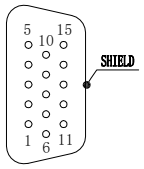
角号 PIN	定义 FUNCTION	颜色 COLOR	线径 WIRE GAGE
1	U相 MOTOR U	黄 YELLOW	12AWG
2	V相 MOTOR V	红 RED	
3	W相 MOTOR W	黑 BLACK	
4	PE相 MOTOR PE⏚	黄绿 YELLOW/GREEN	14AWG
5	NC	NC	

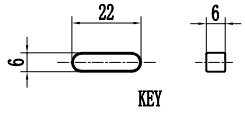
动力线 Power Wire

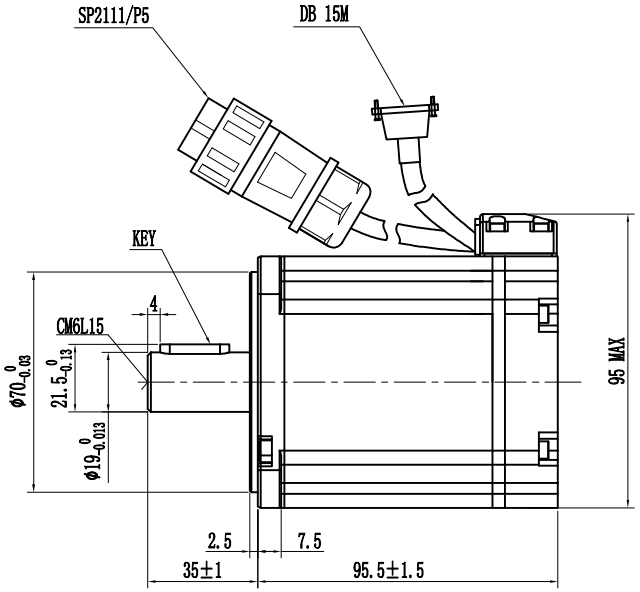
角号 PIN	定义 FUNCTION	颜色 COLOR	线径 WIRE GAGE	角号 PIN	定义 FUNCTION	颜色 COLOR	线径 WIRE GAGE
1	DC +5V	红 RED	28AWG	9	W	白 WHITE	28AWG
2	GND	黑 BLACK		10	V	灰 GRAY	
3	NC	NC		11	/Z	黄黑 YELLOW/BLACK	
4	U	棕 BROWN		12	/B	绿黑 GREEN/BLACK	
5	/U	棕黑 BROWN/BLACK		13	/A	蓝黑 BLUE/BLACK	
6	Z	黄 YELLOW		14	/W	白黑 WHITE/BLACK	
7	B	绿 GREEN		15	/V	灰黑 GRAY/BLACK	
8	A	蓝 BLUE					

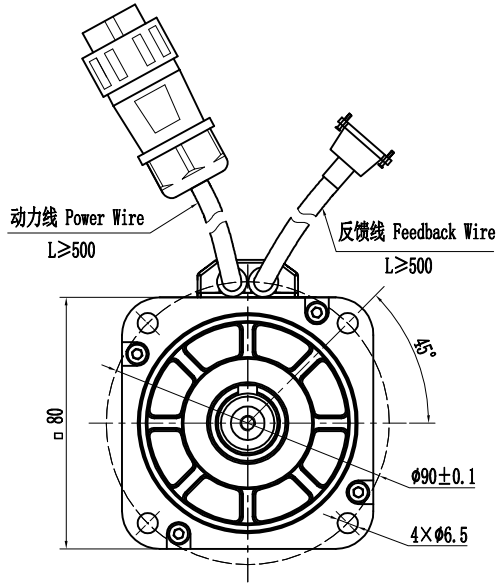


DB 15M

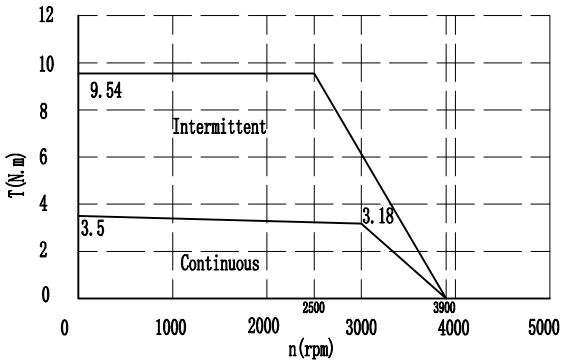
反馈线 Feedback Wire







Performance Curve



技术参数 Technical Data

极数 No. of poles	10
直流母线电压 DC Link Voltage U_{DC}(V)	48
额定功率 Rated Power P_N(W)	1000
额定转矩 Rated Torque T_N(N.m)	3.18
额定转速 Rated Speed n_N(rpm)	3000
额定电流 Rated Current I_N(A)	26.4
最大电流 Maximum Current I_m(A)	88
最大转矩 Maximum torque T_m(N.m)	9.54
连续静态转矩 Standstill torque T_S(N.m)	3.5
连续静态电流 Standstill current I_S(A)	29
线电阻 Resistance line-line R_L(Ω)	0.052 (20℃)
线电感 Inductance line-line L_L(mH)	0.215
电气时间常数 Electrical time constant τ_e(ms)	4.13
机械时间常数 Mechanical time constant τ_m(ms)	0.56
反电势常数 Voltage constant K_e(V/krpm)	7.8
转矩常数 Torque constant K_t(Nm/A)	0.13
转动惯量 Rotor moment of inertia Jm ($Kg.cm^2$)	1.027
最大径向力 Max. radial force Fr(N)	335
最大轴向力 Max. axial force Fa(N)	167.5
反馈装置 Feed back device	Incremental 2500ppr Magnetic Encoder
绝缘等级 Insulation class	F
防护等级 Protection level	IP54
重量 Weight (Kg)	2.2

VER	DESCRIPTION OF CHANGE

VER	ECN NO.	DRN	APP'D	DATE

FINAL TOLERANCE REFERENCE
GB/T 1804-m Unit:mm
LINER

≤6	±0.1	>6~30	±0.2
>30~120	±0.3	>120~400	±0.5

MATERIAL

FIRST ANGLE PROJECTION

DESIGN	YL	22-03-31
CHECK	LS	22-03-31
APPROVE	SL	22-03-31

SHEET 1 OF 1

P/NO.	9.7393SS
TITLE	Outside Drawing
USED ON	SMC80S-0100-30WAK-5DCH
SCALE:	VER: V1.0

Kinco

B