

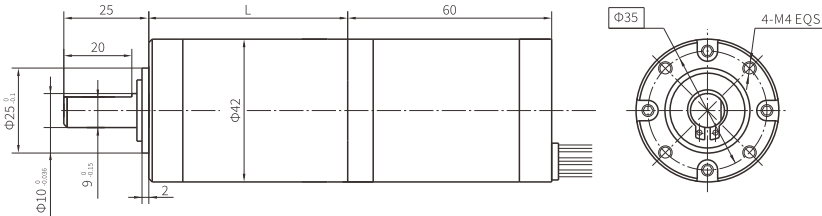
**无刷直流行星齿轮减速电机** (内齿圈材质:粉末金属)  
**BLDC Planetary Gear Motor** (Ring Gear Material: Powder Metal)

# 42JXF150K/42ZWN60

Φ42行星减速器, 允许转矩范围:2N.m~15N.m  
 42mm OD Planetary Gearbox,  
 Permissible Load Range: 2N.m~15N.m

■ 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	额定电流 Rated Current A	峰值转矩 Peak Torque mN.m	峰值电流 Peak Current A	电阻 Line to line resistance ohms	电感 Line to line inductance mH
42ZWN60-2420	8	3	24	2000	1400	40	5.8	0.35	180	1.5	11.9	15
42ZWN60-2430	8	3	24	3000	2100	50	11	0.66	150	2.6	6.0	6.4

■ 无刷行星齿轮减速电机主要技术参数

Brushless Gear Motor Technical Data

配置42ZWN60-2420无刷直流电机(42ZWN60-2420 BLDC Motor)

减速比 Reduction ratio	3.71	5.18	14	19	27	51	71	100	139	190	264	369	516	720
减速级数 Number of gear trains	1	1	2	2	2	3	3	3	3	4	4	4	4	4
减速器长度(L) Length mm	31.5	31.5	41.8	41.8	41.8	52.5	52.5	52.5	52.5	62.9	62.9	62.9	62.9	62.9
空载速度 No-load speed r/min	539	386	143	105	74	39	28	20	14	11	8	5	4	3
额定转速 Rated speed r/min	377	270	100	74	52	27	20	14	10	7	5	4	3	2
额定转矩 Rated torque N.m	0.1	0.2	0.5	0.6	0.9	1.5	2.1	2.9	4.1	5.0	6.9	9.7	13.5	15.0
最大瞬间允许负载 Max. permissible load in a short time N.m	3	3	5	5	5	5	10	10	10	10	20	20	20	20

配置42ZWN60-2430无刷直流电机(42ZWN60-2430 BLDC Motor)

减速比 Reduction ratio	3.71	5.18	14	19	27	51	71	100	139	189	264	369	516
减速级数 Number of gear trains	1	1	2	2	2	3	3	3	3	4	4	4	4
减速器长度(L) Length mm	31.5	31.5	41.8	41.8	41.8	52.5	52.5	52.5	52.5	62.9	62.9	62.9	62.9
空载速度 No-load speed r/min	809	579	214	158	111	59	42	30	22	16	11	8	6
额定转速 Rated speed r/min	566	405	150	111	78	41	30	21	15	11	8	6	4
额定转矩 Rated torque N.m	0.2	0.2	0.6	0.8	1.1	1.9	2.6	3.6	5.1	6.2	8.7	12.1	15.0
最大瞬间允许负载 Max. permissible load in a short time N.m	3	3	5	10	10	10	10	15	20	20	20	20	20

■ 接线方式

Wire Diagram

U	V	W	Vcc	Ha	Hb	Hc	GND
电机 Motor			霍尔 Hall				