

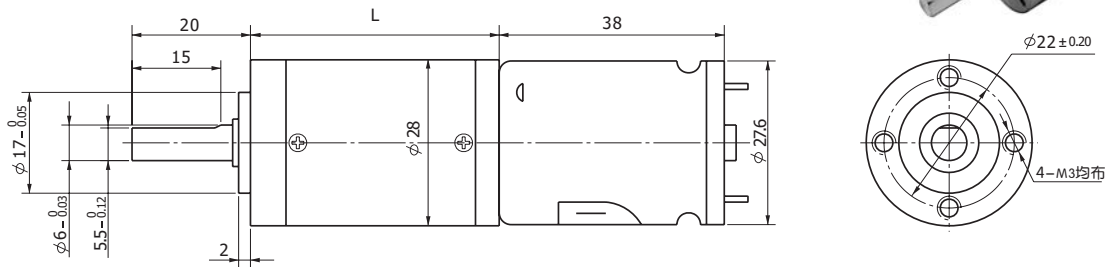
MERCURY MOTOR

MP28M-2838 PM DC PLANETARY GEAR MOTOR

Description of the products

1. the output torque ≤ 1 N.m

Dimensions



Motor Specifications

Type	Rated	No Load		Rated			Output	Stall	
	Voltage	Speed	Current	Speed	Current	Torque		Torque	Current
	V	r/min	mA	r/min	mA	mN.m		mN.m	A
2838-1230	12	3000	70	2800	170	2.5	0.73	14.2	0.43
2838-1240	12	4000	80	3000	300	7	2.1	24.5	0.87
2838-1250	12	5000	100	4000	410	7	2.9	35	1.50

MP28M-2838-1230 Gear Motor Specifications

Reduction ratio	1/3.7	1/5.2	1/14	1/19	1/27	1/51	1/71	1/100	1/139	1/189	1/264	1/369	1/516	1/720
Gear trains	1	1	2	2	2	3	3	3	3	4	4	4	4	4
Gearhead length L (mm)	31.5	31.5	36	36	36	42	42	42	42	48.5	48.5	48.5	48.5	48.5
No load speed (r/min)	810	588	214	158	111	58	42	30	21	16	11	8.1	5.8	4.1
Rated speed (r/min)	756	550	200	147	103	55	39	28	20	15	10	7.6	5.5	4
Rated torque (N.m)	0.008	0.012	0.031	0.043	0.061	0.11	0.15	0.22	0.3	0.38	0.53	0.74	1	1
Max permissible Load at Moment (N.m)	0.6	0.6	1.2	1.2	1.2	2.4	2.4	2.4	2.4	3	3	3	3	3

MP28M-2838-1240 Gear Motor Specifications

Reduction ratio	1/3.7	1/5.2	1/14	1/19	1/27	1/51	1/71	1/100	1/139	1/189	1/264	1/369	1/516	1/720
Gear trains	1	1	2	2	2	3	3	3	3	4	4	4	4	4
Gearhead length L (mm)	31.5	31.5	36	36	36	42	42	42	42	48.5	48.5	48.5	48.5	48.5
No load speed (r/min)	1080	784	285	210	148	78	56	40	28	21	15	10	7.7	5.5
Rated speed (r/min)	810	588	214	158	111	58	42	30	21	15	12	9.5	7.1	5.2
Rated torque (N.m)	0.024	0.034	0.088	0.120	0.170	0.30	0.42	0.60	0.83	1.0	1.0	10.0	10	10
Max permissible Load at Moment (N.m)	0.6	0.6	1.2	1.2	1.2	2.4	2.4	2.4	2.4	3.0	3.0	30.0	30.0	30.0

MP28M-2838-1250 Gear Motor Specifications

Reduction ratio	1/3.7	1/5.2	1/14	1/19	1/27	1/51	1/71	1/100	1/139	1/189	1/264	1/369	1/516	1/720
Gear trains	1	1	2	2	2	3	3	3	3	4	4	4	4	4
Gearhead length L (mm)	31.5	31.5	36	36	36	42	42	42	42	48.5	48.5	48.5	48.5	48.5
No load speed (r/min)	1350	980	357	263	185	98	70	50	36	26	19	13	9.7	6.9
Rated speed (r/min)	1080	784	285	210	148	78	56	40	28	21	16	12	9	6.6
Rated torque (N.m)	0.024	0.034	0.088	0.120	0.170	0.30	0.42	0.60	0.83	1.0	1.0	10.0	10.0	10.0
Max permissible Load at Moment (N.m)	0.6	0.6	1.2	1.2	1.2	2.4	2.4	2.4	2.4	3.0	3.0	30.0	30.0	30.0