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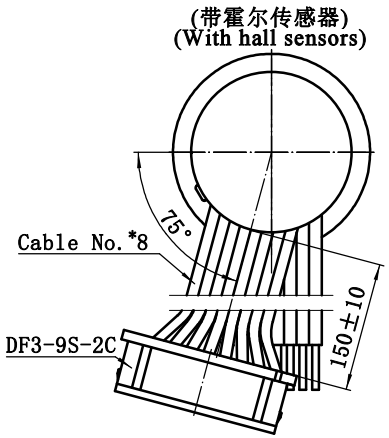

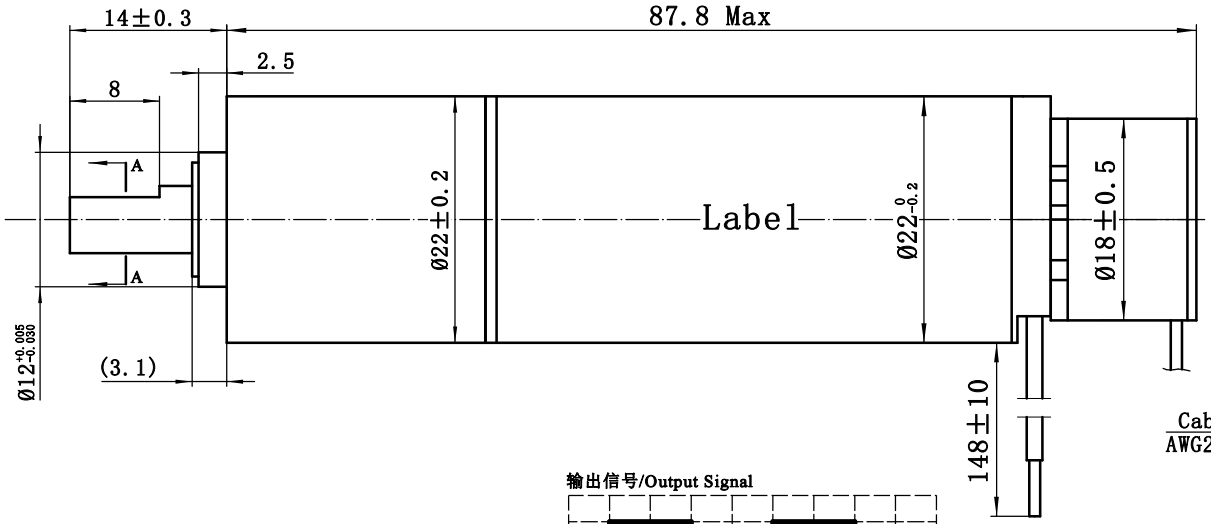

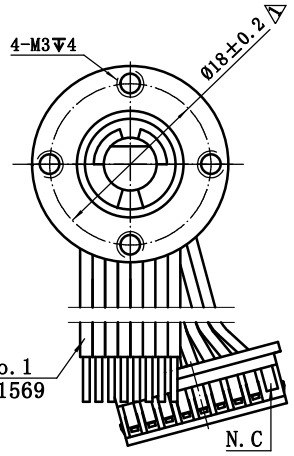

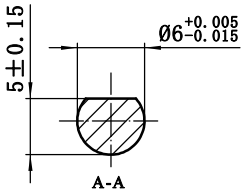

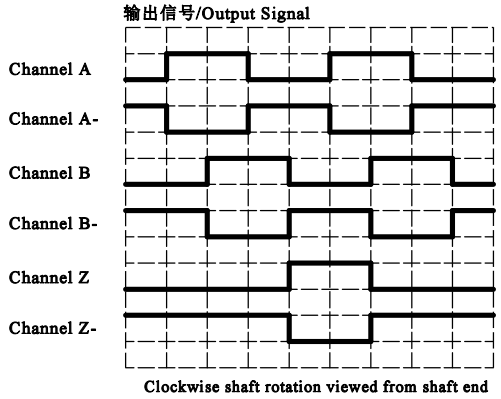

规格/Specifications	Values	Tolerance	Unit
额定电压/Nominal voltage	24	Typical	V
级数/Number of stages(gearhead)	2		
减速比/Reduction ratio(gearhead)	16		
空载转速/No load speed	1200	±10%	rpm
空载电流/No load current	330	±50%	mA
名义转速/Nominal speed	1082	Typical	rpm
最大连续力矩/Max. continuous torque(motor thermal limit)	364	Typical	mNm
最大连续电流/Max. continuous current(motor thermal limit)	2.94	Typical	A
额定转速/rated speed	988	±10%	rpm
额定转矩/rated torque	241.47	Typical	mNm
额定电流/rated current	1.67	±10%	mA
最大效率/Maximun efficiency	60	Typical	%
堵转转矩/Stall torqe	3.54	Typical	Nm
堵转电流/Stall current	25.53	Typical	A
相间电阻/Terminal resistance phase to phase@20℃	0.94	±8%	Ω
相间电感/Terminal inductance phase to phase	104	Typical	μH
转矩常数/Torque constant	12.4	Typical	mNm/A
转速常数/Speed constant	770	±10%	rpm/V
质量/Weight	176	±5%	g
类型/Type（encoder）	Incremental,Optical		
每转脉冲数/Counts per turns(encoder)	1000	Typical	
环境温度/Ambient temperature	-10～+65		℃
绝缘等级/Insulation class	F		

Connection of Motor

Cable No.	信号/Signal	颜色/Color
1	电机绕组1/Motor winding 1	棕/brown
2	电机绕组2/Motor winding 2	红/red
3	电机绕组3/Motor winding 3	橙/orange
4	V_{Hall} 3...24VDC	黄/yellow
5	GND	绿/green
6	霍尔传感器1/Hall IC 1	蓝/blue
7	霍尔传感器2/Hall IC 2	紫/violet
8	霍尔传感器3/Hall IC 3	灰/grey

Connection of Encoder（Cable AWG 26）

Cable No.	信号/Signal	颜色/Color	Pin No.
*1	+5V DC	棕/brown	*1
*2	GND	红/red	*2
*3	Channel A	橙/orange	*3
*4	Channel A-	黄/yellow	*4
*5	Channel B	绿/green	*5
*6	Channel B-	蓝/blue	*6
*7	Channel Z	紫/violet	*7
*8	Channel Z-	灰/grey	*8

铭牌/Label Detail ②

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：21-1145　修改：2处 ②	2021.06.05
A1	齿轮箱的安装孔由Ø14.4±0.2更改为Ø18±0.2等 ①	2021.03.08
A0	原始版本 Original revision	2021.02.22

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

UNLESS OTHERWISE SPECIFIED

	NAMES	SIGNATURE	DATE
批准 Approve			
标准化 Standard			
工艺 Technology			
审核 Check			
设计 Design	陈春辉		2021.06.05

MOONS' Slotless Brushless DC Motor

Shanghai Moons' Electric Co., Ltd.

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Type: ECU22048H24-S108+N18-1000 +PG22C-0016 | Rev. A2 | SCALE 2:1 | SHEET 1 OF 1