



伺服电机定制专家
SERVO MOTOR CUSTOMIZATION EXPERT
— 匠心打造 始于1981 —



浙江金龙电机股份有限公司
ZHEJIANG JINLONG ELECTRICAL MACHINERY STOCK CO., LTD.

Add: No.999 West Jinqing Avenue, Jinqing Town,
Luqiao District, Taizhou City, 318058, Zhejiang, China

地址: 中国浙江台州市路桥区金清镇金清大道西999号

(Tel): 86-576-82899777 82899779(外贸 Expt.)

86-576-82888000 (内销 Domestic)

(Fax): 86-576-82899778 82899777(外贸 Expt.)

86-576-82899998 (内销 Domestic)

Http: //www.jlem.cn

Http: //www.china-jinlong.com

E-mail: jinlong@china-jinlong.com

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ST/TYK/TYC/NEV SERIES
PERMANENT-MAGNET SYNCHRONOUS MOTORS DRIVE
永磁伺服电机 · 驱动器

浙江金龙电机股份有限公司
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关于我们
ABOUT US

金龙电机制造始于1981，匠心打造，伺服电机定制专家。我们立足长三角，是一家集智能伺服永磁电机、异步电机、驱动、变频控制系统的科研、开发、制造、销售、并提供电机系统集成和低碳节能电机解决方案的专业企业、伺服电机定制专家，是中国中小型电机行业协会副理事长单位，是全国旋转电机标委会委员单位和国际IEC标准专家组成员单位。公司占地面积150000平方米，建筑面积100000平方米，现有员工将近1000人，总资产达10亿人民币。

目前我公司形成了永磁伺服电机及驱动控制系列产品、新能源汽车电机及驱动控制系列产品、高效三相异步电机及变频节能系统三大主导产品体系。整个产品覆盖新能源汽车、机器人、数控机床、智能制造、煤矿、石油、环保行业及水泵电机、空压机等通用机械、交通运输领域，为智能化提升行业提供各类产品和解决方案。产品规格齐全，电机功率从0.1KW到1500KW；驱动器、变频器功率从0.1KW到400KW，达到3000多个品种型号，是目前集电机和控制系统一体综合性智能化、产品多元化的制造企业。

公司具有雄厚的科技研发团队，被批准设立省级研发中心暨“浙江金龙电机股份有限公司智能制造研究院”，并在深圳等地设立研发中心；具备各类电机和变频、驱动系统自主研发的条件和基础；公司有一套以机器人为主导的智能化的生产制造装备和测试设备。完善的现代企业管理模式和信息化的管理体系，产品全面按国际IEC标准生产，产品全面达到国际国内产品的先进水平。通过ISO9001国际质量标准体系认证，ISO14001环境管理体系认证和清洁生产认证，16949体系运行，绿色企业认证，GB/T28001职业健康安全管理体系认证，并通过中国CCC认证和CQC认证及中国节能产品认证，美国能源部高效和超高效的NEMA认证和IEC标准的高效电机美国CC认证、加拿大的CSA超高效电机认证，欧共体CE，美国UL和加拿大CSA等安全认证，获得国家防爆电机生产许可证和欧洲、澳大利亚等国的防爆电机认证，和中国船级社的CCS、德国GL和法国BV等船用电机认证；锦龙牌电机荣获“中国名牌”产品和国家“出口免验”产品、“出口名牌企业”和国家级重合同守信用企业荣誉称号，一直都被认定为国家级高新技术企业。公司的永磁电机、伺服电机及三相异步电机、防爆电机等电机产品获得一级能效节能认证，被最早列入政府采购产品系统；公司现已建立基于工业大数据的产品智能化、生产自动化、物流供应信息化的全面数字化工厂。

金龙生产的各类锦龙牌产品出口到德国、意大利、英国、法国、西班牙等欧洲国家和美国、加拿大、阿根廷、秘鲁、智利等美洲国家，以及澳大利亚、新西兰、俄罗斯、土耳其、波兰和东南亚等80多个国家，是国内智能化电机产品最大的出口企业之一。

制造研发智能、环保、高效节能的电机及驱动系统产品是我们的责任,卓越的创新意识、真诚的战略合作伙伴理念是我们金龙人始终如一的崇高和庄重的承诺。我们致力把金龙伺服电机及驱动控制产品，打造成智能装备行业的知名品牌。

JLEM ,founded in 1981,is a servo motor customized enterprise with ingenuity. JLEM, located in the Yangtze River Delta region, an enterprise in technology, development, manufacture, market and energy solution for servo motor, drive and frequency conversion control system, is vice president unit of China small & medium sized motor industry association and a member of China rotating motor industry standard committee and a member of IEC standard working group. JLEM covers 150,000 square meters, with the construction area of 100,000 square meters, nearly 1,000 employees and the total assets is above RMB1 billion.

Now the company has formed three leading product systems: permanent magnet servo motor and drive control series , new energy vehicle motor and drive control series, high-efficiency three-phase asynchronous motor and frequency conversion energy saving system. The entire products cover new energy vehicle, robot, CNC machine tools, intelligent manufacturing, coal mine, petroleum, environmental protection industries ,general machinery and transportation industry including pump and compressor, which provides all kinds of products and solutions for the intelligent promotion industry. The motors with more than 3,000 varieties of specifications are available from 0.1KW to 1500KW ;The drive and inverters are available from 0.1KW to 400KW. The company is a manufacturing enterprise with integrated motor- control system and diversified products.

With a powerful scientific and technical force, JLEM is approved to set up provincial R&D center, named " Zhejiang Jinlong Electrical Machinery Stock Co., Ltd. Intelligent Manufacturing Research Institute" .The company also sets up R&D centers in Shenzhen and other places. The company has the independent research conditions and foundation to develop all kinds of motors , frequency conversion and drive system. The company has a set of robot-led intelligent manufacturing equipment and testing equipment. With the consummate modernized management system and information management system, all of products are in conformity with the IEC standard and have reached the advanced level of the same products in the world. It has obtained the ISO9001 international quality conformity, ISO14001environment management system &clean production certification,16949 quality system ,green enterprise certification, GB/T28001 occupational health and safety management system certificate, China CCC & CQC authentication and China Energy Conservation Product Certification(CECP),compliance certification number of department of energy US for NEMA EPACT and NEMA Premium, CSA energy mark for NEMA Premium, TUV & CE conformity for EU countries and UL approval from US and CSA approval from Canada, and explosion proof motor production, ATEX and IECEx approval for ex motors, CCS, GL and BV approval for marine motors. The JLEM branded motor has been granted the honor of "China Top Brand", and has been certified for the exemption from export inspection, and has been recognized as China National Credit Unit. Our company has been approved as a National hi-tech enterprise and listed as one of government purchase enterprise of energy saving products. The company has established a comprehensive digital factory based on industrial bid data, which includes product intelligence, production automation and logistics supply informatization.

Our various motors have been exported to over 80 countries , such as America, Canada, South America and European countries including Germany, Italy, UK, France, Spain and so on. The company is one of the leading export-oriented intelligent motor enterprise in China.

To manufacture and develop intelligent , environment-friendly, high-efficiency and energy saving motors and drive system is our responsibility. Outstanding innovation idea, sincere concept of strategic cooperative partner is our permanent objective and solemn commitment. We are committed to lead JLEM's servo motor and drive control product to a well-known brand products in the intelligent equipment industry.



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JLS伺服驱动器

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ST系列永磁交流伺服电机的特点

CHARACTERISTIC OF ST SERIES PERMANENT-MAGNET AC SERVO MOTOR

- ▶ 采用超高内禀矫顽力、耐高温稀土永磁材料，抗去磁能力强
 - ▶ 使用优化的电磁设计，几乎在整个转速范围内可恒转矩输出
 - ▶ 正弦波磁场设计，低速转矩平稳，过载能力强
 - ▶ F级绝缘、IP55防护结构，环境适用性强，使用安全可靠
-
- ▶ Ultra-high intrinsic coercivity, high temperature rare earth permanent magnet materials, strong resistance to magnetic energy
 - ▶ Using electromagnetic design optimization, almost with the entire speed range constant torque output
 - ▶ Sinusoidal magnet field design, smooth low-speed torque high overload capability
 - ▶ Class F insulation, IP55 protection structure, environmental applicability, safe and reliable use



技术规范

TECHNICAL SPECIFICATIONS

60、80、90系列电机参数表 60、80、90 series motor parameters table

电机型号 Frame size		60ST-M00230A	60ST-M00430A	80ST-M00530A	80ST-M00830A	90ST-M00830A
额定功率 Rated Power	KW	0.2	0.4	0.5	0.75	0.75
额定转矩 Rated Torque	N.m	0.64	1.27	1.6	2.4	2.4
额定转速 Rated Speed	rpm	3000	3000	3000	3000	3000
最高转速 Max Speed	rpm	3600	3600	3600	3600	3600
额定电流 Rated Current	A	1.2	2.4	2.7	4.0	4.0
最大转矩 Max Torque	N.m	1.92	3.81	4.8	7.2	7.2
转动惯量 Rotor Inertia	Kg.cm ²	0.07	0.09	0.16	0.21	0.26
电压 Voltage	V	220	220	220	220	220

注：以上数据仅供参考，具体以技术实际生产数据为准

ST系列永磁交流伺服电机型号：

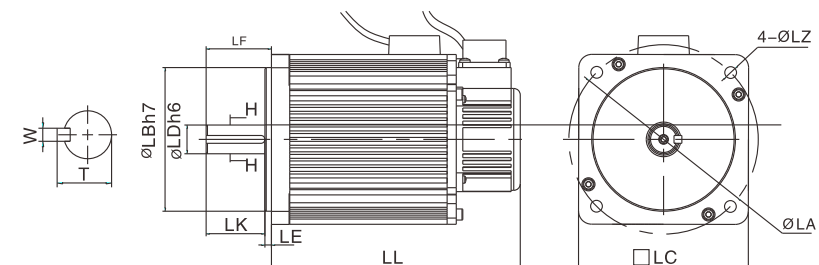
ST SERIES PM AC SERVO MOTOR MODEL

190 ST-X11030A

- 设计序号 Design serial number
- 额定转速（x100,rpm）Rated Speed
- 额定功率（x0.1,KW）Rated Power
- 反馈元件（M-编码器，X-旋变）
Feedback（M-encoder,X-resolver）
- 正弦波驱动电机
Sine wave drive motor
- 机座号 Frame size

安装及外型尺寸

MOUNTING AND OVERALL DIMENSIONS



型号 Type	60ST-M00230A	60ST-M00430A	80ST-M00530A	80ST-M00830A	90ST-M00830A
额定转矩 Rated Torque N.m	0.64	1.27	1.6	2.4	2.4
LA	70	70	90	90	100
LB	50	50	70	70	80
LC	60	60	80	80	90
LD	14	14	16	16	16
LE	2.8	2.8	3	3	3
LF	26	26	30	30	30
LK	20	20	25	25	25
LL	101	131	122	138	162
LZ	5.5	5.5	6.5	6.5	6.5
W	5	5	5	5	5
T	16	16	18	18	18

ST系列永磁交流伺服电机的特点

CHARACTERISTIC OF ST SERIES PERMANENT-MAGNET AC SERVO MOTOR

- ▶ 采用超高内禀矫顽力、耐高温稀土永磁材料，抗去磁能力强
- ▶ 使用优化的电磁设计，几乎在整个转速范围内可恒转矩输出
- ▶ 正弦波磁场设计，低速转矩平稳，过载能力强
- ▶ F级绝缘、IP55防护结构，环境适用性强，使用安全可靠



- ▶ Ultra-high intrinsic coercivity, high temperature rare earth permanent magnet materials, strong resistance to magnetic energy
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- ▶ Sinusoidal magnet field design, smooth low-speed torque high overload capability
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技术规范

TECHNICAL SPECIFICATIONS

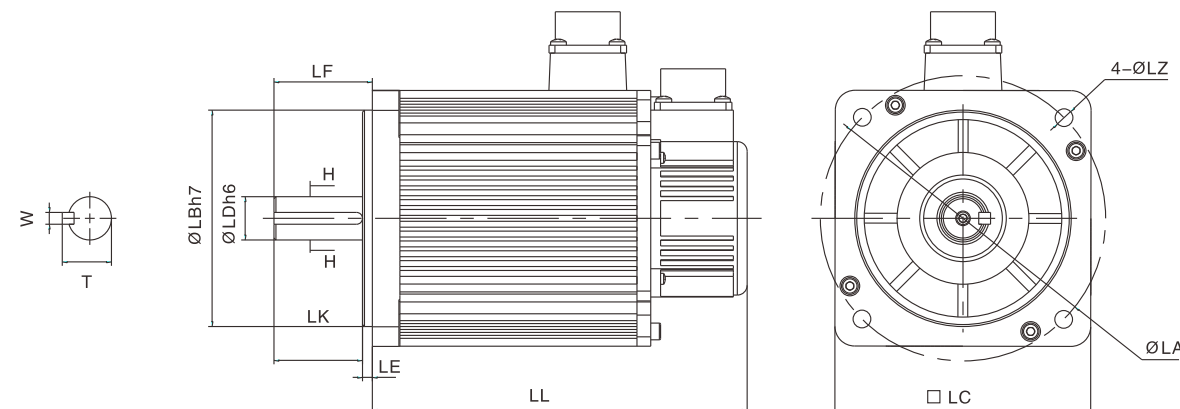
110、130系列电机参数表 110、130 series motor parameters table

电机型号 Frame size		110ST-M00420A	110ST-M00820A	110ST-M01120A	110ST-M01930A	130ST-M01220A	130ST-M01620A	130ST-M02120A	130ST-M02415A
额定功率 Rated Power	KW	0.42	0.84	1.1	1.88	1.23	1.57	2.1	2.36
额定转矩 Rated Torque	N.m	2	4	5	6	6	7.5	10	15
额定转速 Rated Speed	rpm	2000	2000	2000	3000	2000	2000	2000	1500
最高转速 Max Speed	rpm	2400	2400	2400	3600	2400	2400	2400	2000
额定电流 Rated Current	A	1.6	3.2	4.0	6.8	4.7	5.8	7.8	9.5
最大转矩 Max Torque	N.m	6	12	15	18	6	18.7	25	37.5
转动惯量 Rotor Inertia	Kg.cm ²	2.5×10^{-4}	4.2×10^{-4}	5.3×10^{-4}	6.2×10^{-4}	9.5×10^{-4}	11.8×10^{-4}	19.8×10^{-4}	28.7×10^{-4}
电压 Voltage	V	220	220	220	220	220	220	220	220

注：以上数据仅供参考，具体以技术实际生产数据为准

安装及外型尺寸

MOUNTING AND OVERALL DIMENSIONS



型号 Type	110系列 110Series				130系列 130Series			
额定转矩 Rated Torque N.m	2	4	5	6	6	7.5	10	15
LA	130	130	130	130	145	145	145	145
LB	95	95	95	95	110	110	110	110
LC	110	110	110	110	130	130	130	130
LD	19	19	19	19	22	22	22	22
LE	5	5	5	5	5	5	5	5
LF	48	48	48	48	50	50	50	50
LK	40	40	40	40	45	45	45	45
LL	155	185	200	215	180	190	220	270
LZ	8.5	8.5	8.5	8.5	9	9	9	9
W	6	6	6	6	6	6	6	6
T	22	22	22	22	25	25	25	25

ST系列永磁交流伺服电机的特点

CHARACTERISTIC OF ST SERIES PERMANENT-MAGNET AC SERVO MOTOR

- ▶ 采用超高内禀矫顽力、耐高温稀土永磁材料，抗去磁能力强
- ▶ 使用优化的电磁设计，几乎在整个转速范围内可恒转矩输出
- ▶ 正弦波磁场设计，低速转矩平稳，过载能力强
- ▶ F级绝缘、IP55防护结构，环境适用性强，使用安全可靠



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技术规范

TECHNICAL SPECIFICATIONS

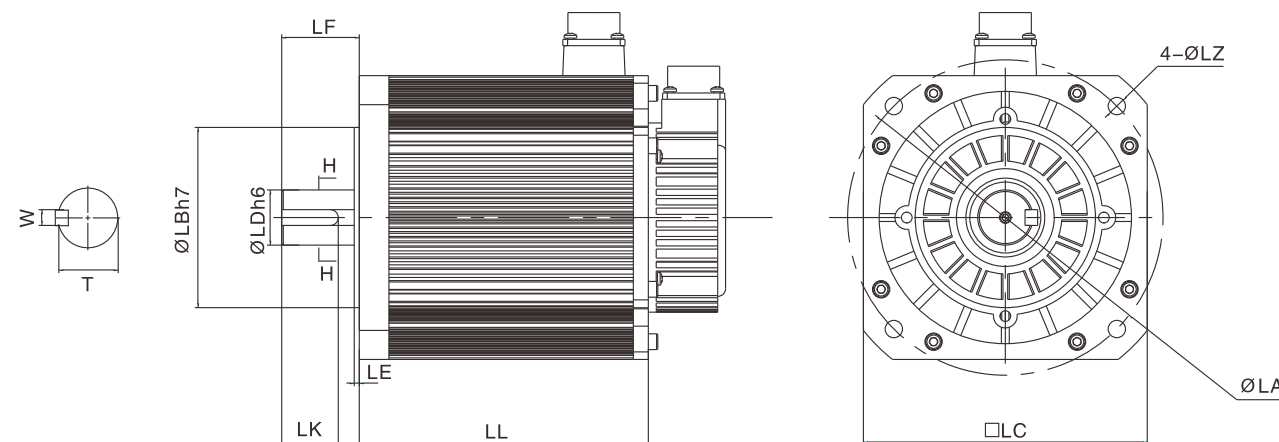
180系列电机参数表 180series motor parameters table

电机型号 Frame size		180ST-M04020A	180ST-M05020A	180ST-M06018A
额定功率 Rated Power	KW	4	5	6
额定转矩 Rated Torque	N.m	19.1	23.9	31.8
额定转速 Rated Speed	rpm	2000	2000	1800
最高转速 Max Speed	rpm	2400	2400	2200
额定电流 Rated Current	A	16.8	28	22
最大转矩 Max Torque	N.m	57.3	71.6	79.5
转动惯量 Rotor Inertia	Kg.cm ²	69×10^{-4}	66×10^{-4}	102×10^{-4}
电压 Voltage	V	220	220	220

注：以上数据仅供参考，具体以技术实际生产数据为准

安装及外型尺寸

MOUNTING AND OVERALL DIMENSIONS



型号 Type	180系列		
额定转矩 Rated Torque N.m	19.1	28.6	31.8
LA	200	200	200
LB	114.3	114.3	114.3
LC	180	180	180
LD	35	35	35
LE	3.2	3.2	3.2
LF	79	79	79
LK	60	60	60
LL	200	220	270
LZ	13.5	13.5	13.5
W	10	10	10
T	38	38	38

ST系列永磁交流伺服电机的特点

CHARACTERISTIC OF ST SERIES PERMANENT-MAGNET AC SERVO MOTOR

- ▶ 采用超高内禀矫顽力、耐高温稀土永磁材料，抗去磁能力强
- ▶ 使用优化的电磁设计，几乎在整个转速范围内可恒转矩输出
- ▶ 正弦波磁场设计，低速转矩平稳，过载能力强
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技术规范

TECHNICAL SPECIFICATIONS

190系列电机参数表 190 series motor parameters table

电机型号 Frame size		190ST -X03 710A	190ST -X07 320A	190ST -X11 030A	190ST -X07 310A	190ST -X14 720A	190ST -X22 030A	190ST -X11 010A	190ST -X22 020A	190ST -X33 030A	190ST -X14 710A	190ST -X29 320A	190ST -X44 030A
额定功率 Rated Power	KW	3.66	7.33	11.0	7.33	14.66	22.0	11.0	22.0	33.0	14.66	29.3	43.98
额定转矩 Rated Torque	N.m	35	35	35	70	70	70	105	105	105	140	140	140
额定转速 Rated Speed	rpm	1000	2000	3000	1000	2000	3000	1000	2000	3000	1000	2000	3000
额定电流 Rated Current	A	6.2	12.1	18.1	12	23.7	35.6	17.9	35.4	53	23.8	52.8	70.7
最大转矩 Max. Torque	N.m	75.2	75.2	75.2	150.5	150.5	150.5	225.7	225.7	225.7	301.0	301.0	301.0
转动惯量 Rotor Inertia	mkg·m ²	5.5	5.5	5.5	9.2	9.2	9.2	12.6	12.6	12.6	16.5	16.5	16.5
反馈元件 Feedback	TS2640N321E64												
电 压 Voltage	V	380											

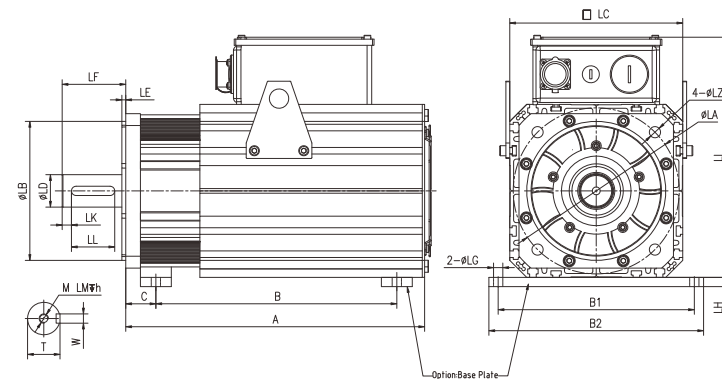
注：以上数据仅供参考，具体以技术实际生产数据为准

260系列电机参数表 260 series motor parameters table

电机型号 Frame size		260ST -X10 910A	260ST -X21 820A	260ST -X32 730A	260ST -X21 810A	260ST -X43 620A	260ST -X65 330A	260ST -X32 710A	260ST -X65 320A	260ST -X98 030A	260ST -X43 610A	260ST -X87 120A	260ST -X13 130A
额定功率 Rated Power	KW	10.89	21.78	32.67	21.78	43.56	65.34	32.67	65.34	98.02	43.56	87.13	130.7
额定转矩 Rated Torque	N.m	104	104	104	208	208	208	312	312	312	416	416	416
额定转速 Rated Speed	rpm	1000	2000	3000	1000	2000	3000	1000	2000	3000	1000	2000	3000
额定电流 Rated Current	A	18.3	36.2	53.8	35.9	71.1	106.2	53.5	106.4	165	72	142	212
最大转矩 Max. Torque	N.m	225	225	225	452	452	452	676	676	676	905	905	905
转动惯量 Rotor Inertia	mkg·m ²	20	20	20	34.6	34.6	34.6	49.5	49.5	49.5	64.2	64.2	64.2
反馈元件 Feedback	TS2640N321E64												
电 压 Voltage	V	380											

安装及外型尺寸

MOUNTING AND OVERALL DIMENSIONS

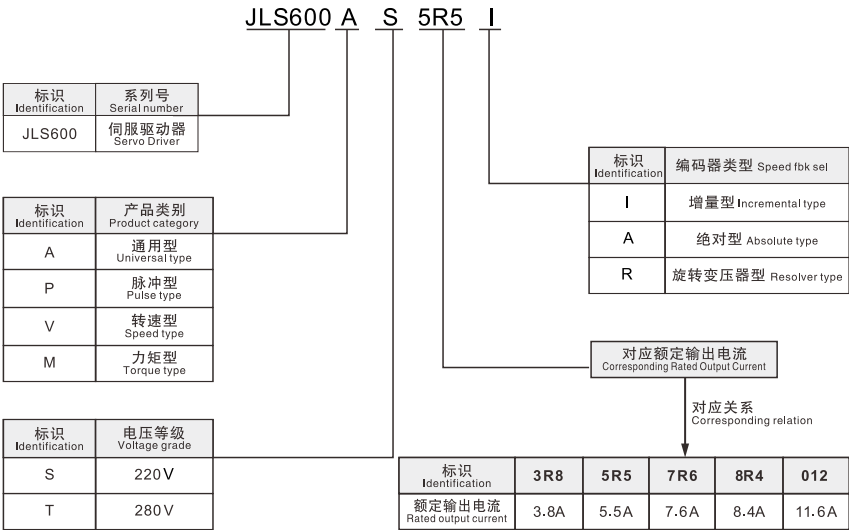
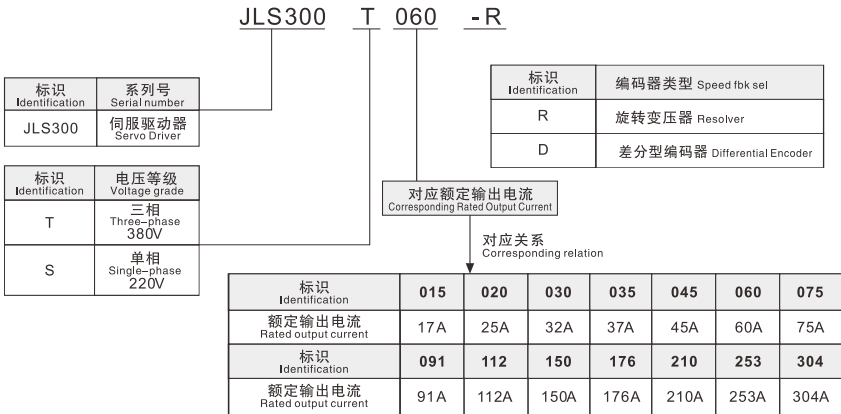
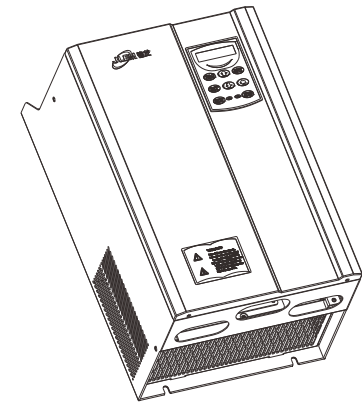


型号 Type	190系列				260系列			
额定转矩 N·m	35	70	105	140	104	208	312	416
A	340	410	480	552	412	488	564	684
B	262	305	388	465	204	280	356	476
C	39	39	39	39	60	60	60	60
B1	254	254	254	254	356	356	356	356
B2	278	278	278	278	384	384	384	384
LA	215	215	215	215	300	300	300	300
LB	180	180	180	180	250	250	250	250
LC	224	224	224	224	288	288	288	288
LD	42	42	42	42	48	48	48	48
LE	5	5	5	5	4	4	4	4
LF	82	82	82	82	112	112	112	112
LG	12	12	12	12	18	18	18	18
LH	12	12	12	12	15	15	15	15
LI	311	311	311	311	376	376	376	376
LK	12	12	12	12	10	10	10	10
LL	56	56	56	56	90	90	90	90
LM	12	12	12	12	20	20	20	20
h	36	36	36	36	35	35	35	35
LZ	14.5	14.5	14.5	14.5	19	19	19	19
W	12	12	12	12	14	14	14	14
T	45	45	45	45	51.5	51.5	51.5	51.5

JLS伺服驱动器 JLS SERVO DRIVE



伺服驱动器命名规则 SERVO DRIVE NAMING RULES



伺服驱动器适配电机选型表 Servo Drive Adaptation Motor Selection Table

驱动型号 Frame size	电压等级 Voltage grade	电机型号 Motor Type	编码器型号 Encoder Model	额定转速 Rated Speed rpm	最高转速 Maximum Speed rpm	额定功率 Rated Power KW	额定转矩 Rated current N.M	最大转矩 Maximum torque N.m
KDS1000	220V	60ST-M02420	2500/5000线	2000	2500	0.35	1.67	5
		60ST-M03230		3000	4000	0.5	1.59	4.8
		80ST-M02420		2000	2500	0.5	2.4	7.2
		80ST-M02430		3000	4000	0.75	2.4	7.2
		80ST-M03220		2000	2500	0.66	3.2	9.6
		80ST-M03230		3000	4000	1	3.2	9.6
		110ST-M00820		2000	2500	0.8	4	12
		110ST-M01020		2000	2500	1.0	5	15
		110ST-M01220		2000	2500	1.2	6	18
		130ST-M01625		2500	3000	1.6	6	18
		130ST-M02025		2500	3000	2.0	7.7	23
KDS2000	220V	130ST-M02315	2500/5000线	1500	2000	2.3	15	30
		130ST-M03520		2000	2500	3.5	17	34
		180ST-M03015		1500	2000	3.0	19	47
		180ST-M04215		1500	2000	4.2	27	67
KDS3000	220V	180ST-M05515	2500/5000线	1500	2000	5.5	35	70
		180ST-M07515		1500	2000	7.5	48	96
JLS600S3R8	220V	60ST-M02420	2500/5000线	2000	2500	0.35	1.67	5
	220V	60ST-M03230		3000	4000	0.5	1.59	4.8
	220V	80ST-M02420		2000	2500	0.5	2.4	7.2
JLS600S5R5	220V	80ST-M02430		3000	4000	0.75	2.4	7.2
	220V	80ST-M03220		2000	2500	0.66	3.2	9.6
JLS600S7R6	220V	80ST-M03230		3000	4000	1	3.2	9.6
	220V	110ST-M00820		2000	2500	0.8	4	12
	220V	110ST-M01020		2000	2500	1.0	5	15
JLS600S018	220V	110ST-M01220		2000	2500	1.2	6	18
	220V	130ST-M01625		2500	3000	1.6	6	18
	220V	130ST-M02025		2500	3000	2.0	7.7	23
JLS600S025	220V	130ST-M02315	2500/5000线	1500	2000	2.3	15	30
	220V	130ST-M03520		2000	2500	3.5	17	34
	220V	180ST-M03015		1500	2000	3.0	19	47
JLS600S035	220V	180ST-M04215	2500/5000线	1500	2000	4.2	27	67
	220V	180ST-M05515		1500	2000	5.5	35	70
	220V	180ST-M07515		1500	2000	7.5	48	96

JLS伺服驱动器相关参数表
JLS SERVO DRIVE RELATED PARAMETER TABLE

①"JLS"系列通用伺服驱动单元，JL: JINLONG; S: SERVO;600: 数控伺服驱动
②电压等级代号,A: 220V; B: 380V。
③功率元件标称电流,3位数字表示: 025、030、050、075、100 (单位A)。
④适配电机类型, S: 适配同步伺服电机; A: 适配异步伺服电机。
⑤通信总线代号, N: 无总线; C: 以太网总线。
⑥反馈 (编码器) 接口类型代号, P: 仅适配增量式编码器; A: 适配绝对式或增量式编码器,无备用
电池;B:适配绝对式或增量式编码器, 配备后备电池(用于断电时记忆绝对式编码器的圈数)。
⑦反馈 (编码器) 接口配置代号, 1位数字表示, “1”表示仅有电机反馈 (第一位位置反馈)
输入接口 (CN2), “2”表示有电机反馈输入 (CN2) 和第二位置反馈输入接口(CN3)。

JLS600 -- A 030 S N P 1
1 2 3 4 5 6 7

伺服驱动单元型号	JLS600–A025	JLS600–A030	JLS600–A050	JLS600–A075	JLS600–A100
适配伺服电机额定电流 I (A) Adapted servo motor rated current I(A)	I ≤ 4	4 < I ≤ 6	6 < I ≤ 10	10 < I ≤ 15	15 < I ≤ 30
外形尺寸 (mm)(宽 × 高 × 深) Shape Size(mm) (width X height X depth)	205x220x85	225x220x103	225x220x103	355x380x153	355x380x153
主电源 Main power supply	3 相 AC (0.85 ~ 1.1) 220V 50/60Hz 3 Phase AC(0.85 ~ 1.1) 220V 50/60Hz				
制动电阻 Brake resistor	内置制动电阻。（ 可选配外接制动电阻 ） Built-in brake Resistor. (optional external brake resistor)		外接制动电阻 External brake resistor		
调速比 Speed ratio	10000:1				
速度波动率 Velocity fluctuation	< 额定转速 × 0.01% Rating speed × 0.01 %				
速度频率响应 Speed frequency response	≥300Hz				
工作方式 Working methods	手动、点动、内部速度、外部速度、位置 Manual, point movement, internal speed, external speed, position				
内部速度方式 Internal speed mode	伺服单元驱动伺服电机按内部参数设定的速度运转（ 速度闭环控制 ）， 3 段运行速度由输入信号选择 The servo unit drives the servo motor at the speed set by the internal parameters(speed closed-loop control), and the three-segment running speed is selected by the input signal.				
外部速度方式 External speed mode	伺服单元驱动伺服电机按外部模拟电压速度指令规定的速度运转（ 速度闭环控制 ） Servo unit driving servo motor operates at the speed specified by external analog voltage speed instruction(speed closed-loop control)				
外部速度指令模式 External speed instruction mode	- 10V ~ +10V 或 0V ~ +10V， 由参数选择 -10V ~ +10V or 0V ~ +10V, selected by parameters				
位置方式 Location	伺服单元驱动伺服电机按位置指令脉冲运转（ 位置闭环控制 ）， 位置指令脉冲的方向和数量决定了伺服电机转子的 旋转方向和角度， 位置指令脉冲的频率决定伺服电机转子的旋转速度 The servo unit drives the servo motor according to the position instruction pulse(position closed-loop control). The direction and number of the position instruction pulse determine the rotation direction and angle of the servo motor rotor. The frequency of the position instruction pulse determines the rotation speed of the servo motor rotor.				
位置指令脉冲模式 Location command pulse mode	脉冲/方向、CCW 脉冲/CW 脉冲、A/B 两相正交脉冲， 最高脉冲频率：1MHz Pulse / Direction, CCW/Pulse / CW Pulse, A/B Two phase orthogonal pulses, Maximum pulse frequency: 1MHz				
位置指令电子齿轮 Position Directive Electronic Gear	指令脉冲倍频系数：1 ~ 32767； 指令脉冲分频系数：1 ~ 32767。 Instruction pulse frequency coefficient: 1 ~ 32767; Instruction pulse frequency division coefficient: 1 ~ 32767.				
定位精度 Positioning precision	± 0.072° (适配2500 线增量式编码器)、 ± 0.018° (适配 5000 线增量式编码器)、 ± 0.005° (适配 17bit 绝对式编码器) ± 0.072 ° (fit 2500 line incremental encoder), ± 0.018 ° (fit 5000 line incremental encoder), ± 0.005 ° (fit 17 bit absolute encoder)				
电机反馈输入 Motor feedback input	适配增量式编码器\绝对式编码器； -10V ~ +10V or 0V ~ +10V, selected by parameters				
位置反馈输出 Location feedback output	电机反馈输入信号 1: 1 输出\电机反馈输入信号分频输出； Motor feedback input signal 1:1 output \ Motor feedback input signal frequency division output;				
通信总线 Communication bus	以太网\无通信总线 Ethernet / No communication bus				
输入信号 Input Signal	伺服使能、报警清除、CCW 禁止、CW 禁止、CCW 启动、CW 启动、零速箝位、内部速度选择 1、内部速度选择 Servo enabling, alarm clearance, CCW prohibition, CW prohibition, CCW startup, CW startup, zero-speed clamping, internal speed selection 1, internal speed selection				
输出信号 Output signal	伺服准备好、伺服报警、位置到达/速度到达、抱闸释放、零速输出、Z 脉冲输出 Servo ready, servo alarm, position arrival / speed arrival, lock release, zero-speed output, Z pulse output				
保护功能 Protection function	具有过压、欠压、过流、过载、驱动单元过热、超速、位置超差、制动异常、编码器异常、电机过热等保护 With overpressure, underpressure, Overflow, overload, driving unit overheating, speeding, poor position, braking anomaly, encoder anomaly, motor overheating, etc.				
操作与显示 Operation and Display	5 个按键，可进行手动、点动以及参数修改、设置、写入、备份等操作； 6 位 LED，可显示转速、当前 位置、指令脉冲积累、位置偏差、电机转矩、电机电流、转子绝对位置、输入输出信号状态等信息 5 keys, can be manually, click and parameter modification, setting, writing, backup and other operations; 6-bit LED to display information such as speed, current position, command pulse accumulation, position deviation, motor torque, motor current, rotor absolute position, input and output signal status, etc..				

注: 以上数据仅供参考, 具体以技术实际生产数据为准

JLS300伺服驱动器技术规格 JLS300 SERVO DRIVER SPECIFICATIONS

基本规格 Basic specifications	控制方式 control mode		三相全波整流 Three-phase full wave rectifier IGBT PWM控制正弦波电流驱动方式 IGBT PWM control mode of Sine wave current drive
	反馈 Feedback		光电编码器 (增量型或绝对性) 、旋转变压器 Photoelectric encoder (incremental or absolute / Rotary transformer
	使用条件 Use conditions	使用/存储保管温度10/5000 Use/store storage temperature	0 ~ +55 ℃ / -20 ~ +85 ℃
		使用/存储保管温度10/5000 Use/store storage temperature	90%RH 以下(不得结露) Below 90%RH (no condensation)
		耐振动/耐冲击强度 Vibration/impact resistance	4.9m/s2/19.6m/s2
		防护等级Protection grade	IP55
		污染等级 Pollution grade	2级
内置功能 built-in function			低于1000m, 高于1000m请降额使用 < 1000m Less than 1000m, more than 1000m, please use less than 1000M
	保护功能 Protection function		过电流、过电压、电压不足、过载、主电路检测异常、散热器 过热、电源缺相、过速、编码器异常、CPU 异常、参数异常、 其他 Over current, over voltage, under voltage, overload, abnormal main circuit detection section, overheating radiator, power supply phase, over speed, abnormal encoder, prevent out of control, CPU abnormal, parameter abnormal, and others
	人机界面功能 Man machine interface function		5位LED显示, 8个按键。状态显示, 用户参数设定, 监视显示, 警报跟踪显示, JOG 运行与自动调谐操作, 速度 · 转矩指令信 号等的测绘功能 5 LED display, 8 keys. State display, user parameter setting, monitoring display, alarm tracking display, JOG operation and automatic tuning operation, speed torque torque command signal mapping functions
	Communications functions	连接设备Connected devices	RS232、RS485、CAN
		1: N通信 N communication	RS485及CAN时, 最大可为N=15 站 While RS485 and CAN, the maximum CAN be N=15 stations
		轴地址设定 Axis address setting	根据用户参数设定 Bsed on user parameters
	其他 Others		增益调整、警报记录、JOG运行, 弱磁调速, 自学习 Gain adjustment, alarm recording, JOG operation, low magnetic speed regulation, self – learning
电源 Power	+10V	+10V电源 +10V power	10V ± 10%, 最大10mA (10V ± 10%, maximum 10mA)
	+13V	压力传感器电源 Pressure sensor power	13 ± 10%, 最大10mA (13 ± 10%, maximum 10mA)
	+24V	+24V电源 +24Vpower	+24V电源, 用于DI +24V power for DI
	OP	外部电源输入端子 External power input terminal	出厂时与+24V短接, 使用外部电源时, 必须将OP与+24V断开 the OP must be disconnected from +24V when using external power supply
模拟量输入 Analog input	AI1	模拟量输入端子1(默认压力给定) Analog input terminal 1 (default pressure given)	输入范围: ± 10V Input range: 10V 输入阻抗: 100K Ω Input impedance: 100 k Ω
	AI2	模拟量输入端子2(默认流量给定) input terminal 2 (default pressure given)	输入范围: ± 10V Input range: 10V 输入阻抗: 100K Ω Input impedance: 100 k Ω
	AI3	模拟量输入端子3 (默认压力传感器反馈给定)	输入范围: ± 10V, 0~20mA由控制板上跳线决定输入方式 Input range: 10V 0~20mA input mode is determined by jumper wire on the control board 输入阻抗: 电压输入时100K Ω , 电流输入时500 Ω Input impedance: 100 k Ω when the input voltage, input current 500 Ω
数字量输入 Digital input	DI1	数字输入1 Digital input 1	光耦隔离输入, 输入频率小于100KHz Optical coupler isolated input, input frequency less than 100KHz 输入阻抗3.3K Ω Input impedance: 3.3K Ω 有效电压输入范围: 9V~30V Effective voltage input range: 9V~30V
	DI2	数字输入2 Digital input 2	
	DI3	数字输入3 Digital input 3	
	DI4	数字输入4 Digital input 4	
	DI5	数字输入5 Digital input 5	
通信端子 Communication terminal	PTCP、PTCN		电机温度保护 Motor temperature protection
	CANH	CAN通讯端子 CAN communication terminal	最高通讯速度1Mbps The maximum communication speed is 1Mbps 由控制板上的J8跳线选择是否连接终端匹配电阻 The J8 jumper on the control board selects whether to connect the terminal to match the resistance
	CANL		
	CGND		
	485– 485+	485通讯端子 485 Communication terminal	由控制板上的J5跳线选择是否连接终端匹配电阻 (预留功能) Select whether to connect terminal matching resistance by J5 jumper on the control board (reserved function)
模拟量输出端子 Analog output terminal	AO1	模拟量输出1 Analog output 1	输出范围: 0~10V Output range: 0~10V
	AO2	模拟量输出2 Analog output 2	输出范围: 0~10V Output range: 0~10V
继电器输出 Relay output	T/A1–T/B1	常闭端子 Closed Terminal	触点驱动能力: Contact driving ability: 1.AC250V, 3A 2.DC30V, 1A
	T/A1–T/C1	常开端子 Open terminal	
	T/A2–T/C2	常开端子 open terminal	

注: 以上数据仅供参考, 具体以技术实际生产数据为准

JLS300伺服驱动器相关参数表

JLS300 SERVO DRIVER RELATED PARAMETERS TABLE

项目 Project		规格 Specifications											
型号Model JLS300TXXX-R		015	020	030	035	045	060	075	090	110	150	180	220
适用电机容量 (KW) Applicable motor capacity		7.5	11	15	18.5	22	30	37	45	55	75	90	110
输入 Input	额定输入电流 (A) Rated input current	19	26	35	39	47	62	76	92	112	153	160	190
	额定输出电流 (A) Rated output current	17	25	32	37	45	60	75	91	112	150	176	210
	最高输出电压 Maximum output voltage	三相Three-phase 380V ~ 480V											
	最高输出频率 Maximum output Frequency	300Hz (可通过参数更改 Be changed by parameter)											
	载波频率 Carrier frequency	1.0~12kHz											
	过载能力 Overload capacity	150% 额定电流Rated current 60s											
	额定电压、额定频率 Rated voltage and frequency	AC:三相Three-phase 380V ~ 480V,50/60Hz											
电源 Power Supply	电压允许波动范围 Permissible voltage range	-15 ~ 10%,实际允许范围Actual permissible range: AC323V ~ 528V											
	频率允许波动范围 Permissible Frequency range	± 5%											
	电源容量 (KVA) Power capacity	20	26	35	39	47	62	76	92	112	153	184	214
发热功耗 (kw) Power consumption of the heating		0.365	0.454	0.553	0.651	0.807	1.01	1.20	1.51	1.80	1.84	2.08	2.55

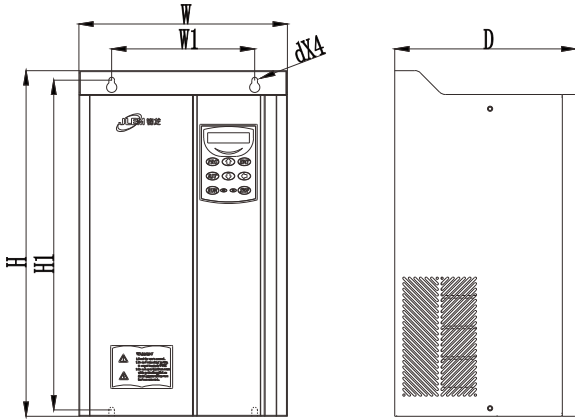
注： 以上数据仅供参考，具体以技术实际生产数据为准

JLS300伺服驱动器外形尺寸表

JLS300 SERVO DRIVER PROFILE DIMENSION TABLE

驱动器型号 Driver model	外形和安装尺寸 Shape and installation dimensions (mm)						重量 weight (kg)
	W	W1	H	H1	D	安装孔径 Installation aperture	
三相电源Three phase power supply: 380V, 50/60Hz 范围Range: -15%~+30%							
JLS300T015-R	146	131	249	236	177	F4	5
JLS300T020-R							
JLS300T030-R							
JLS300T035-R	210	170	352	338	216	F6	10
JLS300T045-R							
JLS300T060-R	262	180	435	415	228	F7	20
JLS300T075-R							
JLS300T075-R	262	180	435	415	228	F7	20
JLS300T090-R							
JLS300T110-R							
JLS300T150-R	357	230	590	572	260	F7	37
JLS300T180-R							
JLS300T220-R	430	320	830	802	293	F12	77.7

注： 以上数据仅供参考，具体以技术实际生产数据为准



TYK系列变频驱动永磁同步电机

TYK SERIES PM SYNCHRONOUS MOTOR DRIVEN BY VARIABLE FREQUENCY CONVERTER

一体机的特点

CHARACTERISTIC OF INTEGRATED MOTOR

- 采用超高内禀矫顽力、耐高温稀土永磁材料，抗去磁能力强
- 使用优化的电磁设计，几乎在整个转速范围内可恒转矩输出
- 正弦波磁场设计，低速转矩平稳，过载能力强
- F级绝缘、IP23防护结构，环境适用性强，使用安全可靠

- Ultra-high intrinsic coercivity, high temperature rare earth permanent magnet materials, strong resistance to magnetic energy
- Using electromagnetic design optimization, almost with the entire speed range constant torque output
- Sinusoidal magnet field design, smooth low-speed torque high overload capability
- Class F insulation, IP23 protection structure, environmental applicability, safe and reliable use

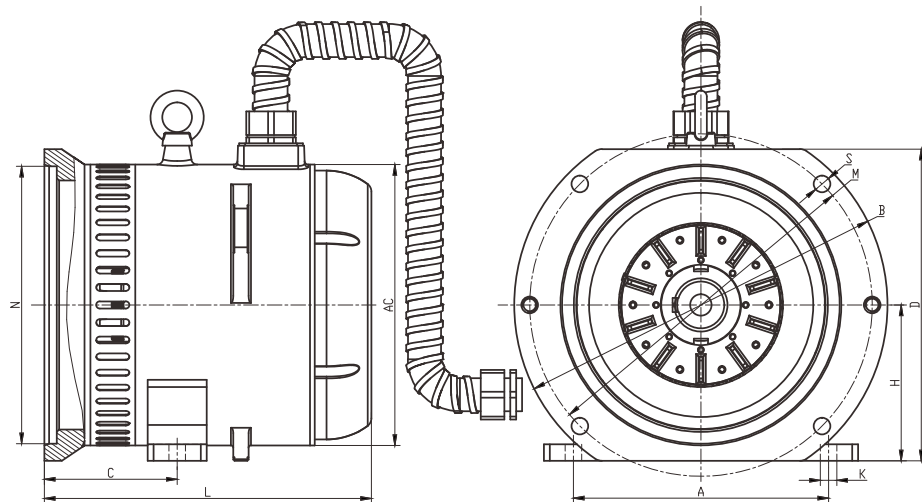


一体机技术规范

INTEGRATED MOTOR TECHNICAL SPECIFICATIONS

电机型号 Frame size	TYK112 S-8A	TYK112 M-8A	TYK132 S-8A	TYK132 M-8A	TYK160 M-8A	TYK160 L-8A	TYK180 S-8A	TYK180 M-8A	TYK180 L-8A	TYK225 S-6A	TYK225 L1-6A	TYK225 L2-6A	TYK280 S-6A	TYK280 M-6A
额定功率 Rated Power	KW	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	90
额定转速 Rated Speed	rpm	2200	3000	2200	3000	2500	3000	2300	3000	3600	2200	3000	3600	1500
额定转矩 Rated Torque	N.m	23.9	23.9	47.8	47.8	70.7	70.0	124.6	117.8	119.4	238.8	238.8	286.5	573.0
额定电流 Rated Current	A	11	15	21.3	30.2	34	42	55.6	67.4	82	98	137	164	163
效率 Efficiency	%	89.8	89.8	91.5	91.3	92.5	92.5	93.5	93.6	93.6	94.6	94.6	95.2	95
额定电压 Rated Voltage	V	380	380	380	380	380	380	380	380	380	380	380	380	380
重量 weight	kg	29.5	31.5	40.5	44.5	57.2	61.2	86.5	92.8	118	146.5	158.6	176.5	228

一体机安装尺寸 INTEGRATED MOTOR MOUNTNG DIMENSION



电机型号 Frame size	A	B	C	D	AC	H	K	L	M	N	S
TYK112	190	248	105	202	202	112	12	257	226	176	4-Φ12
TYK132	216	316	112.5	264	242	132	14	277	290	235	4-Φ14
TYK160	254	350	115	300	290	260	14	282	320	261	4-Φ18
TYK180	270	380	130	328	320	180	18	312	380	291	8-Φ13
TYK225	430	527	179.5	476	410	225	22	432	484	401	8-Φ16
TYK280	540	590	260	540	495	280	22	550	560	446	8-Φ18

分体机的特点 CHARACTERISTIC OF SPLIT-TYPE MOTOR

- ▶ 采用超高内禀矫顽力、耐高温稀土永磁材料，抗去磁能力强
- ▶ 节能效果卓越
- ▶ 环境适用性强，使用安全可靠
- ▶ Ultra-high intrinsic coercivity, high temperature rare earth permanent magnet materials, strong resistance to magnetic en ergy
- ▶ Remarkable energy saving effect
- ▶ Strong environmental applicability and safe and reliable use



分体机技术规范 SPLIT-TYPE MOTOR TECHNICAL SPECIFICATIONS

SPEED 3000RPM

电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	额定转矩 Rated current N.M	额定电流 Rated Current A	效率 Efficiency H %	额定电压 Rated voltage V	重量 Weight KG
TYK112M1	5.5	3000	17.5	10.0	89.2	380	39
TYK112M2	7.5	3000	23.9	13.6	90.1	380	46
TYK132S1	11	3000	35.0	20.0	91.2	380	55
TYK132S2	15	3000	47.8	27.2	91.9	380	61
TYK160M1	18.5	3000	58.9	33.6	92.4	380	98
TYK160M2	22	3000	70.0	39.9	92.7	380	108
TYK180M1	30	3000	95.5	54.5	93.3	380	158
TYK180M2	37	3000	117.8	67.2	93.7	380	168
TYK180M3	45	3000	143.3	81.7	94	380	180
TYK225M1	55	3000	175.1	99.8	94.5	380	298
TYK225M2	75	3000	238.8	136.1	94.9	380	320
TYK250M1	90	3000	286.5	163.4	95.3	380	377
TYK250M2	110	3000	350.2	199.7	95.4	380	401
TYK280S1	132	3000	420.2	239.6	95.4	380	480
TYK280S2	160	3000	509.3	290.4	95.6	380	515
TYK280M1	200	3000	636.7	363.0	95.8	380	570
TYK280M2	250	3000	795.8	453.8	95.8	380	608

分体机技术规范 SPLIT-TYPE MOTOR TECHNICAL SPECIFICATIONS

SPEED 1500RPM

电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	额定转矩 Rated current N.M	额定电流 Rated Current A	效率 Efficiency H %	额定电压 Rated voltage V	重量 Weight KG
TYK112L1	5.5	1500	35.0	9.8	89.8	380	48
TYK112L2	7.5	1500	47.8	13.4	90.5	380	53
TYK132M1	11	1500	70.0	19.7	91.5	380	66
TYK160L1	15	1500	95.5	26.8	92.3	380	114
TYK180L1	18.5	1500	117.8	33.0	92.6	380	155
TYK180L2	22	1500	140.1	39.3	93.1	380	165
TYK180L3	30	1500	191.0	53.6	93.6	380	190
TYK225L1	37	1500	235.6	66.1	94.1	380	290
TYK225L2	45	1500	286.5	80.4	94.2	380	325
TYK250L1	55	1500	350.2	98.3	94.7	380	387
TYK250L2	75	1500	477.5	134.0	95.1	380	440
TYK280L1	90	1500	573.0	160.8	95.3	380	525
TYK280L2	110	1500	700.3	196.5	95.4	380	560
TYK280L3	132	1500	840.4	235.8	95.6	380	608
TYK280L4	160	1500	1018.7	285.8	95.8	380	670
TYK315M1	200	1500	1273.3	357.3	96	380	1125
TYK315M2	250	1500	1591.7	446.6	96	380	1220



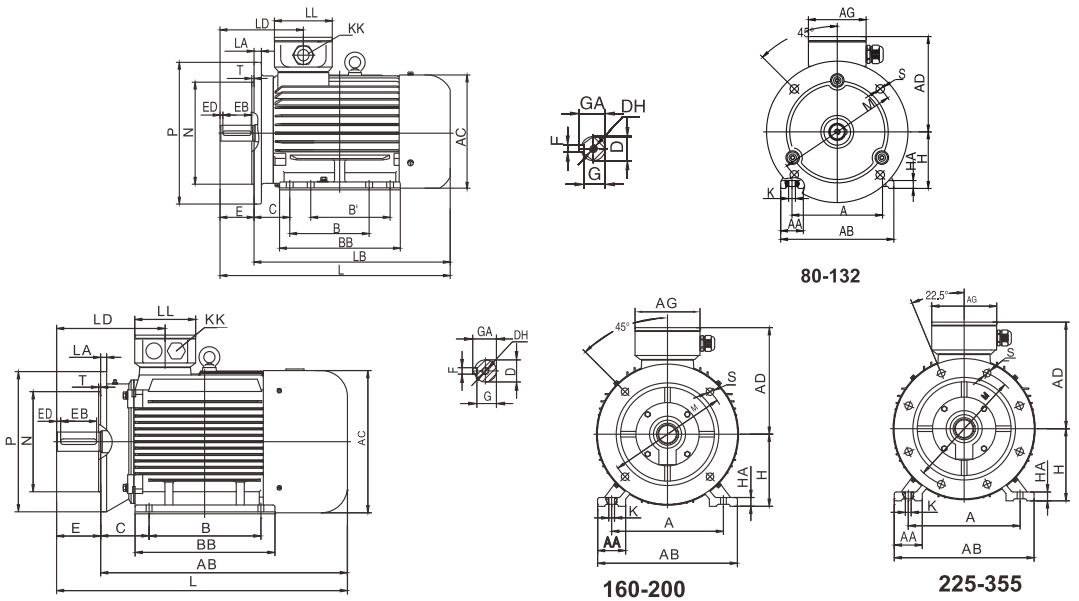
分体机技术规范
SPLIT-TYPE MOTOR TECHNICAL SPECIFICATIONS

SPEED 1000RPM

电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	额定转矩 Rated current N.M	额定电流 Rated Current A	效率 Efficiency H %	额定电压 Rated voltage V	重量 Weight KG
TYK132S	5.5	1000	52.5	10.3	89.7	380	62.3
TYK132M	7.5	1000	71.6	13.8	90.6	380	75.2
TYK160M	11	1000	105.1	20.1	91.4	380	112
TYK160L	15	1000	143.3	27.3	92	380	134
TYK180M1	18.5	1000	176.7	33.4	92.6	380	181
TYK180M2	22	1000	210.1	39.5	93.2	380	189
TYK180L	30	1000	286.5	53.6	93.6	380	197
TYK225S	37	1000	353.4	65.8	94	380	284
TYK225M	45	1000	429.8	79.7	94.4	380	308
TYK250M1	55	1000	525.3	98	94.7	380	383
TYK250M2	75	1000	716.3	132	95	380	425
TYK280S	90	1000	859.5	158	95.2	380	501
TYK280M1	110	1000	1050.5	193	95.3	380	573
TYK280M2	132	1000	1260.6	231	95.4	380	615
TYK315S	160	1000	1528.0	280	95.6	380	843
TYK315M	200	1000	1910.0	349	95.8	380	941
TYK315L	250	1000	2387.5	436	95.8	380	1017

分体机安装尺寸
SPLIT-TYPE MOTOR MOUNTING DIMENSION

IM B35 H80-355



型号 Type	A	AA	AB	AC	AD	AG	B	BB	C	D	DH	E	EB	ED	F	G	GA	H	HA	K	KK	L	LA	LB	LD	LL	M	N	P	S	T
112M	190	50	240	230	188	118	140	188	70	28	M10X22	60	50	5	8	24	31	112	15	4-Φ12	2-M32X1.5	394	14	334	147	110	215	180	250	14.5	4
132S	216	55	262	258.4	203	118	140	200	89	38	M12X28	80	65	7.5	10	33	41	132	18	4-Φ12	2-M32X1.5	470	14	390	172	110	265	230	300	14.5	4
132M	216	55	262	258.4	203	118	178	238	89	38	M12X28	80	65	7.5	10	33	41	132	18	4-Φ12	2-M32X1.5	508	14	428	172	110	265	230	300	14.5	4
160M	254	65	314	314	251	162	210	260	108	42	M16X36	110	90	10	12	37	45	160	20	4-Φ14.5	2-M40X1.5	608	15	498	256	152	300	250	350	18.5	5
160L	254	65	314	314	251	162	254	304	108	42	M16X36	110	90	10	12	37	45	160	20	4-Φ14.5	2-M40X1.5	652	15	542	256	152	300	250	350	18.5	5
180M	279	70	349	355	267	162	241	311	121	48	M16X36	110	90	10	14	42.5	51.5	180	22	4-Φ14.5	2-M40X1.5	688	15	578	271	152	300	250	350	18.5	5
180L	279	70	349	355	267	162	279	349	121	48	M16X36	110	90	10	14	42.5	51.5	180	22	4-Φ14.5	2-M40X1.5	726	15	616	271	152	300	250	350	18.5	5
200L	318	70	388	397	299	210	305	369	133	55	M20X42	110	100	5	16	49	59	200	25	4-Φ18.5	2-M50X1.5	779	17	669	296	190	350	300	400	18.5	5
225S	356	75	431	446	322	210	286	368	149	60	M20X42	140	125	7.5	18	53	64	225	28	4-Φ18.5	2-M50X1.5	824	20	684	329	190	400	350	450	18.5	5
225M	356	75	431	446	322	210	311	393	149	60	M20X42	140	125	7.5	18	53	64	225	28	4-Φ18.5	2-M50X1.5	849	20	709	329	190	400	350	450	18.5	5
250M	406	80	484	485	358	248	349	445	168	65	M20X42	140	125	7.5	18	58	69	250	30	4-Φ24	2-M63X1.5	910	22	770	347	218	500	450	550	18.5	5
280S	457	85	542	547	387	248	368	485	190	75	M20X42	140	125	7.5	20	67.5	79.5	280	35	4-Φ24	2-M63X1.5	982	22	842	355.5	218	500	450	550	18.5	5
280M	457	85	542	547	387	248	419	536	190	75	M20X42	140	125	7.5	20	67.5	79.5	280	35	4-Φ24	2-M63X1.5	1033	22	893	355.5	218	500	450	550	18.5	5
315S	508	120	628	620	527	320	406	570	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1224	22	1054	427	280	600	550	660	24	6
315M	508	120	628	620	527	320	457	680	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1334	22	1164	427	280	600	550	660	24	6
315L	508	120	628	620	527	320	508	680	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1334	22	1164	427	280	600	550	660	24	6

TYC异步起动永磁同步电动机

TYC ASYNCHRONOUS START PERMANENT MAGNET SYNCHRONOUS MOTOR



TYC 160 M -4

极数
No. of poles

铁芯长度
Core length

机座号
Frame size

金龙产品代号
JINGLONG motor
identification symbol



技术规范

TECHNICAL SPECIFICATIONS

SPEED 3000RPM 2-POLE 50HZ

电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	效率 Efficiency H %	功率因数 Power factor COS Φ	额定电流 Rated Current A	额定转矩 Rated current N.M	额定电压 Rated voltage V	堵转转矩/ 额定转矩 TS/TN	最大转矩/ 额定转矩 TMAX/TN	堵转电流/ 额定电流 IS/IN	重量 Weight KG
TYC100M-2	3	3000	87.2	0.94	5.56	9.55	380	1.9	2.2	9	38.8
TYC112M-2	4	3000	88.2	0.94	7.33	12.73	380	1.9	2.2	9	48.3
TYC132S-2	5.5	3000	89.3	0.94	9.96	17.51	380	1.8	2.1	8.7	55.1
TYC132M-2	7.5	3000	90.2	0.94	13.44	23.87	380	1.8	2.1	8.7	69.2
TYC160M1-2	11	3000	91.3	0.94	19.47	35.02	380	1.7	2.1	8.6	128
TYC160M2-2	15	3000	92	0.95	26.08	47.75	380	1.7	2.1	8.6	134
TYC160L-2	18.5	3000	92.5	0.95	31.98	58.89	380	1.7	2.1	8.6	149
TYC180M-2	22	3000	92.8	0.95	37.92	70.03	380	1.7	2.1	8.5	200
TYC200L1-2	30	3000	93.4	0.95	51.37	95.5	380	1.7	2.1	8.5	255
TYC200L2-2	37	3000	93.8	0.95	63.09	117.78	380	1.7	2.1	8.5	280
TYC225M-2	45	30 00	94.1	0.95	76.48	143.25	380	1.7	2.1	8.5	375
TYC250M-2	55	3000	94.4	0.95	93.18	175.08	380	1.7	2.1	8.5	428

技术规范

TECHNICAL SPECIFICATIONS

SPEED 1500RPM 4-POLE 50HZ

电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	效率 Efficiency H %	功率因数 Power factor COS Φ	额定电流 Rated Current A	额定转矩 Rated current N.M	额定电压 Rated voltage V	堵转转矩/ 额定转矩 TS/TN	最大转矩/ 额定转矩 TMAX/TN	堵转电流/ 额定电流 IS/IN	重量 Weight KG
TYC100L1-4	2.2	1500	86.7	0.93	4.15	14.01	380	1.9	2.2	9	41.5
TYC100L2-4	3	1500	87.7	0.93	5.59	19.1	380	1.9	2.2	9	45.5
TYC112M-4	4	1500	88.6	0.93	7.38	25.47	380	1.8	2.1	8.7	63.2
TYC132S-4	5.5	1500	89.6	0.93	10.03	35.02	380	1.8	2.1	8.7	71.2
TYC132M-4	7.5	1500	90.4	0.93	13.55	47.75	380	1.7	2.1	8.6	85.1
TYC160M-4	11	1500	91.4	0.94	19.45	70.03	380	1.7	2.1	8.6	125
TYC160L-4	15	1500	92.1	0.94	26.33	95.5	380	1.7	2.1	8.6	147
TYC180M-4	18.5	1500	92.6	0.94	32.29	117.78	380	1.7	2.1	8.5	198
TYC180L-4	22	1500	93.1	0.94	38.24	140.07	380	1.7	2.1	8.5	213
TYC200L-4	30	1500	93.6	0.94	51.81	191.0	380	1.7	2.1	8.5	282
TYC225S-4	37	1500	93.9	0.94	63.69	235.57	380	1.7	2.1	8.5	331
TYC225M-4	45	1500	94.2	0.94	77.21	286.5	380	1.7	2.1	8.5	365
TYC250M-4	55	1500	94.6	0.95	92.98	350.17	380	1.7	2.1	8.5	430
TYC280S-4	75	1500	95.1	0.95	126.26	477.5	380	1.7	2.1	8.5	565
TYC280M-4	90	1500	95.2	0.95	151.20	573.0	380	1.7	2.1	8.5	654
TYC315S-4	110	1500	95.4	0.95	184.41	700.3	380	1.7	2.1	8.5	995
TYC315M-4	132	1500	95.6	0.95	220.83	840.4	380	1.7	2.1	8.5	1136
TYC315L1-4	160	1500	95.8	0.95	267.12	1018.7	380	1.7	2.1	8.5	1185
TYC315L2-4	200	1500	96.1	0.95	333.2	1273.3	380	1.7	2.1	8.5	1311
TYC355M-4	250	1500	96.1	0.95	416.5	1591.7	380	1.7	2.1	8.5	1830

技术规范
TECHNICAL SPECIFICATIONS

SPEED 1000RPM 6-POLE 50HZ

电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	效率 Efficiency H %	功率因数 Power factor COS Φ	额定电流 Rated Current A	额定转矩 Rated current N.M	额定电压 Rated voltage V	堵转转矩/ 额定转矩 TS/TN	最大转矩/ 额定转矩 TMAX/TN	堵转电流/ 额定电流 IS/IN	重量 Weight KG
TYC100L-6	1.5	1000	85.5	0.93	2.87	14.33	380	1.9	2.2	9	34.9
TYC112M-6	2.2	1000	86.9	0.93	4.13	21.01	380	1.9	2.2	9	54.2
TYC132S-6	3	1000	88.1	0.93	5.57	28.65	380	1.8	2.1	8.7	62.3
TYC132M1-6	4	1000	89.2	0.93	7.33	38.2	380	1.8	2.1	8.7	75.2
TYC132M2-6	5.5	1000	90.1	0.93	9.97	52.53	380	1.7	2.1	8.6	82.3
TYC160M-6	7.5	1000	91.1	0.93	13.45	71.63	380	1.7	2.1	8.6	128
TYC160L-6	11	1000	91.8	0.94	19.37	105.1	380	1.7	2.1	8.6	146
TYC180L-6	15	1000	92.6	0.94	26.19	143.3	380	1.7	2.1	8.5	196
TYC200L1-6	18.5	1000	93.2	0.94	32.08	176.7	380	1.7	2.1	8.5	261
TYC200L2-6	22	1000	93.7	0.94	37.95	210.1	380	1.7	2.1	8.5	265
TYC250M-6	37	1000	94.5	0.94	63.29	353.4	380	1.7	2.1	8.5	380
TYC280S-6	45	1000	94.7	0.94	76.84	429.8	380	1.7	2.1	8.5	495
TYC280M-6	55	1000	95.0	0.95	92.59	525.3	380	1.7	2.1	8.5	573
TYC315S-6	90	1000	95.4	0.95	150.9	859.5	380	1.7	2.1	8.5	952
TYC315M-6	110	1000	95.6	0.95	184.0	1050.5	380	1.7	2.1	8.5	1121
TYC315L1-6	132	1000	95.4	0.95	221.29	1260.6	380	1.7	2.1	8.5	1247
TYC315L2-6	160	1000	95.6	0.95	267.67	1528	380	1.7	2.1	8.5	1715

技术规范
TECHNICAL SPECIFICATIONS

SPEED 750RPM 8-POLE 50HZ

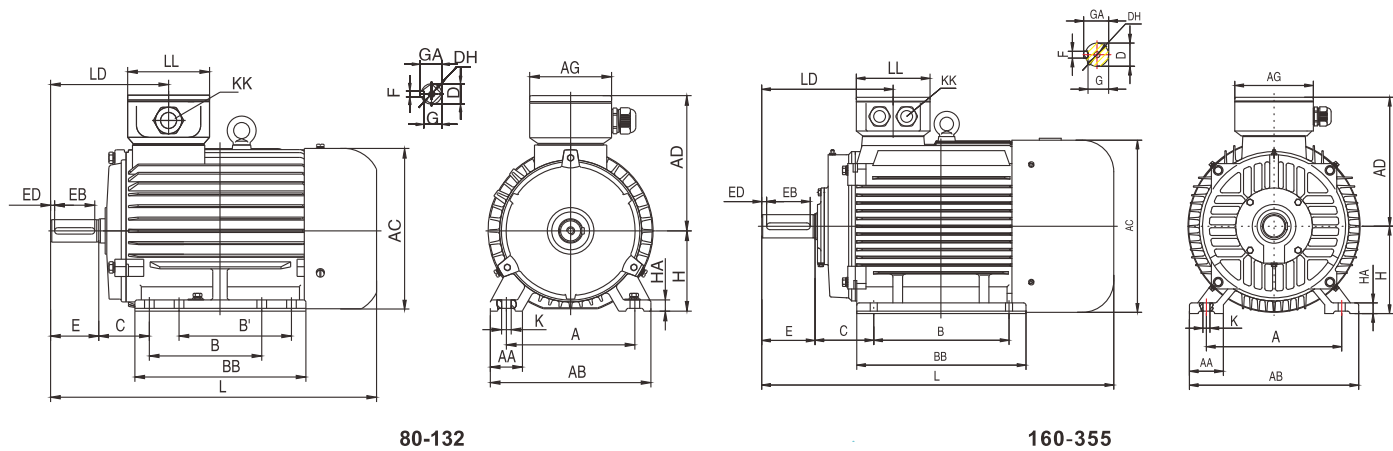
电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	效率 Efficiency H %	功率因数 Power factor COS Φ	额定电流 Rated Current A	额定转矩 Rated current N.M	额定电压 Rated voltage V	堵转转矩/ 额定转矩 TS/TN	最大转矩/ 额定转矩 TMAX/TN	堵转电流/ 额定电流 IS/IN	重量 Weight KG
TYC132S-8	2.2	750	87.2	0.93	4.12	28.01	380	1.9	2.2	9	61.5
TYC132M-8	3	750	88.3	0.93	5.55	38.2	380	1.9	2.2	9	75
TYC160M1-8	4	750	89.2	0.93	7.33	50.93	380	1.8	2.1	8.7	101
TYC160M2-8	5.5	750	90.1	0.93	9.97	70.03	380	1.8	2.1	8.7	110
TYC160L-8	7.5	750	90.8	0.93	13.50	95.5	380	1.7	2.1	8.6	138
TYC180L-8	11	750	91.5	0.94	19.43	140.1	380	1.7	2.1	8.6	147
TYC200L-8	15	750	92.1	0.94	26.33	191	380	1.7	2.1	8.6	213
TYC225S-8	18.5	750	92.6	0.94	32.29	235.6	380	1.7	2.1	8.5	227
TYC225M-8	22	750	93.1	0.94	38.19	280.1	380	1.7	2.1	8.5	250
TYC250M-8	30	750	93.5	0.94	51.86	382	380	1.7	2.1	8.5	350
TYC280S-8	37	750	93.8	0.94	63.76	471.1	380	1.7	2.1	8.5	457
TYC280M-8	45	750	94.0	0.94	77.38	573	380	1.7	2.1	8.5	520
TYC315S-8	75	750	94.3	0.95	127.2	955	380	1.7	2.1	8.5	906
TYC315M-8	90	750	94.6	0.95	152.2	1146	380	1.7	2.1	8.5	987
TYC315L1-8	110	750	94.7	0.95	185.8	1400.7	380	1.7	2.1	8.5	995
TYC315L2-8	132	750	94.7	0.95	222.9	1680.8	380	1.7	2.1	8.5	1700
TYC355S-8	160	750	94.9	0.95	269.6	2037.3	380	1.7	2.1	8.5	1850

SPEED 600RPM 10-POLE 50HZ

电机型号 Frame size	额定功率 Rated Power KW	额定转速 Rated Speed rpm	效率 Efficiency H %	功率因数 Power factor COS Φ	额定电流 Rated Current A	额定转矩 Rated current N.M	额定电压 Rated voltage V	堵转转矩/ 额定转矩 TS/TN	最大转矩/ 额定转矩 TMAX/TN	堵转电流/ 额定电流 IS/IN	重量 Weight KG
TYC315S-10	45	600	94.4	0.95	76.3	716.3	380	1.9	2.2	9	980
TYC315M-10	55	600	94.6	0.95	93.0	875.4	380	1.9	2.2	9	1060
TYC315L1-10	75	600	94.8	0.95	126.6	1193.8	380	1.8	2.1	8.7	1095
TYC315L2-10	90	600	94.9	0.95	152.3	1432.5	380	1.8	2.1	8.7	1115
TYC355S-10	110	600	95.1	0.95	184.9	1750.8	380	1.7	2.1	8.6	1320
TYC355M-10	132	600	95.2	0.95	221.8	2101	380	1.7	2.1	8.6	1385
TYC355L-10	160	600	95.3	0.95	268.5	2546.7	380	1.7	2.1	8.6	1456

TYC | 安装及外形尺寸
MOUNTING AND OVERALL DIMENS

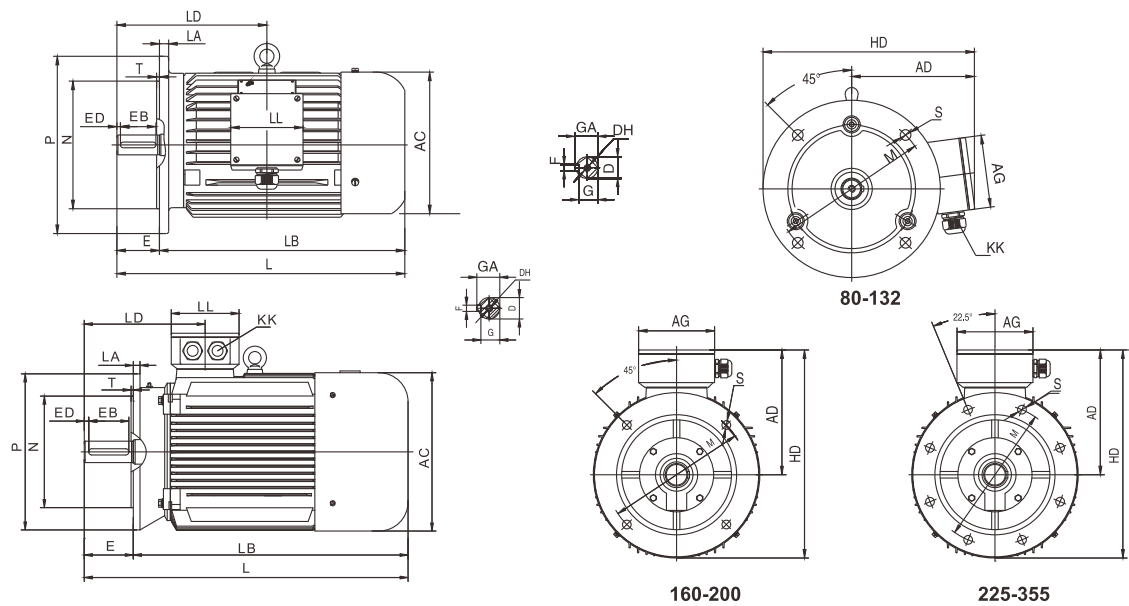
IM B3 H80-355



型号 Type	极数 Pole	A	AA	AB	AC	AD	AG	B	BB	C	D	DH	E	EB	ED	F	G	GA	H	HA	K	KK	L	LD	LL
80	2, 4, 6, 8	125	34	160	167	147	102	100	150	50	19	M6X16	40	30	5	6	15.5	21.5	80	10	4-Φ10	1-M25X1.5	305	120	102
90S	2, 4, 6, 8	140	36	180	205	170	102	100	160	56	24	M8X19	50	40	5	8	20	27	90	12	4-Φ10	1-M25X1.5	360	145	102
90L	2, 4, 6, 8	140	36	180	205	170	102	125	185	56	24	M8X19	50	40	5	8	20	27	90	12	4-Φ10	1-M25X1.5	390	145	102
100L	2, 4, 6, 8	160	40	205	215	180	102	140	213	63	28	M10X22	60	50	5	8	24	31	100	14	4-Φ12	1-M32X1.5	435	150	102
112M	2, 4, 6, 8	190	50	240	255	200	118	140	225	70	28	M10X22	60	50	5	8	24	31	112	15	4-Φ12	2-M32X1.5	450	155	110
132S	2, 4, 6, 8	216	55	270	310	230	118	140	200	89	38	M12X28	80	65	7.5	10	33	41	132	18	4-Φ12	2-M32X1.5	510	175	110
132M	4, 6, 8	216	55	270	310	230	118	178	238	89	38	M12X28	80	65	7.5	10	33	41	132	18	4-Φ12	2-M32X1.5	550	175	110
160M	2, 4, 6, 8	254	65	320	340	260	162	210	260	108	42	M16X36	110	90	10	12	37	45	160	20	4-Φ14.5	2-M40X1.5	730	260	152
160L	2, 4, 6, 8	254	65	320	340	260	162	254	304	108	42	M16X36	110	90	10	12	37	45	160	20	4-Φ14.5	2-M40X1.5	770	260	152
180M	2, 4, 8	279	70	355	390	285	162	241	311	121	48	M16X36	110	90	10	14	42.5	51.5	180	22	4-Φ14.5	2-M40X1.5	810	275	152
180L	4, 6, 8	279	70	355	390	285	162	279	349	121	48	M16X36	110	90	10	14	42.5	51.5	180	22	4-Φ14.5	2-M40X1.5	850	275	152
200L	2, 4, 6, 8	318	70	395	445	320	210	305	369	133	55	M20X42	110	100	5	16	49	59	200	25	4-Φ16.5	2-M50X1.5	890	300	190
225S	4, 8	356	75	435	495	350	210	286	368	149	60	M20X42	140	125	7.5	18	53	64	225	28	4-Φ18.5	2-M50X1.5	870	330	190
225M	2	356	75	435	495	350	210	311	393	149	55	M20X42	110	100	5	16	49	59	225	28	4-Φ18.5	2-M50X1.5	865	330	190
225M	4, 6, 8	356	75	435	495	350	210	311	393	149	60	M20X42	140	125	7.5	18	53	64	225	28	4-Φ18.5	2-M50X1.5	895	330	190
250M	2	406	80	490	550	390	248	349	445	168	60	M20X42	140	125	7.5	18	53	64	250	30	4-Φ24	2-M63X1.5	1000	350	220
250M	4, 6, 8	406	80	490	550	390	248	349	445	168	65	M20X42	140	125	7.5	18	58	69	250	30	4-Φ24	2-M63X1.5	1000	350	220
280S	2	457	85	550	630	430	248	368	485	190	65	M20X42	140	125	7.5	18	58	69	280	35	4-Φ24	2-M63X1.5	1030	360	220
280S	4, 6, 8	457	85	550	630	430	248	368	485	190	75	M20X42	140	125	7.5	20	67.5	79.5	280	35	4-Φ24	2-M63X1.5	1030	360	220
280M	2	457	85	550	630	430	248	419	536	190	65	M20X42	140	125	7.5	18	58	69	280	35	4-Φ24	2-M63X1.5	1080	360	220
280M	4, 6, 8	457	85	550	630	430	248	419	536	190	75	M20X42	140	125	7.5	20	67.5	79.5	280	35	4-Φ24	2-M63X1.5	1080	360	220
315S	2	508	120	635	645	530	320	406	570	216	65	M20X42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63X1.5	1210	405	280
315S	4, 6, 8, 10	508	120	635	645	530	320	406	570	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1240	435	280
315M	2	508	120	635	645	530	320	457	680	216	65	M20X42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63X1.5	1320	405	280
315M	4, 6, 8, 10	508	120	635	645	530	320	457	680	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1350	435	280
315L	2	508	120	635	645	530	320	508	680	216	65	M20X42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63X1.5	1320	405	280
315L	4, 6, 8, 10	508	120	635	645	530	320	508	680	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1350	435	280
355M	2	610	116	730	710	655	380	560	750	254	75	M20X50	140	130	5	20	67.5	79.5	355	52	6-Φ28	2-M63X1.5	1500	420	330
355M	4, 6, 8, 10	610	116	730	710	655	380	560	750	254	95	M24X50	170	160	5	25	86	100	355	52	6-Φ28	2-M63X1.5	1530	450	330
355L	2	610	116	730	710	655	380	630	750	254	75	M20X50	140	130	5	20	67.5	79.5	355	52	6-Φ28	2-M63X1.5	1500	420	330
355L	4, 6, 8, 10	610	116	730	710	655	380	630	750	254	95	M24X50	170	160	5	25	86	100	355	52	6-Φ28	2-M63X1.5	1530	450	330

TYC | 安装及外形尺寸
MOUNTING AND OVERALL DIMENS

IM B5 H80-355



型号 Type	极数 Pole	AC	AD	AG	D	DH	E	EB	ED	F	G	GA	HD	KK	L	LA	LD	LL	M	N	P	S	T
80	2, 4, 6, 8	167	147	102	19	M6X16	40	30	5	6	15.5	21.5	255	1-M25X1.5	305	12	120	102	165	130	200	12	3.5
90S	2, 4, 6, 8	205	170	102	24	M8X19	50	40	5	8	20	27	262	1-M25X1.5	360	12	145	102	165	130	200	12	3.5
90L	2, 4, 6, 8	205	170	102	24	M8X19	50	40	5	8	20	27	262	1-M25X1.5	390	12	145	102	165	130	200	12	3.5
100L	2, 4, 6, 8	215	180	102	28	M10X22	60	50	5	8	24	31	299	1-M32X1.5	435	13	150	102	215	180	250	14.5	4
112M	2, 4, 6, 8	255	200	118	28	M10X22	60	50	5	8	24	31	315	2-M32X1.5	450	14	155	110	215	180	250	14.5	4
132S	2, 4, 6, 8	310	230	118	38	M12X28	80	65	7.5	10	33	41	353	2-M32X1.5	510	14	175	110	265	230	300	14.5	4
132M	4, 6, 8	310	230	118	38	M12X28	80	65	7.5	10	33	41	353	2-M32X1.5	550	14	175	110	265	230	300	14.5	4
160M	2, 4, 6, 8	340	260	162	42	M16X36	110	90	10	12	37	45	426	2-M40X1.5	730	15	260	152	300	250	350	18.5	5
160L	2, 4, 6, 8	340	260	162	42	M16X36	110	90	10	12	37	45	426	2-M40X1.5	770	15	260	152	300	250	350	18.5	5
180M	2, 4, 8	390	285	162	48	M16X36	110	90	10	14	42.5	51.5	445	2-M40X1.5	810	15	275	152	300	250	350	18.5	5
180L	4, 6, 8	390	285	162	48	M16X36	110	90	10	14	42.5	51.5	445	2-M40X1.5	850	15	275	152	300	250	350	18.5	5
200L	2, 4, 6, 8	445	320	210	55	M20X42	110	100	5	16	49	59	499	2-M50X1.5	890	17	300	190	350	300	400	18.5	5
225S	4, 8	495	350	210	60	M20X42	140	125	7.5	18	53	64	547	2-M50X1.5	870	20	330	190	400	350	450	18.5	5
225M	2	495	350	210	55	M20X42	110	100	5	16	49	59	547	2-M50X1.5	865	20	330	190	400	350	450	18.5	5
225M	4, 6, 8	495	350	210	60	M20X42	140	125	7.5	18	53	64	547	2-M50X1.5	895	20	330	190	400	350	450	18.5	5
250M	2	550	390	248	60	M20X42	140	125	7.5	18	53	64	633	2-M63X1.5	1000	22	350	220	500	450	550	18.5	5
250M	4, 6, 8	550	390	248	65	M20X42	140	125	7.5	18	58	69	633	2-M63X1.5	1000	22	350	220	500	450	550	18.5	5
280S	2	630	430	248	65	M20X42	140	125	7.5	18	58	69	662	2-M63X1.5	1030	22	360	220	500	450	550	18.5	5
280S	4, 6, 8	630	430	248	75	M20X42	140	125	7.5	20	67.5	79.5	662	2-M63X1.5	1030	22	360	220	500	450	550	18.5	5
280M	2	630	430	248	65	M20X42	140	125	7.5	18	58	69	662	2-M63X1.5	1080	22	360	220	500	450	550	18.5	5
280M	4, 6, 8	630	430	248	75	M20X42	140	125	7.5	20	67.5	79.5	662	2-M63X1.5	1080	22	360	220	500	450	550	18.5	5
315S	2	645	530	320	65	M20X42	140	125	7.5	18	58	69	857	2-M63X1.5	1210	22	405	280	600	550	660	24	6
315S	4, 6, 8, 10	645	530	320	80	M20X42	170	160	5	22	71	85	857	2-M63X1.5	1240	22	435	280	600	550	660	24	6

新能源汽车永磁同步电机
NEW ENERGY VEHICLE PERMANENT MAGNET SYNCHRONOUS MOTOR

- ▶ 采用高性能磁钢，提高了电机转矩密度和功率密度；
 - ▶ 转子轻量化设计，降低电机重量和转子转动惯量；
 - ▶ 转子位置传感器采用旋转变压器，抗干扰能力强；
 - ▶ 整体优化的防水防尘设计，达到IP67的防护等级。
-
- ▶ High performance magnetic steel adopted to improve the torque density and power density of the motor;
 - ▶ Lightweight rotor designed to reduce the weight of the motor and rotary inertia of the rotor;
 - ▶ Rotary transformer adopted for the rotor position sensor to realize strong anti-interference performance;
 - ▶ Overall optimized water and dust resistant design with protection class of IP67.

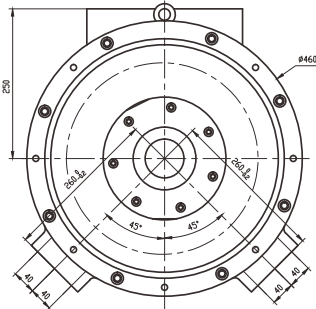
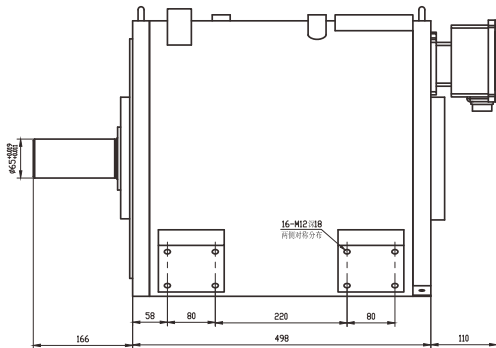
技术规范
TECHNICAL PARAMETER

电机类型 Type	永磁同步电机 Permanent magnet synchronous motor
电池压力 Battery Voltage	DC540V
额定功率 Rated Power	100kW
额定转矩 Rated Torque	830N.m
额定频率 Rated Frequency	57.5Hz
额定转速 Rated Speed	1150rpm
额定电流 Rated Current	200A
接线方式 Wiring Mode	Y
绝缘等级 Insulation Grade	H
重量 Weight	360kg
速度传感器 Speed Sensor	旋转变压器Rotary transformer J52XU9734A
信号插座 Signal Socket	安费诺Rotary transformer RT001412PN03



电机型号 Model	400TZ-XS-100-11
工作制 Working System	S9
峰值功率 Power Peak	250kW
最大转矩 Max Torque	2800N.m
额定转速反电势 Rated Rotational Speed Counter Electromotive Force	290V
最高转速 Max Speed	2800rpm
峰值电流 Current Peak	690A
极对数 Number of Pole-Pairs	3
冷却方式 Cooling Mode	水冷 Water cooling
防护等级 Protection class	IP67
电机转向 Rotation Direction	出轴端看逆时针方向为车辆前进方向 Viewing from the output shaft, the anticlockwise direction is the vehicle moving direction.
温度传感器 Temperature Sensor	NTC

安装及外型尺寸
OVERALL AND INSTALLATION DIMENSIONS



新能源汽车永磁同步电机
NEW ENERGY VEHICLE PERMANENT MAGNET SYNCHRONOUS MOTOR

- ▶ 采用高性能磁钢，提高了电机转矩密度和功率密度；
 - ▶ 转子轻量化设计，降低电机重量和转子转动惯量；
 - ▶ 转子位置传感器采用旋转变压器，抗干扰能力强；
 - ▶ 整体优化的防水防尘设计，达到IP67的防护等级。
-
- ▶ High performance magnetic steel adopted to improve the torque density and power density of the motor;
 - ▶ Lightweight rotor designed to reduce the weight of the motor and rotary inertia of the rotor;
 - ▶ Rotary transformer adopted for the rotor position sensor to realize strong anti-interference performance;
 - ▶ Overall optimized water and dust resistant design with protection class of IP67.

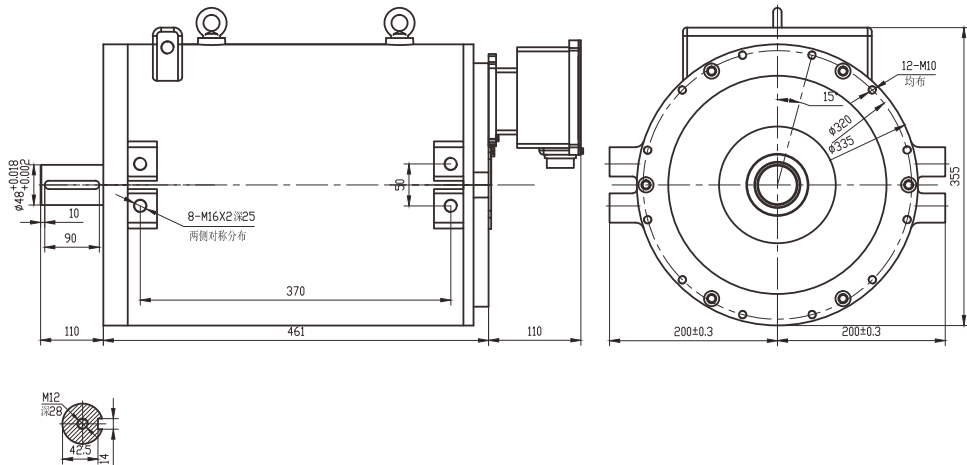
技术规范
TECHNICAL PARAMETER

电机类型 Type	永磁同步电机 Permanent magnet synchronous motor
电池压力 Battery Voltage	DC540V
额定功率 Rated Power	60kW
额定转矩 Rated Torque	358N.m
额定频率 Rated Frequency	106.6Hz
额定转速 Rated Speed	1600rpm
额定电流 Rated Current	110A
接线方式 Wiring Mode	Y
绝缘等级 Insulation Grade	H
重量 Weight	170kg
速度传感器 Speed Sensor	旋转变压器Rotary transformer J52XU9734A
信号插座 Signal Socket	安费诺Rotary transformer RT001412PN03



电机型号 Model	290TZ-XS-60-16
工作制 Working System	S9
峰值功率 Power Peak	110kW
最大转矩 Max Torque	1200N.m
额定转速反电势 Rated Rotational Speed Counter Electromotive Force	299V
最高转速 Max Speed	3500rpm
峰值电流 Current Peak	380A
极对数 Number of Pole-Pairs	4
冷却方式 Cooling Mode	水冷 Water cooling
防护等级 Protection class	IP67
电机转向 Rotation Direction	出轴端看逆时针方向为车辆前进方向 Viewing from the output shaft, the anticlockwise direction is the vehicle moving direction.
温度传感器 Temperature Sensor	NTC

安装及外型尺寸
OVERALL AND INSTALLATION DIMENSIONS



新能源汽车永磁同步电机
NEW ENERGY VEHICLE PERMANENT MAGNET SYNCHRONOUS MOTOR

- ▶ 采用高性能磁钢，提高了电机转矩密度和功率密度；
- ▶ 转子轻量化设计，降低电机重量和转子转动惯量；
- ▶ 低反电动势设计，易于控制，提高系统安全性；
- ▶ 高峰值扭矩设计，针对物流车低速起步、爬坡应用优化。
- ▶ High performance magnetic steel adopted to improve the torque density and power density of the motor;
- ▶ Lightweight rotor designed to reduce the weight of the motor and rotary inertia of the rotor;
- ▶ Low counter electromotive force design allowing easy control and improving the safety of the system;
- ▶ High peak torque design optimizing low-speed starting and climbing of logistics vehicles.

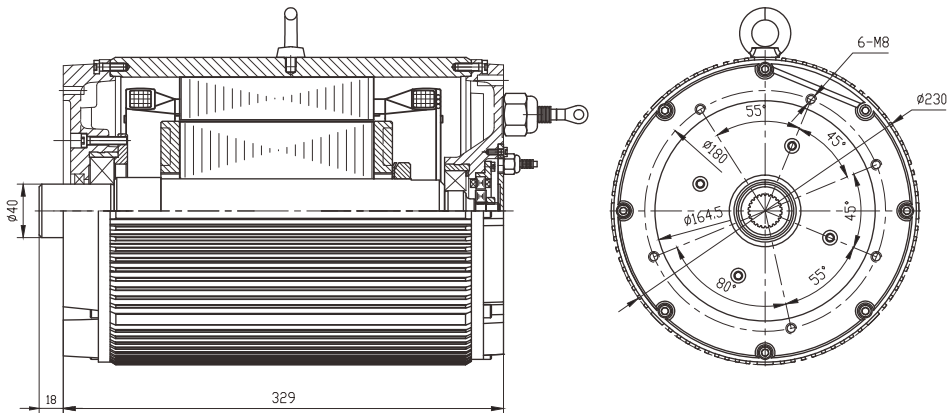


技术规范
TECHNICAL PARAMETER

电机类型 Type	永磁同步电机 Permanent magnet synchronous motor
电池压力 Battery Voltage	DC320V
额定功率 Rated Power	18kW
额定转矩 Rated Torque	57N.m
额定频率 Rated Frequency	200Hz
额定转速 Rated Speed	3000rpm
额定电流 Rated Current	60A
接线方式 Wiring Mode	Y
绝缘等级 Insulation Grade	H
重量 Weight	47kg
速度传感器 Speed Sensor	旋转变压器 Rotary transformer J52XU9734A

电机型号 Model	200TZ-X-18-30
工作制 Working System	S9
峰值功率 Power Peak	42kW
最大转矩 Max Torque	175N.m
额定转速反电势 Rated Speed Counter Electromotive Force	180V
最高转速 Max Speed	8000rpm
峰值电流 Current Peak	180A
极对数 Number of Pole-Pairs	4
冷却方式 Cooling Mode	自然冷却 Natural cooling
防护等级 Protection class	IP65
温度传感器 Temperature Sensor	NTC

安装及外型尺寸
OVERALL AND INSTALLATION DIMENSIONS



永磁直流无刷电机
PERMANENT MAGNET DC BRUSHLESS MOTOR

- ▶ 采用高性能磁钢，提高了电机转矩密度和功率密度；
- ▶ 转子轻量化设计，降低电机重量和转子转动惯量；
- ▶ 速度范围宽，电机可以在低中高速度范围内运行；
- ▶ 高峰值扭矩设计，低速起步、爬坡应用优化。
- ▶ High performance magnetic steel adopted to improve the torque density and power density of the motor;
- ▶ Lightweight rotor designed to reduce the weight of the motor and rotary inertia of the rotor;
- ▶ Wide speed range, motor can operate in low, medium, high and large speed range.
- ▶ High peak torque design, low-speed start, climbing application optimization.



技术规范
TECHNICAL PARAMETER

电机类型 Type	永磁直流无刷电机 Permanent Magnet DC Brushless Motor
电池压力 Battery Voltage	DC60V
额定功率 Rated Power	4/5/6kW
额定转矩 Rated Torque	12.7/15.9/19.1N.m
额定转速 Rated Speed	3000rpm

电机型号 Model	180TZ-H-4-30/180TZ-H-5-30/180TZ-H-6-30
工作制 Working System	S9
峰值功率 Power Peak	8/10/12kW
最大电流 Maximum Current	200A
最高转速 Max Speed	5000rpm

安装及外型尺寸
OVERALL AND INSTALLATION DIMENSIONS

