

外转子无刷直流行星齿轮减速电机 (内齿圈材质: 金属)

Out-rotor BLDC Planetary Gear Motor (Ring Gear Material: Metal)

56JM300K/60BLW

Φ56行星减速器, 允许转矩范围: 3N.m~30N.m

56mm OD Planetary Gearbox,

Permissible Load Range: 3N.m~30N.m

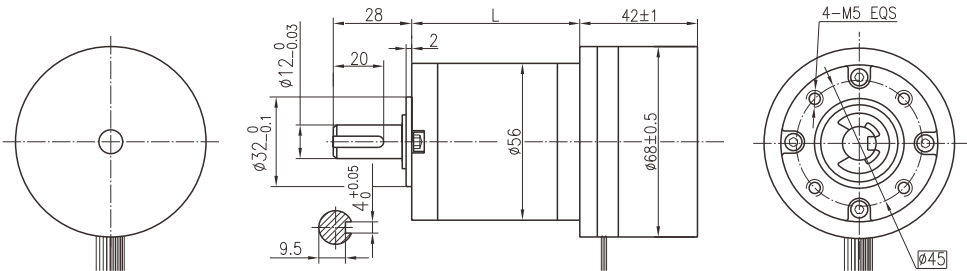
外转子电机因为转子在外面而得名, 特点是体积小 (长度短)、重量轻, 而输出转矩大
The outer rotor motor gets its name because the rotor is on the outside,
and it is characterized by small size (short length), light weight, and large output torque.

● 接线方式 Wire Diagram

No	颜色 Color	引出线型号 Type	功能 Functions	说明 Description
1	YEL	UL1332 AWG18	Phase U	
2	RED		Phase V	
3	BLK		Phase W	
4	BLK	UL1332 AWG26	GND	Hall 接地
5	RED		Vcc	Hall电源DC(+4.5V ~ 18VDC)
6	BLU		Hall A	
7	GRN		Hall B	
8	WHT		Hall C	



● 外形和安装尺寸 Dimensions



● 无刷电动机主要技术参数 Brushless Motor Technical Data

电机型号 Type	极数 Number of poles	相数 Number of phase	额定电压 Rated voltage VDC	空载转速 No-load speed r/min	额定转速 Rated speed r/min	额定转矩 Rated torque mN.m	额定功率 Rated power W	峰值扭矩 Peak torque mN.m	峰值电流 Peak current A	线电阻 Line to line resistance ohms	线电感 Line to line inductance mH
FL60BLW42-24V-37110A	14	3	24	4300	3700	290	112	870	18	0.25	0.3

● 无刷行星齿轮减速电机主要技术参数 Brushless Gear Motor Technical Data

配置FL60BLW42-24V-37110A无刷直流电机 (FL60BLW42-24V-37110A BLDC Motor)

减速比 Reduction ratio	3.60	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187
减速级数 Number of gear trains	1	1	1	2	2	2	2	2	3	3	3	3	3	3	4	4
减速器长度(L) Length(L) mm	37.8	37.8	37.8	49.5	49.5	49.5	49.5	49.5	60.8	60.8	60.8	60.8	60.8	60.8	71.9	71.9
空载转速 No-load speed r/min	1194	1012	807	331	287	239	187	154	100	83	70	60	45	36	28	23
额定转速 Rated speed r/min	1028	871	684	285	247	206	161	132	86	71	61	51	39	31	24	20
额定转矩 Rated torque N.m	0.94	1.1	1.3	3.1	3.5	4.2	5.4	6.6	9.1	11	13	15	20	23	29	30
最大瞬间允许负载 Max. permissible load in a short time N.m	9	9	9	36	36	36	36	36	72	72	72	72	72	72	90	90