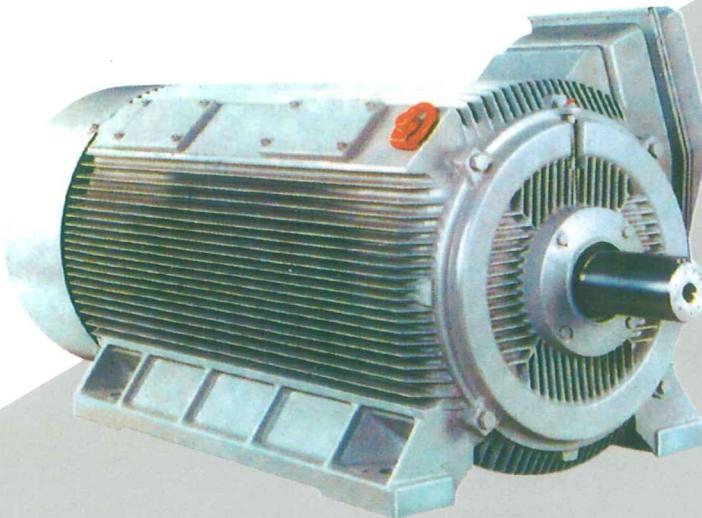


YPTZ、YPTQ 系列

三相交流变频调速异步电动机

Series YPTZ、YPTQ 3-Phase AC Frequency-Control Variable-Speed
Asynchronous Motor



兰州电机有限责任公司
LANZHOU ELECTRIC CORPORATION

YPTZ、YPTQ 系列三相交流变频调速异步电动机

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简介

兰州电机有限责任公司（原兰州电机厂）是西北地区最大的制造电机和发电设备的国家大型一档企业，1994年在全国同行业中率先通过ISO9001质量体系认证，同年进入国家认定的企业技术中心行列。公司现有员工五千余人，其中工程技术人员674人，5人享受政府专家津贴。公司占地面积58万平方米，拥有主要设备845台，具有国际先进水平的进口设备60台。公司生产的主要产品有：变频调速电机、船用发电机、一般交流发电机、大中型交流电机、大中型直流电机、交流伺服主轴及步进电机、小型交流电动机、移动电站、柴油发电机组、高低压控制屏、中频、双频、双流特殊发电机、超高转差率电机、中小型水轮发电机组等，年综合生产能力达300万千瓦。“LD”牌系列产品性能卓越，质量优异，产品饮誉国内32个省、市自治区，并销往二十多个国家和地区。

Briefing

Lanzhou Electric Corporation (formerly, Lanzhou Electric Manufactory), a state first-grade enterprise, is one of the largest manufacturers that produces electric machines and generating equipment in Northwest of China. It firstly passed "ISO 9001 Quality Assurance System" certification among the electrical machine industry in 1994, and ranked in the line of the "State-Confirmed Enterprise Tech-Center". There are more than 6000 staff in our corporation, including 674 engineering technicians, of which 5 enjoy the specialist rewards of government. The corporation covers an area of 58ha and has 845 sets of advanced equipment, of which 60 sets are imported equipment with international level. The main products made by Corporation include medium/large-sized ac motor, medium/large-sized dc electrical machine, alternator for general purpose, frequency-control variable-speed motor, ac servo motor, main spindle motor & step-motor, diesel-engine generator set, high/low-voltage control board, medium/double-frequency & double-current generator for special use, super-slip motor, marine alternator and small/medium-sized water wheel generator set etc. The annual comprehensive production capacity comes up to 3.000 MW. The products of "LD" series are excellent in quality and outstanding in performance, and enjoys high reputation at home and abroad, which has been sold to 32 provinces, cities and autonomous regions and exported to more than 20 countries and regions.

概述

YPTZ、YPTQ 三相交流变频调速异步电动机，是我公司集几十年生产高低压电机的经验，吸收国内外的先进技术，结合目前国际电力电子技术和控制技术的发展，成功开发的新一代变频调速电动机。根据变频器的不同，可设计成与矢量控制类，直接转矩控制等，VVVF 控制类及 V/F 控制类，使用GTO、IGBT 或 IGCT 等电力电子元件的变频器进行匹配运行的变频调速电动机，可直接承受变频器功率元件换流引起的dv/dt 波涌电压冲击及高频谐波引起的轴电压对电机轴承的影响，可运行于恒转矩、恒功率及泵类负载等不同负载场合。

本系列产品设计精美，力能指标高，可靠性强，振动及噪音小，运行稳定，安装维护方便，自1995年投放市场以来深受用户青睐。本系列变频调速电动机采用F级绝缘，基本系列电压按690V设计，也可设计成380V、660V、400V及850V等不同电压等级，安装尺寸及功率均符合IEC72、IEC34 标准。

General

Series YPTZ, YPTQ 3-phase ac frequency-control variable-speed asynchronous motors are the latest generation products successfully developed by LEC, which bases on ten years' experience of manufacturing hi/low voltage electric machine, and takes advantage of domestic & foreign advanced technology, and combines them with the development of current international power, electronics technology and control technique. According to the different frequency converter, we can design the frequency-control variable-speed motors, which are able to fit with converter of vector control type, direct torque control type, VVVF and V/F type using GTO, IGBT or IGCT electronic elements etc., and can directly withstand dv/dt surge voltage caused by current change-over of power elements of the frequency converter, and resist the effect of shaft voltage caused by the hi-frequency harmonic wave on the bearing of motor, and it can be operated in the different conditions such as the constant torque, constant power and pumps load.

This series of products are excellent in design, high in energetic properties, excellent in reliability, low in vibration and noise, steady in operation, convenient in installation and maintenance, which have been popular with user after putting into market since 1995. This series of frequency-control variable-speed motors are of insulation class F. The basic series of motor can be designed according to different voltage such as 380V 600V, 400V, 690V and 850V. The mounting dimensions and output are in conformity with standards IEC72 and IEC34.

YPTZ、YPTQ 系列三相交流变频调速异步电动机

Series YPTZ、YPTQ 3-Phase AC Frequency-Control Variable-Speed Asynchronous Motor

用 途

本系列电动机适用于拖动压缩机、通风机、水泵、破碎机、卷扬机、提升机、卷板机、平整机、搅拌机、回转窑、钻机、牵引机车等。供矿山工业、机械工业、石油化工工业、造纸工业、冶金工业、建材工业等行业需要调速的场合与变频器配套运行，作原动机用。

安 装 型 式

卧式：

- 标准电动机的安装方式：IM B3
- 根据用户需要也可提供其他安装方式，如：IM B35、IM VI等。

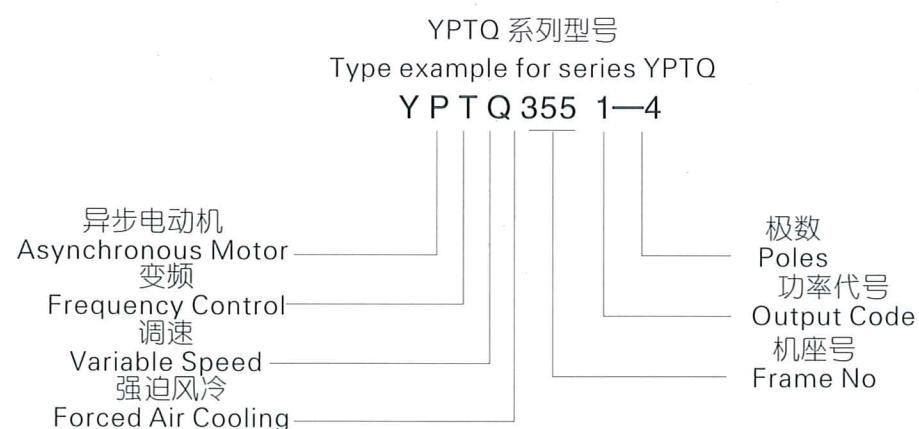
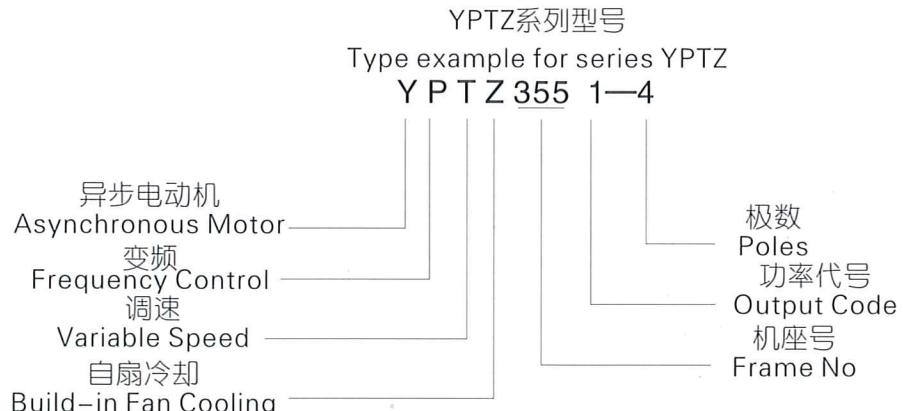
防 护 等 级

- IP54；

冷 却 方 法

- YPTZ 系列为IC411
- YPTQ 系列为IC416

型 号 说 明



Application

The series of motors are suitable to drive compressor, blower, water pump, breaker, hoist, elevator, veneer reeling machine, planisher, mixer, rotary kiln, rig and locomotive etc, and used as a prime motor operated together with the frequency converter on the occasion necessary to make variable-speed in mining industry, mechanical industry, petrochemical industry, papermaking industry, mechanical industry, petrochemical industry, papermaking industry, metallurgical industry and building materials industry etc..

Mounting Arrangement

horizontal shaft:

- Mounting arrangement of the standard motor: IM B3;
- For other mounting arrangement on user's request: e.g. IM B35, IM VI etc..

Degrees of protection

- IP54;

Method of cooling

- IC411 for series YPTZ;
- IC416 for series YPTQ.

Designation

YPTZ、YPTQ 系列三相交流变频调速异步电动机

Series YPTZ、YPTQ 3-Phase AC Frequency-Control Variable-Speed Asynchronous Motor

主要特点

- 结构紧凑、体积小、重量轻;
- 具有很高的运行效率;
- 机座、端盖选用高强度铸铁材料，通过先进的铸造工艺（见图02）铸造而成。优秀的设计和精良的工艺使得本系列电动机具有很好的散热，电动机机座和端盖有较高的强度和刚度;
- 线圈铁心选用外压装工艺。装配质量好，维修方便;
- 绕组经过真空压力浸漆（见图03）处理，从而提高了绕组的绝缘可靠性;
- 特殊的绝缘系统，抗高频谐波冲击;
- 定子绕组端部（见图01）排列整齐，固定可靠;
- 绝缘轴承结构，抗轴电压;
- 电动机所有的零件均经过防腐处理，能满足“三防”要求;
- 采用特殊的冷却结构，使电动机具有理想的冷却效果;
- 接线盒结构紧凑，防护等级高，有连接可靠的接线端子。接线方式灵活，可多方位接线。

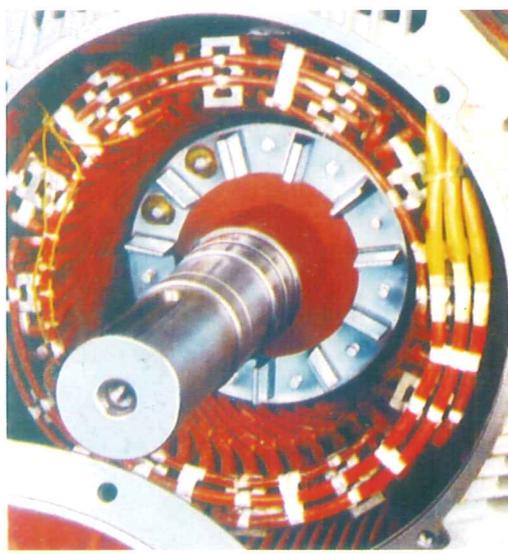


图01电动机的轴伸端端部（卸去前端盖）

Fig.01 The End (Front End-cover Removed) of the Motor on the Shaft Extension Side

Main Features

- Compact in construction, small in volume &light in weight;
- High running efficiency;
- Frame& end cover are completed by precisely casting workmanship with high-grade cast iron (See fig.02). good design & excellent machining workmanship make these motors have Good heat radiation. The frame & end cover obtain high strength & rigidity;
- Integrated stator iron-pack is forcedly fitted into the frame with good quality assembly & convenient for maintenance;
- The insulation reliability of windings is improved because they are to be treated by VPI(see fig.03);
- Special insulation system, high frequency harmonic shock resistance;
- The ends of the stator coils are evenly arranged & fixed reliably (See fig.01);
- Insulating bearing construction, shaft voltage resistance;
- All parts of the motor are to be treated with special anti-corrosive process, so it may be run well in the humid tropical region;
- The motor is designed with a special cooling method to make itself has a ideal cooling result;
- The terminal box has compact construction, high-grade degree of protection &reliable connection terminals. it can be connected in multi-position.



图02德国树脂砂造形生产线

Fig.02 THe Resin Sand Mold Production Line Made in Germany

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Series YPTZ、YPTQ 3-Phase AC Frequency-Control Variable-Speed Asynchronous Motor



图03真空压力浸渍设备

Fig.03 The Vacuum Pressure Impregnating Plant

使用条件与工作制

- 海拔不超过1000m;
- 环境温度范围: $-15^{\circ}\text{C} \sim +40^{\circ}\text{C}$;
- 电动机运行时允许电压偏差: $\pm 5\%$ (高精度控制除外)
- 额定频率: 50Hz, 允许频率偏差: $\pm 1\%$; (高精度控制除外) 可设计运行于不同基频点的变频调速电动机, 也可运行于其它工作制;
- 电动机适用于联轴器传动;
- 基本工作制: 连续(SI), 也可运行于其它工作制。

Series Conditions and Duty

- Altitude doesn't exceed: 1000m;
- Ambient temperature: $-15^{\circ}\text{C} \sim +40^{\circ}\text{C}$;
- Permissible voltage deviation at running: 5%; (excluding the high accuracy control);
- Rated frequency: 50Hz, Permissible deviation: $\pm 1\%$; (excluding the high accuracy control), frequency-control variable-speed motor can be designed with operation at a different fundamental point;
- The motor is suitable to drive load with coupling;
- Basic duty: SI, can also be operated at the other duties



图04 美国MOORE数控坐标座床

Fig.04 American MOORE Co., NC Jig Grinder

YPTZ、YPTQ 系列三相交流变频调速异步电动机

Series YPTZ、YPTQ 3-Phase AC Frequency-Control Variable-Speed Asynchronous Motor

YPTZ/YPTQ 系列三相交流变频调速异步电动机型谱

List of output for series YPTZ/YPTQ 3-Phase ac frequency-control variable-speed asynchronous motor

中心高 shaft height		极数 pole			
		2	4	6	8
		功率 (kw) output			
315	1	185	200	185	132
	3	200	220	200	160
	5	220	250	220	(180)
	7		280		
355	1	250	315	250	200
	3	280	355	280	220
	5	315	400	315	250
	7	355	450	355	280
400	1	400	500	400	315
	3	450	560	450	355
	5	500	630	500	
450	1	560	710	560	400
	3	630	800	630	450
	5	710	(860)	710	500
	7	800		(770)	
500	1	900	900	800	560
	3	1000	1000	900	630
	5	1120	1120	(960)	(680)
	7		(1200)		
560	1	1250	1250	1000	710
	3	1400	1400	1120	800
	5		1600	1250	900
	7			(1320)	1000



图05 西班牙 FAGOR 的 3000 KN 龙门压力机

Fig.05 Spanish FAGOR 3 000 KN Straight Side Press

YPTZ/YPTQ 三相交流变频调速异步电动机在额定频率50Hz时的性能数据（设计值）

Perfotamanee Data (Design Value) at Rated Frequency 50Hz For YPTZ/YPTQ

3-Phase Frequency-Control Variable-Speed Asynchronous Motor

机座号 Frame No	极数 Pole	额定电压 Rated Voltage (V)	额定功率 Rated Output (kW)	额定电流 Rated Current (A)	额定转矩 Rated Torque (N.m)	额定转速 Rated Speed (r/min)	效率 Efficiency (%)	功率因数 P.F. (cosΦ)	堵转电流 额定电流 (Ist/I _n)	堵转转矩 额定转矩 (Tst/T _n)	最大转矩 额定转矩 (Tmax/T _n)	重量 Weight (kg)	
												YPTZ	YPTQ
315	1	2	690	185	185.6	593.1	2979	94.8	0.88	7.7	1.5	2.8	900 1050
	3		690	200	200.6	640.7	2981	95	0.88	8.7	1.8	3.1	1100 1250
	5		690	220	220	705	2980	95.1	0.88	8.2	1.7	3	1300 1450
355	1	2	690	250	249.9	801.7	2978	95.2	0.88	6.8	1.4	2.2	1900 2100
	3		690	280	279.4	898.2	2977	95.3	0.88	6.2	1.3	2.1	2000 2200
	5		690	315	313.6	1009.1	2981	95.5	0.88	7.2	1.5	2.4	2100 2300
	7		690	355	352.7	1136.5	2983	95.7	0.88	7.5	1.6	2.5	2300 2500
400	1	2	690	400	392.5	1280.6	2983	95.8	0.89	6.5	1.0	2.2	2900 3150
	3		690	450	441.2	1442.1	2980	95.9	0.89	5.8	0.9	2.0	3100 3350
	5		690	500	489.2	1598.6	2987	96.1	0.89	8.3	1.4	2.8	3300 3550
450	1	2	690	560	541.8	1792.8	2983	96.1	0.9	7.2	0.7	2.4	3600 3950
	3		690	630	608.2	2015.6	2985	96.3	0.9	7.8	0.78	2.5	3800 4150
	5		690	710	684.7	2271.5	2985	96.4	0.9	7.2	0.7	2.3	4100 4350
	7		690	800	770	2556.9	2988	96.6	0.9	8.6	0.85	2.8	4400 4750
500	1	2	690	900	856.7	2880.4	2984	96.6	0.91	7.5	0.65	2.6	5000 5450
	3		690	1000	950.9	3199.2	2985	96.7	0.91	7.8	0.7	2.7	5300 5750
	5		690	1120	1063.9	3584.5	2984	96.8	0.91	7.2	0.62	2.5	5600 6050
560	1	2	690	1250	1187.4	3993.8	2989	96.8	0.91	8.8	0.6	2.9	7200 7800
	3		690	1400	1327.1	4473	2989	97	0.91	8.0	0.6	2.7	7500 8100

YPTZ/YPTQ 三相交流变频调速异步电动机在额定频率50Hz时的性能数据（设计值）

Perfotamanee Data (Design Value) at Rated Frequency 50Hz For YPTZ/YPTQ

3-Phase Frequency-Control Variable-Speed Asynchronous Motor

机座号 Frame No	极数 Pole	额定电压 Rated Voltage (V)	额定功率 Rated Output (kW)	额定电流 Rated Current (A)	额定转矩 Rated Torque (N.m)	额定转速 Rated Speed (r/min)	效率 Efficiency (%)	功率因数 P.F. (cosΦ)	堵转电流 额定电流 (Ist/I _n)	堵转转矩 额定转矩 (Tst/T _n)	最大转矩 额定转矩 (Tmax/T _n)	重量 Weight (kg)	
												YPTZ	YPTQ
315	1	4	690	200	205	1286.2	1485	94.9	0.86	8.3	1.7	2.6	1200 1350
	3		690	220	225.3	1414.8	1485	95.0	0.86	8.0	1.6	2.7	1300 1450
	5		690	250	255.5	1607.7	1485	95.2	0.86	8.0	1.6	2.7	1500 1650
	7		690	280	285.9	1800.7	1485	95.3	0.86	8.1	1.7	2.7	1700 1850
355	1	4	690	315	320.9	2021.7	1488	95.5	0.86	7.6	1.8	2.3	1900 2100
	3		690	355	361.6	2278.4	1488	95.6	0.86	7.7	1.8	2.3	2000 2200
	5		690	400	406.7	2567.2	1488	95.7	0.86	7.8	1.8	2.4	2200 2400
	7		690	450	456.5	2886.2	1489	95.9	0.86	8.3	1.9	2.6	2400 2600
400	1	4	690	500	500.9	3202.5	1491	96	0.87	7.6	1.6	2.5	3000 3250
	3		690	560	560.4	3591.7	1489	96.1	0.87	7.8	1.8	2.5	3200 3450
	5		690	630	629.8	4035.2	1491	96.2	0.87	7.8	1.9	2.5	3400 3600
450	1	4	690	710	709.1	4541.5	1493	96.3	0.87	8.4	1.7	2.7	3800 4150
	3		690	800	798.1	5113.8	1494	96.4	0.87	8.7	1.8	2.8	4100 4450
	5		690	860	857.1	5501	1493	96.5	0.87	8.2	1.5	2.6	4500 4850
500	1	4	690	900	897	5768.5	1490	96.5	0.87	6.5	0.58	2.4	4900 5300
	3		690	1000	995.6	6400.88	1492	96.6	0.87	6.5	0.55	2.4	5100 5500
	5		690	1120	1113.9	7173.7	1491	96.7	0.87	6.5	0.55	2.3	5300 5700
	7		690	1200	1193.5	7681	1492	96.7	0.87	6.5	0.55	2.3	5600 6000
560	1	4	690	1250	1243.2	7990.3	1494	96.7	0.87	6.7	0.5	2.2	7200 7800
	3		690	1400	1391	8949.1	1494	96.8	0.87	6.8	0.5	2.2	7600 8200
	5		690	1600	1589.7	10220.7	1495	96.8	0.87	7.3	0.6	2.4	7900 8500

YPTZ/YPTQ 三相交流变频调速异步电动机在额定频率50Hz时的性能数据（设计值）
 Perfotamanee Data(Design Value) at Rated Frequency 50Hz for YPTZ/YPTQ
 3-Phase Frequenc-Control Variable-Speed Asynchronous Motor

机座号 Frame No		极数 Pole	额定电压 Rated Voltage (V)	额定功率 Rated output (kW)	额定电流 Rated Current (A)	额定转距 Rated Torque (N.m)	额定转速 Rated Speed (r/min)	效率 Efficiency (%)	功率因数 P.F. (cosΦ)	堵转电流 额定电流 (Ist/I_n)	堵转转距 额定转距 (Tst/T_n)	最大转距 额定转距 (Tmax/T_n)	重量 Weight (kg)	
													YPTZ	YPTQ
315	1	6	690	185	192.1	1728.8	991	94.8	0.85	8	2.1	2.6	1300	1450
	3		690	200	207.2	1927.3	991	95	0.85	8.2	2.2	2.6	1500	1650
	5		690	220	227.5	2120	991	95.2	0.85	8.5	2.4	2.8	1700	1850
355	1	6	690	250	258.2	2406.8	992	95.3	0.85	7.8	2	2.6	1900	2100
	3		690	280	288.9	2692.8	993	95.4	0.85	7.9	2	2.6	2000	2200
	5		690	315	324.4	3029.5	993	95.6	0.85	8.2	2.1	2.8	2200	2400
	7		690	355	364.4	3414.1	993	95.9	0.85	8.6	2.3	2.8	2400	2600
400	1	6	690	400	410.6	3850.8	992	95.9	0.85	7.8	2.1	2.5	3000	3250
	3		690	450	461.4	4332.2	992	96.0	0.85	7.6	2.0	2.4	3200	3450
	5		690	500	511.6	4808.7	993	96.2	0.85	8.8	2.4	2.8	3400	3650
450	1	6	690	560	566.4	5396.6	991	96.2	0.86	6.4	1.6	2.1	3800	4250
	3		690	630	636.5	6071.1	991	96.3	0.86	6.4	1.7	2.1	4100	4450
	5		690	710	716.6	6835.2	992	96.4	0.86	6.6	1.8	2.2	4500	4850
	7		690	770	777.2	7412.8	992	96.4	0.86	6.8	1.7	2.2	4700	5050
500	1	6	690	800	807.4	7701.6	992	96.4	0.86	6.5	0.8	2.5	5600	6050
	3		690	900	907.4	8664.3	992	96.5	0.86	6.5	0.9	2.5	5900	6350
	5		690	960	967.9	9232.6	993	96.5	0.86	7.6	0.95	2.6	6100	6550
560	1	6	690	1000	1006.2	9607.6	994	96.7	0.86	6.1	0.62	2.2	7000	7600
	3		690	1120	1125.7	10760.6	994	96.8	0.86	6.1	0.61	2.1	7500	8100
	5		690	1250	1255.1	12009.6	994	96.9	0.86	5.8	0.61	2.2	7800	8400
	7		690	1320	1325.4	12682.1	994	96.9	0.86	6.0	0.6	2.1	8000	8600

YPTZ/YPTQ 三相交流变频调速异步电动机在额定频率50Hz时的性能数据（设计值）
 Perfotamanee Data(Design Value) at Rated Frequency 50Hz for YPTZ/YPTQ
 3-Phase Frequenc-Control Variable-Speed Asynchronous Motor

机座号 Frame No		极数 Pole	额定电压 Rated Voltage (V)	额定功率 Rated output (kW)	额定电流 Rated Current (A)	额定转距 Rated Torque (N.m)	额定转速 Rated Speed (r/min)	效率 Efficiency (%)	功率因数 P.F. (cosΦ)	堵转电流 额定电流 (Ist/I_n)	堵转转距 额定转距 (Tst/T_n)	最大转距 额定转距 (Tmax/T_n)	重量 Weight (kg)	
													YPTZ	YPTQ
315	1	8	690	132	147.5	1705.8	739	93.6	0.8	6.5	2	2.3	1300	1450
	3		690	160	178.4	2067.7	739	93.8	0.8	6.6	2	2.3	1500	1650
	5		690	180	200	2326.1	740	94.1	0.8	6.6	2	2.3	1700	1800
355	1	8	690	200	221.6	2570.7	743	94.4	0.8	7.1	2.1	2.3	1900	2100
	3		690	220	243.2	2827.7	743	94.6	0.8	7.3	2.1	2.4	2000	2200
	5		690	250	275.8	3213.3	743	94.7	0.8	7.2	2.1	2.4	2200	2400
	7		690	280	308.9	3598.9	743	94.8	0.8	7.3	2.1	2.3	2400	2600
400	1	8	690	315	342.2	4043.3	744	95.1	0.81	6.5	1.7	2.2	3100	3350
	3		690	355	389.6	4556.8	744	94.3	0.81	6.6	1.7	2.3	3400	3650
450	1	8	690	400	432.7	5141.3	743	95.5	0.81	6.8	1.8	2.2	4100	4450
	3		690	450	485.7	5784	743	95.7	0.81	6.9	1.8	2.3	4300	4650
	5		690	500	539.2	6426.6	743	95.8	0.81	7.0	1.9	2.3	4600	4950
500	1	8	690	560	600.1	7197.8	743	95.8	0.815	6.5	0.8	2.7	5600	6050
	3		690	630	674.5	8097.6	743	95.9	0.815	6.5	0.82	2.6	5900	6350
	5		690	680	727.2	9740.2	743	96	0.815	6.5	0.8	2.6	6100	6950
560	1	8	690	710	758.5	9101.3	745	96.1	0.815	6.0	0.65	2.4	6900	7500
	3		690	800	853.8	10255	745	96.2	0.815	6.2	0.7	2.5	7200	7800
	5		690	900	924	11536.9	745	96.5	0.815	6.1	0.68	2.5	7600	8200
	7		690	1000	1062.8	12818.8	745	96.6	0.815	6.2	0.7	2.5	8100	8700

YPTZ、YPTQ 系列三相交流变频调速异步电动机

Series YPTZ、YPTQ 3-Phase AC Frequency-Control Variable-Speed Asynchronous Motor

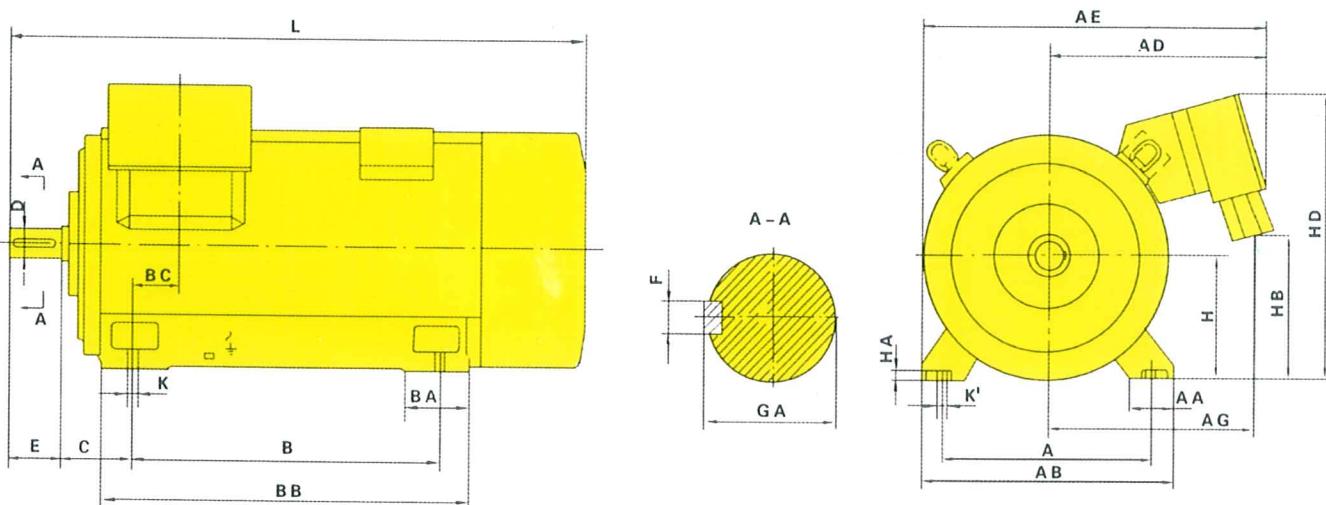


图06YPTZ/YPTQ系列三相交流变频调速异步电动机外型尺寸图

Fig.06 Outline dimensions for series YPTZ/YPTQ 3-phase ac frequency-control variable-speed asynchronous motor



图07英国Jones&Shipman的F5-200

型精密平面磨床

Fig.07 English Jones&shipman F5-200VNC Surface Grinding Machine



图08日本Sodick的A500W-E型线切割

Fig.08Japanese Sodick A50W-E Wire Cutter

YPTQ型结构型式IM B3、用滚动接触轴承的电动机 符号及尺寸[IEC]
 Type of Construction for YPTQ:IM B3, the motor with Rolling Contact Bearing
 Symbol and Dimensions[IEC]

机座号: 315~560 Frame No.315~560

机座号 frame no	极数 pole	A	B	C	D	E	F	H	L	AB	AD	AE	AG	BA	AA	BB	BC	K	K'	GA	HA	HB	HD
315	2	560	630	180	65	140	18	315	1370	680	680	1020	560	180	120	780	195	26	33	69	28	330	835
	4-8				85	170	22		1400											90			
355	2	630	800	200	75	140	20	355	1595	780	710	1100	585	220	150	980	185	33	40	79.5	35	400	905
	4-8				95	170	25		1625											100			
400	2	710	900	224	80	170	22	400	1785	860	875	1305	775	220	150	1080	186	33	40	85	35	440	1025
	4-8				110	210	28		1825											116			
450	2	800	1000	250	90	170	25	450	1945	980	910	1400	810	260	180	1220	170	39	47	95	42	525	1110
	4-8				120	210	32		1985											127			
500	2	850	1250	280	95	170	25	500	2305	1030	899	1414	809	260	180	1490	220	42	48	100	65	580	1161
	4-8				130	250	32		2385											137			
560	4	950	1400	315	130	250	32	560	2600	1160	956	1536	866	300	210	1680	225	48	53	137	76	696	1277
	6-8				140*	250	36		2600											148			

注: Note:

1.*为机座号为 5605-4,5607-4,5601-6,5603-6,5601-8,5603-8的尺寸

Make* indicates dimension of frame No.5605-4,5607-4,5601-6,5603-6,5601-8and 5603-8

2.用滑动轴承的电机尺寸请与公司设计部门联系

Please contact with our design department for dimensions of electric machine using sliding bearing

YPTQ型结构型式IM B3、用滚动接触轴承的电动机 符号及尺寸 [IEC]

Type of Construction for YPTQ: IM B3、the motor with Rolling Contact Bearing

Symbol and Dimensions [IEC]

机座号: 315~560

Frame no.315~560

机座号 frame no	极数 pole	A	B	C	D	E	F	H	L	AB	AD	AE	AG	BA	AA	BB	BC	K	K'	GA	HA	HB	HD
315	2	560	630	180	65	140	18	315	1790	680	680	1020	560	180	120	780	195	26	33	69	28	330	835
	4-8				85	170	22		1820											90			
355	2	630	800	200	75	140	20	355	1980	780	710	1100	585	220	150	980	185	33	40	79.5	35	400	905
	4-8				95	170	25		2010											100			
400	2	710	900	224	80	170	22	400	2160	860	875	1215	775	220	150	1080	186	33	40	85	35	440	1025
	4-8				110	210	28		2200											116			
450	2	800	1000	250	90	170	25	450	2370	980	910	1400	810	260	180	1220	170	39	47	95	42	525	1110
	4-8				120	210	32		2410											127			
500	2	850	1250	280	95	170	25	500	2710	1030	899	1414	809	260	180	1490	220	42	48	100	65	580	1161
	4-8				130	250	32		2710											137			
560	4	950	1400	315	130	250	32	560	2895	1160	956	1536	866	300	210	1680	225	48	53	137	76	696	1277
	6-8				140*	250	36		2895											148			

注: Note:

1.*为机座号为 5605-4,5607-4,5601-6,5603-6,5601-8,5603-8的尺寸

Mark*indicates dimension of frame No. 5605-4,5607-4,5601-6,5603-6,5601-8 and 5603-8

2.用滑动轴承的电机尺寸请与公司设计部门联系

Please contact with our design department for dimensions of electric machine using sliding bearing

YPTZ、YPTQ 系列三相交流变频调速异步电动机

Series YPTZ、YPTQ 3-Phase AC Frequency-Control Variable-Speed Asynchronous Motor

特殊产品

本公司还可承接以下特殊产品（为保证电动机可靠运行，订货时需加签技术协议，作为特殊设计的依据）：

- 海拔和环境温度不符合本系列电动机的使用条件的；
- 除防护等级为IP54的电动机外，具备其他防护等级（如IP21、IP23、IP55等）的；
- 性能指标有特殊要求的；
- 电压等级不为本样本所规定的；
- 需按购方提出的接线方式制造的；
- 需本公司提供随机安装工具以及特殊备附件的；
- 功率不在各表所列范围内的；
- 安装尺寸不符合各表中所列尺寸的；
- 除安装方式为IM B3以外的其他安装方式的；
- 电动机本体需安装其他检测、保护装置以及电加热元件、测温装置的。

订货须知

1、订货时需注明以下各点：

- 变频器类型，特点；
- 负载类型（如：负载转矩-转速曲线）；
- 调速范围及对应特性；
- 电动机的型号；
- 额定功率、额定电压、额定转速、最高转速、额定频率、防护等级以及转向要求（无转向要求时面对电动机轴伸端看为顺时针方向旋转）；
- 安装方式（如：卧式IM B3）；
- 本公司不提供基础螺栓和联轴器（若购方需本公司提供，需专门提出）；
- 有无特殊要求。

2、表中有关的技术数据均为计算值。



图09 生产现场一角

Fig.09 A View of Motor on Production Location

LEC is also capable of accepting an order of the following special products:(In order to ensure the motor running reliably,it is essential to sign a technical agreement as basis for specially designing motor while placing an order for special motor.)

- Altitude & ambient temperature doesn't conform to the service conditions of this series of motor;
- Degrees of protection(e.g.IP21,IP23,IP55,etc.)will be demanded except Ip54;
- Performance index will be demanded specially;
- Voltage classes are not listed in this catalogue;
- Method of connection is to be designed according to the demand of the buyer;
- It is necessary for LEC to supply installation tools with motor&special spare parts&accessories;
- The capacity of the motor is not listed in the table;
- The installation dimensions are not in conformed with those listed in the table;
- The other mounting arrangement except IM B3 will be demanded;
- It is necessary to mount other detector,guarder & electrical heating element,thermometer onto the motor.

Information for Order

1、The following items must be described clearly while placing an order of motors:

- Type of frequency converter, features;
- Type of load(e.g. Load torque-speed curve);
- Variable speed range and correspondence characteristics;
- Type of motor;
- Rated Output, rated voltage, rated speed, top speed, rated frequency, degrees of protection & direction of rotation (CW. Rotation when viewed from shaft extension is normally)
- Mounting arrangement (e.g Horizontal shaft IM B3);
- Usually, we are not able to supply buyer anchor bolts&coupling(if necessary, please place an order for them at extra cost);
- Other special requirements of buyer.

2、The technical data in the table are the calculated values.

Note:

- Sorry, contents in this catalogue are subject to change without notice;
- This catalogue is written in Chinese & English, in the case of diverging interpretations of the Chinese&the English texts the Chinese text shall prevail.



图010西班牙FS-8000数控加工中心

Fig.010 Spanish FS-8000NC Machining Center