

PM DC Planetary Gear Motor (Ring Gear Material: Metal and Powder Metal)

Φ36行星减速器, 允许转矩范围: 0.3N.m~3.0N.m
36mm OD Planetary Gearbox,
Permissible Load Range: 0.3N.m~3.0N.m

A



电机型号 Type	额定电压 Rated voltage VDC	空载转速 No-load speed r/min	空载电流 No-load current mA	额定转速 Rated speed r/min	额定转矩 Rated torque mN.m	输出功率 Output power W	额定电流 Rated current A	堵转力矩 Stall torque mN.m	堵转电流 Stall current A
36ZY57-2430	24	3000	100	2500	15	4.5	0.52	92	2.2
36ZY57-2442	24	4200	120	3600	19	7	0.52	97	2.8

● 齿轮减速电机主要技术参数 Gear Motor Technical Data

减 速 比	Reduction ratio		3.7	5.2	14	19	27	51	71	100	139	181	219	254	306	354	427
减速级数	Number of gear trains		1	1	2	2	2	3	3	3	3	4	4	4	4	4	4
减速器长度(L)	Length(L)	mm	26.5	26.5	33.6	33.6	33.6	40.5	40.5	40.5	40.5	47.4	47.4	47.4	47.4	47.4	47.4
空载转速	No-load speed	r/min	809	579	214	158	111	59	42	30	22	16	14	12	9.8	8.5	7.0
额定转速	Rated speed	r/min	674	483	179	132	93	49	35	25	18	13	11	9.8	8.2	7.1	5.9
额定转矩	Rated torque	N.m	0.050	0.070	0.17	0.23	0.33	0.56	0.78	1.1	1.5	1.8	2.1	2.4	3.0	3.0	3.0
最大瞬间允许负载	N.m Max. permissible load in a short time		1.0	1.0	3.5	3.5	3.5	7.5	7.5	7.5	7.5	9.0	9.0	9.0	9.0	9.0	9.0

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空载转速	No-load speed r/min	1132	811	300	221	156	82	59	42	30	22	19	17	14	12
额定转速	Rated speed r/min	970	695	257	189	133	71	51	36	26	19	16	14	12	10
额定转矩	Rated torque N.m	0.063	0.089	0.22	0.29	0.42	0.71	0.98	1.4	1.9	2.3	2.7	3.0	3.0	3.0
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Graph showing the efficiency $\text{EFF}(\eta)$ versus angular speed ω (mN.m) for the 36ZY57-2430 motor. The graph includes curves for Power (P), Current (I), and Efficiency (η).

ω (mN.m)	P (W)	I (A)	N (RPM)	η (%)	P (%)	I (%)
0	3500	5.0	3500	0	0	0
10	2625	3.75	2625	~55	~25	~12.5
20	1750	2.5	1750	~75	~45	~25
30	875	1.25	875	~85	~65	~37.5
40	0	0	0	~80	~75	~50
50	0	0	0	~55	~65	~62.5
60	0	0	0	~25	~45	~75
70	0	0	0	~5	~25	~87.5
80	0	0	0	0	0	100

