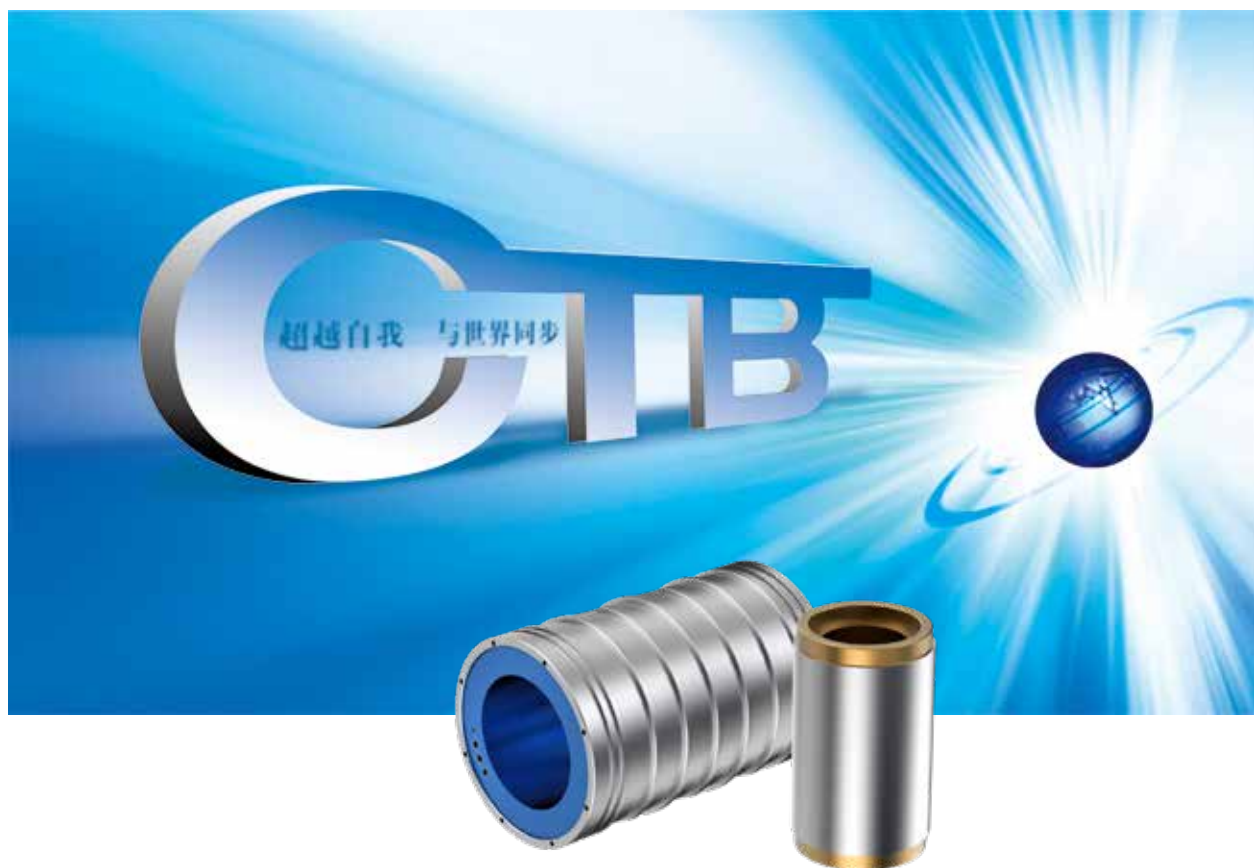


DZM 系列内装电机



超同步股份有限公司成立于 2008 年，专注于智能制造领域，提供伺服电机、力矩电机、电主轴等核心部件及专业的自动化伺服控制解决方案。公司拥有两家全资子公司，北京超同步科技有限公司（成立于 2000 年）和山东超同步智能装备有限公司（成立于 2017 年）。

公司是国家高新技术企业、国家专精特新“小巨人”企业、新三板挂牌企业。公司获“国家绿色工厂”、北京市“智能工厂”认定，公司是北京市专利示范单位、北京市企业科技研究开发机构、北京市企业技术中心。

公司产品包括全系列交流伺服电机、交流伺服驱动器、PLC、运动控制器等工业自动化产品，力矩电机、电主轴、直驱转台等核心功能部件。核心技术达到国际先进水平，关键产品可替代进口同类产品，广泛应用于工业母机、工业机器人、工业自动化等领域。

公司拥有自主知识产权的核心技术，各类专利及软件著作权 300 余项，其中发明专利 30 余项，伺服控制系统技术处于国内领先水平，掌握伺服控制空间矢量算法、控制软件开发、伺服驱动设计、伺服电机电磁设计、制造工艺等核心技术。

公司在北京和山东拥有两个智能装备产业园，经营面积 10 万平方米。设备先进，管理严格，产能充足，具备强大的生产能力和供货能力。全国设有 30 个办事处，销售服务网络遍布大江南北，可为广大用户提供高效专业的售前、售中及售后服务。





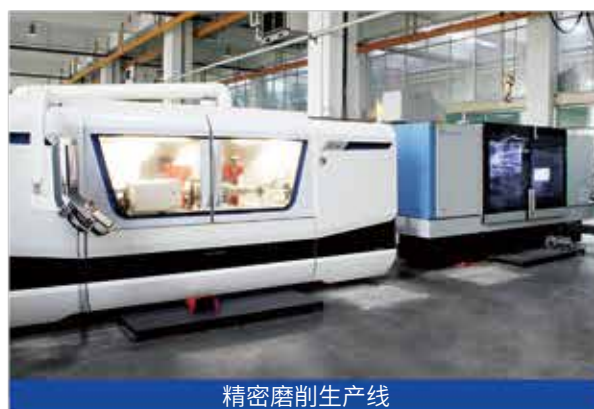
伺服电机生产线



功能部件生产线



伺服驱动生产线



精密磨削生产线



冲剪生产线



龙门加工生产线

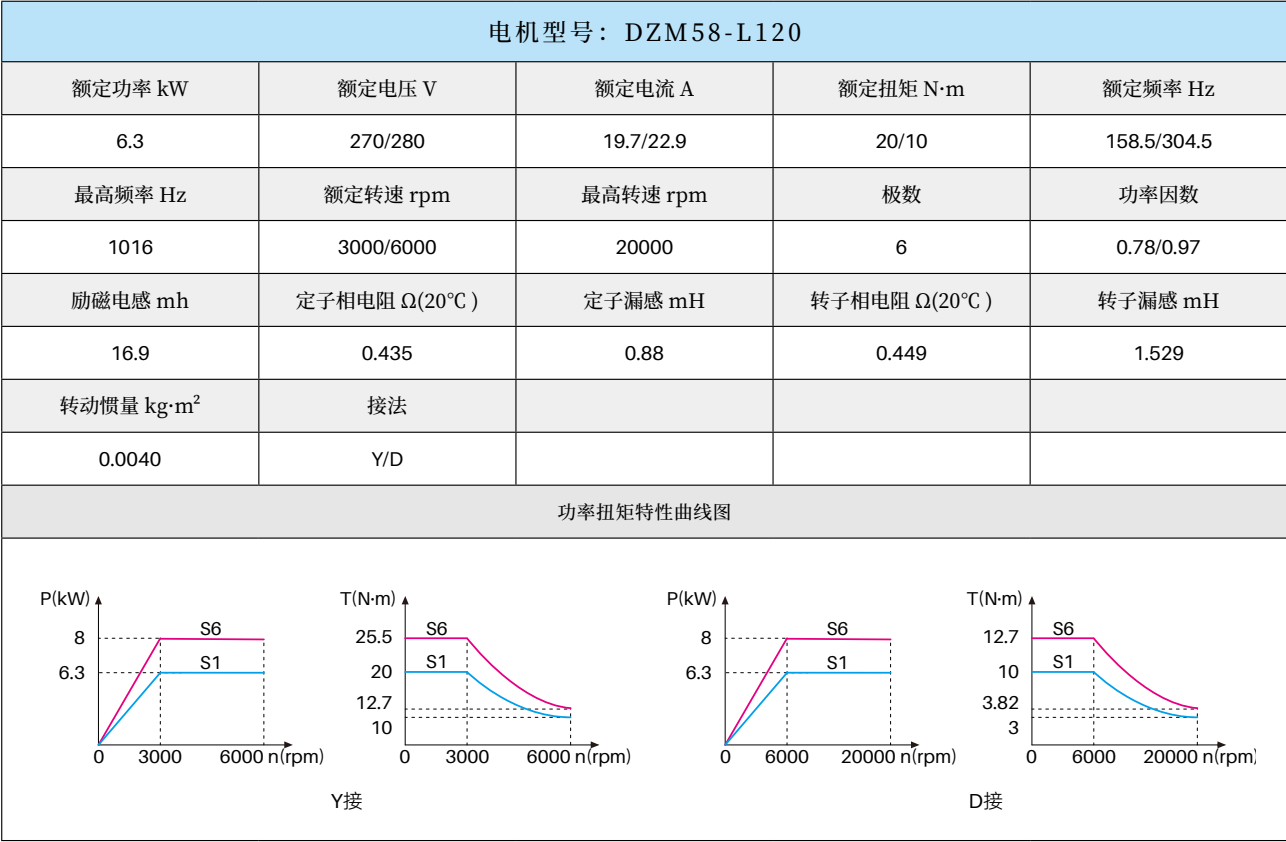
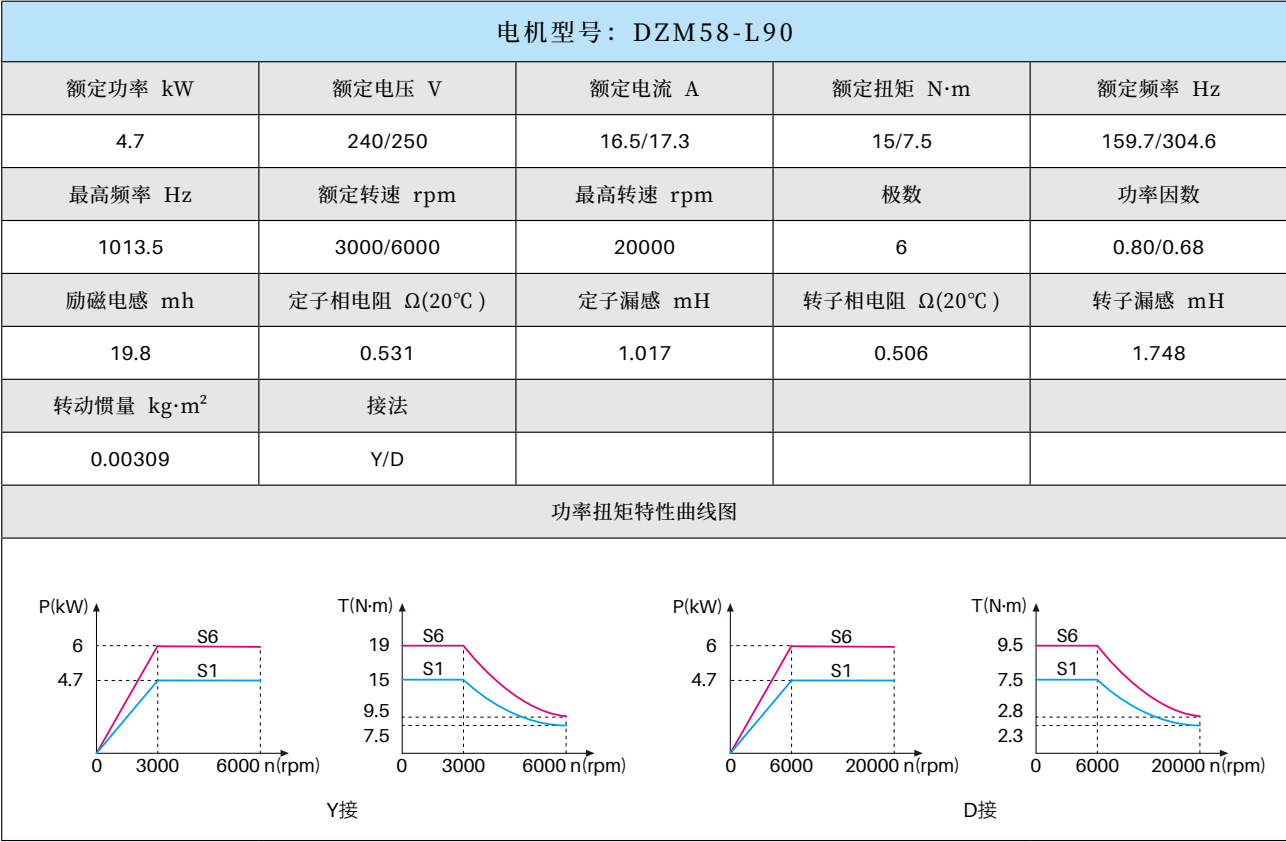
以7.5KW内装电机为例

① ② ③ ④ ⑤ ⑥ ⑦

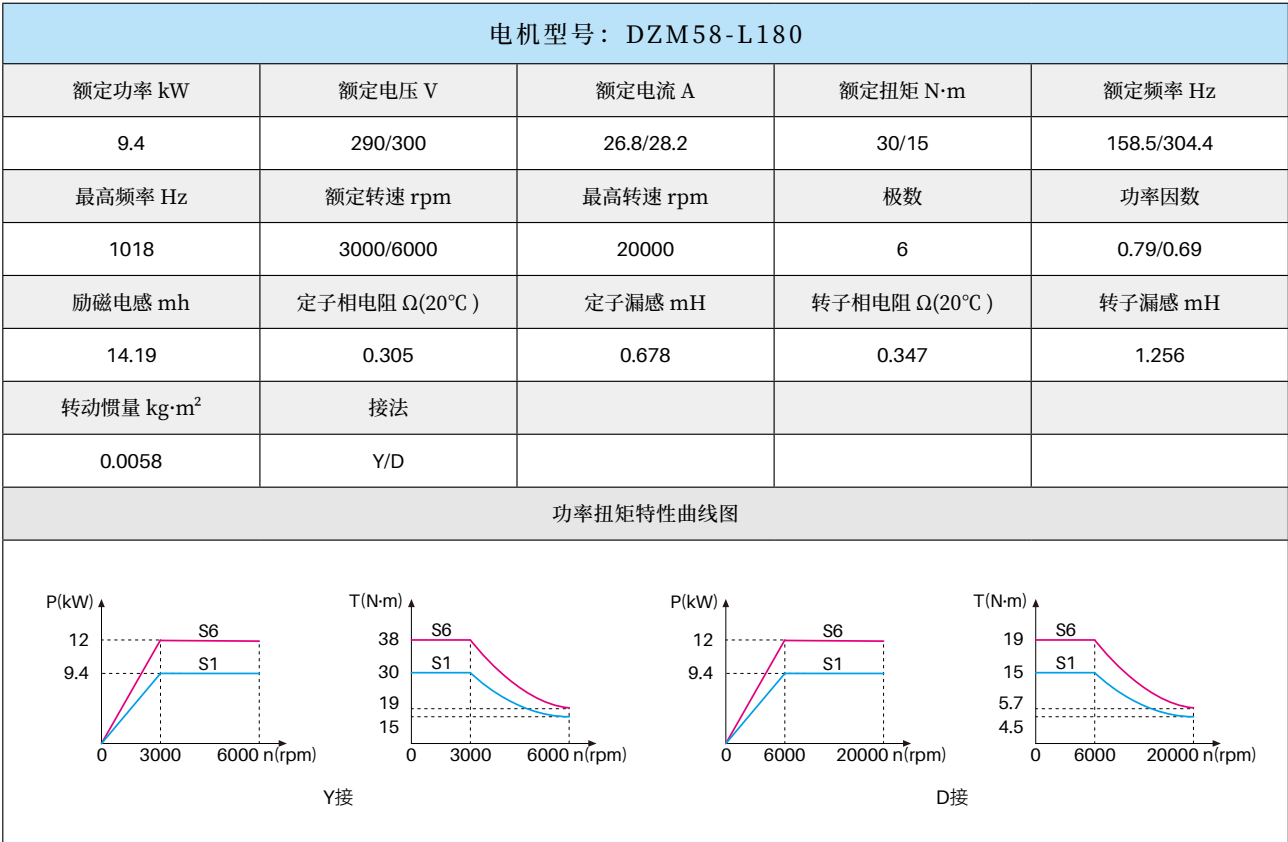
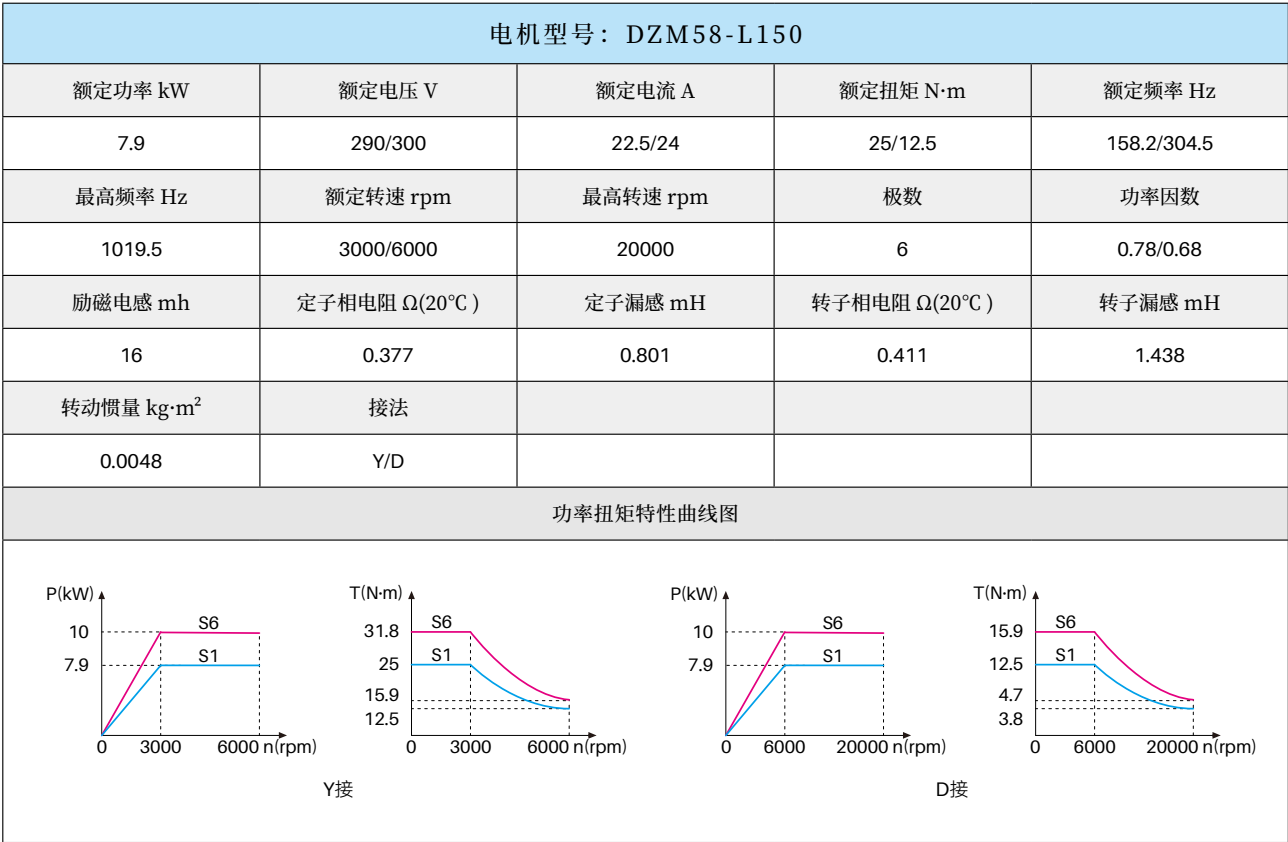
机座号: DZM58

超同步电机 中国好电机

◆ 电气参数

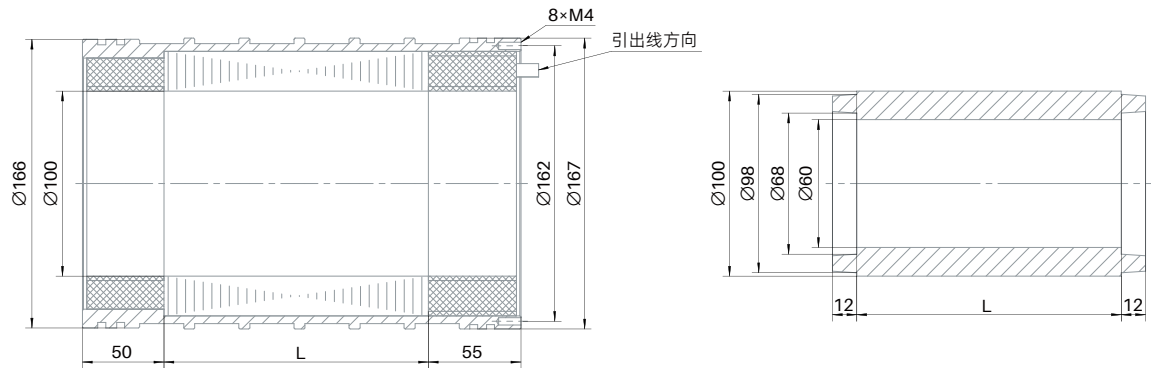


◆ 电气参数



机座号: DZM60A

外形尺寸



电机型号	L (mm)
DZM60A-L90	90
DZM60A-L120	120
DZM60A-L150	150
DZM60A-L180	180

电气参数

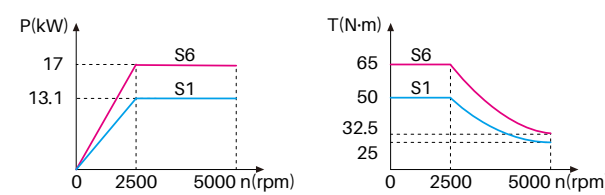
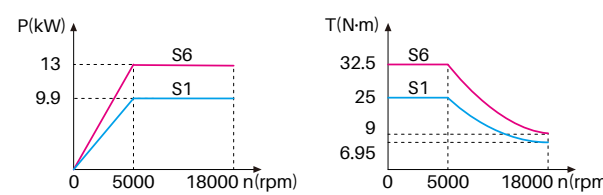
电机型号: DZM60A-L90				
额定功率 kW	额定电压 V	额定电流 A	额定扭矩 N·m	额定频率 Hz
6.5	330/350	14.9/14.8	25/12.5	88.1/169
最高频率 Hz	额定转速 rpm	最高转速 rpm	极数	功率因数
609.5	2500/5000	18000	4	0.88/0.79
励磁电感 mH	定子相电阻 $\Omega(20^{\circ}\text{C})$	定子漏感 mH	转子相电阻 $\Omega(20^{\circ}\text{C})$	转子漏感 mH
69.947	0.827	2.516	0.672	2.406
转动惯量 $\text{kg}\cdot\text{m}^2$	接法			
0.0065	Y/D			
功率扭矩特性曲线图				
The figure shows four graphs of power (P) and torque (T) versus speed (n) for the Y and D connection methods. The Y connection graphs show power and torque up to 5000 rpm, while the D connection graphs show power and torque up to 18000 rpm. The S6 curve represents the maximum power/torque, and the S1 curve represents the rated power/torque. The Y connection graphs show a peak power of 9 kW and a peak torque of 34 N·m, while the D connection graphs show a peak power of 9 kW and a peak torque of 17 N·m.				

◆ 电气参数

电机型号：DZM60A-L120				
额定功率 kW	额定电压 V	额定电流 A	额定扭矩 N·m	额定频率 Hz
9.9	330/350	22.7/23.5	38/19	87.2/168.7
最高频率 Hz	额定转速 rpm	最高转速 rpm	极数	功率因数
607	2500/5000	18000	4	0.87/0.75
励磁电感 mh	定子相电阻 $\Omega(20^{\circ}\text{C})$	定子漏感 mH	转子相电阻 $\Omega(20^{\circ}\text{C})$	转子漏感 mH
37.5	0.425	1.195	0.377	1.331
转动惯量 $\text{kg}\cdot\text{m}^2$	接法			
0.0082	Y/D			
功率扭矩特性曲线图				
The figure shows four graphs for the DZM60A-L120 motor. The first two graphs are for the Y connection (Y接), and the last two are for the D connection (D接). Each graph shows Power (P in kW) and Torque (T in N·m) versus speed (n in rpm). Two operating modes are shown: S6 (pink line) and S1 (blue line). For Y接: - Power graph: S6 reaches 13 kW at 2500 rpm and remains constant until 5000 rpm; S1 reaches 9.9 kW at 2500 rpm and remains constant until 5000 rpm. - Torque graph: S6 reaches 49.6 N·m at 2500 rpm and decreases to 34.8 N·m at 5000 rpm; S1 reaches 38 N·m at 2500 rpm and decreases to 19 N·m at 5000 rpm. For D接: - Power graph: S6 reaches 13 kW at 5000 rpm and remains constant until 18000 rpm; S1 reaches 9.9 kW at 5000 rpm and remains constant until 18000 rpm. - Torque graph: S6 reaches 34.8 N·m at 5000 rpm and decreases to 6.9 N·m at 18000 rpm; S1 reaches 19 N·m at 5000 rpm and decreases to 5.2 N·m at 18000 rpm.				

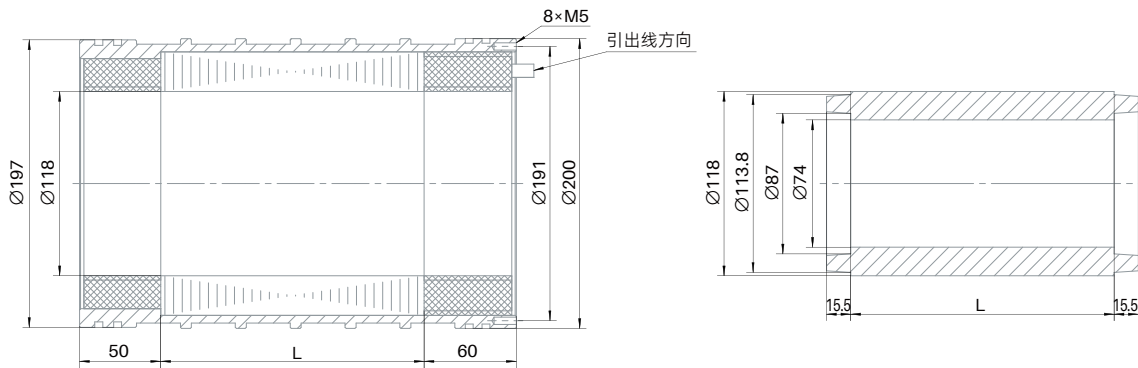
电机型号：DZM60A-L150				
额定功率 kW	额定电压 V	额定电流 A	额定扭矩 N·m	额定频率 Hz
11	350/350	23.4/23.7	42/21	88/169
最高频率 Hz	额定转速 rpm	最高转速 rpm	极数	功率因数
608.8	2500/5000	18000	4	0.87/0.82
励磁电感 mh	定子相电阻 $\Omega(20^{\circ}\text{C})$	定子漏感 mH	转子相电阻 $\Omega(20^{\circ}\text{C})$	转子漏感 mH
40	0.442	1.297	0.409	1.417
转动惯量 $\text{kg}\cdot\text{m}^2$	接法			
0.013	Y/D			
功率扭矩特性曲线图				
The figure shows four graphs for the DZM60A-L150 motor. The first two graphs are for the Y connection (Y接), and the last two are for the D connection (D接). Each graph shows Power (P in kW) and Torque (T in N·m) versus speed (n in rpm). Two operating modes are shown: S6 (pink line) and S1 (blue line). For Y接: - Power graph: S6 reaches 14.5 kW at 2500 rpm and remains constant until 5000 rpm; S1 reaches 11 kW at 2500 rpm and remains constant until 5000 rpm. - Torque graph: S6 reaches 55.4 N·m at 2500 rpm and decreases to 27.6 N·m at 5000 rpm; S1 reaches 42 N·m at 2500 rpm and decreases to 21 N·m at 5000 rpm. For D接: - Power graph: S6 reaches 14.5 kW at 5000 rpm and remains constant until 18000 rpm; S1 reaches 11 kW at 5000 rpm and remains constant until 18000 rpm. - Torque graph: S6 reaches 27.6 N·m at 5000 rpm and decreases to 7.7 N·m at 18000 rpm; S1 reaches 21 N·m at 5000 rpm and decreases to 5.8 N·m at 18000 rpm.				

◆ 电气参数

电机型号：DZM60A-L180				
额定功率 kW	额定电压 V	额定电流 A	额定扭矩 N·m	额定频率 Hz
13.1	380/380	25.2/25.4	50/25	87.4/169
最高频率 Hz	额定转速 rpm	最高转速 rpm	极数	功率因数
611.6	2500/5000	18000	4	0.87/0.82
励磁电感 mH	定子相电阻 $\Omega(20^{\circ}\text{C})$	定子漏感 mH	转子相电阻 $\Omega(20^{\circ}\text{C})$	转子漏感 mH
41.4	0.4	1.238	0.408	1.448
转动惯量 $\text{kg}\cdot\text{m}^2$	接法			
0.0102	Y/D			
功率扭矩特性曲线图				
Y接  D接 				

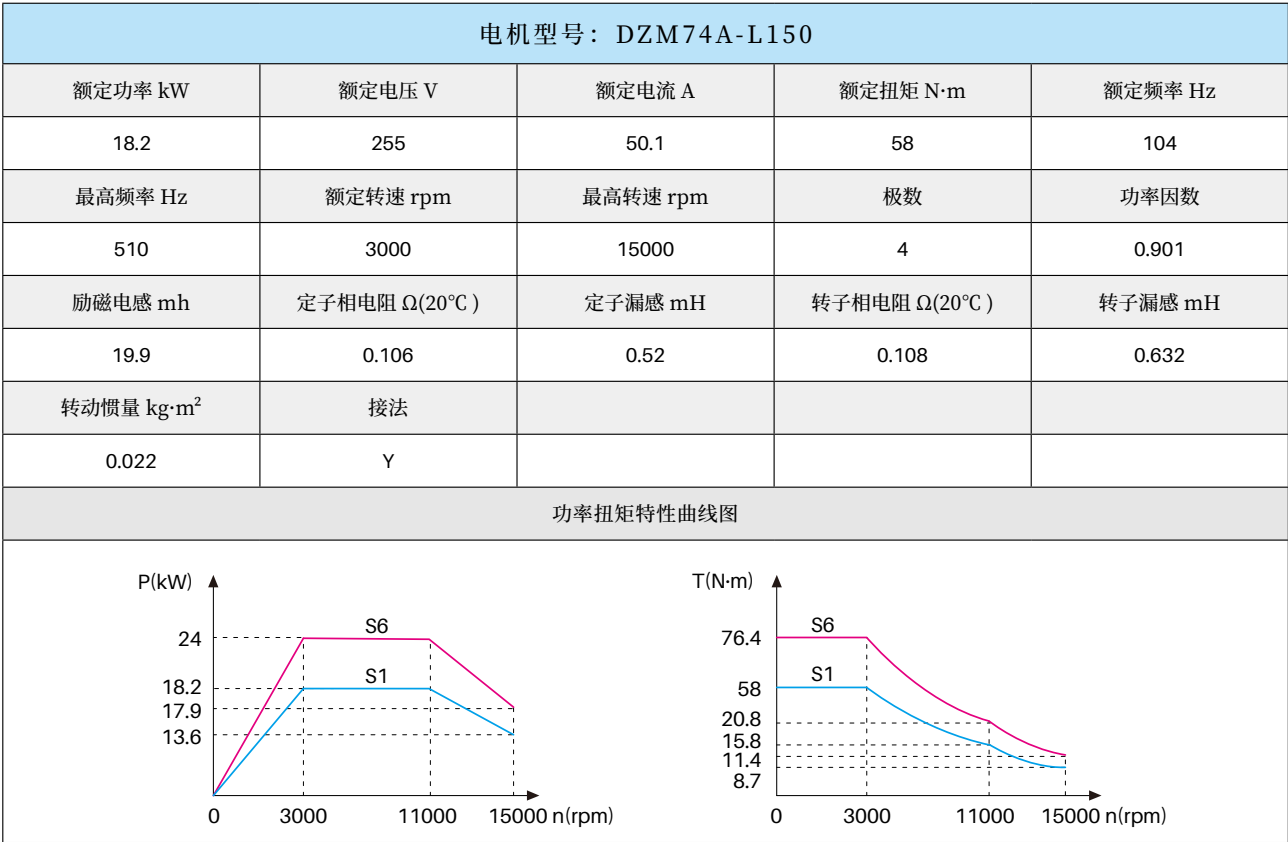
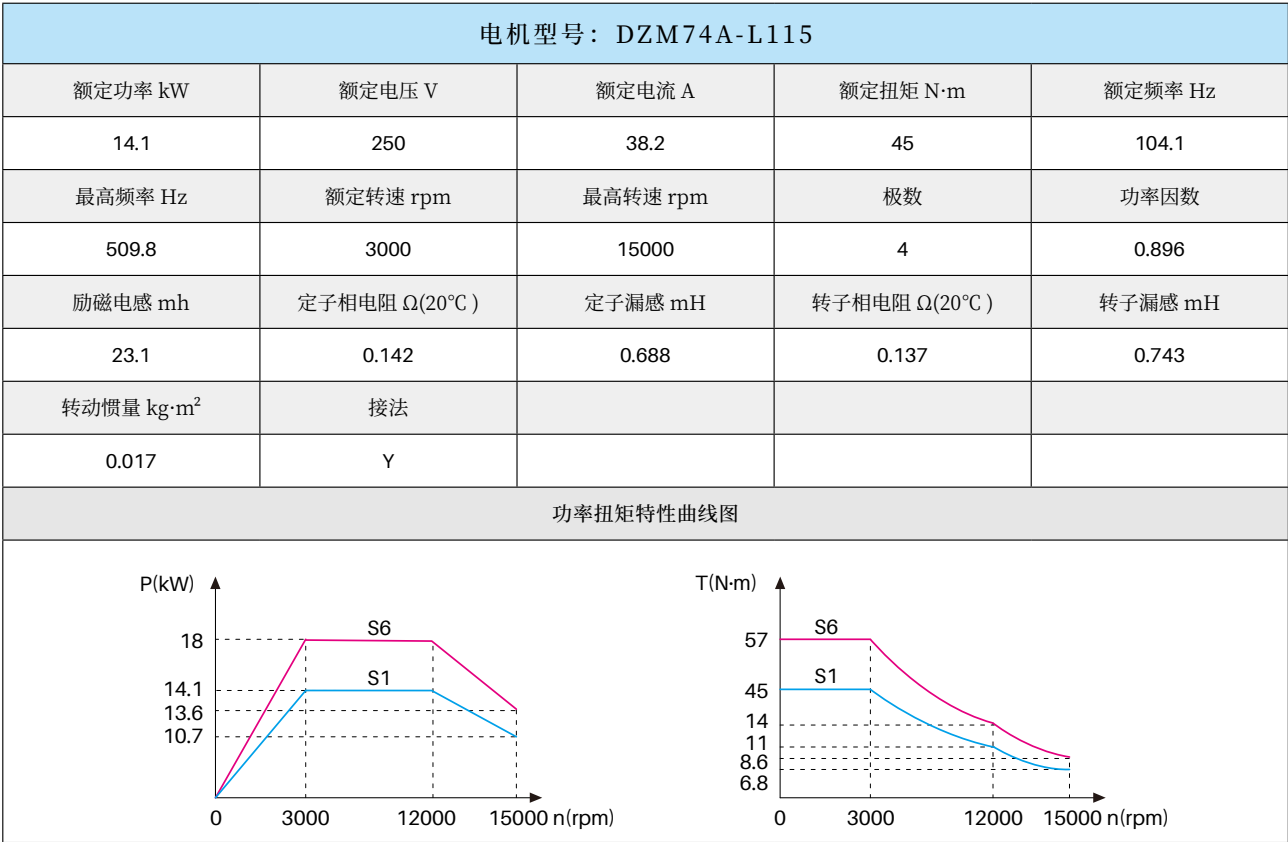
机座号：DZM74A

◆ 外形尺寸

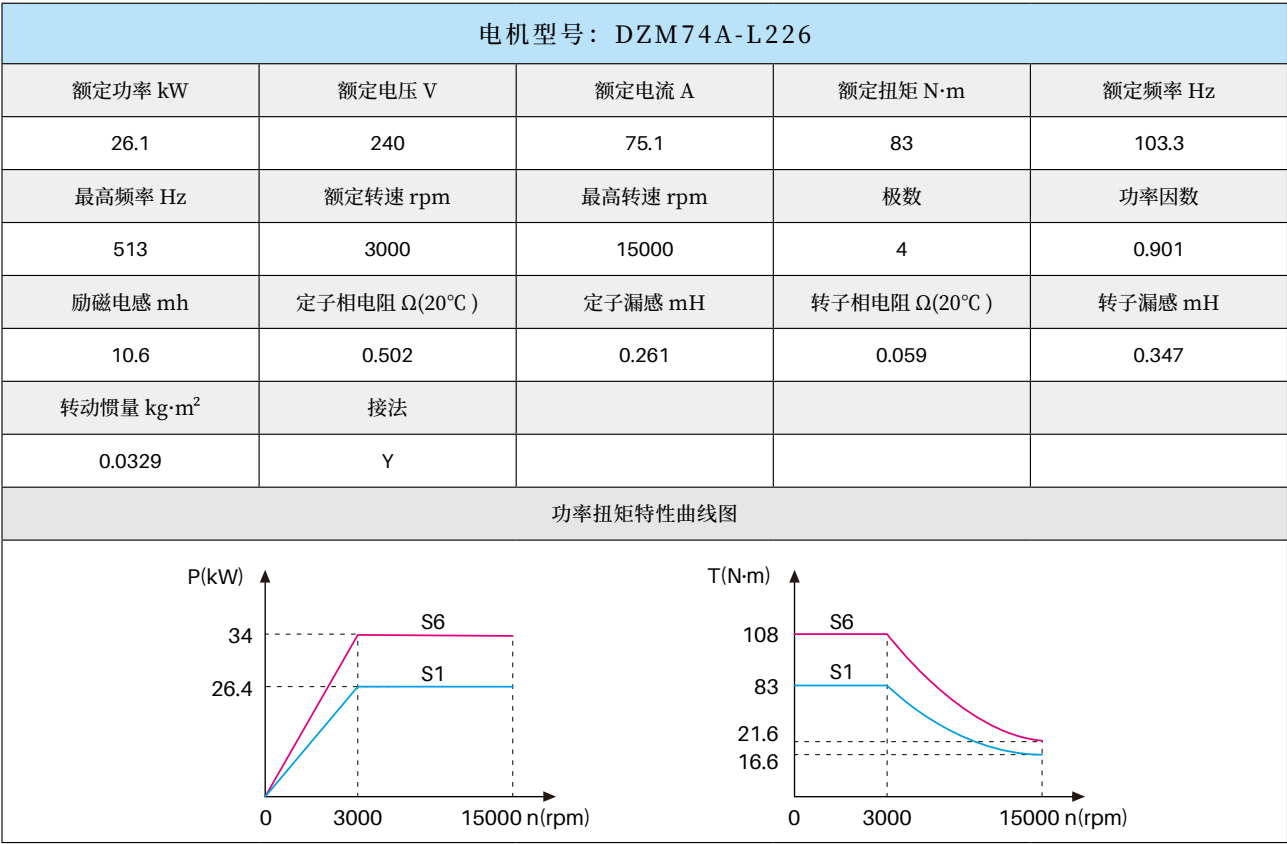
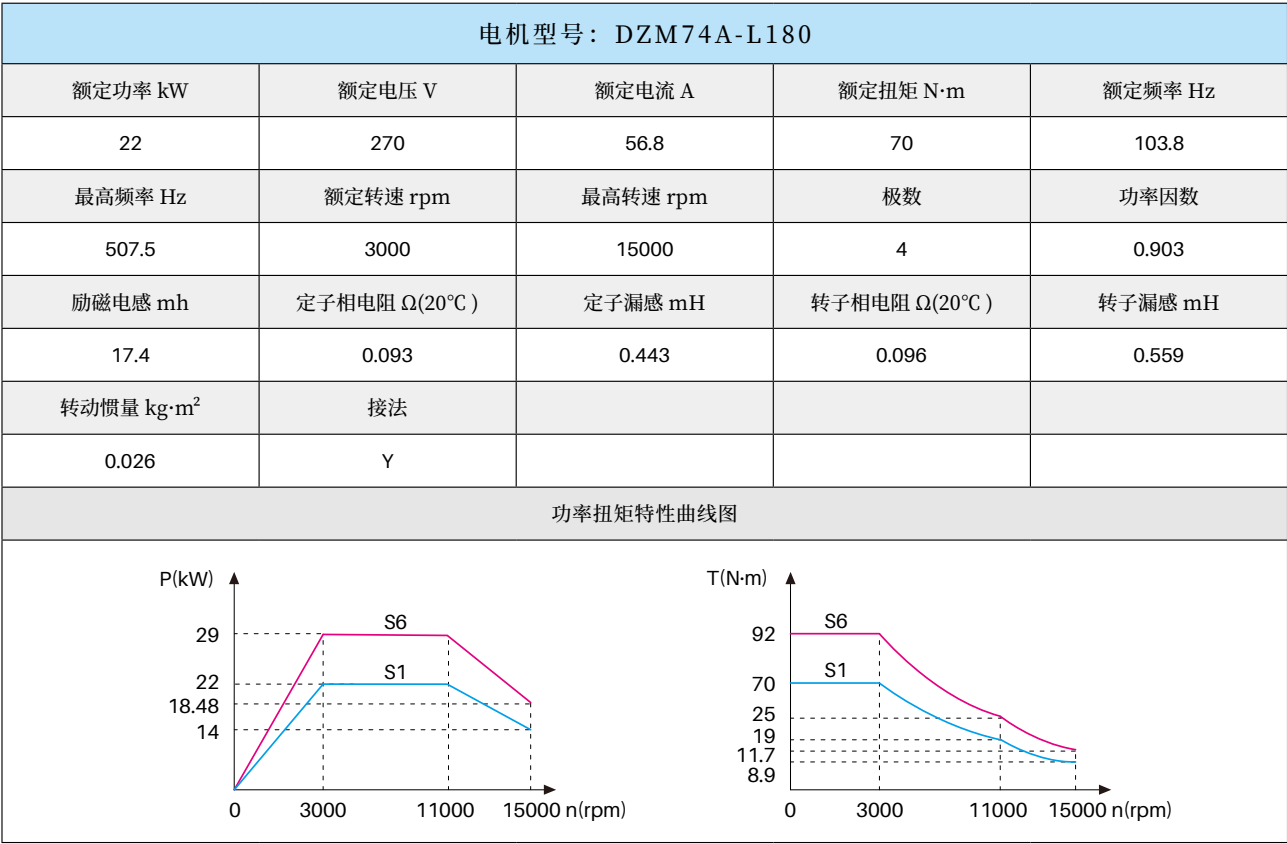


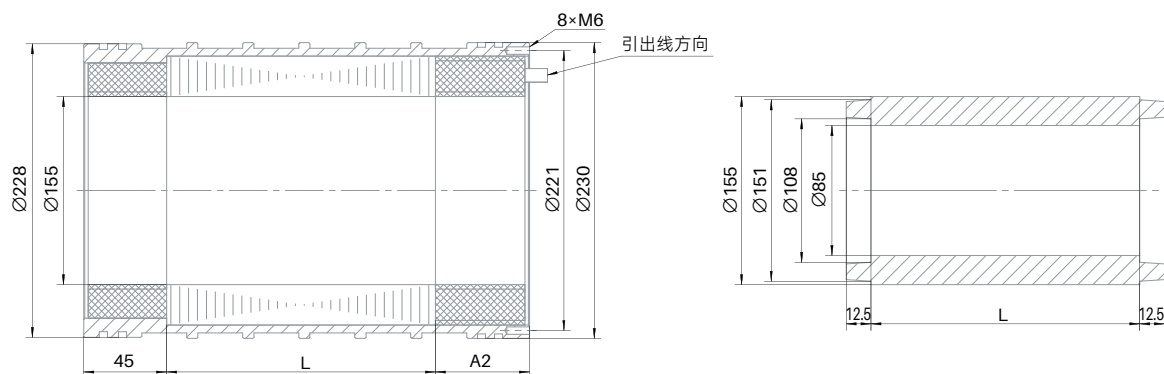
电机型号	L (mm)
DZM74A-L115	115
DZM74A-L150	150
DZM74A-L180	180
DZM74A-L226	226

◆ 电气参数

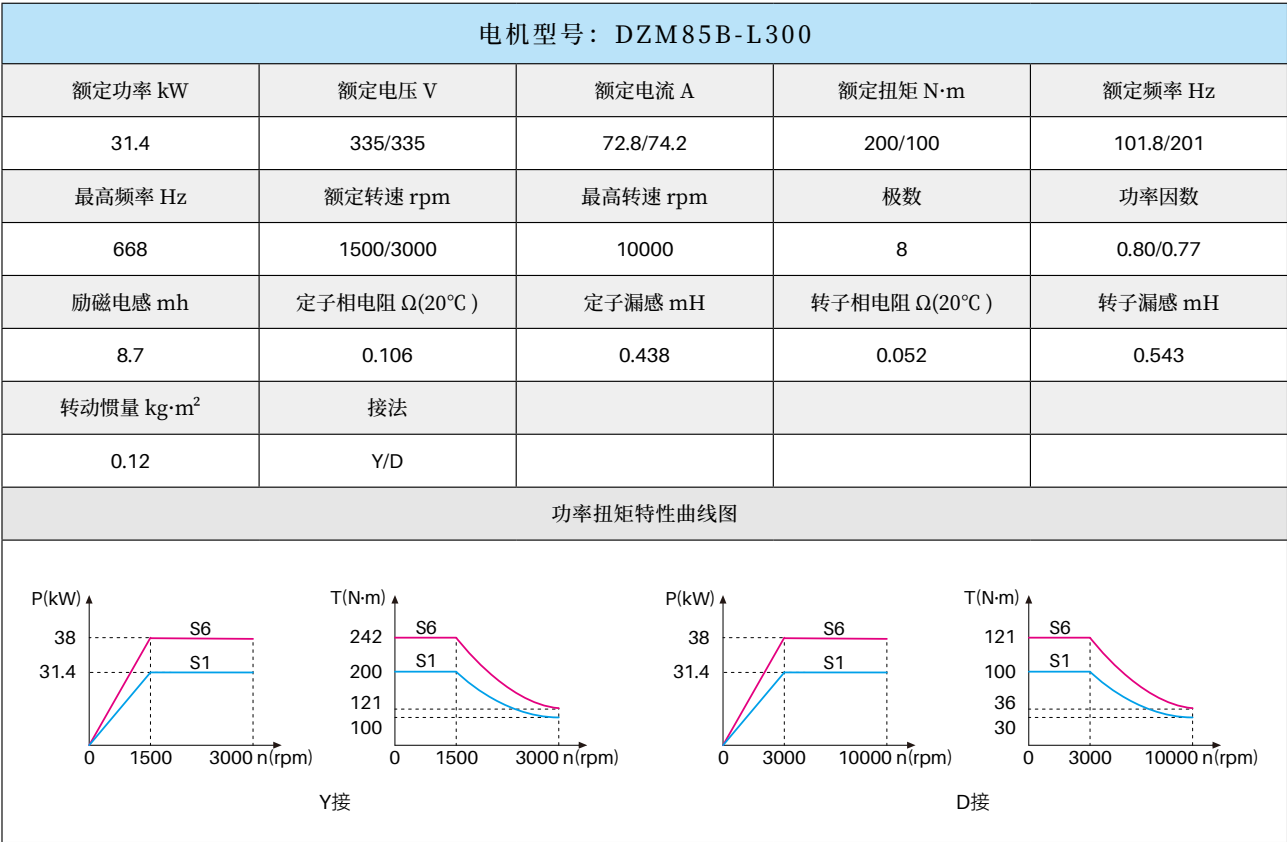
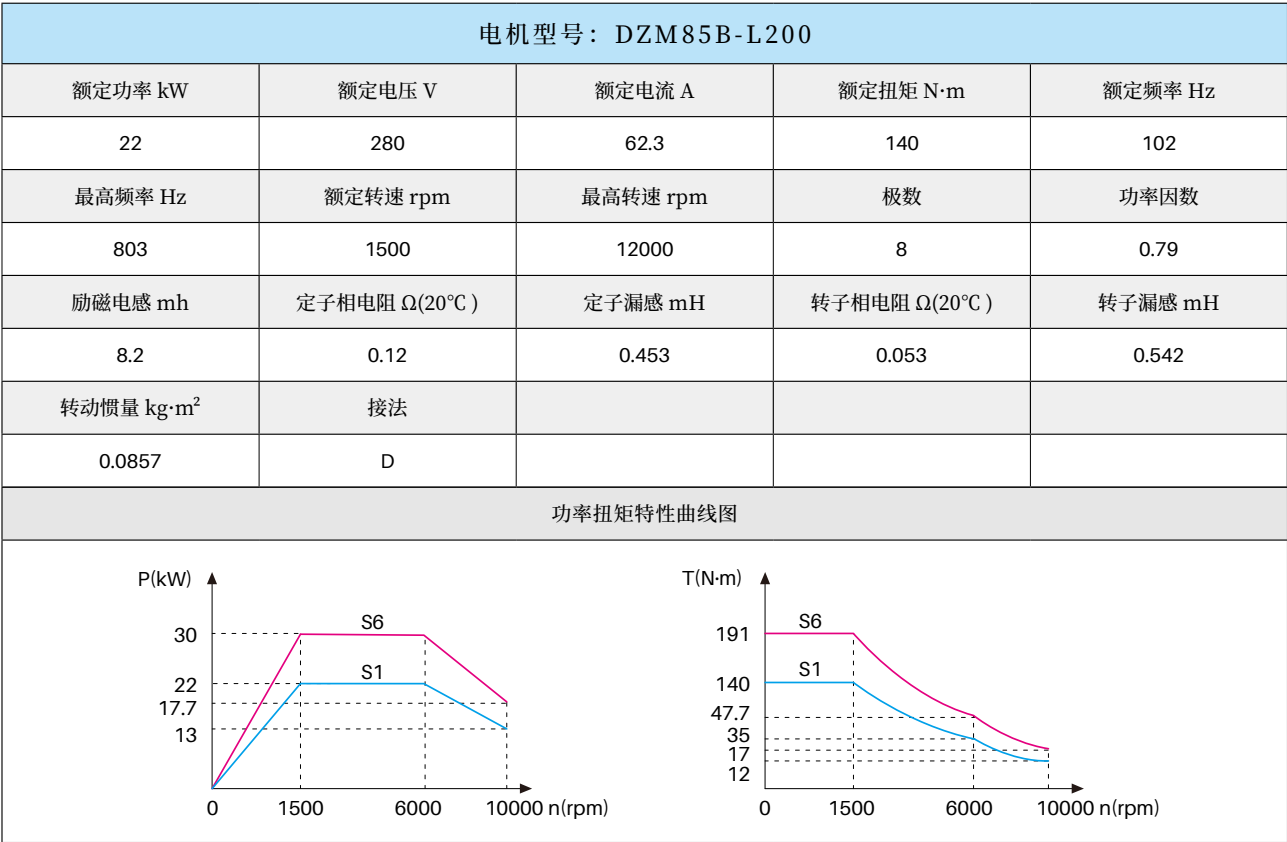


◆ 电气参数





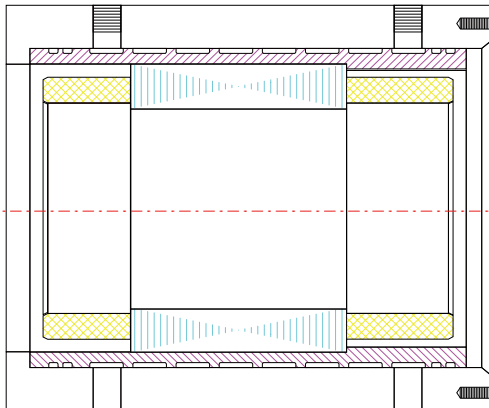
◆ 电气参数



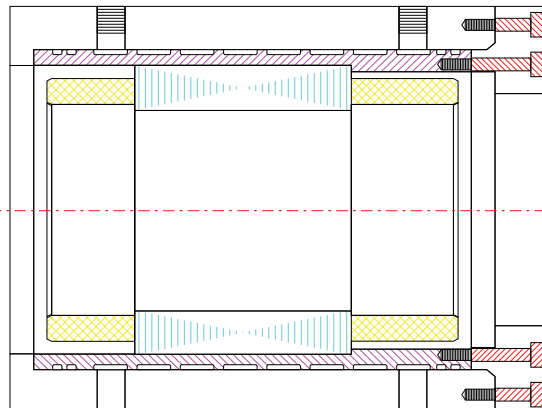
定转子安装固定方式

◆ 定子安装：定子安装可采用过盈配合和间隙配合两种方式。

过盈配合安装：



间隙配合安装：

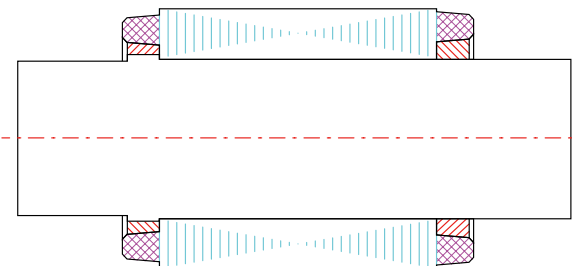


注 意：

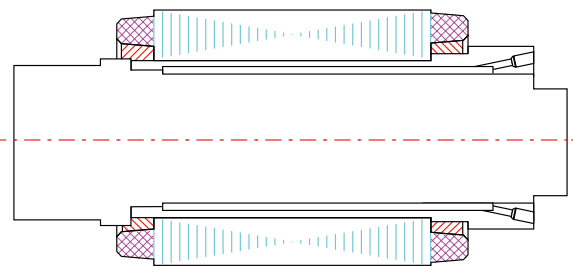
- 1、过盈配合、间隙配合安装方式，壳体内部需要做密封圈导向，防止密封圈切圈；
- 2、冷却液进出口应对应内装电机定子外部最左端和最右端两个环形槽，防止冷却不充分；
- 3、热装时应考虑密封圈材质，建议采用氟橡胶材质，防止密封圈高温老化。

◆ 转子安装：常用转子安装方式有热装、油压拆卸、胀套安装方式等。

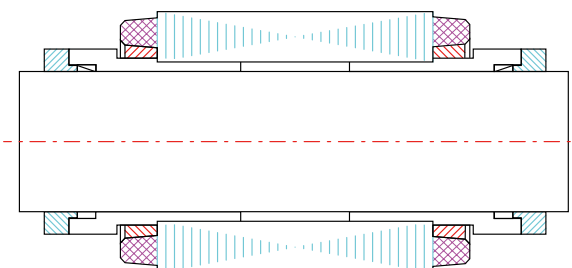
转子热装：



转子油压拆卸：

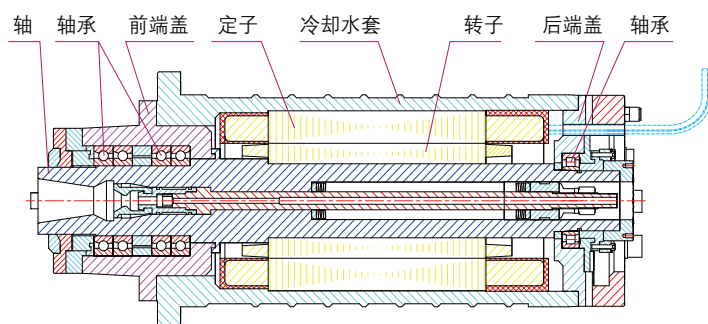


胀套安装：



设计方案

◆ 加工中心电主轴

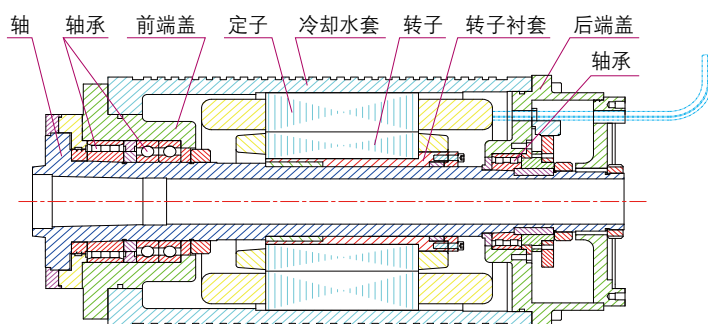


适应范围：数控铣床、加工中心、数控镗床

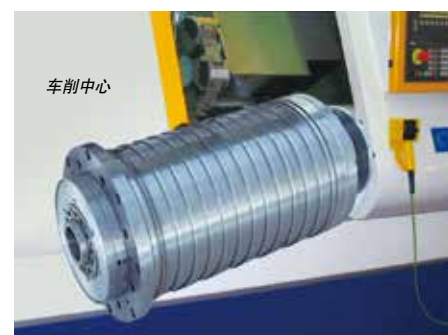
适用刀柄：BT(CT)系列、莫式系列、ISO系列、BIN系列、ER系列



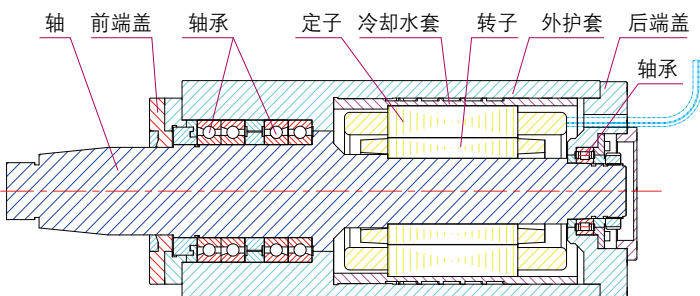
◆ 数控车床电主轴



适应范围：仪表车床、排刀车床、数控车床 (平床身、斜床身)



◆ 磨床电主轴



适应范围：内圆磨床、外圆磨床、平面磨床



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车床电主轴



铣床电主轴

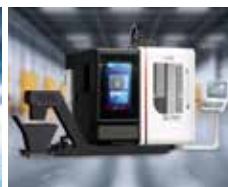


磨床电主轴

专业的机电一体化产品制造商



车铣复合机床



五轴加工中心



五轴工具磨床

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