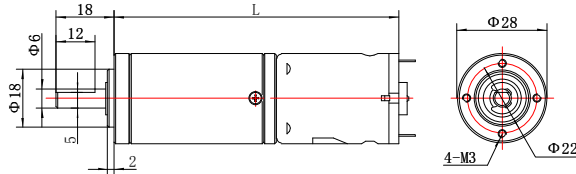


# 28PA/28ZYT38 PM DC PLANETARY GEAR MOTOR

● Mechanical Dimensions



● 28PAXXXG/28ZYT38-1245

Rated Voltage	V	12													
Reduction ratio	1:X	3.7	5.2	13	19	27	51	71	100	139	189	264	369	515	720
Stage	#	1	1	2	2	2	3	3	3	3	4	4	4	4	4
No-load speed	rpm	1216	865	328	234	168	88	63	45	32	24	17	12	8.7	6.3
Rated speed	rpm	892	635	241	172	123	62	46	33	24	17	13	8.9	6.4	4.6
Rated Torque	kg.cm	0.18	0.26	0.61	0.86	1.2	2.1	2.9	4.0	5.6	6.8	9.5	13	18	26
Gear motor length (L)	mm	65	65	72.7	72.7	72.7	80.4	80.4	80.4	80.4	88.1	88.1	88.1	88.1	88.1
Moment Possible Max Torque	kg.cm	0.73	1.0	2.4	3.4	4.8	8.2	11	16	22	27	38	53	74	90

● 28PAXXXG/28ZYT38-1278

Rated Voltage	V	12													
Reduction ratio	1:X	3.7	5.2	13	19	27	51	71	100	139	189	264	369	515	720
Stage	#	1	1	2	2	2	3	3	3	3	4	4	4	4	4
No-load speed	rpm	2108	1500	569	406	291	153	110	78	56	41	30	21	15	11
Rated speed	rpm	1622	1154	438	313	224	118	85	60	43	32	23	16	12	8.3
Rated Torque	kg.cm	0.27	0.38	0.91	1.3	1.8	3.1	4.3	6.0	8.3	10	14	20	27	30
Gear motor length (L)	mm	65	65	72.7	72.7	72.7	80.4	80.4	80.4	80.4	88.1	88.1	88.1	88.1	88.1
Moment Possible Max Torque	kg.cm	1.2	1.7	4.0	5.6	7.7	13	18	26	36	44	61	86	90	90

● 28PAXXXG/28ZYT46-2475

Rated Voltage	V	24													
Reduction ratio	1:X	3.7	5.2	13	19	27	51	71	100	139	189	264	369	515	720
Stage	#	1	1	2	2	2	3	3	3	3	4	4	4	4	4
No-load speed	rpm	2027	1442	547	391	280	147	106	75	54	40	28	20	15	10
Rated speed	rpm	1730	1231	467	333	239	125	90	64	46	34	24	17	12	8.9
Rated Torque	kg.cm	0.3	0.42	1.0	1.4	2.0	3.4	4.7	6.5	9.1	11	15	22	30	30
Gear motor length (L)	mm	73	73	80.4	80.4	80.4	88.1	88.1	88.1	88.1	95.8	95.8	95.8	95.8	95.8
Moment Possible Max Torque	kg.cm	2.2	3.0	7.2	10	14	24	33	47	66	80	90	90	90	90

● Motor Specifications

Model	Rated Voltage	No-load Speed	No-load Current	Rated Speed	Rated Current	Rated Torque	Stal I Current	Stal I Torque	Rated Power
	V	rpm	mA	rpm	mA	g.cm	A	g.cm	W
28ZYT38-1245	12	4500	70	3300	300	55	1.2	220	1.8
28ZYT38-1278	12	7800	135	6000	820	82	3.14	358	5.8
28ZYT38-2475	24	7500	55	6400	336	90	2.1	650	5.9

**28**      **PA**      **19**      **G** /      **28**      **ZYT**      **38**      -      **1245**  
 Size      Type      Ratio      Bearing      Size      Type      Length      Voltage and Speed  
 28mm      Planetary      19:1      Ball      28mm      Ferrite      38mm      12=12V;45=4500rpm