

150系列伺服电机参数表 150mm servo motors specifications



规格 Specifications

电机型号 Motor model	150ST-M15025	150ST-M15020	150ST-M18020	150ST-M23020	150ST-M27020											
额定功率 Rated power(KW)	3.8	3.0	3.6	4.7	5.5											
额定线电压 Rated voltage(V)	220	220	220	220	220											
额定线电流 Rated current(A)	17	14	17	21	24											
额定转速 Rated speed(rpm)	2500	2000	2000	2000	2000											
额定力矩 Holding torque(N.m)	15	15	18	23	27											
峰值力矩 Peak torque(N.m)	30	30	36	46	54											
反电势 Voltage constant(V/1000r/min)	59	70	71	72	64											
力矩系数 Torque coefficient(N.m/A)	0.88	1.07	1.05	1.09	1.1											
转子惯量 Rotor inertia(Kg.m ²)	3.88×10 ⁻³	3.88×10 ⁻³	4.6×10 ⁻³	5.8×10 ⁻³	6.8×10 ⁻³											
绕组(线间)电阻 Line-Line Resistance(Ω)	0.23	0.34	0.255	0.2	0.125											
绕组(线间)电感 Line-Line Inductance(mH)	1.08	1.55	1.3	1.06	0.7											
电气时间常数 Mechanical time-constant(Ms)	4.7	4.56	5.1	5.3	5.6											
重量 Weight(Kg)	15	15	17	20.4	22.7											
编码器线数 Encoder line number(PPR)	2500															
电机绝缘等级 Insulation class	Class F															
防护等级 Safety class	IP65															
使用环境 The operating of Environmental Conditions	环境温度: -20℃ ~ +40℃ 环境湿度: 相对湿度<90% (不结霜条件) Temperature: -20℃~+40℃ Humidity Below 90%RH No dewing															
电机绕组插座 Motor winding plus	绕组引线 Winding lead wire	U		V		W		PE								
	插座编号 Plug serial number	2		3		4		1								
光电脉冲编码器插座(15芯) Photoelectric encoder socket (15 pin)	信号引线 Signal lead wire	5V	0V	A+	B+	Z+	A-	B-	Z-	U+	V+	W+	U-	V-	W-	PE
	插座编号 Plug serial number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1
绝对值编码器插座(7芯) Absolute encoder socket (7 pin)	信号引线 Signal lead wire	E-		E+		SD-		0V		SD+		+5V		PE		
	插座编号 Plug serial number	2		3		4		5		6		7		1		

其它要求请联系我们的技术部

Other special requirements please contact the Technology to negotiate

⊙ **安装注意 Installation precaution:**

- 1、安装/拆卸部位到电机轴末端时，请不要用力敲打轴，以防止敲坏轴另一端的编码器。
- 2、尽量防止轴座振动，以防止轴承的损坏。
 1. Installation/disassembly components coupled to the motor shaft end, do not hit shaft hard to prevent the other side of motor shaft encoder was knocked out bad.
 2. Striving to make the best of its shaft to prevent vibration and bearing damage.

⊙ **安装尺寸 Installation Dimension: unit=mm**

电机型号 Motor model	150系列(series)				
额定转矩(N.m) Rated torque(N.m)	15		18	23	27
	2500rpm	2000rpm			
L 不带抱闸 Without brake	230	230	248	278	302
L 带电磁抱闸 With Electromagnetic brake	303	303	321	351	375

