

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)

42JM150K/45BLW $\Phi 42$ 行星减速器, 允许转矩范围: 0.15N.m~15N.m
42mm OD Planetary Gearbox,
Permissible Load Range: 0.15N.m~15N.m

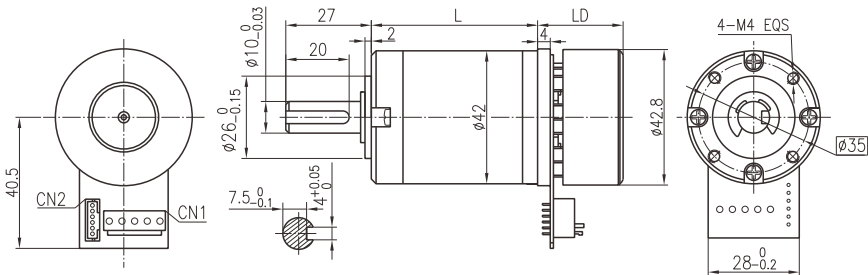
外转子电机因为转子在外面而得名, 特点是体积小 (长度短)、重量轻, 而输出转矩大
The outer rotor motor gets its name because the rotor is on the outside,
and it is characterized by small size (short length), light weight, and large output torque.

● 接线方式 Wire Diagram

接插件 Connector	插针号 Pin	功能 Functions	说明 Description
CN1 JST B5P-VH	PIN1	GND	
	PIN2	Phase U	
	PIN3	Phase V	
	PIN4	Phase W	
	PIN5	GND	
CN2 JST B5B-PH-K-S	PIN1	GND	
	PIN2	+5V	DC(+4.5V ~ 18VDC)
	PIN3	Hall U	
	PIN4	Hall V	
	PIN5	Hall W	
	PIN6	GND	



● 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	峰值转矩 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
FL45BLW18-24V-7130A	16	3	24	6500	5000	50	30	150	4.8	1.42	0.59
FL45BLW21-24V-6750A	16	3	24	6700	5260	84	50	250	7.1	0.72	0.33
FL45BLW27-24V-6170A	16	3	24	6100	4840	130	70	390	10	0.56	0.27

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

减速比 Reduction ratio		3.71	5.18	14	19	27	49	59	68	82	95	115	181	218	253	305	354
FL45BLW18 24V-7130A LD=18	额定转速 Rated speed r/min	1348	965	357	263	185	102	85	74	61	53	43	28	23	20	16	14
	额定转矩 Rated torque N.m	0.17	0.23	0.57	0.77	1.1	1.8	2.2	2.5	3.0	3.5	4.2	5.9	7.1	8.2	9.9	12
FL45BLW21 24V-6750A LD=21	额定转速 Rated speed r/min	1418	1015	376	277	195	107	89	77	64	55	46	29	24	21	17	15
	额定转矩 Rated torque N.m	0.28	0.39	0.95	1.3	1.8	3.0	3.6	4.2	5.0	5.8	7.1	9.9	12	14	15	15
FL45BLW27 24V-6170A LD=27	额定转速 Rated speed r/min	1305	934	346	255	179	99	82	71	59	51	42	27	22	-	-	-
	额定转矩 Rated torque N.m	0.43	0.61	1.5	2.0	2.8	4.7	5.6	6.5	7.8	9.0	11	15	15	-	-	-
减速级数 Number of gear trains		1	1	2	2	2	3	3	3	3	3	3	4	4	4	4	4
减速器长度(L) Length(L)		mm	31.5	31.5	42.1	42.1	42.1	52.5	52.5	52.5	52.5	52.5	62.9	62.9	62.9	62.9	62.9
最大瞬间允许负载 Max. permissible load in a short time		N.m	4.5	4.5	18	18	18	30	30	30	30	30	38	38	38	38	38