Pin	1	2	3	4
	信号 Signal	U	V	W	PE

2、带制动器电机插头接线规格 Motor with brake connector specification

	针角号 Pin	1	2	3	4	5	6	7
	信号 Signal	U	V	W	PE	B1	B2	-

3、增量编码器插头接线规格 Incremental encoder connector specification

	针角号 Pin	1	2	3	4	5	6	7	8	9
	信号 Signal	A+	B+	C+	A-	B-	C-	5V	0V	PE

LS200 系列永磁伺服驱动器

LS 200 series servo driver

单相(1PH)220V: 0.2 ~ 1.5kW; 三相(3PH)220V: 0.2 ~ 5.5kW

三相(3PH)380V: 1.0 ~ 7.5kW



更高的使用性能 High performance

- ◆ 高过载能力: 最大转矩可达 3 倍额定转矩
- ◆ 高动态响应: 速度环带宽可达 400Hz, 突加负载转速变化小
- ◆ 高输入脉冲频率: 最大输入脉冲频率 4Mpps
- ◆ 速度频率响应快: 最高可达 1.2kHz; 位置控制整定时间为 0 ~ 6ms
- ◆ High overload capacity: up to 3 times rated torque
- ◆ High dynamic response: the speed loop bandwidth up to 400Hz
- ◆ High input pulse frequency: the maximum input is 4Mpps
- ◆ Fast frequency response: up to 1.2kHz; position setting time is 0 ~ 6ms

兼容六种控制模式 Six control modes

- ◆ 速度模式、位置模式、转矩模式、
速度/位置切换模式、转矩/速度切换模式、位置/转矩切换模式
- ◆ Speed mode, position mode, torque mode, speed/position switching mode, torque/speed switching mode, position/torque switching mode

丰富的功能设置 Set of features

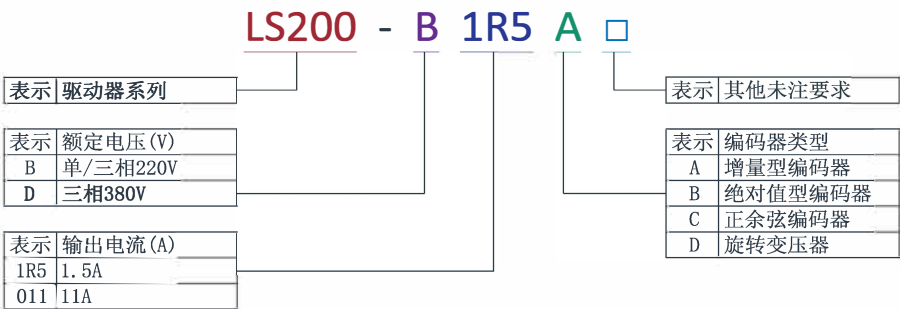
- ◆ 内置 2 组 DC+5V, 可驱动输入光耦, 也可外接光栅尺或第二编码器, 实现全闭环控制
- ◆ 数字输入兼容性更强, 支持继电器输出、集电极开路输出
- ◆ 方便的增益切换控制功能, 提高响应特性
- ◆ 中断式位置控制: 由输入端子完成速度/位置控制, 实现某一固定位置控制
- ◆ 多段位置控制: 输入端子指令组合可实现多个固定位置指令的位置控制
- ◆ Built in 2 groups of DC+5V, can drive the input coupler, connect to the grating or second encoder, also to realize closed-loop control
- ◆ Strong digital input compatibility, supports relay or open collector output
- ◆ Convenient gain switching improves the response characteristics
- ◆ Interrupt position control: the speed/position control switch can be completed by the external input terminal to realize fixed position control
- ◆ Multi stage position control: the position control of multiple fixed position commands can be realized by the combination of input terminal commands



广泛的应用场合 Applications

- ◆ 机床、纺织、木工、玻璃、食品、印刷、包装、输送.....
- ◆ Machine tools, textile, wood, glass, food, printing, packaging, transportation

规格型号 Type:



技术参数 Technical parameters

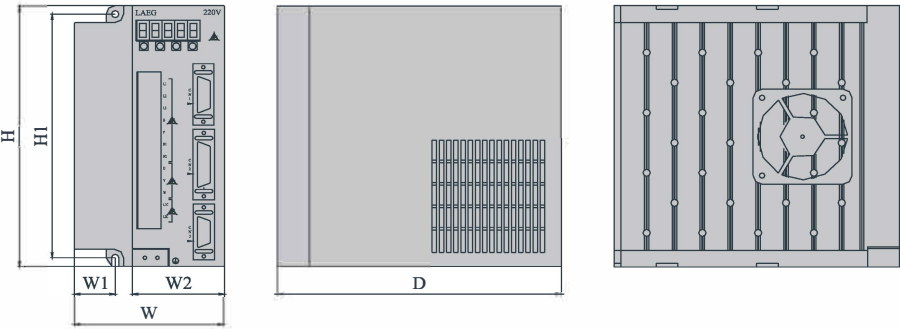
单/三相 220V

型号 Type: LS200-	B1R6	B2R8	B3R8	B4R5	B5R5	B7R6	B012	B017	B026
输出电流 Output current	1.6	2.8	3.8	4.5	5.5	7.6	12	17	26
最大电流 Max current	4.8	8.4	11.4	13.5	16.5	22.8	30	51	70
外形编号 Frame No.	SIZE1	SIZE1	SIZE1	SIZE1	SIZE2	SIZE2	SIZE2	SIZE4	SIZE4

三相 380V

型号 Type: LS200-	D3R5	D5R5	D8R4	D012	D017	D021	D026
输出电流 Output current	3.5	5.5	8.4	12	17	21	26
最大电流 Max current	11.4	16.5	25.2	36	51	60	70
外形编号 Frame No.	SIZE2	SIZE2	SIZE2	SIZE4	SIZE4	SIZE4	SIZE4

外形及安装尺寸 Installation dimensions



外形编号 Frame No.	外形尺寸 Dimensions (mm)					
	H	W	D	H1	W1	W2
SIZE1	160	80	145	150	17	55
SIZE2	160	90	170	150	27	55
SIZE4	190	115	202	180	5	64

产品系列概览

Overview of LA all products



北京中源电机制造有限公司，拥有国内同行业最为广泛的产品系列，涵盖几乎所有的低压、中压、高压工业电动机，以及控制类产品，为您的传动系统提供最优化的全套解决方案。

ZYMI Motor Co., Ltd. has the most extensive product line in the same industry, covering almost every series of low voltage, medium voltage, high voltage industrial motor, and control products, to provide you with the full set solutions of optimization transmission system to solve.

IEC 低压电机

YE2 低压电机
YE3 高效低压电机
YE4 超高效低压电机
YB3 防爆低压电机
YVF2 变频低压电机
IP23 开启式低压电机

IEC low voltage motor

YE2 low voltage motor
YE3 premium efficiency low voltage motor
YE4 super premium efficiency low voltage motor
YB3 explosion-proof low voltage motor
YVF2 variable frequency low voltage motor
IP23 open drip-protection low voltage motor

IEC 高压电机

Y2 紧凑型铸铁高压电机
YB2 铸铁防爆高压电机
Y、YKK 高压电机
YP、YPPK 高压变频电机
YL、YLKK 高压立式电机
TD、TM、TK 高压同步电机

IEC high voltage motor

Y2 compact cast iron high voltage motor
YB2 explosion-proof cast iron high voltage motor
Y、YKK high voltage motor
YP、YPPK variable frequency high voltage motor
YL、YLKK vertical high voltage motor
TD、TM、TK synchronous high voltage motor

永磁电机

CXYT 异步启动永磁电机
TYP、TYF 永磁变频电机
TZ 永磁直驱电机
TYC 空压机用永磁电机

Permanent magnet motor

CXYT asynchronous start permanent magnet motor
TYP、TYF variable frequency permanent magnet motor
TZ direct drive permanent magnet motor
TYC permanent magnet motor for compressor

控制产品

LD300 低压变频器
S 系列电液伺服产品
ST 运动控制类伺服产品
SY 系列异步伺服产品

Control products

LD300 series low voltage frequency converter
S series electro hydraulic servo products
ST series motion servo products
SY series asynchronous servo products

销售及服务网络

Service network



服务承诺：

公司坚持“以客户为中心”的服务理念，依托办事处和各地合作伙伴为基础，建立起覆盖全国的销售及服务网络，为客户提供优质便捷的销售及售后服务。

品质保障：

- 1、保修范围仅指产品本体；
- 2、保修期限以产品铭牌日期为准，实行 12 个月内保修；
- 3、在产品的整个生命周期内，提供有偿服务。

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- 1、对于违反说明书的规定使用本产品而产生的责任，本公司不能承担；
- 2、对于本产品故障所致贵方受到的损失或波及性、继发性损害，本公司不负责赔偿。

ZYM motors

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