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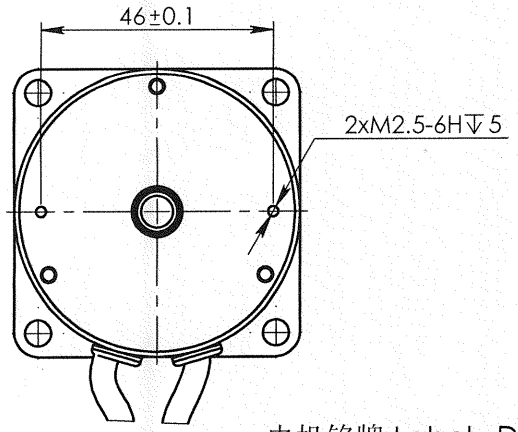

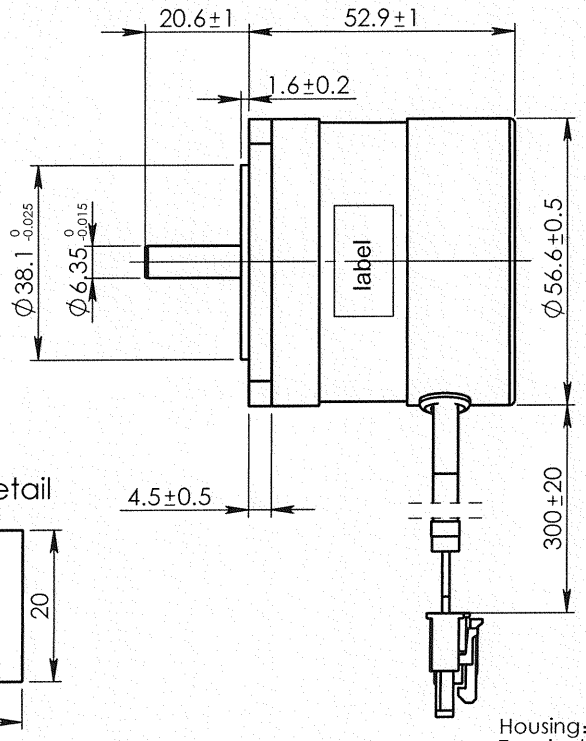

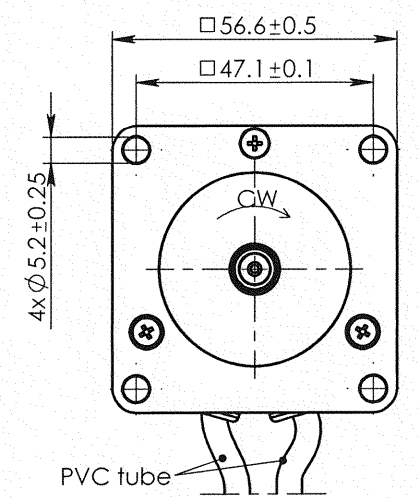

P向
MOLEX
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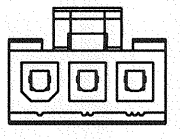
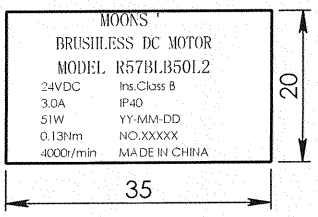
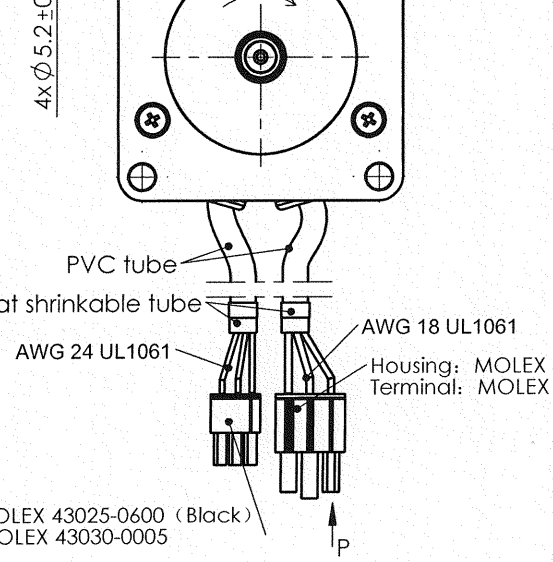


1 2 3
BLU ORN YEL

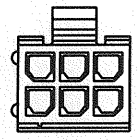
编号 NO.	线色 COLOR	定义 FUNCTION
1	蓝/blue	W
2	橙/orange	U
3	黄/yellow	V

电机铭牌 Label Detail





P向
MOLEX
43025-0600
BLU BLK ORN
4 5 6



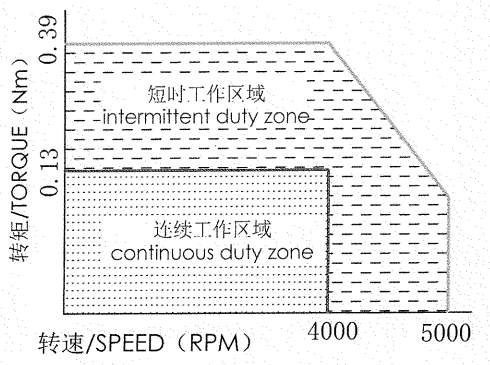
1 3
RED YEL

编号 NO.	线色 COLOR	定义 FUNCTION
1	红/red	VCC(+5V)
3	黄/yellow	Hv
4	蓝/blue	Hw
5	黑/black	GND
6	橙/orange	Hu

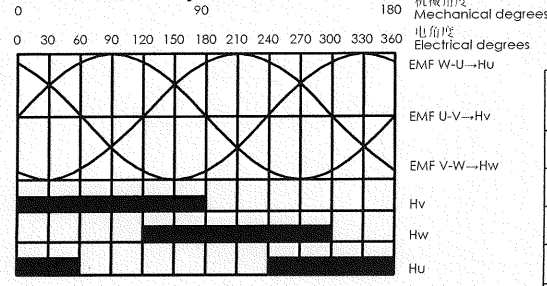
规格 Specifications

1	额定电压/Rated power supply	24	VDC
2	额定输出功率/Rated output power	51	W
3	极数/poles	4	
4	相数/Phase	3	
5	额定转速/Rated rotational speed	4000	RPM
6	最大转速/Maximum speed	5000	RPM
7	额定转矩/Rated torque	0.13	Nm
8	额定电流/Rated winding current	3.0	A
9	线反电势系数/Voltage constant±10%	5.0	Vrms/krpm
10	惯量/Moment of inertia	0.67x10^-5	kgm^2
11	线电阻Ph/ph resistance±0.1Ω at 20℃	0.92	Ω
12	线电感Ph/ph inductance±30% at 1KHz 20℃	1.84	mH
13	电机质量/Motor mass	0.67	kg
14	绝缘等级/Insulation class	B	130℃
15	防护等级/Protective enclosure rating	IP40	

转矩-转速特性
Torque-speed specifications



线反电势与霍尔相位关系图（顺时针）
Relation between phase EMF's and hall sensor outputs at CW



REV.	版本记录 REVISION RECORD	DATE
A	原始版本 Original revision	2018-05-25

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			

MOONS' BRUSHLESS DC MOTOR

Shanghai Moons' Electric Co., Ltd.

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Type: R57BLB50L2 | Rev.A | SCALE 1:1.5 | Sheet 1 of 1