

32PA

PMDc PLANET GEAR MOTOR

31ZYT51

直流行星齿轮减速电机



## Motor specifications/马达参数

电机型号 Model #	额定电压 Rated Voltage	空载转速 No-load speed	空载电流 No-load Current	额定转速 Rated speed	额定电流 Rated Current	额定力矩 Rated Torque	堵转电流 Stall Current	堵转力矩 Stall Torque	额定功率 Rated Power
31ZYT51-1246	12V	4600rpm	100mA	3800rpm	700mA	140g.cm	4.5A	900g.cm	5.5W
31ZYT51-1266	12V	6600rpm	200mA	5300rpm	1700mA	197g.cm	8.9A	1000g.cm	10.7W
31ZYT51-2446	24V	4600rpm	50mA	3000rpm	600mA	204g.cm	1.6A	620g.cm	6.3W
31ZYT51-2471	24V	7100rpm	200mA	5700rpm	1010mA	256g.cm	4.3A	1300g.cm	14.9W

## Gear Motor Technical Data/齿轮减速电机主要参数

## 32PAXXXG/31ZYT51-1246

Reduction ratio (1:X)	4	5	13	19	27	51	71	100	139	189	264	369	515	720
Stage (#)	1		2			3				4				
No-load Speed (rpm)	1243	885	338	240	172	90	65	46	33	24	17	12	8.9	6.3
Rated Speed (rpm)	1027	731	279	198	142	75	54	38	27	20	14	10	7.4	5.3
Rated Torque (kg.cm)	0.44	0.62	1.4	1.9	2.7	4.4	6.1	8.5	12	14	19	20	20	20
Max load (kg.cm)	9		15			30				45				
Gear Box Length(mm)	27		34.8			42.5				50.3				

## 32PAXXXG/31ZYT51-1266

Reduction ratio (1:X)	4	5	13	19	27	51	71	100	139	189	264	369	515	720
Stage (#)	1		2			3				4				
No-load Speed (rpm)	1784	1269	485	344	246	129	93	66	48	35	25	18	13	9.2
Rated Speed (rpm)	1432	1019	390	276	198	104	75	53	38	28	20	14	10	7.4
Rated Torque (kg.cm)	0.62	0.87	1.9	2.7	3.8	6.1	8.5	12	16	19	20	20	20	20
Max load (kg.cm)	9		15			30				45				
Gear Box Length(mm)	27		34.8			42.5				50.3				

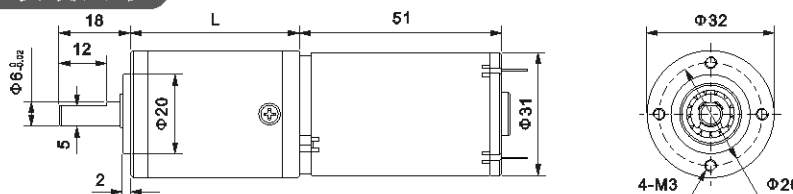
## 32PAXXXG/31ZYT51-2446

Reduction ratio (1:X)	4	5	13	19	27	51	71	100	139	189	264	369	515	720
Stage (#)	1		2			3				4				
No-load Speed (rpm)	1243	885	338	240	172	90	65	46	33	24	17	12	8.9	6.3
Rated Speed (rpm)	811	577	221	156	112	59	42	30	22	16	11	8.1	5.8	4.2
Rated Torque (kg.cm)	0.64	0.91	2.0	2.8	3.9	6.4	8.8	12	17	20	20	20	20	20
Max load (kg.cm)	9		15			30				45				
Gear Box Length(mm)	27		34.8			42.5				50.3				

## 32PAXXXG/31ZYT51-2471

Reduction ratio (1:X)	4	5	13	19	27	51	71	100	139	189	264	369	515	720
Stage (#)	1		2			3				4				
No-load Speed (rpm)	1919	1365	522	370	265	139	100	71	51	38	27	19	14	9.9
Rated Speed (rpm)	1541	1096	419	297	213	112	80	57	41	30	22	15	11	7.9
Rated Torque (kg.cm)	0.81	1.1	2.5	3.5	4.9	7.9	11	16	20	20	20	20	20	20
Max load (kg.cm)	9		15			30				45				
Gear Box Length(mm)	27		34.8			42.5				50.3				

## Dimensions/外形和安装尺寸



## Product Code/型号定义

32	PA	27G	31	ZYT	51	1246	ME
机座号 Frame size 32=Φ32mm	行星齿轮 Planetary	减速比 Gear Ratio 27=27:1	马达直径 Motor size 31=Φ31mm	马达类型 Motor Type	马达长度 Motor Length 51=51mm	电压/转速 Voltage and speed 12=12V; 46=4600rpm	可带编码器 Optional Encoder ME = Magnet Encoder