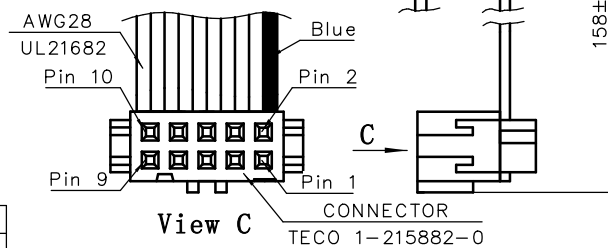


(带霍尔传感器)  
(With hall sensors)

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

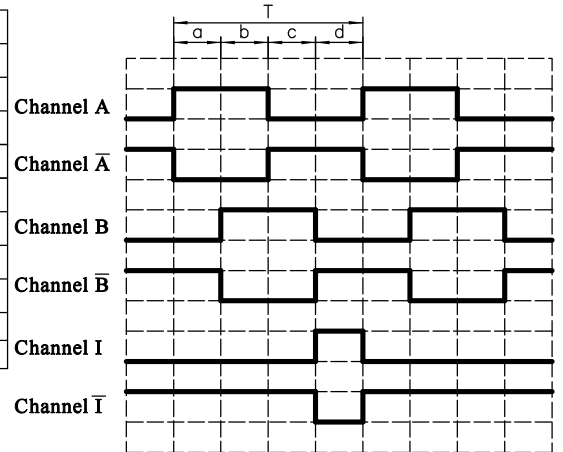


规格/Specifications	Values	Tolerance	Unit
额定电压/Nominal voltage	12	Typical	V
级数/Number of stages (gearhead)	3		
减速比/Reduction ratio (gearhead)	171.95		
空载转速/No load speed	87.2	±10%	rpm
空载电流/No load current	200	±50%	mA
额定转速/Rated speed	76	Typical	rpm
额定转矩/Rated torque	520	Typical	mNm
额定电流/Rated current	0.525	Typical	A
堵转转矩/Stall torque	7.70	Typical	Nm
堵转电流/Stall current	7.27	Typical	A
最大效率/Maximun efficiency	64.8	Typical	%
电机极数/Number of poles	2		
相数/ Number of phases	3		
相间电阻/Terminal resistance phase to phase	1.65	±8%	Ω
相间电感/Terminal inductance phase to phase	102	Typical	μH
转矩常数/Torque constant	7.70	Typical	mNm/A
转速常数/Speed constant	1240	±10%	rpm/V
质量/Weight	76	±5%	g
环境温度范围/Ambient Temperature	-40~+85		℃
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

输出信号/Output Signal



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

铭牌/Label Detail

**MOONS'**

Motor No. ECU16036H12-S108

Encoder No. M16-1024

Gearbox No. PG16M-0172

Work order - Serial No. XXXXXXXX YYYY

备注: 1. 铭牌使用激光雕刻在电机表面, 目视水平居中, 框线不打印;  
2. 二维码内包括整机型号、生产工单号和序列号;

REV.	版本记录 REVISION RECORD	DATE
A2	EC号: 21-1166 修改3处	2021.07.15
A1	EC号: 21-1012 修改9处	2021.06.03
A0	原始版本 Original revision	2021.04.22

Unit: mm	批准 Approve	标准化 Standard	工艺 Technology	审核 Check	设计 Design	邵艺峰	2021.07.15
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							
UNLESS OTHERWISE SPECIFIED	NAMES	SIGNATURE	DATE				

**MOONS'** Slotless Brushless DC Motor

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

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Type: ECU16036H12-S108+M16-1024+PG16M-0172

Rev. A2    SCALE 2:1    SHEET 1 OF 1