

(带霍尔传感器)  
(With hall sensors)

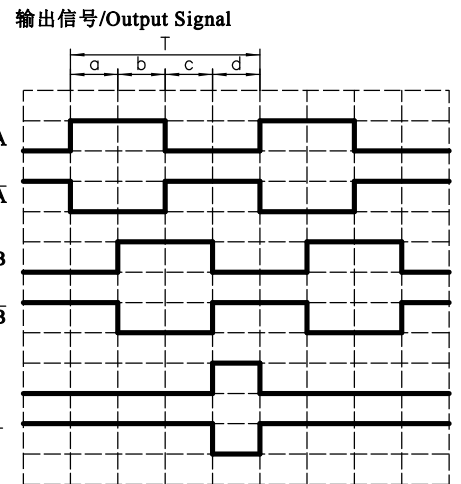
Connection of Motor

Cable No.	信号/Signal	颜色/Color
1	U	棕/brown
2	V	红/red
3	W	橙/orange
4	V <sub>Hall3</sub> ...24 VDC	黄/yellow
5	GND	绿/green
6	Hall 1	蓝/blue
7	Hall 2	紫/voilet
8	Hall 3	灰/grey

规格/Specifications	Values	Tolerance	Unit
额定电压/Nominal voltage	24	Typical	V
级数/Number of stages (gearhead)	2		
减速比/Reduction ratio (gearhead)	20.95		
空载转速/No load speed	726	±10%	rpm
空载电流/No load current	130	±50%	mA
名义转速/Nominal speed	605	Typical	rpm
最大连续转矩/Max.continuous torque (motor output limit)	168	Typical	mNm
最大连续电流/Max.continuous current (motor output limit)	0.76	Typical	A
额定转速/Rated speed	590	±10%	rpm
额定转矩/Rated torque	126	Typical	mNm
额定电流/Rated current	0.475	±10%	A
最大效率/Maximun efficiency	68.8	Typical	%
堵转转矩/Stall torque	1.05	Typical	Nm
堵转电流/Stall current	3.81	Typical	A
电机极数/Number of poles	2		
相数/ Number of phases	3		
相间电阻/Terminal resistance phase to phase	6.30	±8%	Ω
相间电感/Terminal inductance phase to phase	410	Typical	μH
转矩常数/Torque constant	15.4	Typical	mNm/A
转速常数/Speed constant	620	±10%	rpm/V
质量/Weight	80	±5%	g
环境温度范围/Ambient Temperature	-40~+100		℃
绝缘等级/Insulation class	F		
类型/Type (Encoder)	Incremental,Magnetic		
每转脉冲数/Counts per turns(Encoder)	1024	Typical	

Connection of Encoder

Pin No.	信号/Signal
1	N.C
2	VCC 4.5V-5.5V
3	GND
4	N.C.
5	Channel A
6	Channel A
7	Channel B
8	Channel B
9	Channel I
10	Channel I



Direction of rotation: CW (view form shaft end);  
a,b,c,d=90°±45°;  
Index is aligned with angle commutation zero

铭牌1/Label 1 Detail

**MOONS' EC MOTOR**

Motor Type ECU16036H24-S108

Encoder Type M16-1024

Work order XXXXXXXX XXXX

铭牌2/Label 2 Detail

**MOONS' PG GEARBOX**

Gearbox Type PG16M-0021-S01

Work order XXXXXXXX XXXX

备注:1.铭牌用激光标刻在电机机壳表面, 目视水平居中;  
2.二维码内含电机与编码器型号、生产工单号和序列号。

备注:1.铭牌用激光标刻在齿轮箱表面, 目视水平居中;  
2.二维码内含齿轮箱型号、生产工单号和序列号。

G		
F		
E		
D		
C		
B		
A	原始版本 Original revision	2020.08.25
REV.	版本记录 REVISION RECORD	DATE

Unit: mm  
第一角画法  
FIRST ANGLE METHOD

未注线性与角度尺寸公差  
Tolerances for linear and angular dimensions without individual tolerance indications  
GB/T 1804-m eqv ISO 2768-1:m

未注形状与位置尺寸公差  
Geometrical tolerance for features without individual tolerance indications  
GB/T 1184-K eqv ISO 2768-2:K

批准 Approve		
标准化 Standard		
工艺 Technology		
审核 Check		
设计 Design	林初夏	2020.08.25
NAMES	SIGNATURE	DATE

**MOONS'** Slotless Brushless DC Motor

**Shanghai Moons' Electric Co., Ltd.**

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Type: ECU16036H24-S108+M16-1024 +PG16M-0021-S01

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