

□ 70mm

直流无刷(伺服)电机

■ 通用规格General Specifications

Winding Type..... Star
 Temperature Rise..... 120°C electrical angle
 Insulation Class..... B
 Ambient Temperature Range..... -20°C~+50°C
 Insulation Resistance..... 100MΩ Min.500VC DC
 Dielectric Strength..... 700V AC 1 minute



■ 电机参数Electrical Specifications:

型号Model	70BF86-30L48	70BF116-30L48	70BF116-30H310	70BF146-30H310
极数Number of Poles	8	8	8	8
相数Number of Phases	3	3	3	3
额定电压Nominal voltage VDC	48	48	310	310
额定转速Rated speed RPM	3000	3000	3000	3000
额定扭矩Rated Torque N.m	0.5	1.0	1.0	1.5
额定电流Rated Current Amps	4.4	8.7	1.4	2.1
输出功率Output Power Watts	157	313	313	470
峰值扭矩Peak Torque N.m	1.5	3.0	3.0	4.5
峰值电流Peak Current Amps	13.2	26	4.2	6.3
力矩常数Torque constant N.m/A	0.12	0.12	0.72	0.72
反电势常数BackEMF V/kRPM	8.4	8.4	55	55
转动惯量Rotor inertia g · cm ² □	0.38	0.76	0.76	1.14
电机长度Body Length (L) mm	86	116	116	146
重量Mass kg	1.3	2.1	2.1	2.8
编码器Encoder	1000P/R(2500P/R可选)			

警戒：峰值力矩仅作为参数参考,接近或在此条件下长期使用,将导致电机损坏。

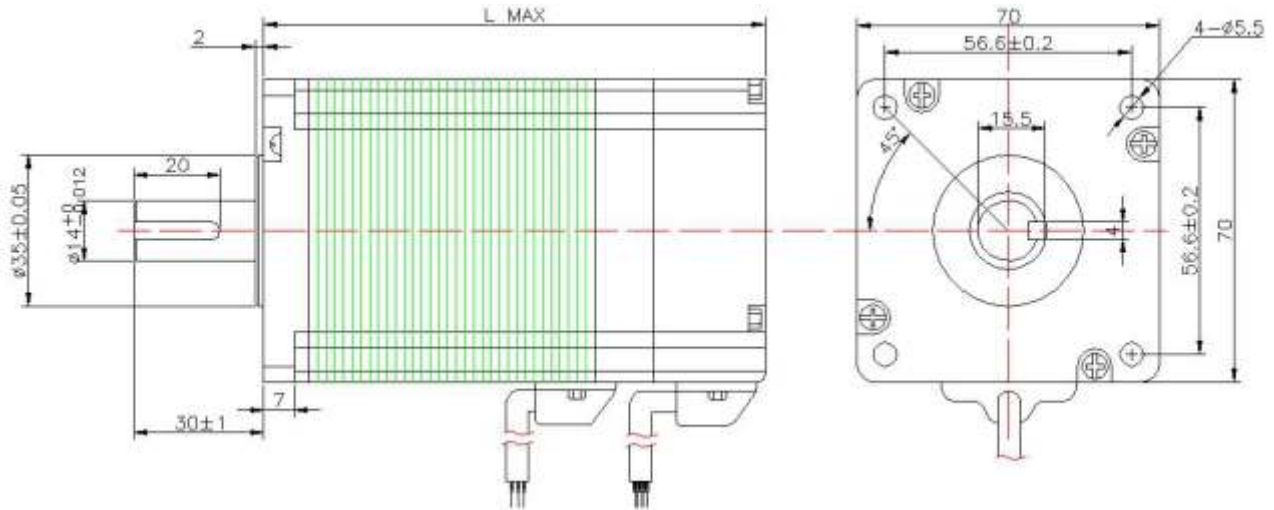
Caution: Peak (Stall) Torque is provided for the purpose of performance calculations only. Operate near, or at, a stalled condition will result in motor damaged.

注意：以上仅为代表产品,电压，功率、转速可根据客户要求制作。

Note: We can also manufacture products according to customer's requirements.

■ 外形图纸 Mechanical Dimensions

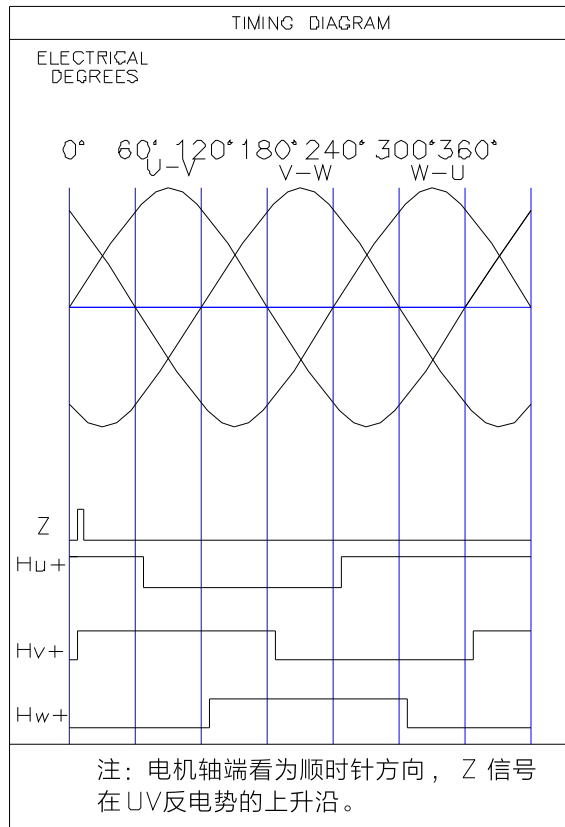
Unit: mm



■ 电机接线顺序 Motor Wiring Sequence

	编码器接线								霍尔接线					电机接线		
序号	1	2	3	4	5	6	7	8	1	2	3	4	5	1	2	3
颜色	红	黑	蓝	蓝白	绿	绿白	黄	黄白	红	黑	黄	绿	蓝	黄	绿	蓝
相序	+5V	GND	A+	A-	B+	B-	Z+	Z-	+5V	GND	HU	HV	HW	U	V	W

反电势相序图 EMF Phase Sequence Diagram



编码器技术规格 Encoder Technical Specifications

