

德瑞斯机电

DIRISEJIDIAN

德瑞斯电机创“芯”科技

深圳市德瑞斯电气技术有限公司

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微信公众号二维码

修订日期：2022年05月

Company Profile 公司简介

深圳市德瑞斯电气技术有限公司成立于2004年，是国家级高新技术企业，公司专注于工业自动化控制产品的研发、生产和销售，已通过ISO9001-2016国际质量管理体系认证。公司生产制造基地设在广东东莞，拥有2万平米独立工业园，配备先进的生产制造设备，具备年产能20万台的生产能力。研发基地设在广东深圳，拥有百余项产品外观及技术专利，所有产品拥有完全自主知识产权。

公司建立有专业的研发实验室及遍布全国的各地办事处及服务中心，建立了一整套完备的生产工艺流程，具备了行业领先的生产能力。产品广泛应用于工业自动化和节能减排等各个领域。公司始终坚持“以客户利益为核心，以研发生产高性价比产品为根本”的经营理念，坚持诚信、专业、创新、负责的工作标准，实现企业价值和客户价值的共同成长。面对未来，德瑞斯将秉承公司理念，坚持做中国工业自动化行业的领先品牌，坚持做受行业与社会尊重的民族企业，创造美好明天！

Shenzhen Dirise Electric Technology Co.,Ltd was established in 2004 and has become a national high-tech enterprise. It focus on R&D, manufacturing and sales of industrial automation products. Our company has been certificated with ISO9001:2015, the international quality management system authentication. The production base is in Dongguan, Guangdong province with 20000 square meters independent industrial park and advanced manufacturing machine, which result in 200,000 unit production capacity per year. R&D base is in Shenzhen, Guangdong province. It enjoys hundreds of product appearance and technology patents and all products have completely independent intellectual property rights.

Dirise has established professional R&D lab as well as regional offices and service centers all over the country, based on the entire manufacturing process, the company owned advanced production ability in the industry. Our products widely used on industry automation and energy-saving fields etc. We always sticks to the business philosophy of "customer interest centered, high value, performance products oriented", persists in the working standard of honesty, specialty, innovation and responsibility, and embodies increasing value for enterprise and customers. Facing the future, the company will adhere to the company culture, persist in being the leading brand in the Chinese automation industry, act as a national enterprise respected by industry and society, and create a nice future!

Reputations 公司荣誉



Strength shows 实力展示



和品质，信服务——德瑞斯电机
And quality, letter service -- Dreis motor

电机系列产品一览 Overview of motor series products



TYP系列变频永磁同步电机
TYP series variable frequency permanent magnet synchronous motor



TYC系列空压机用永磁同步一体机
Permanent Magnet synchronous machine for TYC series air compressor



超高效率纺织电动机
Super efficient textile motor

永磁同步电机概述

Basic knowldge for permanent Magnet Synchronous Motor

变频永磁电机，相比于其他类型的电机，具有以下优势：

★ 可靠性高。兼具起动转矩大、起动电流小、过载能力强等优点；电机运行时定子会自动对转子中的永磁体进行充磁，对环境 工作温度要求低，不存在退磁风险。

★ 成本较低。定转子结构简单，仅采用硅钢片叠成，无需耐高温稀土永磁材料，转子无绕组。

★ 高效率平台较宽。采用专用变频器驱动，额定功率时电流低于传统永磁电机，可以在很宽的速度范围和不同负载状态下实现高效运行。

Frequency conversion permanent magnet motor, compared with other types of motor, has the following advantages:

★ high reliability. When the motor is running, the stator will automatically magnetize the permanent magnet in the rotor, the working temperature is low, and there is no demagnetization risk.

★ lower costs. The stator and rotor have simple structure and are made of silicon steel sheet only. No high temperature resistant rare earth permanent magnet material is needed. The Rotor has no winding.

★ High efficiency platforms are wide. It is driven by a special frequency converter, the rated current is lower than that of the traditional permanent magnet motor, and it can run efficiently in a wide speed range and under different load conditions.

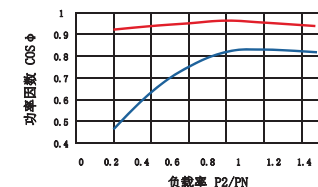
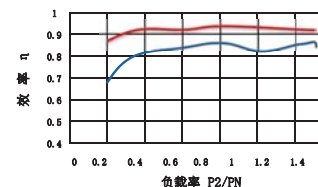
1、永磁电机定子和感应电机类似，不同的是产生机械能和电能转换所需要的气隙磁场，感应电机由电机绕组内通以电流来产生，而永磁电机利用转子上的永磁体来产生磁场，因此不需要无功励磁电流，减少了定子电阻损耗和转子电阻损耗，可显著提高电机的效率和功率因数。

1. The stator of PMSM is similar to induction motors, the difference is the 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%变负载范围类，均可保持较高的功率因数和效率，是轻载运行时节能效果更为显著。

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



3、对于变频驱动的永磁同步电机，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。

3. 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。

4. 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.

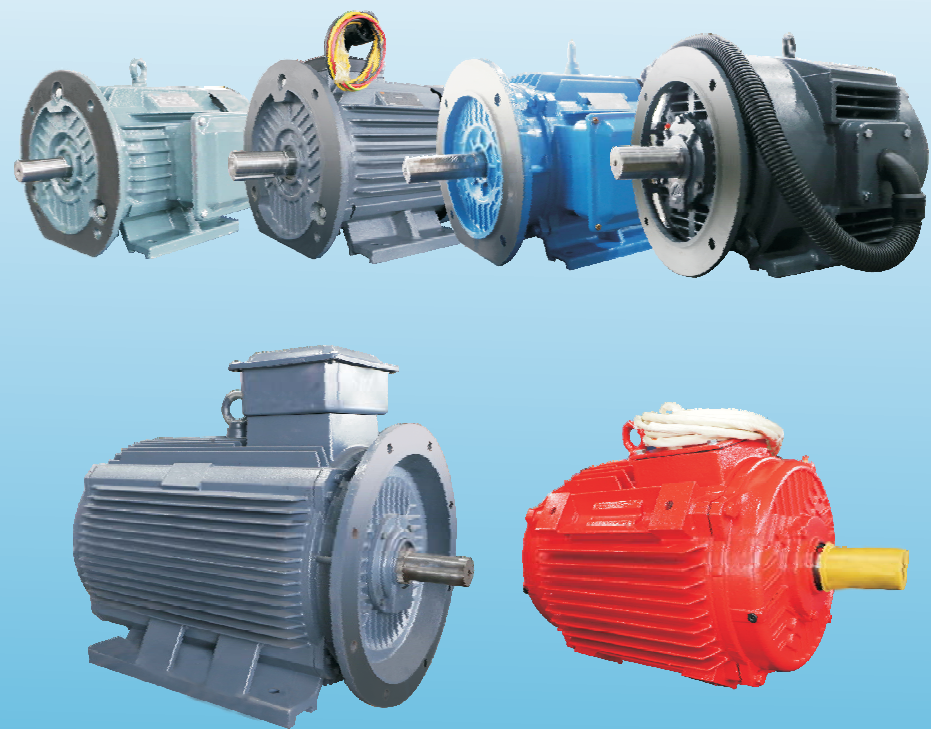


5、表贴式及表层插入式转子结构，具有工艺结构简单和转动惯量小等特点，多用于中小功率伺服电机。

5. 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.

TYP系列变频永磁同步电机

TYP series variable frequency permanent magnet synchronous motor



TYP系列（中心高H：90mm-315mm，KW：1.1KW-315KW）电机是全封闭式、自扇风冷式变频永磁同步电机，外观新颖美观，结构合理可靠。工作环境-15℃—40℃、电机转速1000rpm-3000rpm、缘等级F级、防护等级IP54、冷却方式IC411、S1连续工作制、能效等级GB18613-2012 1级、与YE3系列可互换的同等机座号，也可按客户要求定制。

TYP series (center height H: 90mm-315mm, KW: 1.1 KW-315kw) are full-enclosed, self-fan-cooled variable-frequency permanent magnet synchronous motors. Working Environment-15° c-40°C, motor speed 1000rpm-3000rpm, grade F, protection grade IP54, cooling mode IC411, S1 continuous working system, energy efficiency grade GB18613-2012 Level 1, interchangeable with YE3 series, can also be customized according to customer requirements.

产品技术数据Technical data(380V/50Hz)

电机型号	机座号	额定功率	额定电流	额定频率	额定转速	效率	功率因数	额定转矩	防护等级
		KW	A	Hz	rpm	%	cos	N.m	
TYP90S-8-30/1.1KW	90	1.1	2.00	200	3000	85.2	0.98	3.5	IP55
TYP90S-8-30/1.5KW	90	1.5	2.69	200	3000	86.5	0.98	4.8	IP55
TYP90L-8-30/2.2KW	90	2.2	3.88	200	3000	88	0.98	7.0	IP55
TYP90L-8-30/3KW	90	3	5.22	200	3000	89.1	0.98	9.6	IP55
TYP100L-8-30/3KW	100	3	5.22	200	3000	89.1	0.98	9.6	IP55
TYP112M-8-30/4KW	112	4	6.89	200	3000	90.0	0.98	12.7	IP55
TYP112M1-8-30/5.5KW	112	5.5	9.38	200	3000	90.9	0.98	17.5	IP55
TYP112M1-8-30/7.5KW	112	7.5	12.68	200	3000	91.7	0.98	23.9	IP55
TYP160M1-8-30/11KW	160	11	18.42	200	3000	92.6	0.98	35.0	IP55
TYP160M1-8-30/15KW	160	15	24.93	200	3000	93.3	0.98	47.8	IP55
TYP160M1-8-30/18.5KW	160	18.5	30.61	200	3000	93.7	0.98	58.9	IP55
TYP160M1-8-30/22KW	160	22	36.28	200	3000	94.0	0.98	70.0	IP55
TYP160M2-8-30/30KW	160	30	49.22	200	3000	94.5	0.98	95.5	IP55
TYP160L1-12-30/37KW	160	37	60.51	300	3000	94.8	0.98	117.8	IP55
TYP160L2-12-30/45KW	160	45	73.44	300	3000	95.0	0.98	143.3	IP55
TYP200L1-12-30/55KW	200	55	89.47	300	3000	95.3	0.98	175.1	IP55
TYP200L2-12-30/75KW	200	75	121.63	300	3000	95.6	0.98	238.8	IP55
TYP200L3-12-30/90KW	200	90	145.65	300	3000	95.8	0.98	286.5	IP55
TYP280S1-16-30/110KW	280	110	177.64	400	3000	96.0	0.98	350.2	IP55
TYP280S2-16-30/132KW	280	132	212.73	400	3000	96.2	0.98	420.2	IP55
TYP280M1-16-30/160KW	280	160	257.59	400	3000	96.3	0.98	509.3	IP55
TYP280M2-16-30/185KW	280	185	297.17	400	3000	96.3	0.98	583.6	IP55
TYP280M3-16-30/200KW	280	200	321.32	400	3000	96.5	0.98	636.7	IP55
TYP315S1-16-30/220KW	315	220	353.45	400	3000	96.5	0.98	700.3	IP55
TYP315S2-16-30/250KW	315	250	401.65	400	3000	96.5	0.98	795.8	IP55
TYP315S3-16-30/280KW	315	280	449.84	400	3000	96.5	0.98	891.3	IP55
TYP315M1-16-30/315KW	315	315	506.07	400	3000	96.5	0.98	1002.8	IP55

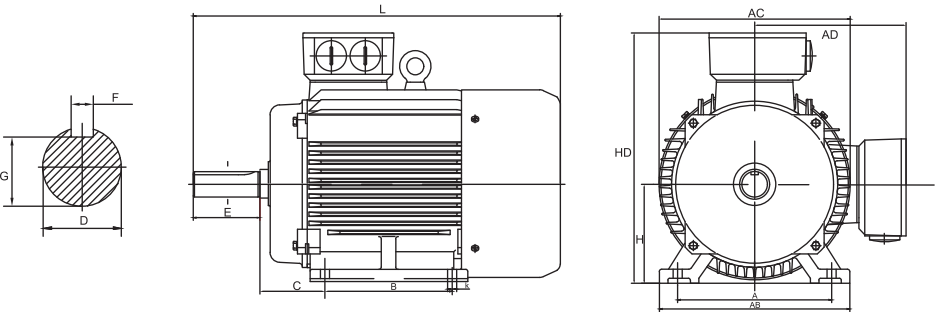
产品技术数据Technical data(380V/50Hz)

电机型号	机座号	额定功率	额定电流	额定频率	额定转速	效率	功率因数	额定转矩	防护等级
		KW	A	Hz	rpm	%	cos	N.m	
TYP90S-8-15/1.1KW	90	1.1	1.96	100	1500	87.2	0.98	7.0	IP55
TYP90S-8-15/1.5KW	90	1.5	2.64	100	1500	88.2	0.98	9.6	IP55
TYP90L-8-15/2.2KW	90	2.2	3.81	100	1500	89.5	0.98	14.0	IP55
TYP90L-8-15/3KW	90	3	5.14	100	1500	90.4	0.98	19.1	IP55
TYP100L-8-15/3KW	100	3	5.14	100	1500	90.4	0.98	19.1	IP55
TYP112M-8-15/4KW	112	4	6.81	100	1500	91.1	0.98	25.5	IP55
TYP112M1-8-15/5.5KW	112	5.5	9.28	100	1500	91.9	0.98	35.0	IP55
TYP112M2-8-15/7.5KW	112	7.5	12.56	100	1500	92.6	0.98	47.8	IP55
TYP160M1-8-15/11KW	160	11	18.28	100	1500	93.3	0.98	70.0	IP55
TYP160M1-8-15/15KW	160	15	24.77	100	1500	93.9	0.98	95.5	IP55
TYP160M1-8-15/18.5KW	160	18.5	30.45	100	1500	94.2	0.98	117.8	IP55
TYP160M2-8-15/22KW	160	22	36.09	100	1500	94.5	0.98	140.1	IP55
TYP160L1-8-15/30KW	160	30	49.01	100	1500	94.9	0.98	191.0	IP55
TYP200L2-12-15/37KW	200	37	60.26	150	1500	95.2	0.98	235.6	IP55
TYP200L3-12-15/45KW	200	45	73.13	150	1500	95.4	0.98	286.5	IP55
TYP200L3-12-15/55KW	200	55	89.10	150	1500	95.7	0.98	350.2	IP55
TYP280S1-16-15/75KW	280	75	121.12	200	1500	96.0	0.98	477.5	IP55
TYP280S2-16-15/90KW	280	90	145.19	200	1500	96.1	0.98	573.0	IP55
TYP280S3-16-15/110KW	280	110	177.09	200	1500	96.3	0.98	700.3	IP55
TYP280M1-16-15/132KW	280	132	212.29	200	1500	96.4	0.98	840.4	IP55
TYP280M2-16-15/160KW	280	160	256.79	200	1500	96.6	0.98	1018.7	IP55
TYP315S1-16-15/185KW	315	185	296.50	200	1500	96.7	0.98	1177.2	IP55
TYP315S2-16-15/200KW	315	200	320.65	200	1500	96.7	0.98	1273.3	IP55
TYP315M1-16-15/220KW	315	220	352.72	200	1500	96.7	0.98	1400.7	IP55
TYP315M2-16-15/250KW	315	250	400.81	200	1500	96.7	0.98	1591.7	IP55
TYP315L1-16-15/280KW	315	280	448.91	200	1500	96.7	0.98	1782.7	IP55
TYP315L2-16-15/315KW	315	315	505.03	200	1500	96.7	0.98	2005.5	IP55

产品技术数据Technical data(380V/50Hz)

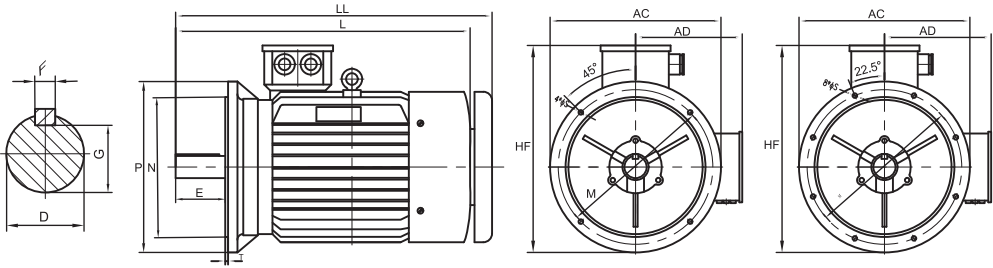
电机型号	机座号	额定功率	额定电流	额定频率	额定转速	效率	功率因数	额定转矩	防护等级
		KW	A	Hz	rpm	%	cos	N.m	
TYP90M1-8-10/1.1KW	90	1.1	2.02	67	1000	84.5	0.98	10.5	IP55
TYP90S-8-10/1.5KW	90	1.5	2.71	67	1000	85.9	0.98	14.3	IP55
TYP90L-8-10/2.2KW	90	2.2	3.90	67	1000	87.4	0.98	21.0	IP55
TYP90L-8-10/3KW	90	3	5.25	67	1000	88.6	0.98	28.7	IP55
TYP100L-8-10/3KW	100	3	5.25	67	1000	88.6	0.98	28.7	IP55
TYP112M-8-10/4KW	112	4	6.93	67	1000	89.5	0.98	38.2	IP55
TYP112M1-8-10/5.5KW	112	5.5	9.42	67	1000	90.5	0.98	52.5	IP55
TYP112M2-8-10/7.5KW	112	7.5	12.74	67	1000	91.3	0.98	71.6	IP55
TYP160M1-8-10/11KW	160	11	18.48	67	1000	92.3	0.98	105.1	IP55
TYP160M1-8-10/15KW	160	15	25.03	67	1000	92.9	0.98	143.3	IP55
TYP160M2-8-10/18.5KW	160	18.5	30.71	67	1000	93.4	0.98	176.7	IP55
TYP160L-8-10/22KW	160	22	36.40	67	1000	93.7	0.98	210.1	IP55
TYP200L1-12-10/30KW	200	30	49.37	100	1000	94.2	0.98	286.5	IP55
TYP200L2-12-10/37KW	200	37	60.70	100	1000	94.5	0.98	353.4	IP55
TYP200L3-12-10/45KW	200	45	73.59	100	1000	94.8	0.98	429.8	IP55
TYP200L3-12-10/55KW	200	55	89.66	100	1000	95.1	0.98	525.3	IP55
TYP280S-16-10/75KW	280	75	121.88	134	1000	95.4	0.98	716.3	IP55
TYP280M1-16-10/90KW	280	90	145.95	134	1000	95.6	0.98	859.5	IP55
TYP280M2-16-10/110KW	280	110	178.02	134	1000	95.8	0.98	1050.5	IP55
TYP280M3-16-10/132KW	280	132	213.17	134	1000	96.0	0.98	1260.6	IP55
TYP315S-16-10/160KW	315	160	257.85	134	1000	96.2	0.98	1528	IP55
TYP315M-16-10/185KW	315	185	297.83	134	1000	93.3	0.98	1766.8	IP55
TYP315L1-16-10/200KW	315	200	321.98	134	1000	96.3	0.98	1910.0	IP55
TYP315L2-16-10/220KW	315	220	353.45	134	1000	96.5	0.98	2101.0	IP55
TYP355M2-16-10/250KW	315	250	401.65	134	1000	96.5	0.98	2387.5	IP55
TYP355L1-16-10/280KW	315	280	449.75	134	1000	96.7	0.98	2686.0	IP55
TYP355L2-16-10/315KW	315	315	505.87	134	1000	96.7	0.98	3034.3	IP55

外形及安装尺寸 Mounting dimension IM B3



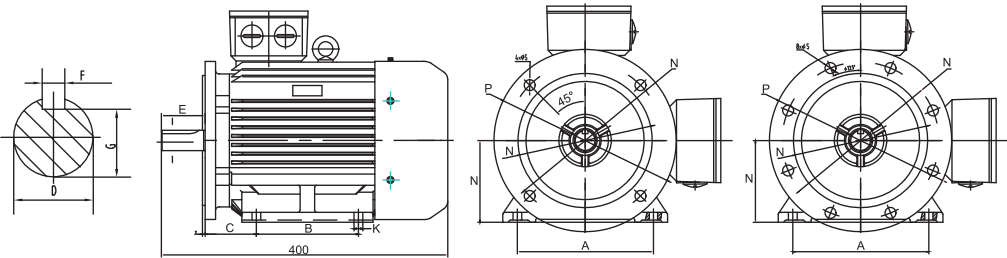
机座 Frame	级数 Poles	安装尺寸 Mounting					轴伸尺寸 Shaft				外形尺寸 External				
		A	B	C	H	K	D	E	F	G	AB	AC	AD	HD	L
90S	≧2	140	100	56	90	10	24	50	8	20	180	195	165	260	360
90L	≧2	140	100	56	90	10	24	50	8	20	180	195	165	260	390
100L	≧2	160	140	63	100	12	28	60	8	24	205	215	180	275	435
112M	≧2	190	140	70	112	12	28	60	8	24	230	240	190	300	470
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	395	330	255	420	700
200L	≧2	318	305	133	200	18.5	55	110	16	49	550	420	305	505	790
280S	2	457	368	190	280	24	65	140	18	58	550	580	410	680	985
280S	≧4	457	368	190	280	24	75	140	20	67.5	550	580	410	680	985
280M	2	457	419	190	280	24	65	140	18	58	550	580	410	680	1035
280M	≧4	457	419	190	280	24	75	140	20	67.5	635	580	410	680	1035
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

外形及安装尺寸 Mounting dimension IM B5、IM V1



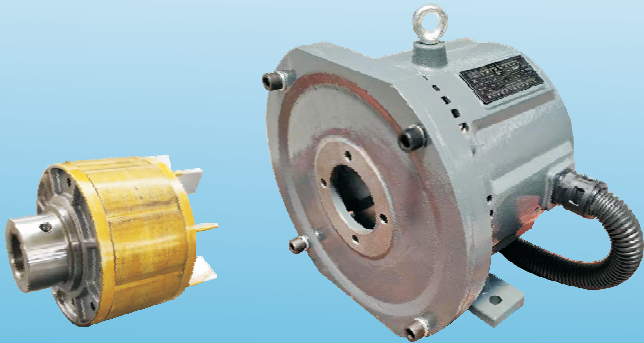
机座 Frame	级数 Poles	轴伸尺寸 Shaft				安装尺寸 Mounting					凸缘尺寸 External					
		D	E	F	G	AC	AD	HF	L	LL	No.	M	N	P	S	T
90S	≧2	24	50	8	20	195	165	—	360	—	FF165	165	130	200	12	3.5
90L	≧2	24	50	8	20				390							
100L	≧2	28	60	8	24	215	180	245	435	—	FF215	215	180	250	14.5	4
112M	≧2	28	60	8	24	240	190	265	470	—						
160M	≧2	42	110	12	37	330	255	385	670	—	FF300	300	250	350	18.5	5
160L	≧2	42	110	12	37				700							
200L	≧2	55	110	16	49	420	305	480	790	940	FF350	350	300	400	18.5	5
280S	2	65	140	18	58	580	410	650	985	1150	FF500	500	450	550	18.5	5
280S	≧4	75	140	20	67.5											
280M	2	65	140	18	58				1035	1385						
280M	≧4	75	140	20	67.5											
315S	2	65	140	18	58	645	530	900	—	1480	FF600	600	550	660	24	6
315S	≧4	80	170	22	71					1510						
315M	2	65	140	18	58					1590						
315M	≧4	80	170	22	71					1620						
315L	2	65	140	18	58					1590						
315L	≧4	80	170	22	71					1620						

外形及安装尺寸 Mounting dimension IM B35



TYC系列空压机用永磁同步一体机

Permanent Magnet synchronous machine for TYC series air compressor



TYC系列（中心高H：112mm-225mm，KW：5.5KW-75KW）电机是针对空压机市场开发的空压机用永磁同步一体机。一般电压为380V，防护等级IP23，具有高效、节能、噪音低、振动小、可靠性能高等特点，其功率等级及安装尺寸完全符合IEC标准。

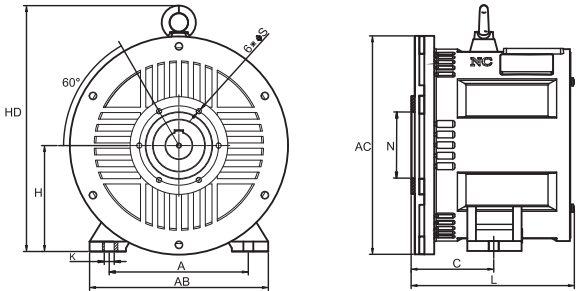
TYC series (center height H: 112mm-225mm, KW: 5.5 KW-75kw) is developed for the air compressor market with permanent magnet synchronous machine. The general voltage is 380V, protection grade IP23, with high efficiency, energy saving, low noise, small vibration, high reliability and so on.

机座 Frame	级数 Poles	安装尺寸 Mounting					轴伸尺寸 Shaft				凸缘尺寸 External					
		A	B	C	H	K	D	E	F	G	No.	M	N	P	S	T
90S	≧ 2	140	100	56	90	10	24	50	8	20	FF165	165	130	200	12	3.5
90L	≧ 2	140	100	56	90	10	24	50	8	20						
100L	≧ 2	160	140	63	100	12	28	60	8	24						
112M	≧ 2	190	140	70	112	12	28	60	8	24	FF215	215	180	250	14.5	4
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						
200L	≧ 2	318	305	133	200	18.5	55	110	16	49	FF350	350	300	350	18.5	5
280S	2	457	368	190	280	24	65	140	18	58	FF500	500	450	550	18.5	18.5
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	71						
315S	2	508	406	216	315	28	65	140	18	58	FF600	600	550	660	24	6
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						

产品技术数据Technical data(380V/50Hz)

规格型号	TYC112		TYC132		TYC160	TYC180			TYC225	
	S-8/5.5	M-8/7.5	S-8/11	M-8/15	M-8/22	L-8/30	L-8/37	L-8/45	L-8/55	L-8/75
额定转速	3000rpm	3000rpm	3000rpm	3000rpm	3000rpm	3000rpm	3000rpm	3000rpm	3000rpm	3000rpm
额定频率	2000Hz	200Hz	200Hz	200Hz	200Hz	200Hz	200Hz	200Hz	200Hz	200Hz
额定功率	5.5KW	7.5KW	11KW	15KW	22KW	30KW	37KW	45KW	55KW	75KW
额定电压	380V	380V	380V	380V	380V	380V	380V	380V	380V	380V
额定电流	11.1A	13A	19A	25.5A	35.5A	50.5A	62A	62A	99A	127A
效率	90.5%	91.5%	92.6%	93.5%	94.5%	95.0%	94.8%	94.8%	96%	96%

外形及安装尺寸 Mounting dimension IM B35



规格型号 Frame Size	功率 Power	安装尺寸 Mounting									
		A	AB	H	K	HD	AC	N	C	L	φ S
TYC112	5.5KW	188	220	110	12	257	235	95	90	177	8.5
TYC112	7.5KW	188	220	110	12	257	235	95	90	177	8.5
TYC132	11KW	270	305	150	13.5	335	285	90	114	193	8.5
TYC132	15KW	270	305	150	13.5	335	285	90	114	193	8.5
TYC160	22KW	270	300	150	13.5	365	315	150	114	198	8.5
TYC180	30KW	270	326	180	13.5	415	350	160	122	230	11
TYC180	37KW	270	326	180	13.5	415	350	160	122	230	11
TYC180	45KW	270	326	180	13.5	415	350	160	122	230	11
TYC225	55KW	400	466	225	22	495	440	220	185	320	13
TYC225	75KW	400	466	225	22	495	440	220	185	320	13

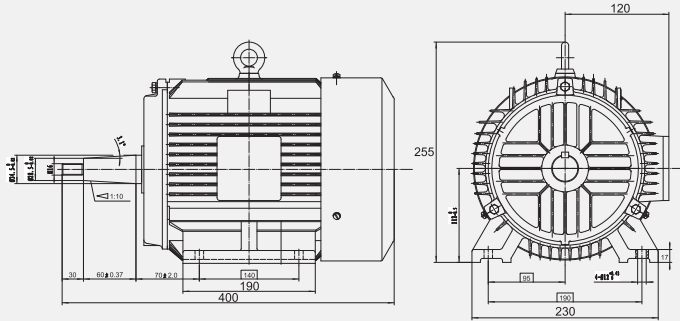
超高效率纺织电动机 Super efficient textile motor



超高效率纺织电动机采用永磁同步电机结构，相比同功率普通异步电机，节能可达25.5%-32.8%，同时大幅度减少了外部电网的无功损耗，纺织车间室内环境温度也能得到明显改善。

The super high efficiency textile motor adopts permanent magnet synchronous motor structure, compared with common asynchronous motor with the same power, the energy saving can reach 25.5%-32.8%, and at the same time, the reactive power loss of the external power grid is greatly reduced, the indoor environment temperature of the textile workshop can also be significantly improved.

外形及安装尺寸 Mounting dimension



规格型号	机座号	额定功率	额定电流	额定频率	额定转速	效率	功率因数	极数	重量	防护等级
TYP-112M-2.2KW	112M	2.2KW	3.82A	97HZ	1455rpm	94.6%	0.98	8	40Kg	IP55

Relevant authoritative data 相关权威数据 >>

技术授权合同

甲方：广州宇和机电科技有限公司
乙方：江西方得机电科技有限公司
经双方友好协商，达成以下协议：

一、甲方同意授权乙方使用甲方专利，乙方同意授权乙方使用甲方专利。

二、乙方同意授权乙方使用甲方专利，乙方同意授权乙方使用甲方专利。

三、乙方同意授权乙方使用甲方专利，乙方同意授权乙方使用甲方专利。

四、乙方同意授权乙方使用甲方专利，乙方同意授权乙方使用甲方专利。

五、乙方同意授权乙方使用甲方专利，乙方同意授权乙方使用甲方专利。

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检测报告

检测机构：中国合格评定国家认可委员会
检测标准：GB 19954-2015
检测项目：永磁同步电动机能效等级检测

检测结论：该电动机能效等级为IE3，符合GB 19954-2015标准要求。

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EP100 series air compressor integrated machine EP100系列空压机一体机



- ◎ 频率控制范围：0~500Hz
- ◎ 载波频率：0.5kHz ~ 15kHz 可根据负载特性，自动调整载波频率
- ◎ 过载能力：150%额定电流60s，180%额定电流3s
- ◎ 标准IS485通讯接口
- ◎ 内置PID，可方便实现闭环控制
- ◎ 先进的散热设计，相比其他变频器温升低
- ◎ 电机过热保护（PTC），上电对地短路保护，变频器过流、过载、过压、欠压、过热、输出缺相、通讯故障、电流检测故障、EEPROM 读写故障等

- Frequency range: 0~500Hz
- Carrier frequency:0.5kHz~15kHz Allow adjust carrier frequency automatically based on features of load
- Overload capacity:1 minute for 150% rated current and 10 seconds for 180% rated current
- Standard RS485 communication port
- Built-in PID,convenient to realize closed-loop control
- Advanced heat dissipation design,low temperature rise comparing with other inverters
- PTC protection,short circuit protection,overcurrent,overload, overvoltage,undervoltage,overheat,phase loss,communication fault,EEPROM read and write fault etc

120K series air compressor special permanent magnet driver 120K系列空压机专用永磁驱动器

同步了，自然节能了

Synchronous and energy-saving



- ◎ 频率控制范围：0.00~600.00Hz
- ◎ 频率分辨率：数字给定0.01Hz，模拟量给定0.1%*最大频率
- ◎ 载波频率：2.0kHz~10.0kHz
- ◎ 额定负载稳定运行，150%/1min,180%/10S
- ◎ 全系列采用充足裕量设计，产品稳定性高
- ◎ 独特的散热通道设计，相比同行业变频器温升低
- ◎ 输入和输出缺相、输出短路保护等超过20种保护功能

- Frequency control scope: 0.00~600.00Hz;
- Frequency resolution: digital given 0.01Hz, analog given 0.1% * maximum frequency;
- Carrier frequency: 2.0kHz~10.0kHz;
- When speed stabilizing operate at rated load , frequency inverter 150% of output can last 1min and 180% of output can last 10s.
- Sufficient allowance design provides high product stability.
- Unique heat dissipation channel design with lower temperature rise;
- Over 20 protection functions, including input and output phase loss, output short-circuit protection and so on.

160B series plug-in permanent magnet synchronous driver 160B系列插件式永磁同步驱动器



- ◎ 变频器采用高性能的矢量控制技术，低速转矩大，转矩脉动小。
- ◎ 支持多种编码器类型，组合功能丰富强大，性能稳定。
- ◎ 稳速精度高，调速范围广，具有良好的动态特性、超强的过载能力。
- ◎ 标配 RS485 通讯接口，支持Modbus RTU通讯，实现与产品的快速总线联接。
- ◎ 过压、过流、掉载、超速等多重保护功能。
- ◎ 严格的产品设计规范保障产品可靠性。
- ◎ 大余量降额设计，长寿命设计，独立风道设计，抵抗各种严酷污染环境。

- The inverter adopts high-performance vector control technology, with large torque at low speed and small torque ripple.
- Support a variety of encoder types, with rich and powerful combination functions and stable performance.
- High speed stabilization accuracy, wide speed regulation range, good dynamic characteristics and super overload capacity.
- Standard RS485 communication interface, support Modbus RTU communication, realize fast bus connection with the product.
- Multiple protection functions such as overvoltage, overcurrent, load loss, and overspeed.
- Strict product design specifications ensure product reliability.
- Large margin derating design, long life design, independent air duct design, resistance to all kinds of harsh pollution environment.