KING RIGHT MOTOR CO.,LTD.

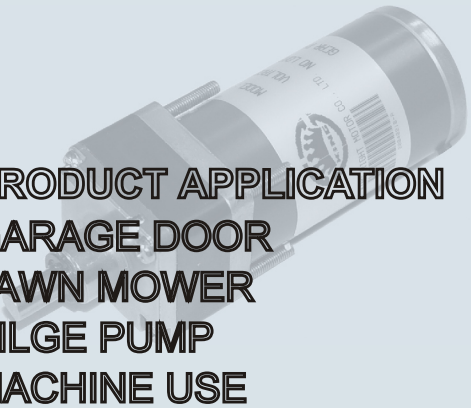
INTRODUCTION

King Right Motor has been specializing in the manufacturing of DC magnet motors since 1975. As an ISO-9001 certified company, we are capable of undertaking extensive research and developments of any possible new projects with customers' cooperation.

Backed by King Right Motor's 31 years of accumulated experience andatured techniques, we are confident in bringing you high quality DC motors with sizes and powers ranging from 43mm to 125mm, 5W to 1000W respectively. Designed for wide applications such as transmission of spur gear, worm gear, planetary gear and so forth.

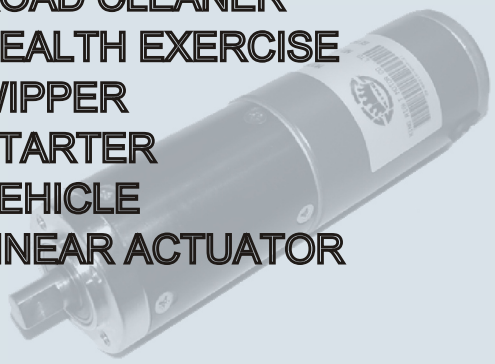
Call us to find out how we can meet your exact specifications and fulfill your custom order. Browse our website for more details. If your request(speed, shaft, flange,IP LEVEL,encoder type, application etc.) is different, please contact us directly.

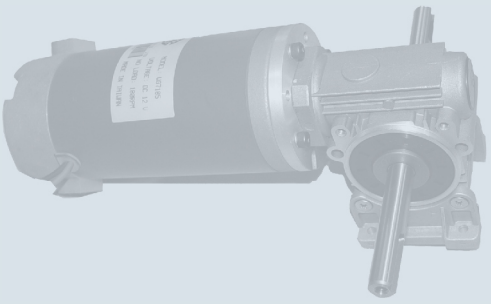
Andrew Chuang
President



PRODUCT APPLICATION

1. GARAGE DOOR
2. LAWN MOWER
3. BILGE PUMP
4. MACHINE USE
5. HOSPITAL BED
6. ROAD CLEANER
7. HEALTH EXERCISE
8. WIPPER
9. STARTER
10. VEHICLE
11. LINEAR ACTUATOR





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PUMP ---------- p.61

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SPEED CONTROL ---------- p.63

DC MOTOR

M3928

Φ43.5mm , 20W

3 - 8 Ncm

M3929

Φ43.5mm , 20W

3 - 8 Ncm

M4835

Φ54mm , 30W

5 - 11 Ncm

F5539

Φ61mm , 40W

8-16Ncm

M5844

Φ63.5mm , 50W

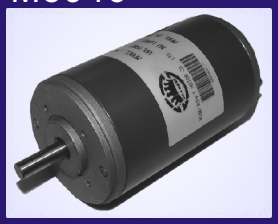
12 - 16 Ncm

M5850

Φ63.5mm , 55W

13 - 17 Ncm

M5946



Φ64.5mm , 60W

14 - 19 Ncm

M6551

Φ70.5mm , 70W

15 - 28 Ncm

KR7135

Φ80mm , 80W

16 - 30 Ncm

KR7152

Φ80mm , 120W

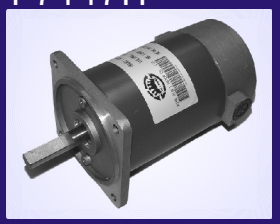
26 - 36 Ncm

SM7152

Φ80mm , 120W

26 - 36 Ncm

F7147H



Φ80mm , 120W

30 - 50 Ncm

1N.cm=0.102 kgcm

=1.42 oz-in

M7152H

Φ80mm , 150W

30 - 55 Ncm

M7165

Φ80mm , 200W

30 - 60 Ncm

M7185

Φ80mm , 230W

40 - 75 Ncm

MT7255-3

Φ80mm , 230W

40 - 75 Ncm

MT7255-2

Φ80mm , 250W

45 - 80 Ncm

M8156

Φ89mm , 250W

45 - 80 Ncm

M9480T

Φ100mm , 150W

40 - 60 Ncm

M9480LT

Φ100mm , 300W

50 - 90 Ncm

M1080

Φ109.5mm , 350W

80 - 140 Ncm

M1084

Φ109.5mm , 500W

90 - 160 Ncm

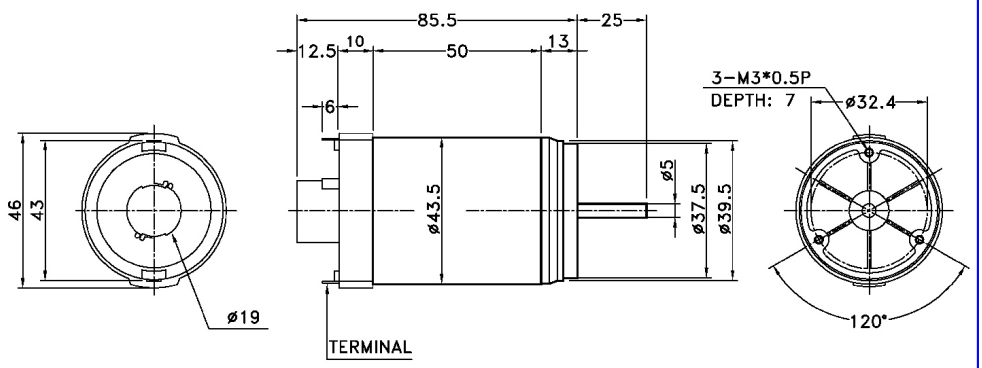
M1188R

Φ123.5mm , 700W

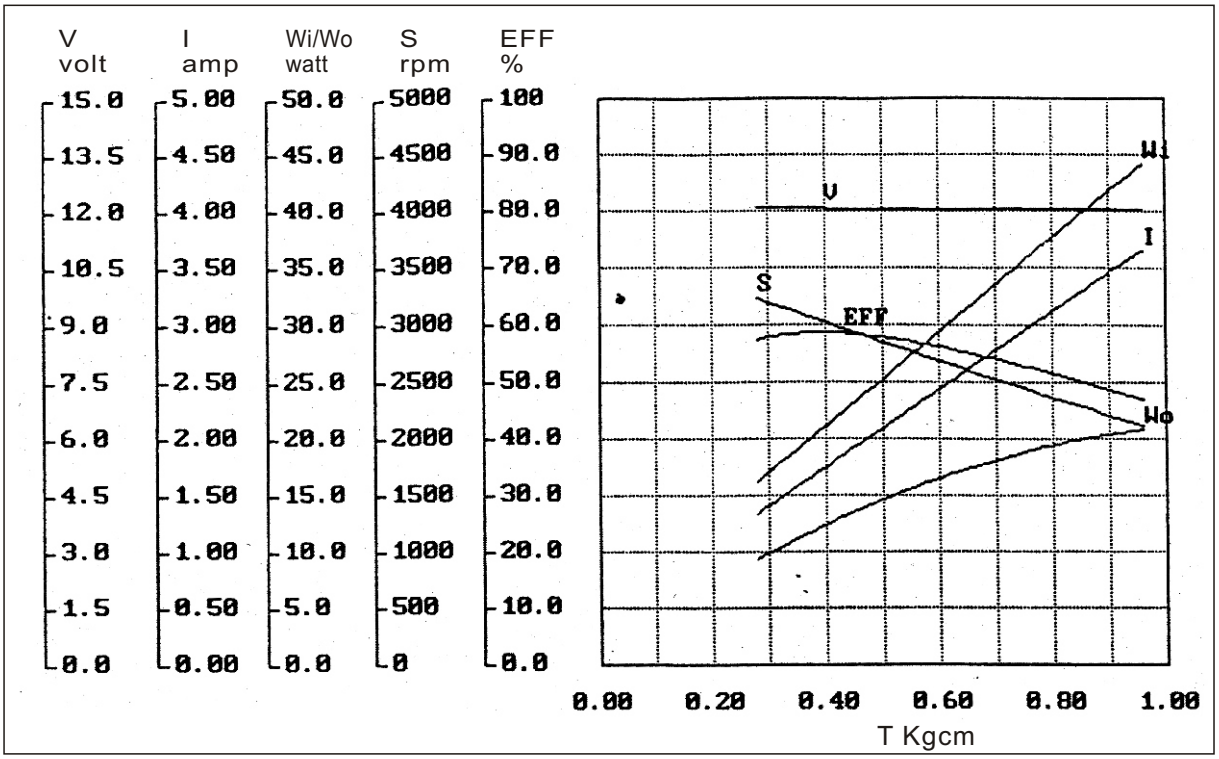
120 - 200 Ncm

φ43.5mm,3-8Ncn,20W
Welght：0.4Kg/pcs

M3928



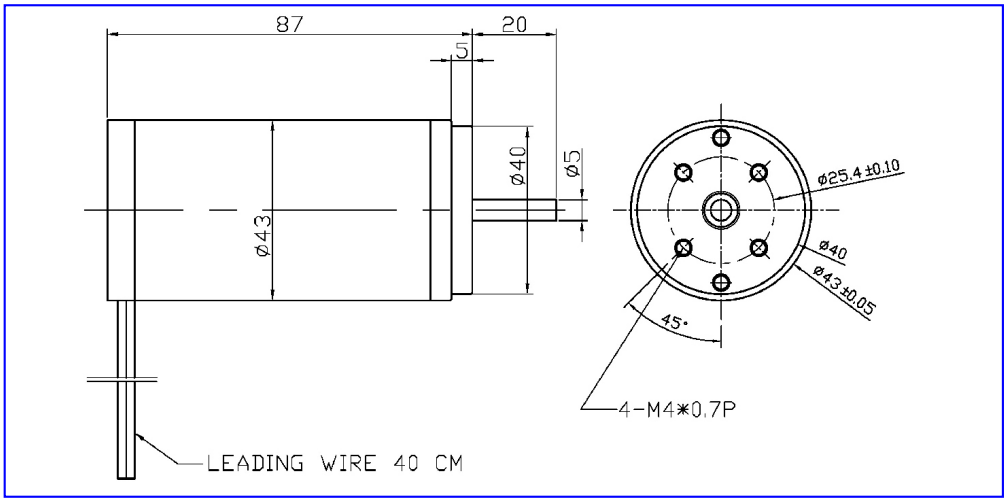
12VDC No Load 3700rpm Torque/Speed Performance Curve



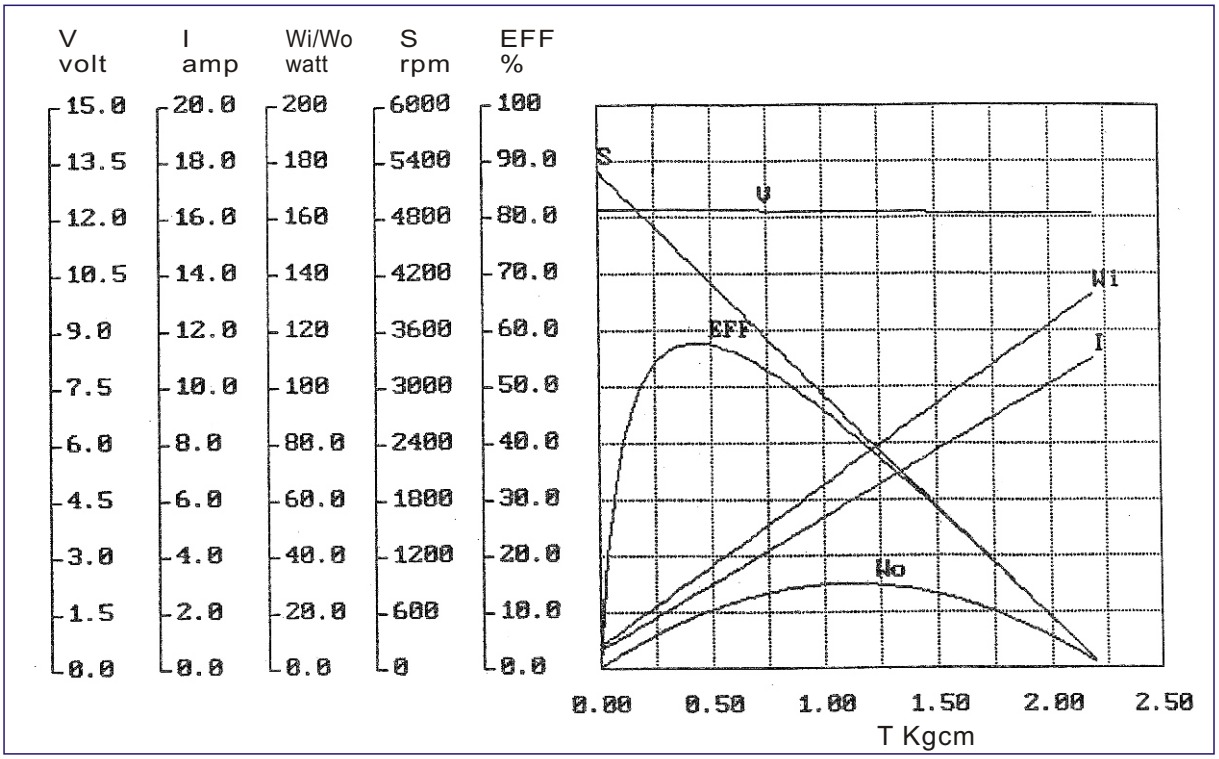
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3230	12.10	1.34	16.2	0.28	9.3	57.4
2	3059	12.07	1.68	20.3	0.38	11.9	58.6
3	2894	12.07	2.00	24.1	0.48	14.3	59.3
4	2895	12.07	2.02	24.4	0.47	14.0	57.4
5	2724	12.07	2.36	28.5	0.58	16.2	56.8
6	2555	12.07	2.69	32.5	0.67	17.6	54.2
7	2416	12.07	3.03	36.6	0.77	19.1	52.2
8	2419	12.07	3.01	36.3	0.77	19.1	52.6
9	2264	12.07	3.35	40.4	0.87	20.2	50.0
10	2092	12.07	3.70	44.7	0.97	20.8	46.5

φ43.5mm,3-8Ncn,20W
Welght：0.4Kg/pcs
With encoder available

M3929



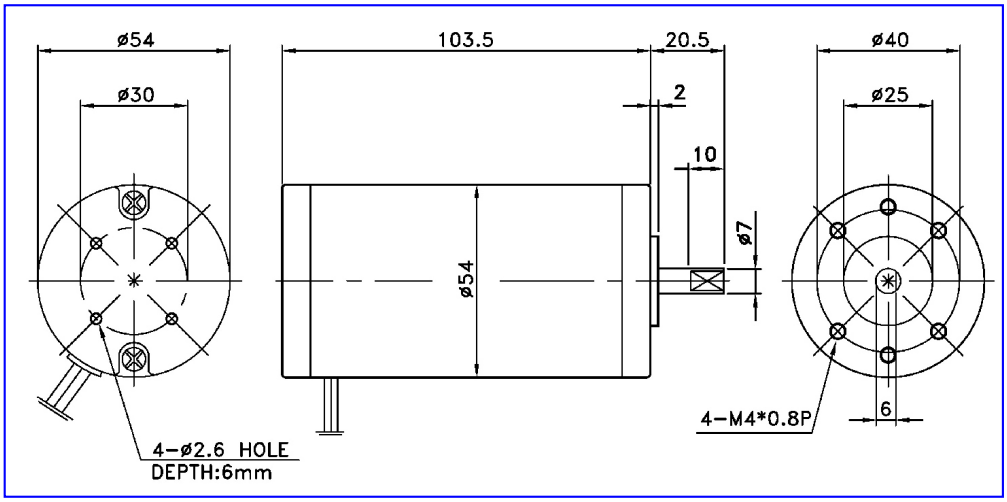
12VDC No Load 4900rpm Torque/Speed Performance Curve



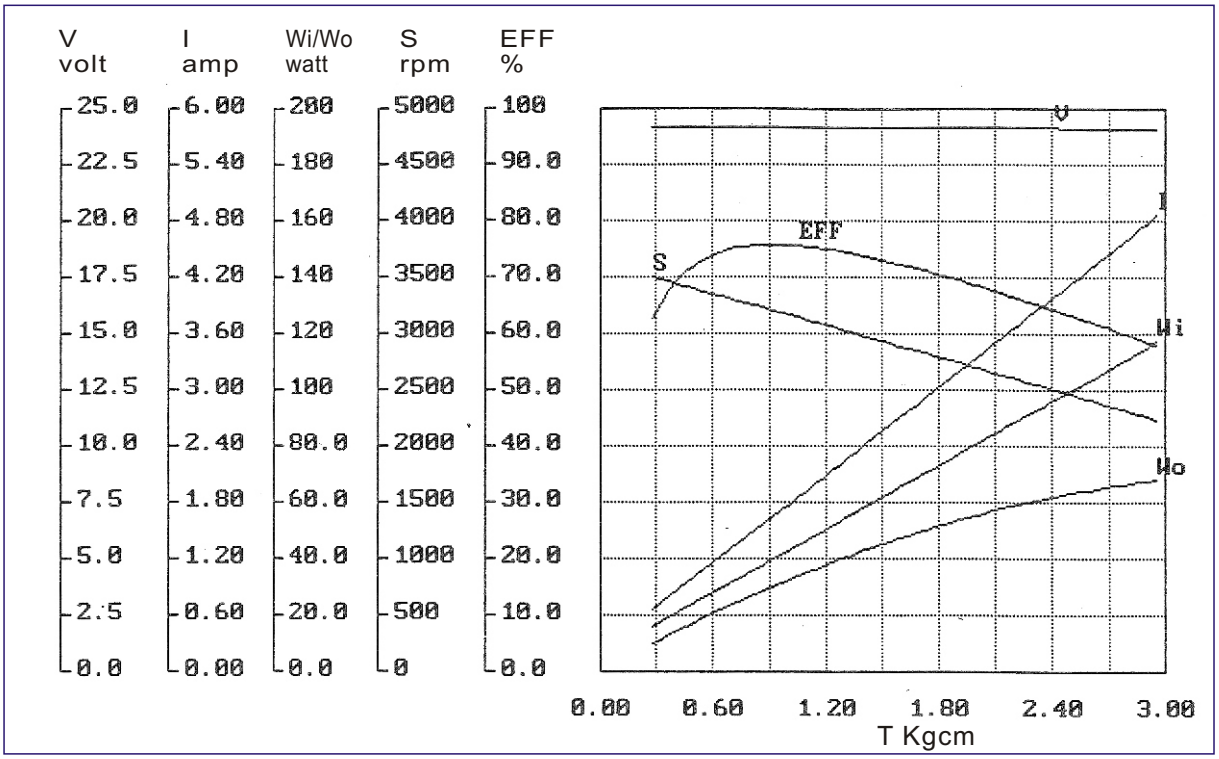
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	4619	12.19	1.95	23.8	0.28	13.3	55.9
2	4391	12.16	2.39	29.1	0.38	17.1	58.8
3	4187	12.19	2.86	34.9	0.47	20.2	57.9
4	3954	12.16	3.35	40.7	0.58	23.5	57.7
5	3743	12.19	3.81	46.4	0.67	25.7	55.4
6	3516	12.16	4.27	51.9	0.77	27.8	53.6
7	3294	12.19	4.76	58.0	0.87	29.4	50.7
8	3064	12.19	5.23	63.8	0.98	30.8	48.3

Φ 54mm ,5-11 Ncm , 30W
Weight : 0.8 Kg/pcs
With encoder/brake available
Front Cover : Square/Circle

M4835



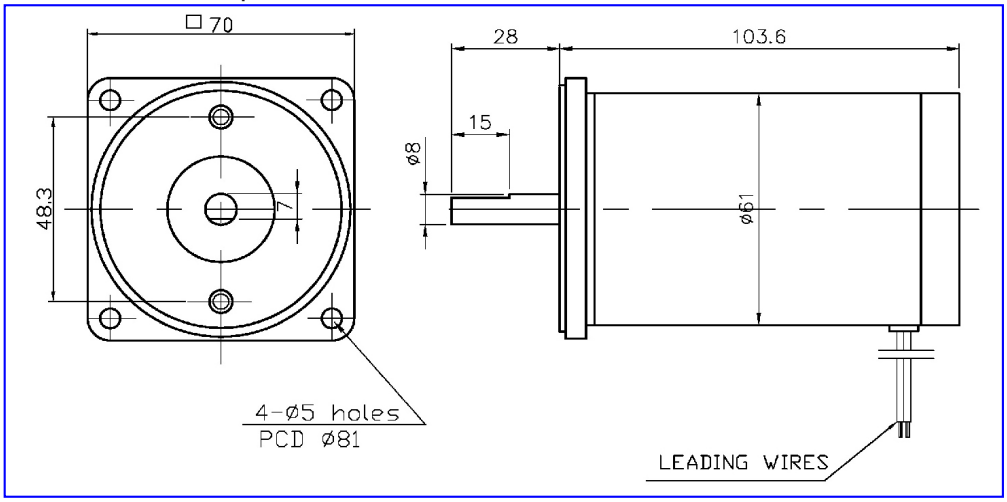
12VDC No Load 3600rpm Torque/Speed Performance Curve



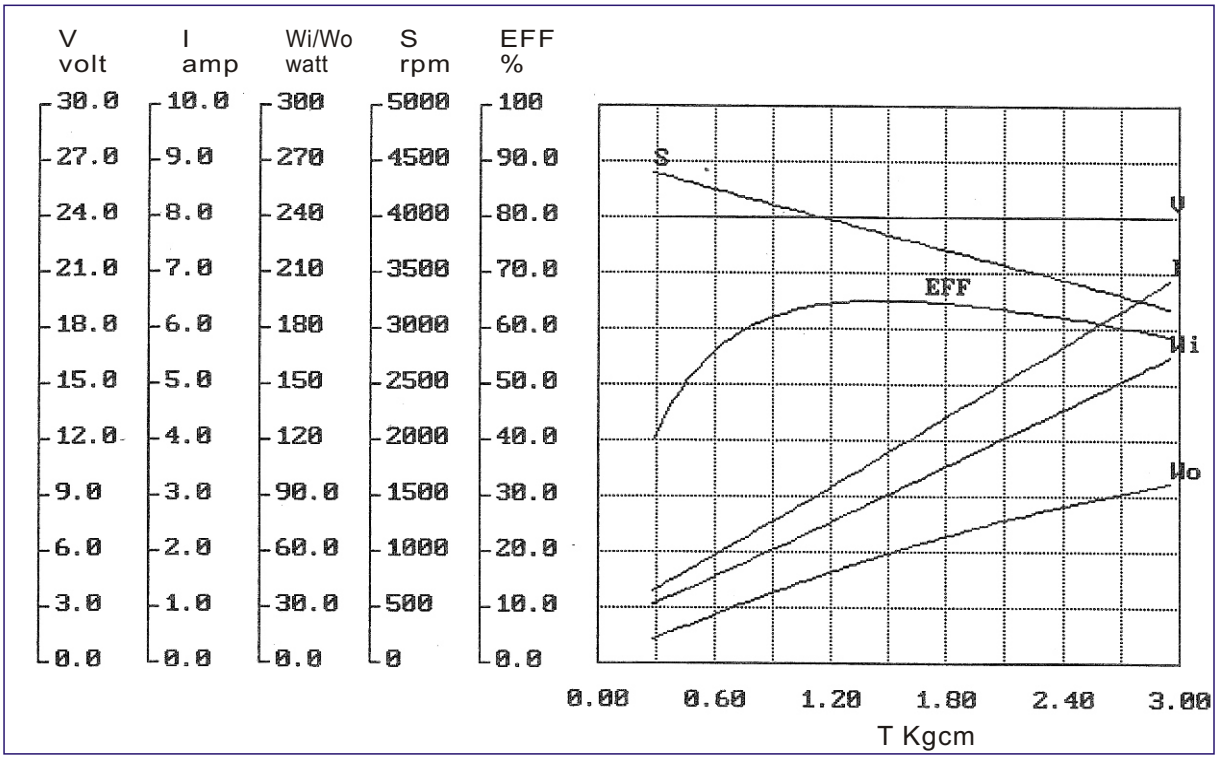
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3505	24.15	0.66	15.9	0.28	10.1	63.5
2	3364	24.15	1.12	27.0	0.57	19.7	73.0
3	3175	24.18	1.76	42.6	0.98	31.9	74.9
4	3038	24.15	2.18	52.6	1.28	39.9	75.6
5	2852	24.15	2.86	69.1	1.69	49.5	71.6
6	2704	24.15	3.32	80.2	1.98	54.9	68.5
7	2562	24.12	3.81	91.9	2.29	60.2	65.5
8	2369	24.12	4.44	107.1	2.70	65.6	61.3
9	2210	24.12	4.93	118.9	3.00	68.0	57.2

Φ61mm ,8-16 Ncm , 40W
Weight : 1 Kg/pcs
With encoder/brake available
Front Cover : Square/Circle

F5539



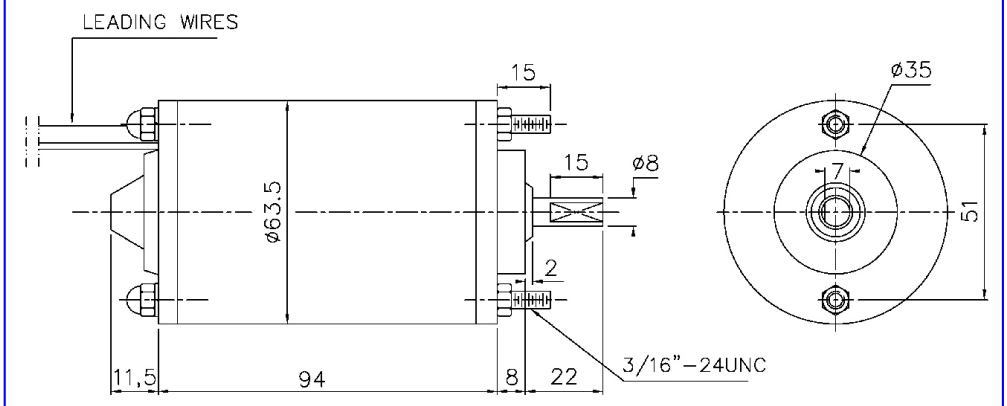
24VDC No Load 4400rpm Torque/Speed Performance Curve



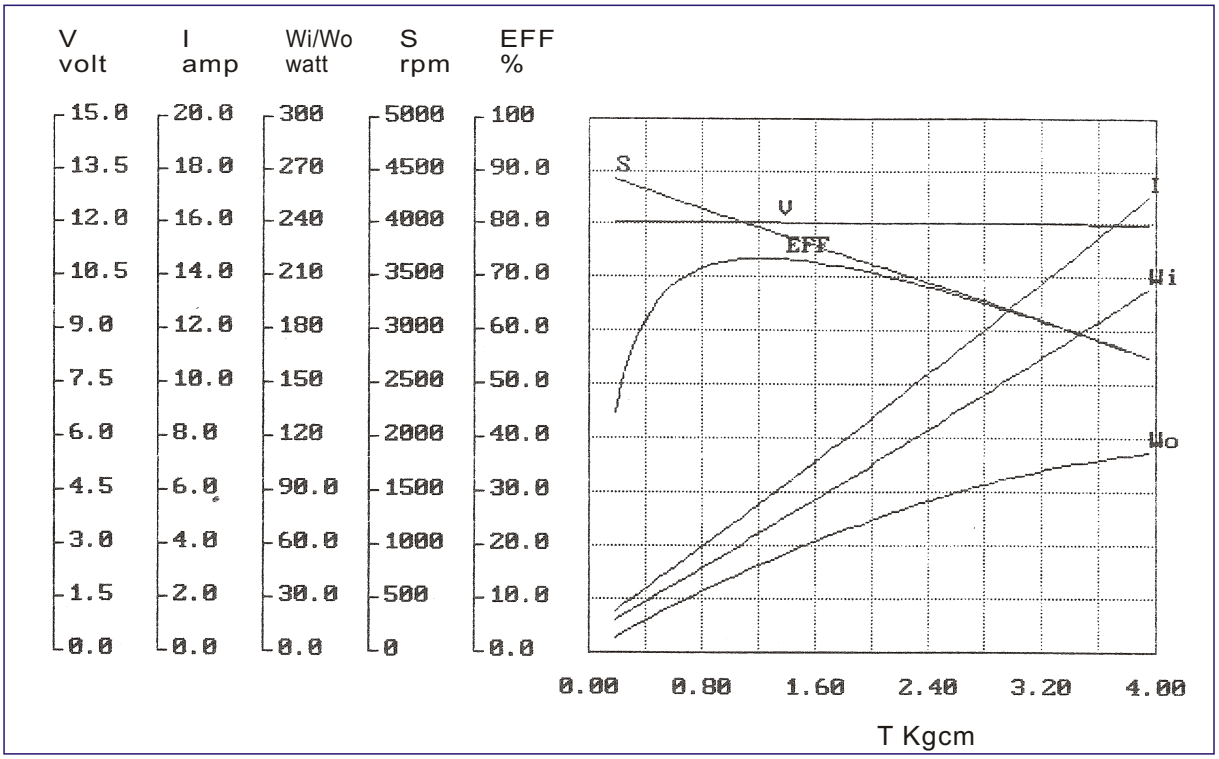
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	4400	24.03	1.32	31.7	0.28	12.6	39.7
2	4263	24.03	1.90	45.7	0.58	25.4	55.6
3	4077	24.00	2.71	65.0	0.98	41.0	63.1
4	3942	24.03	3.32	79.8	1.28	51.8	64.9
5	3761	24.03	4.18	100.4	1.68	64.8	64.5
6	3624	24.03	4.81	115.6	1.99	74.0	64.0
7	3488	24.00	5.45	130.8	2.29	82.0	62.7
8	3305	24.01	6.30	151.3	2.70	91.6	60.5
9	3163	24.00	6.96	167.0	3.00	97.4	58.3

Φ63.5mm ,12-16 Ncm , 50W
Weight : 1.2 Kg/pcs
Front Cover : Square/Circle

M5844



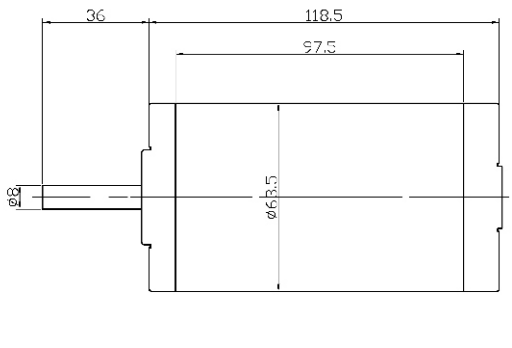
12VDC No Load 4500rpm Torque/Speed Performance Curve

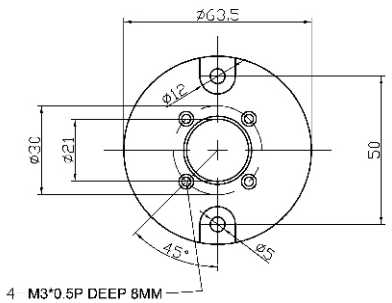


NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	4432	12.05	1.53	18.4	0.18	8.2	44.6
2	4297	12.04	2.63	31.7	0.47	20.7	65.3
3	4112	12.04	4.24	51.0	0.87	36.7	72.0
4	3973	12.04	5.43	65.4	1.17	47.7	72.9
5	3795	12.01	7.03	84.4	1.58	61.5	72.9
6	3665	12.01	8.25	99.1	1.88	70.7	71.3
7	3496	12.00	9.91	118.9	2.29	82.1	69.0
8	3364	12.01	11.17	134.2	2.59	89.4	66.6
9	3189	11.99	12.88	154.4	3.00	98.2	63.6
10	3053	11.99	14.18	170.0	3.30	103.4	60.8
11	2871	11.96	15.93	190.5	3.71	109.3	57.4
12	2723	11.96	17.26	206.4	4.01	112.0	54.3

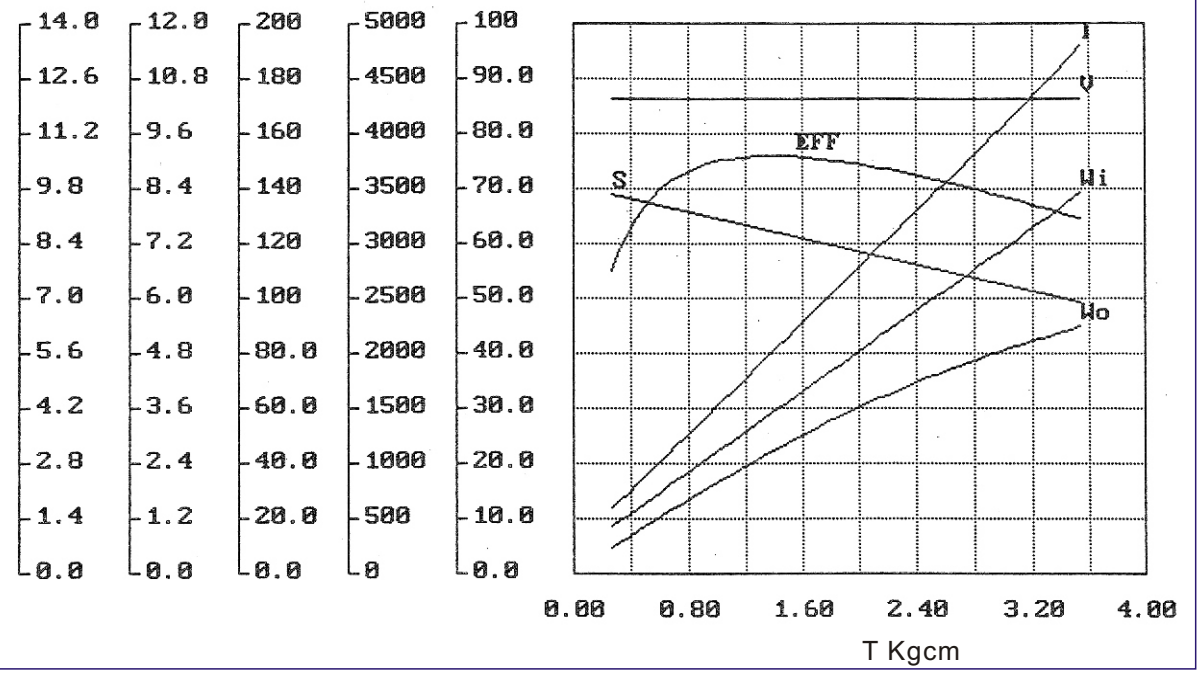
Φ63.5mm ,13-17 Ncm , 55W
Weight : 1.2 Kg/pcs
With encoder/brake available

M5850





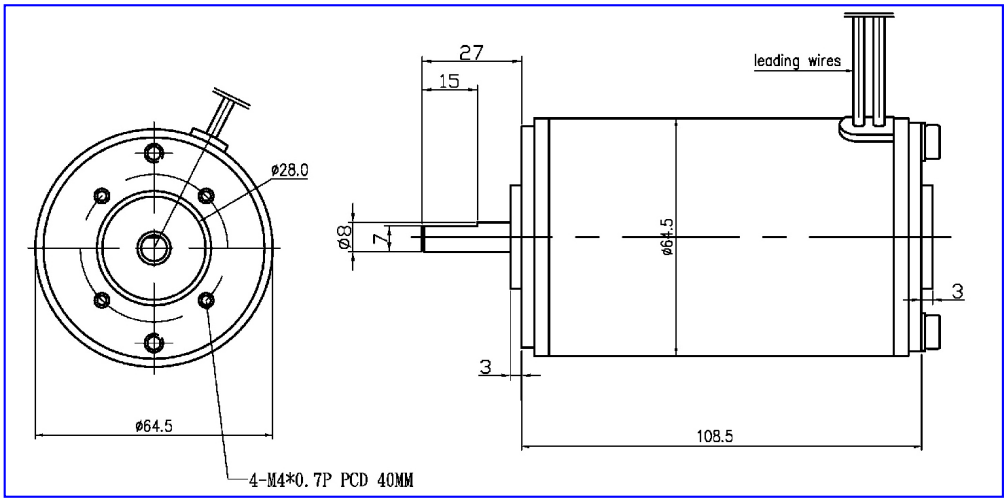
12VDC No Load 3600rpm Torque/Speed Performance Curve



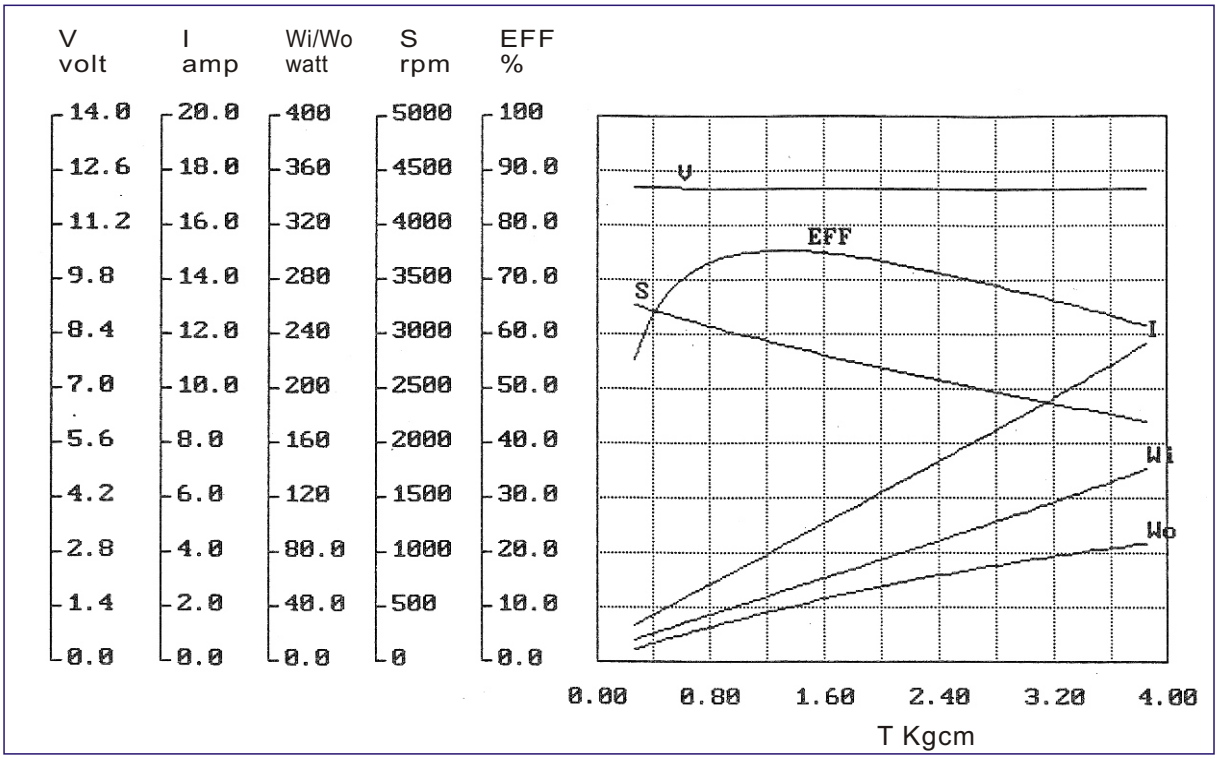
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3452	12.10	1.44	17.4	0.27	9.6	55.2
2	3301	12.10	2.92	35.3	0.76	25.7	72.8
3	3183	12.10	4.14	50.1	1.16	37.9	75.6
4	3041	12.07	5.62	67.8	1.65	51.5	76.0
5	2889	12.07	7.13	86.1	2.14	63.4	73.6
6	2773	12.07	8.38	101.1	2.54	72.3	71.5
7	2653	12.07	9.60	115.9	2.93	79.8	68.9
8	2636	12.07	9.61	116.0	2.97	80.3	69.2
9	2459	12.06	11.70	141.1	3.59	90.6	64.2

Φ64.5mm ,14-19 Ncm , 60W
Weight : 1.2 Kg/pcs
With encoder/brake available

M5946



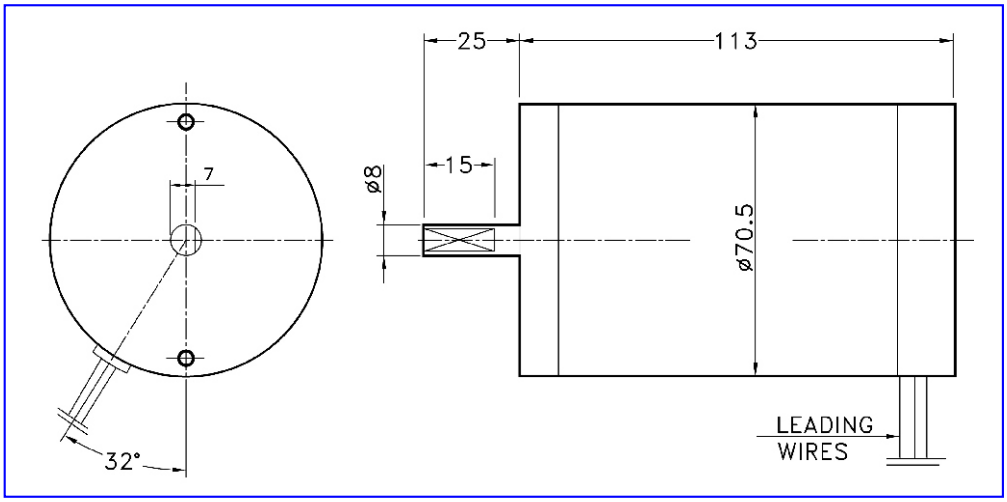
12VDC No Load 3300rpm Torque/Speed Performance Curve



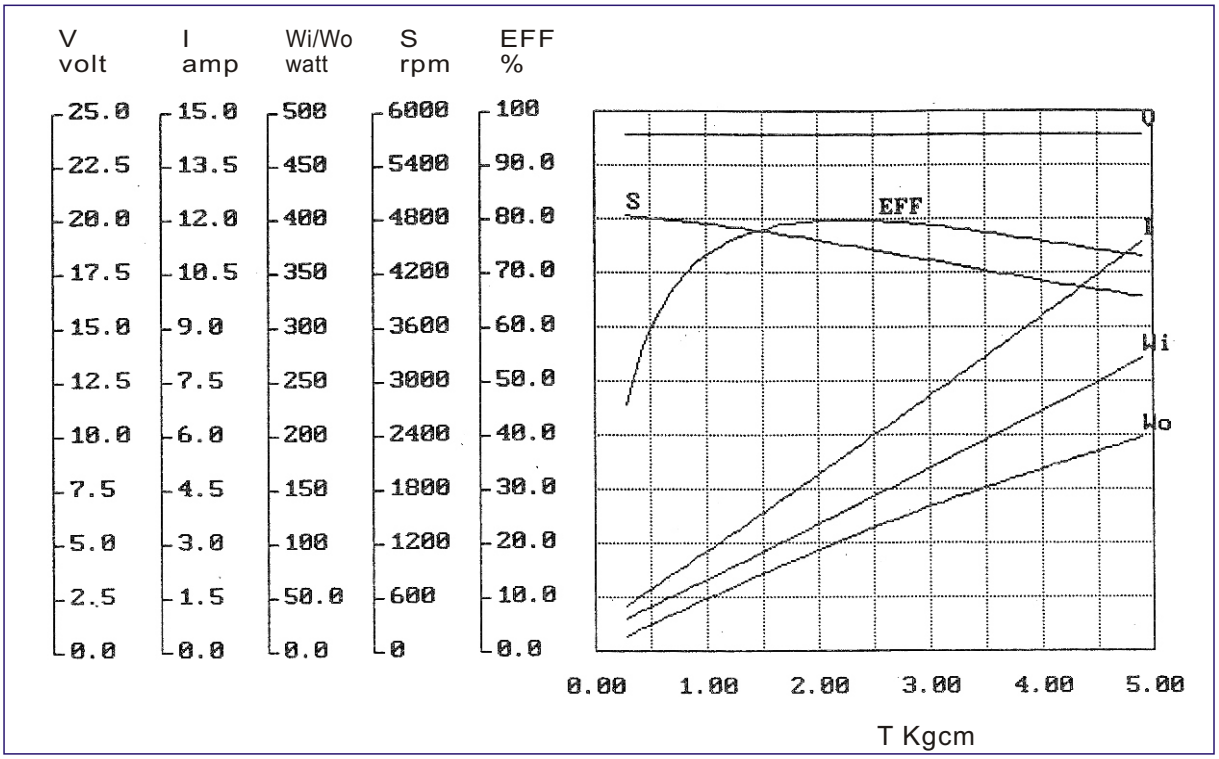
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3268	12.16	1.34	16.3	0.27	9.1	55.8
2	3085	12.16	2.74	33.3	0.76	24.1	72.4
3	2952	12.14	3.78	45.9	1.15	34.8	75.8
4	2809	12.13	5.10	61.9	1.60	46.1	74.5
5	2671	12.13	6.40	77.6	2.07	56.7	73.1
6	2562	12.13	7.47	90.6	2.46	64.7	71.4
7	2403	12.10	9.23	111.7	3.05	75.2	67.3
8	2306	12.13	10.40	126.2	3.44	81.4	64.5
9	2187	12.13	11.83	143.5	3.91	87.7	61.1

Φ 70.5mm ,15-28 Ncm , 70W
Weight : 1.5 Kg/pcs
With encoder/brake available
Front Cover : Square/Circle

M6551



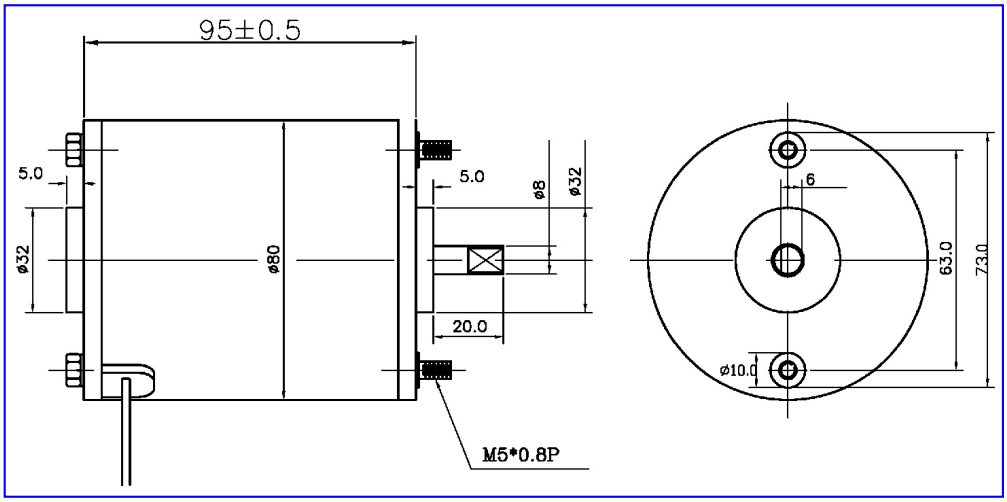
24VDC No Load 4800rpm Torque/Speed Performance Curve



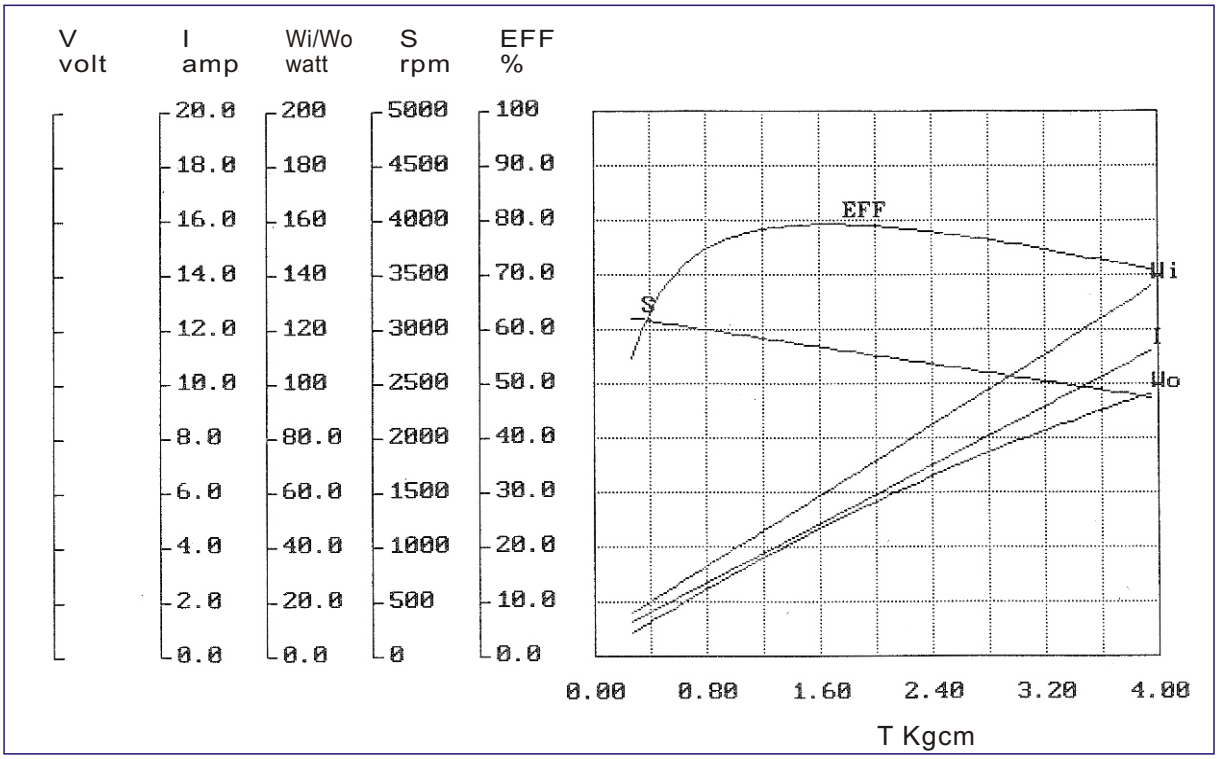
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	4815	23.94	1.27	30.4	0.28	12.3	33.9
2	4796	23.92	2.50	59.8	0.87	42.8	71.6
3	4660	23.94	3.81	91.2	1.48	70.8	77.6
4	4525	23.94	5.10	122.1	2.09	97.0	79.4
5	4395	23.91	6.42	153.5	2.70	121.8	79.3
6	4290	23.93	7.53	180.2	3.20	140.8	78.1
7	4162	23.91	8.86	211.8	3.81	162.7	76.8
8	4035	23.91	10.24	244.8	4.41	182.6	74.6
9	3912	23.89	11.53	275.5	4.98	199.9	72.6

Φ 80mm , 16-30 Ncm , 80W
Weight : 1.7 Kg/pcs

KR7135



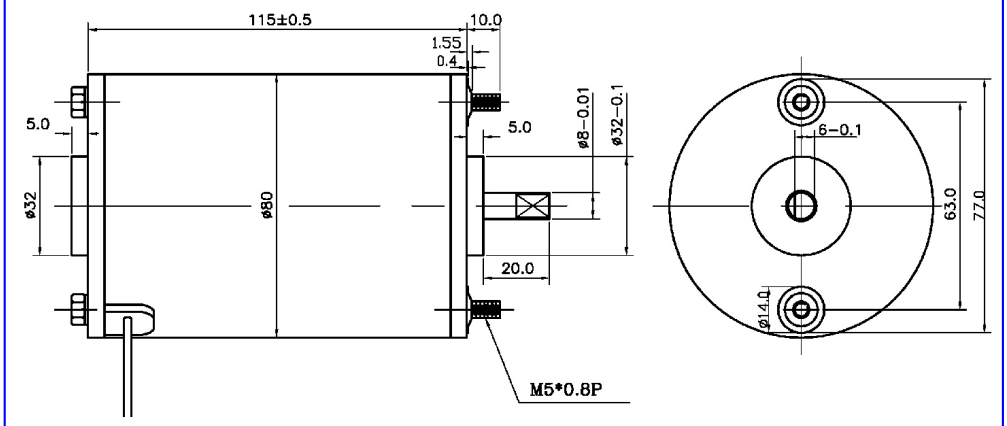
12VDC No Load 3150rpm Torque/Speed Performance Curve



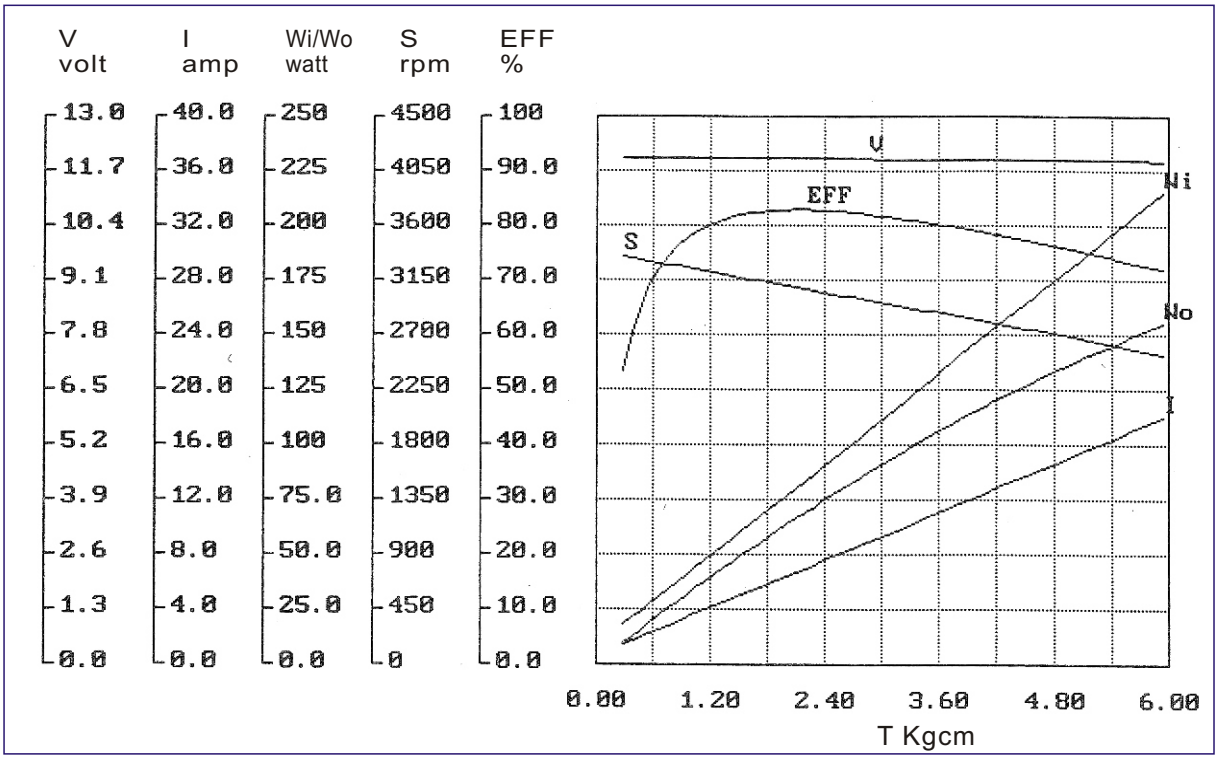
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3107	12.16	1.29	15.7	0.27	8.6	54.8
2	3007	12.16	2.64	32.1	0.77	23.8	74.1
3	2926	12.14	3.72	45.2	1.17	35.1	77.7
4	2821	12.10	5.05	61.1	1.68	48.6	79.5
5	2724	12.13	6.42	77.9	2.19	61.2	78.6
6	2639	12.10	7.52	91.0	2.59	70.1	77.0
7	2542	12.10	8.89	107.6	3.10	80.9	75.2
8	2463	12.10	9.99	120.9	3.50	88.4	73.1
9	2362	12.10	11.38	137.7	4.01	97.2	70.6

φ80mm ,26-36 Ncm , 120W
Weight : 2 Kg/pcs

KR7152



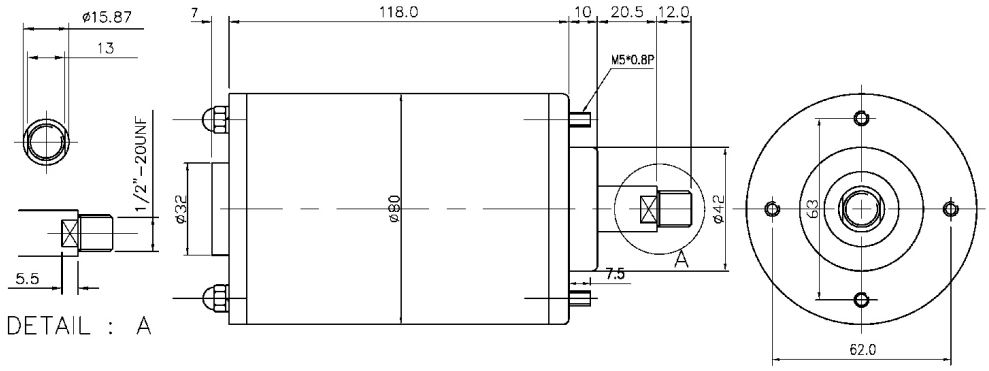
12VDC No Load 3400rpm Torque/Speed Performance Curve



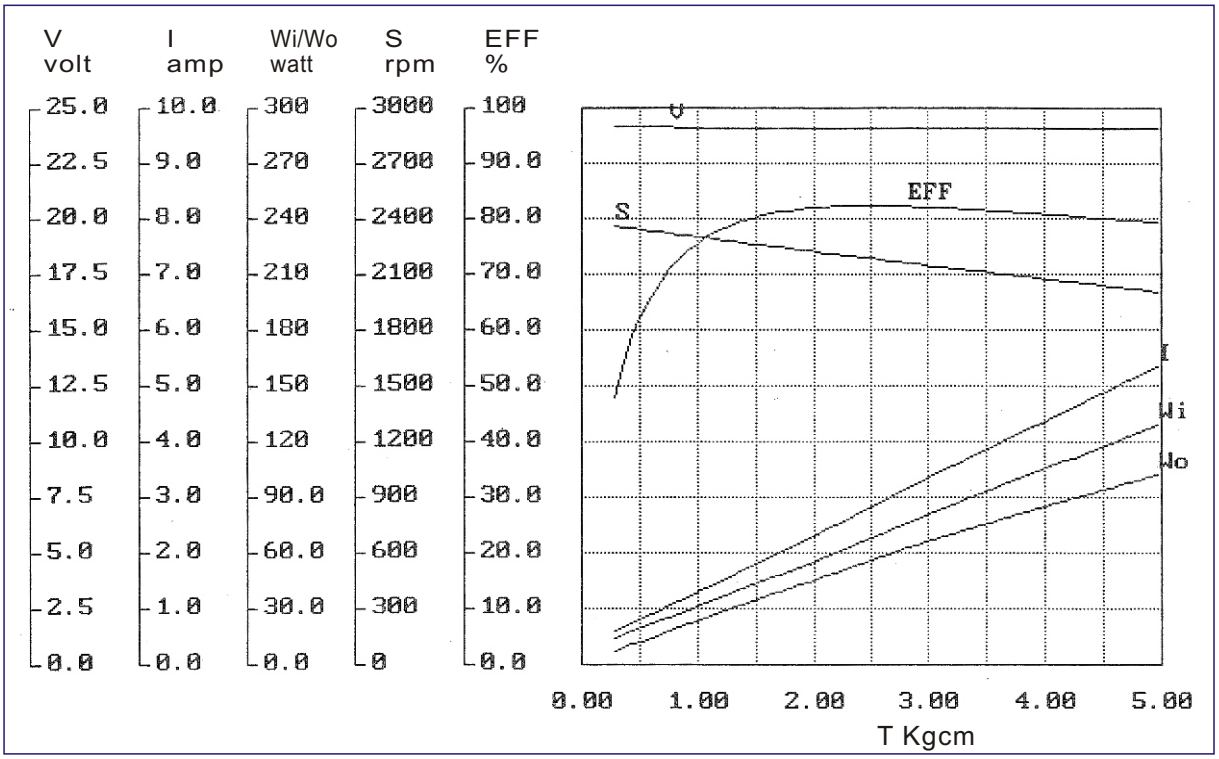
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3345	12.01	1.48	17.8	0.28	9.6	53.9
2	3255	12.01	3.34	40.1	0.92	30.7	76.6
3	3153	11.99	5.42	65.0	1.64	53.1	81.7
4	3061	11.99	7.20	86.3	2.30	72.2	83.7
5	2944	11.99	9.76	117.0	3.15	95.1	81.3
6	2839	11.96	11.92	142.6	3.88	113.0	79.2
7	2736	11.95	14.06	168.0	4.61	129.4	77.0
8	2631	11.96	16.17	193.4	5.32	143.6	74.3
9	2527	11.93	18.31	218.4	6.03	156.3	71.6

φ80mm ,26-36 Ncm , 120W
Weight : 2 Kg/pcs

SM7152



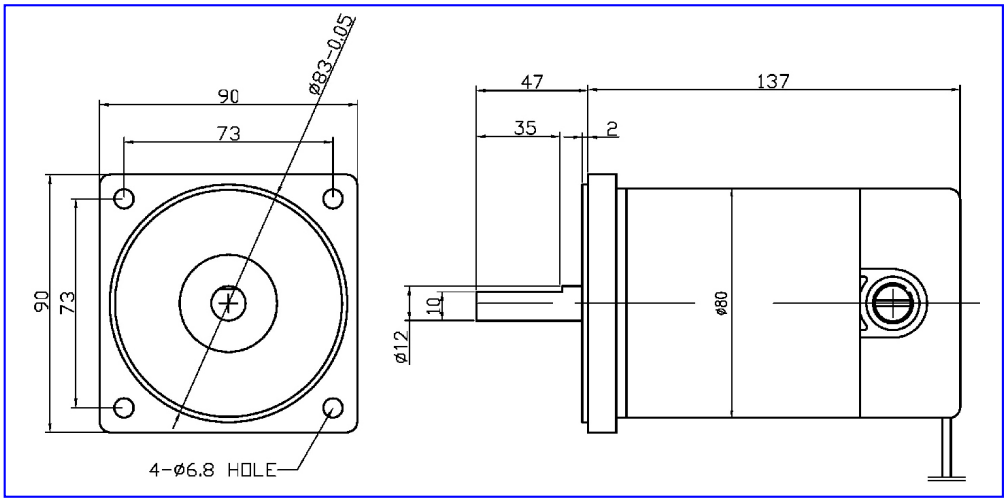
24VDC No Load 2400rpm Torque/Speed Performance Curve



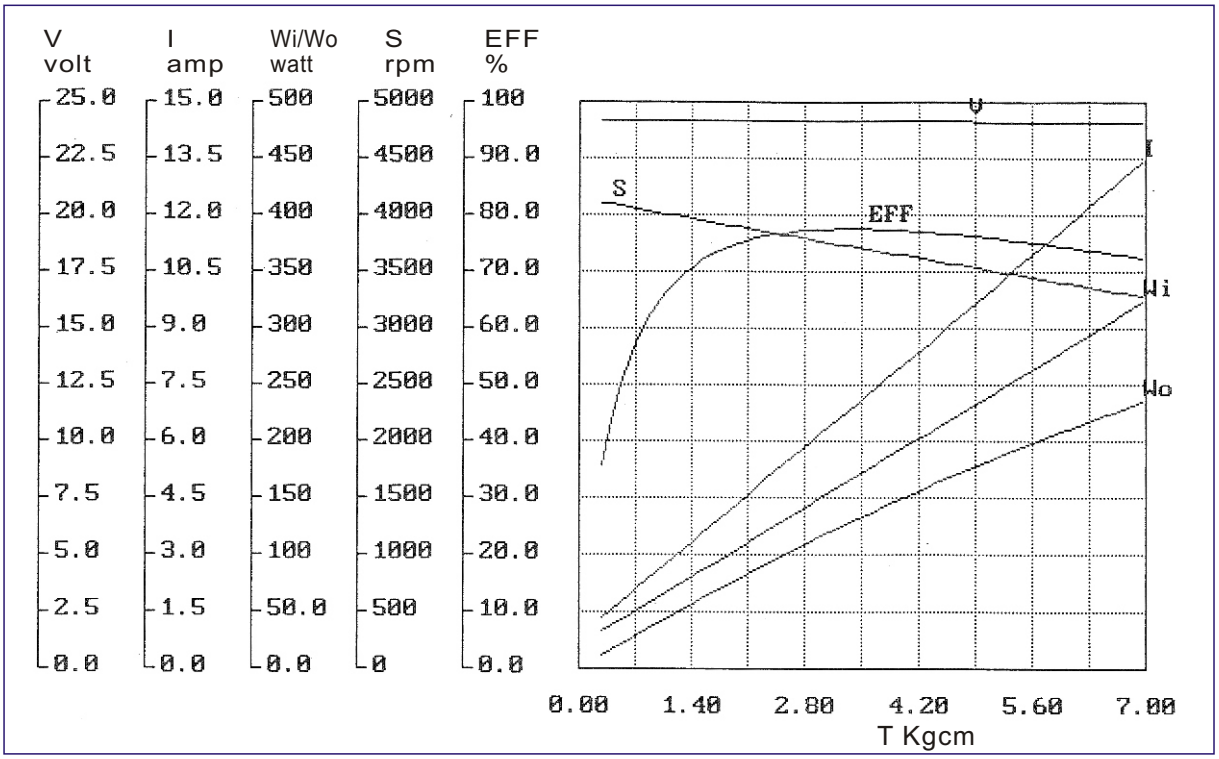
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	2359	24.17	0.59	14.3	0.28	6.8	47.6
2	2313	24.15	1.17	28.3	0.88	20.9	73.9
3	2262	24.06	1.78	42.8	1.49	34.6	80.8
4	2214	24.06	2.42	58.2	2.09	47.5	81.6
5	2172	24.09	3.03	73.0	2.70	60.2	82.5
6	2131	24.12	3.57	86.1	3.21	70.2	81.5
7	2089	24.09	4.18	100.7	3.82	81.9	81.3
8	2045	24.09	4.81	115.9	4.43	92.9	80.2
9	1998	24.09	5.42	130.6	5.04	103.3	79.1

Φ 80mm ,26-36 Ncm , 120W
Weight : 2.4 Kg/pcs
With encoder/brake available
Front Cover : Square/Circle

F7147H



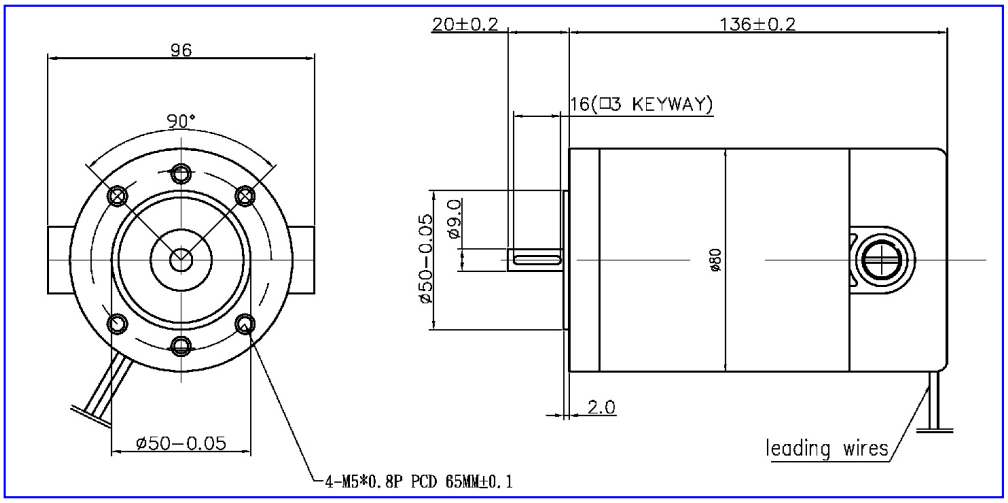
24VDC No Load 4100rpm Torque/Speed Performance Curve



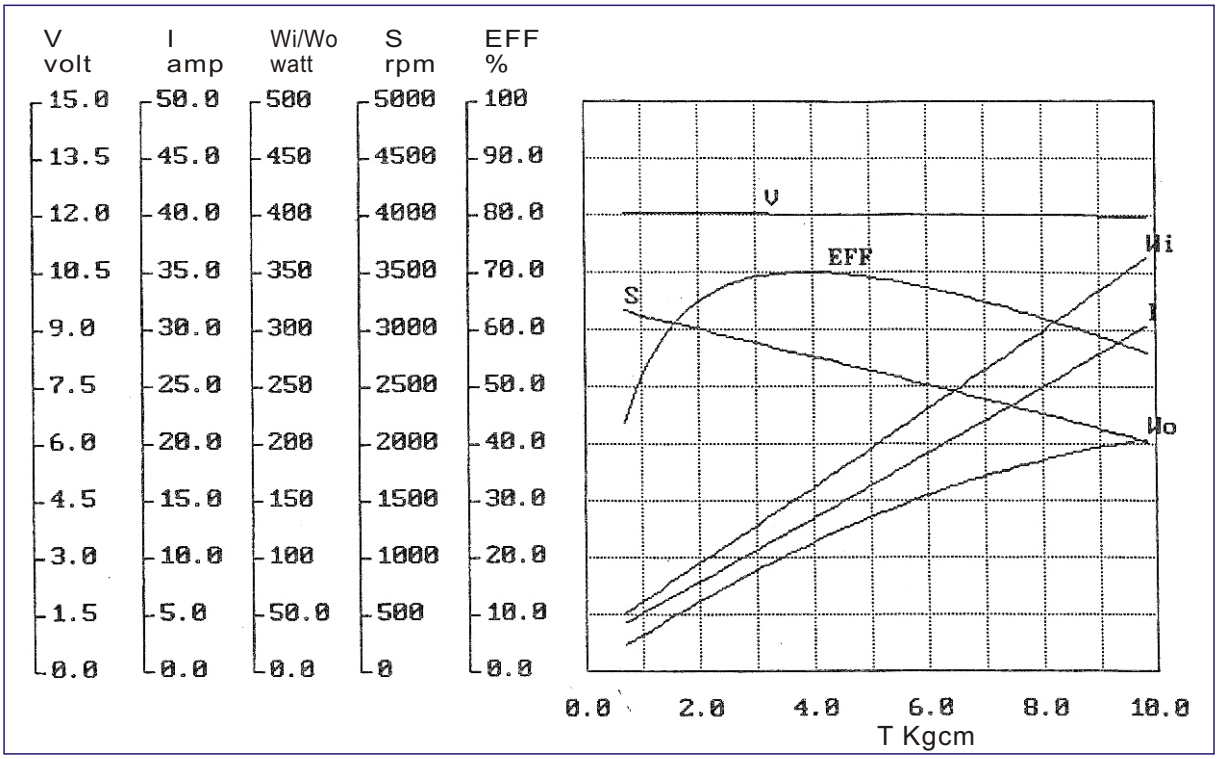
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	4105	24.18	1.37	33.1	0.28	11.8	35.6
2	4008	24.13	2.76	66.6	1.08	44.4	66.7
3	3893	24.15	4.38	105.8	1.99	79.5	75.1
4	3791	24.15	5.86	141.5	2.80	108.9	77.0
5	3679	24.12	7.52	181.4	3.72	140.4	77.4
6	3581	24.12	8.99	216.8	4.53	166.4	76.8
7	3479	24.12	10.48	252.8	5.35	191.0	75.6
8	3370	24.12	12.14	292.8	6.26	216.4	73.9
9	3268	24.09	13.63	328.3	7.07	237.1	72.2

Φ 80mm ,30-55 Ncm , 150W
Weight : 2.4 Kg/pcs
With encoder/brake available
Front Cover : Square/Circle

M7152H



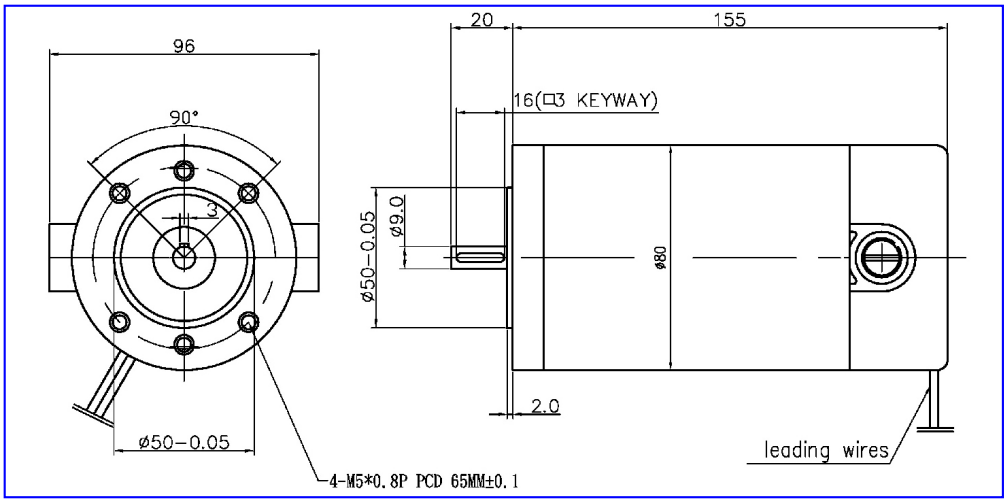
24VDC No Load 3200rpm Torque/Speed Performance Curve



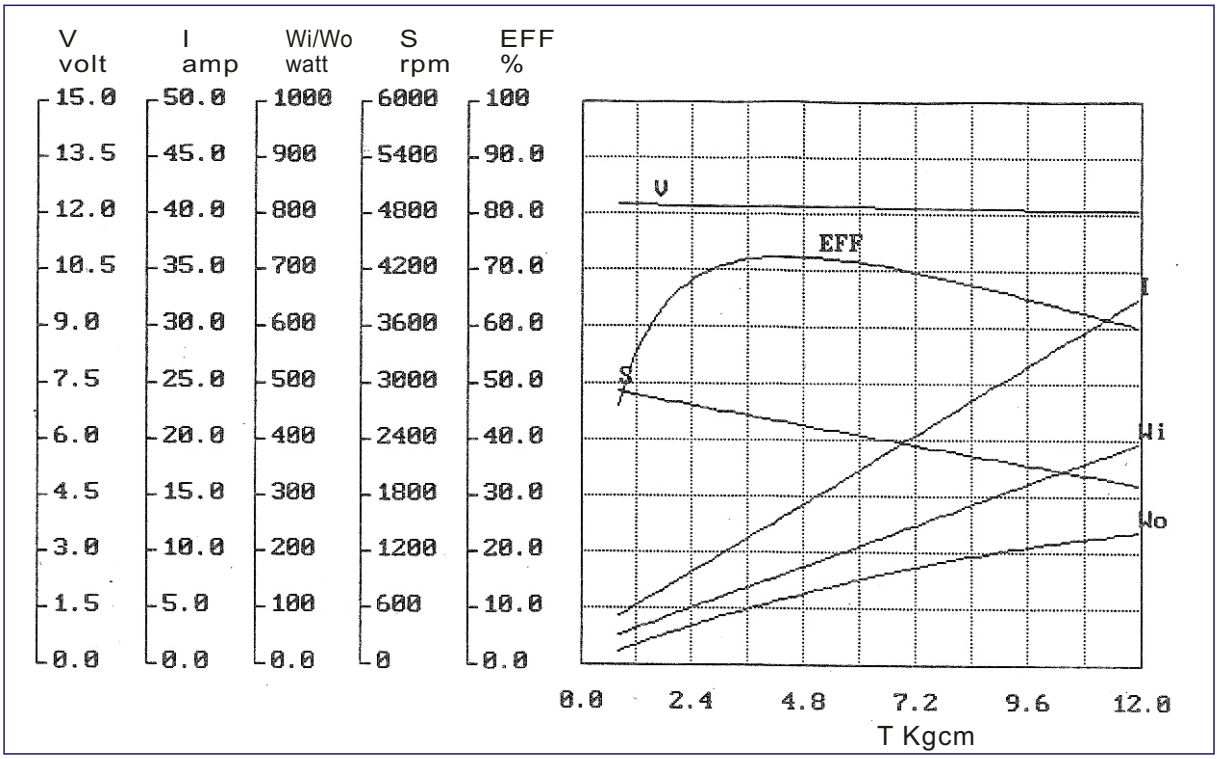
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3152	12.07	4.42	53.3	0.70	22.7	42.6
2	3033	12.04	7.17	86.3	1.80	56.0	64.9
3	2897	12.04	10.35	124.6	2.90	86.2	69.2
4	2779	12.02	13.24	159.1	3.90	111.0	69.8
5	2649	12.01	16.06	192.9	4.90	133.2	69.1
6	2530	11.99	18.71	224.3	5.80	150.6	67.1
7	2333	11.99	23.55	282.4	7.50	179.5	63.6
8	2216	11.99	25.97	311.4	8.40	191.0	61.3
9	1995	11.96	30.92	369.8	10.00	204.7	55.4

Φ 80mm ,30-60 Ncm , 200W
Weight : 2.5 Kg/pcs
With encoder/brake available
Front Cover : Square/Circle

M7165



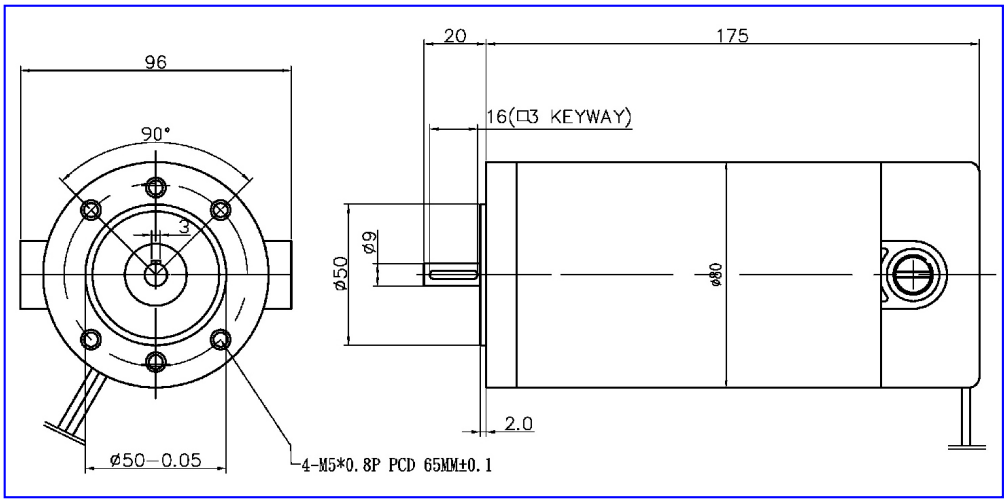
12VDC No Load 3000rpm Torque/Speed Performance Curve



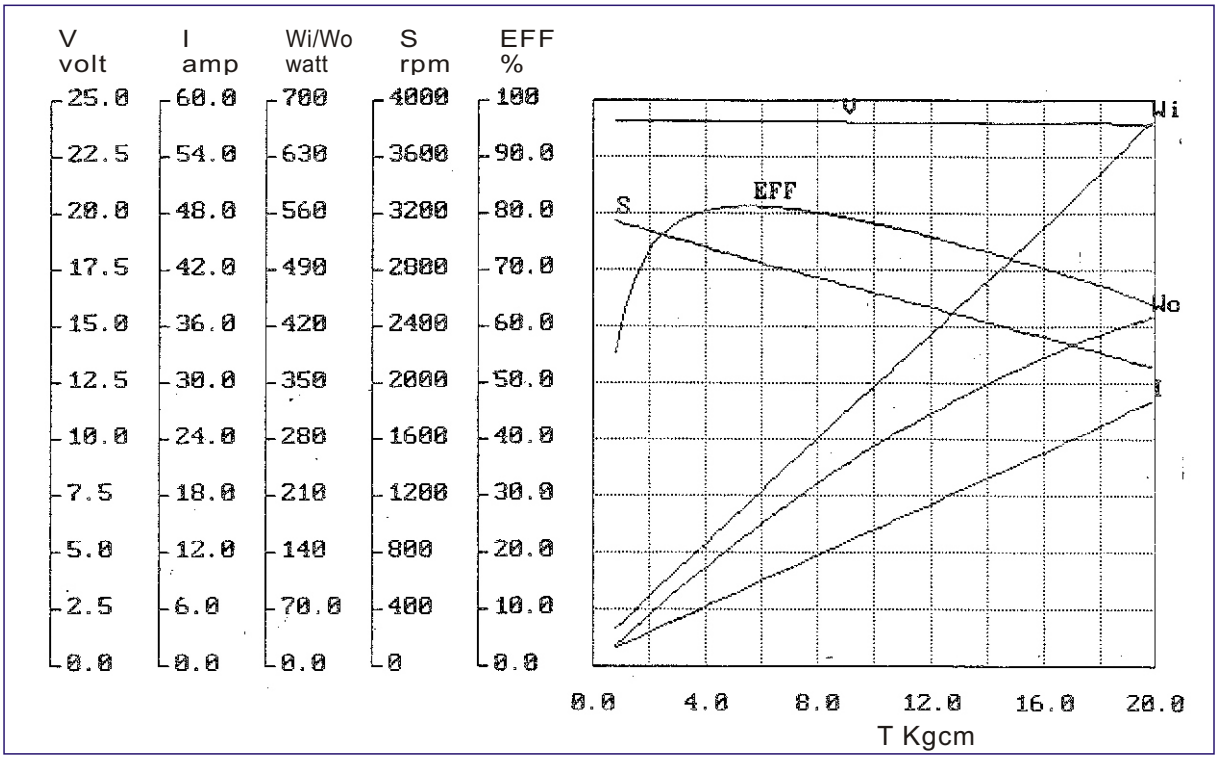
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	2910	12.23	4.31	52.7	0.80	23.9	45.4
2	2781	12.22	7.86	96.0	2.30	65.6	68.3
3	2652	12.21	11.44	139.7	3.70	100.7	72.1
4	2534	12.19	14.81	180.5	5.00	130.0	72.0
5	2408	12.16	18.44	224.2	6.40	158.1	70.5
6	2285	12.16	22.12	269.0	7.90	185.2	68.8
7	2155	12.13	25.86	313.7	9.30	205.6	65.5
8	2038	12.11	29.26	354.3	10.70	223.7	63.1
9	1909	12.07	32.96	397.8	12.10	237.0	59.6

Φ80mm ,40-75 Ncm , 230W
Weight : 2.8 Kg/pcs
With encoder/brake available
Front Cover : Square/Circle

M7185



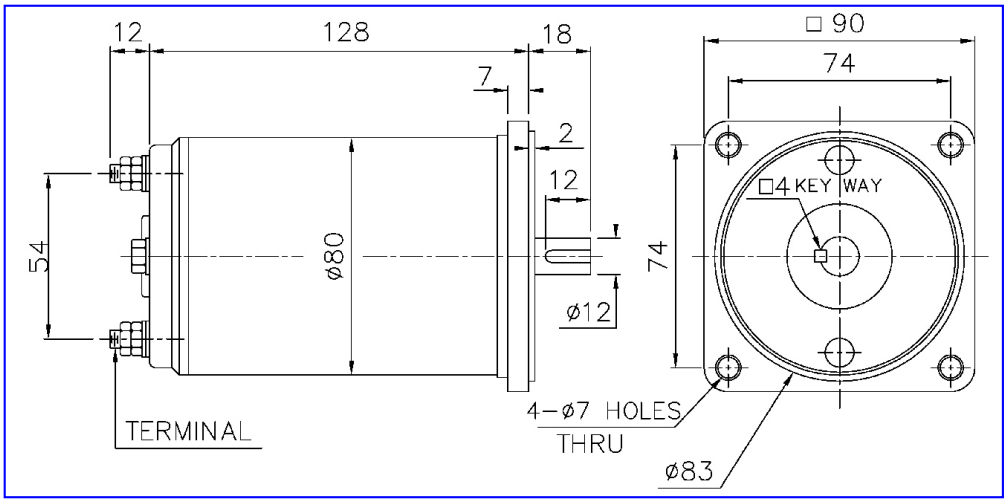
24VDC No Load 3200rpm Torque/Speed Performance Curve



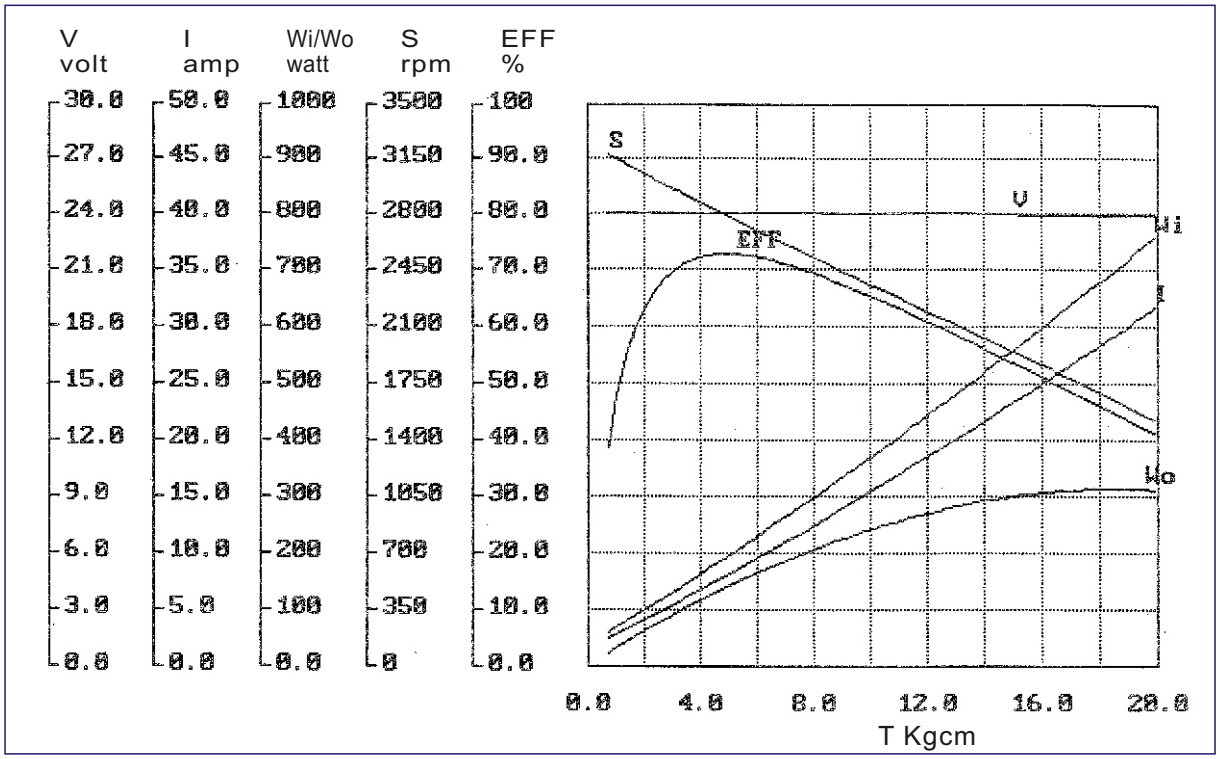
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3146	24.09	1.93	46.5	0.80	25.8	55.5
2	3003	24.10	5.20	125.3	3.20	98.6	78.7
3	2867	24.06	8.53	205.2	5.70	167.7	81.7
4	2741	24.06	11.74	282.5	8.00	225.0	79.6
5	2614	24.03	15.09	362.6	10.50	281.6	77.7
6	2486	24.00	18.45	442.8	13.00	331.6	74.9
7	2356	23.97	21.86	524.0	15.40	372.3	71.0
8	2232	23.97	25.14	602.6	17.80	407.6	67.6
9	2096	23.95	28.54	683.5	20.20	434.4	63.6

φ80mm ,40-75 Ncm , 230W
Weight : 2.4 Kg/pcs

MT7255-3



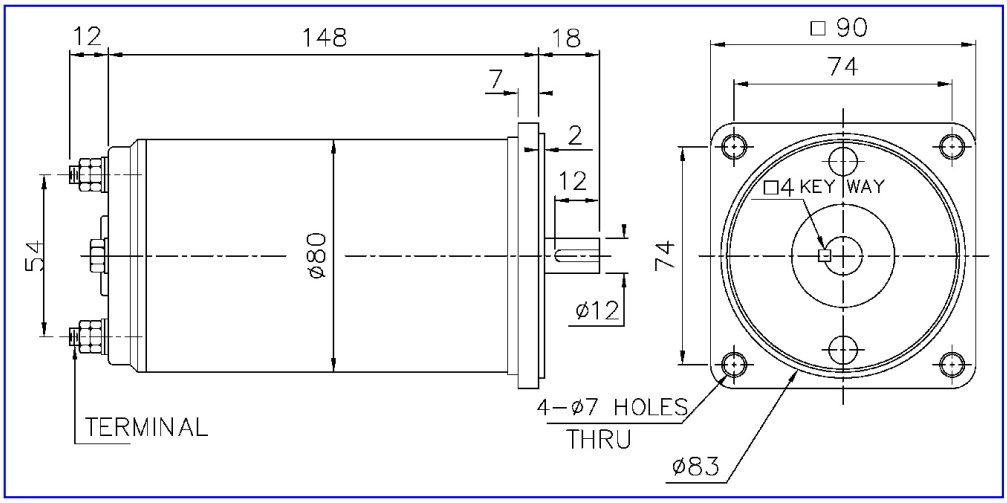
24VDC No Load 3200rpm Torque/Speed Performance Curve



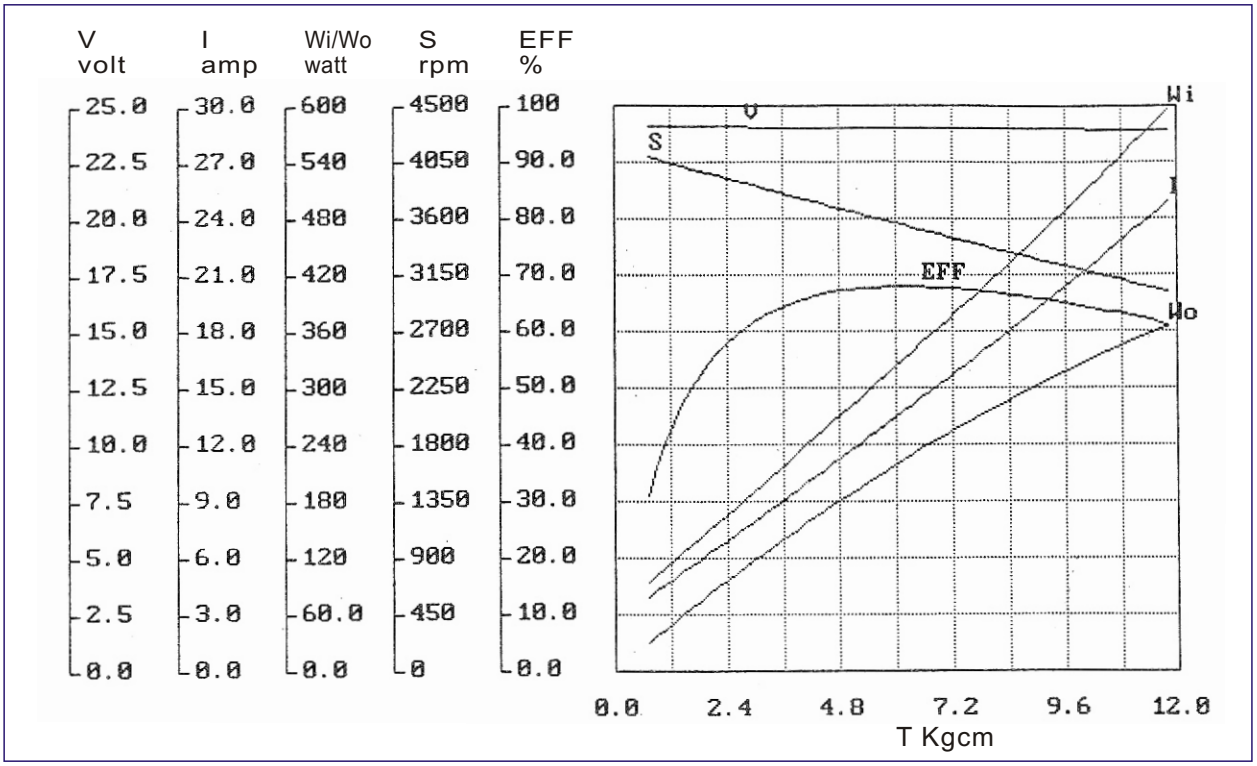
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3175	24.06	2.47	59.4	0.70	22.8	38.4
2	3019	24.03	4.62	111.0	2.40	74.3	66.9
3	2844	24.03	7.23	173.7	4.30	125.5	72.3
4	2664	24.02	10.02	240.7	6.30	172.2	71.5
5	2499	24.01	12.84	308.3	8.30	212.8	69.0
6	2331	24.00	15.88	381.1	10.30	246.3	64.6
7	2165	23.98	18.93	453.9	12.30	273.2	60.2
8	2000	23.95	22.21	531.9	14.30	293.4	55.2
9	1847	23.94	25.44	609.0	16.30	308.9	50.7
10	1672	23.92	28.87	690.6	18.30	313.9	45.5
11	1494	23.92	32.15	769.0	20.20	309.6	40.3

φ80mm ,45-80 Ncm , 250W
Weight : 2.6 Kg/pcs

MT7255-2



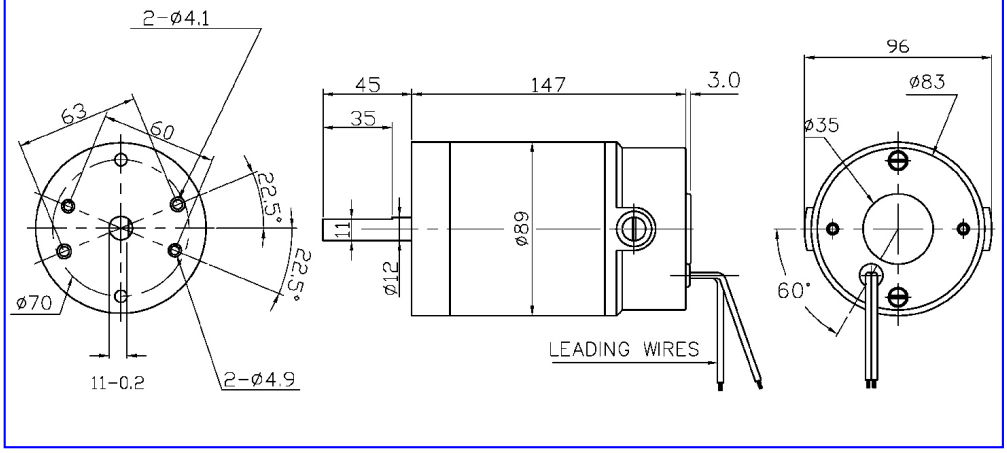
24VDC No Load 4100rpm Torque/Speed Performance Curve



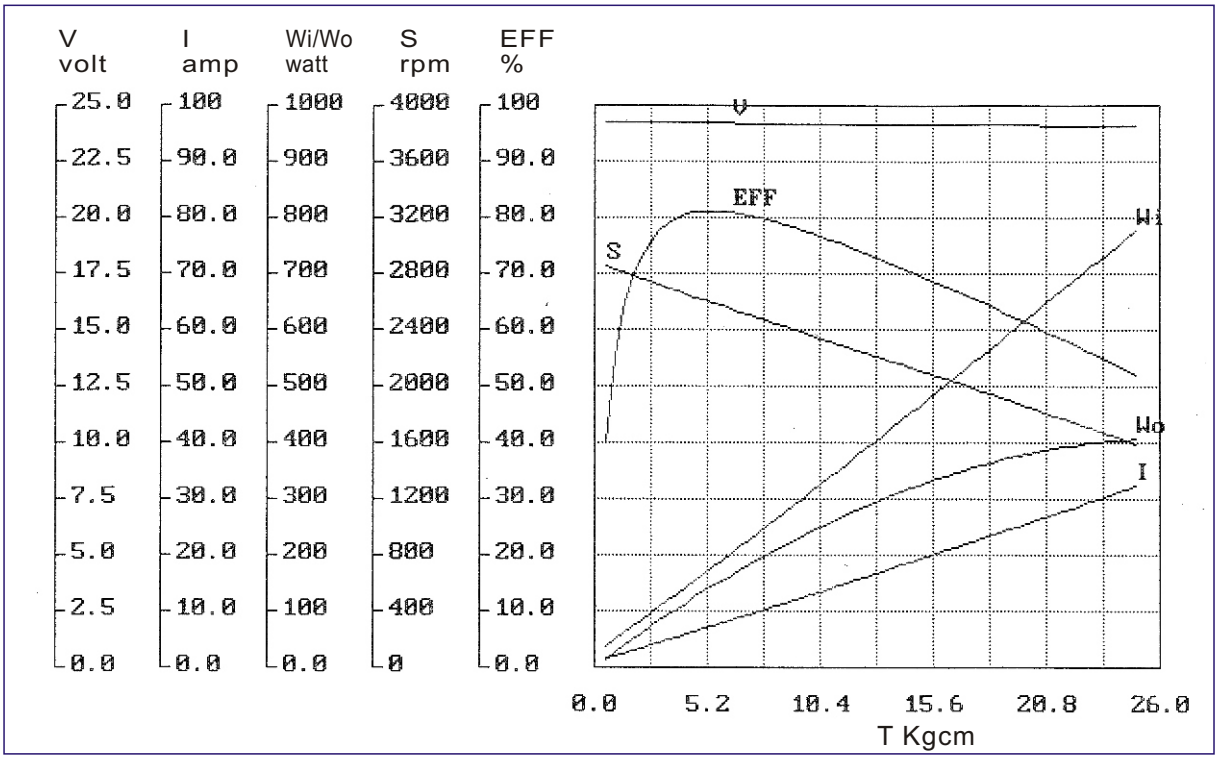
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	4092	24.08	3.99	96.1	0.70	29.4	30.6
2	3945	24.06	6.47	155.7	2.20	89.0	57.2
3	3799	24.03	9.08	218.2	3.60	140.3	64.3
4	3667	24.01	11.49	275.9	4.90	184.4	66.8
5	3525	24.00	14.16	339.8	6.40	231.5	68.1
6	3387	24.00	16.96	407.0	7.80	271.1	66.6
7	3252	23.97	19.70	472.2	9.30	310.3	65.7
8	3125	23.94	22.38	535.8	10.60	339.9	63.4
9	2990	23.92	25.37	606.9	12.00	368.1	60.7

Φ89mm ,45-80 Ncm , 250W
Weight : 2.6 Kg/pcs
With brake available

M8156



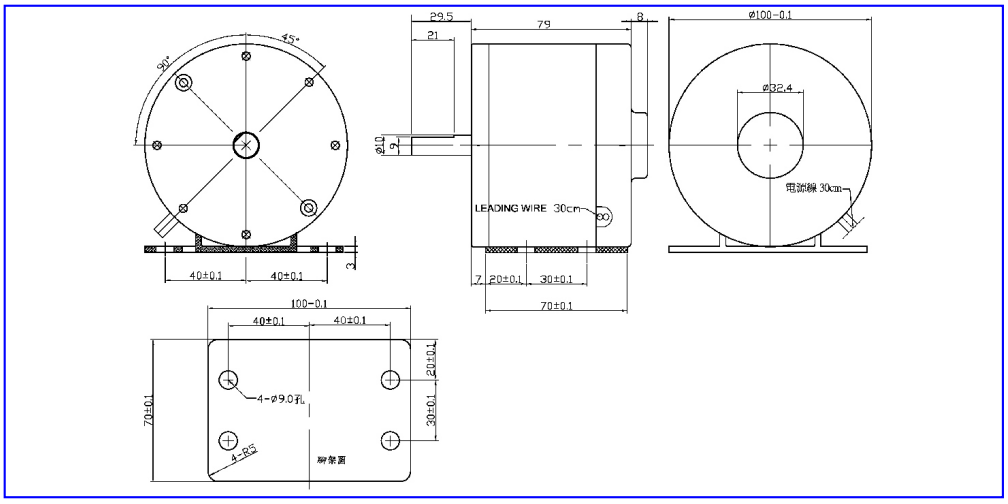
24VDC No Load 2800rpm Torque/Speed Performance Curve



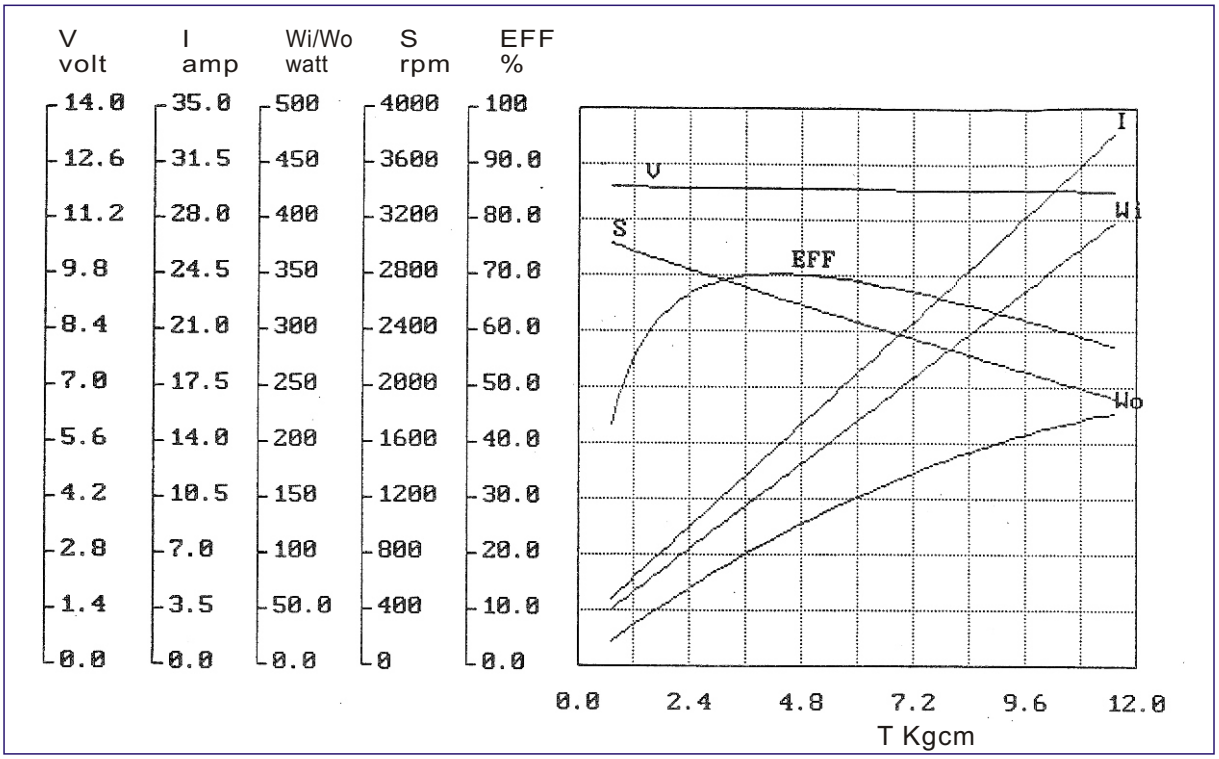
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	2854	24.25	1.46	35.4	0.50	14.6	41.2
2	2677	24.23	5.54	134.2	3.80	104.4	77.8
3	2495	24.21	9.52	230.5	7.30	186.9	81.0
4	2292	24.17	14.68	354.8	11.40	268.1	75.6
5	2117	24.15	19.12	461.7	14.90	323.6	70.1
6	2117	24.17	19.03	460.0	14.80	321.5	69.9
7	1957	24.15	23.28	562.2	18.00	361.4	64.3
8	1771	24.12	27.84	671.5	21.60	392.5	58.5
9	1563	24.07	32.86	790.9	25.30	405.7	51.3

φ100mm ,40-60 Ncm , 150W
Weight : 2 Kg/pcs
Stand : Option

M9480T



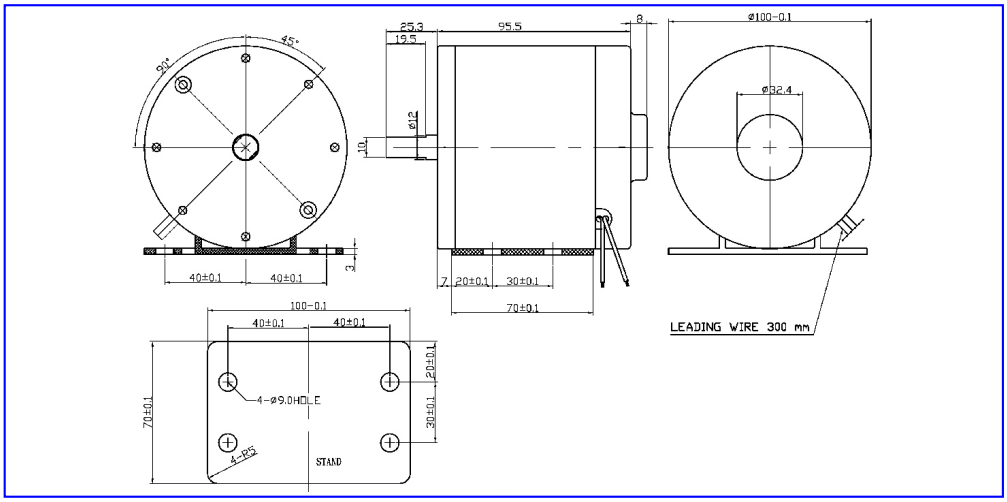
12VDC No Load 3100rpm Torque/Speed Performance Curve



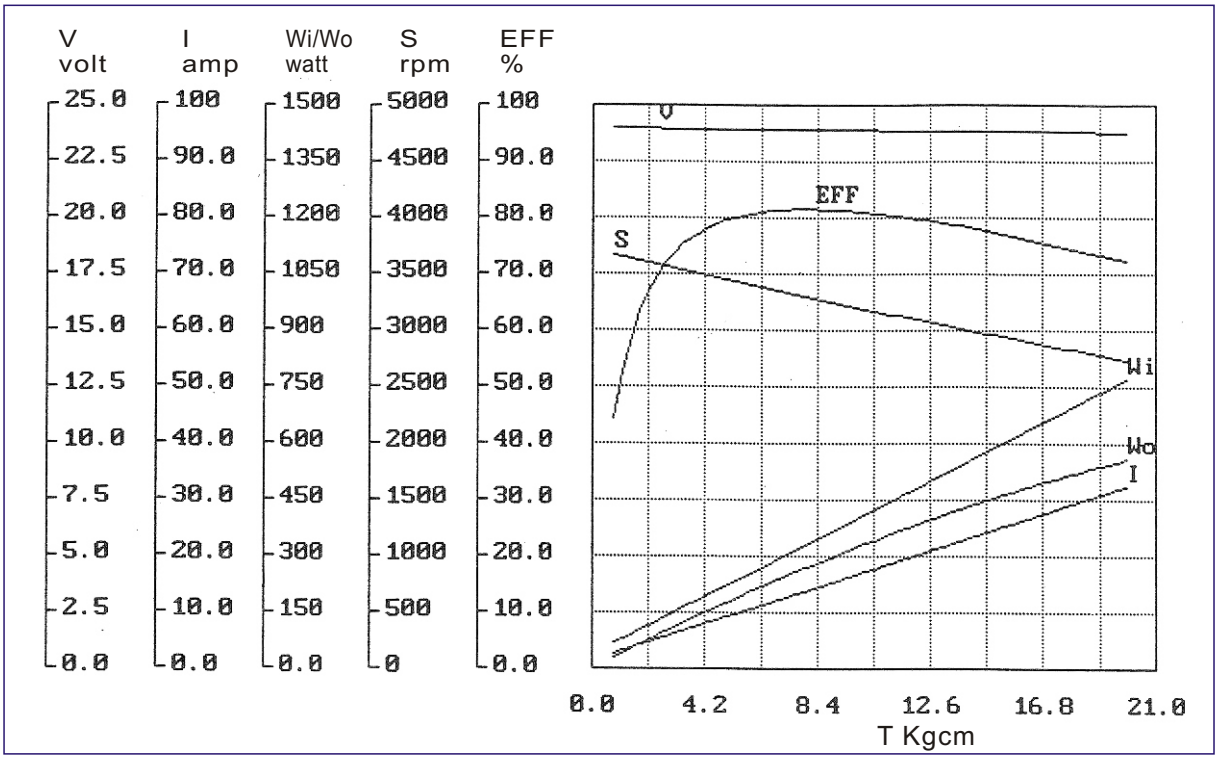
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3031	12.04	4.18	50.3	0.70	21.8	43.3
2	2877	11.99	7.71	92.4	2.00	59.0	63.9
3	2734	12.01	11.35	136.3	3.40	95.4	70.0
4	2593	11.99	15.19	182.1	4.80	129.1	70.3
5	2445	11.96	18.95	226.6	6.20	155.5	68.6
6	2306	11.96	22.74	272.0	7.60	179.8	66.1
7	2167	11.96	26.64	318.6	9.10	202.3	63.5
8	2035	11.93	30.04	358.4	10.30	215.1	60.0
9	1909	11.90	33.87	403.1	11.70	229.2	56.9

Φ100mm ,50-90 Ncm , 300W
Weight : 2.3 Kg/pcs
Stand : Option

M9480LT



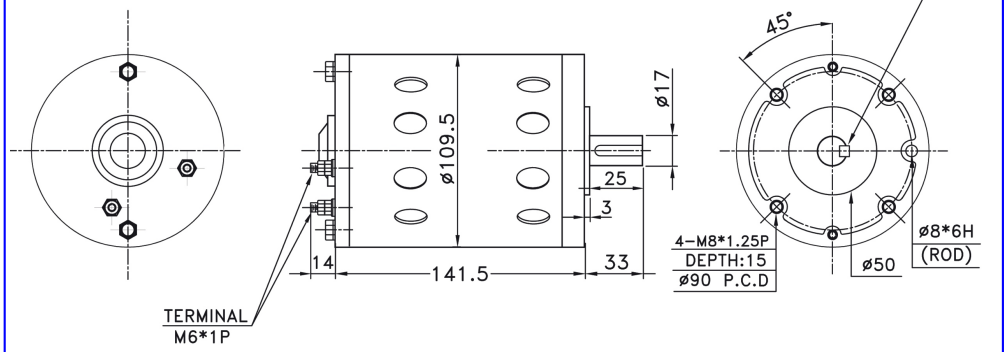
24VDC No Load 3700rpm Torque/Speed Performance Curve



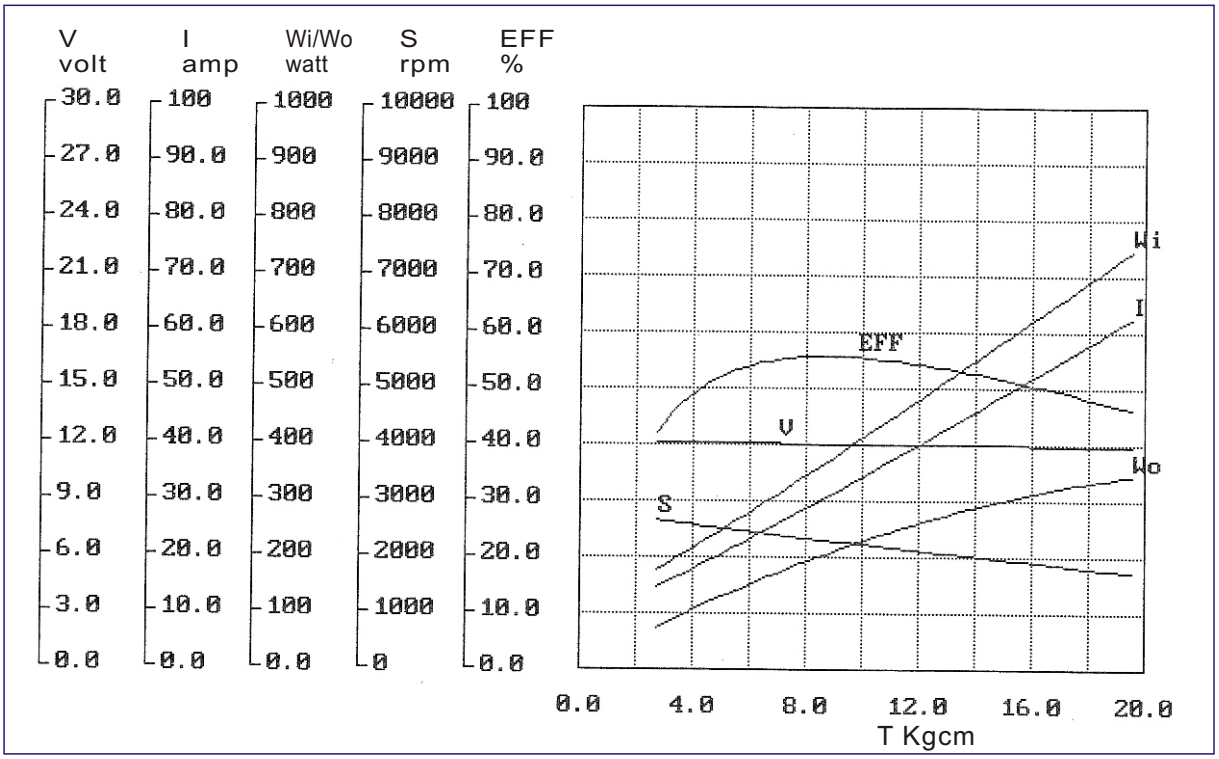
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3660	23.97	2.86	68.6	0.80	30.0	43.7
2	3533	23.95	6.59	157.8	3.30	119.6	75.8
3	3405	23.94	10.40	249.0	5.70	199.1	80.0
4	3290	23.89	13.99	334.2	8.10	273.4	81.8
5	3171	23.88	17.74	423.6	10.50	341.6	80.6
6	3057	23.84	21.45	511.4	12.90	404.6	79.1
7	2948	23.82	25.20	600.3	15.30	462.8	77.1
8	2838	23.82	28.91	688.6	17.70	515.4	74.8
9	2720	23.77	33.02	784.9	20.20	563.7	71.8

φ109.5mm ,80-140 Ncm , 350W
Weight : 3.8 Kg/pcs

M1080



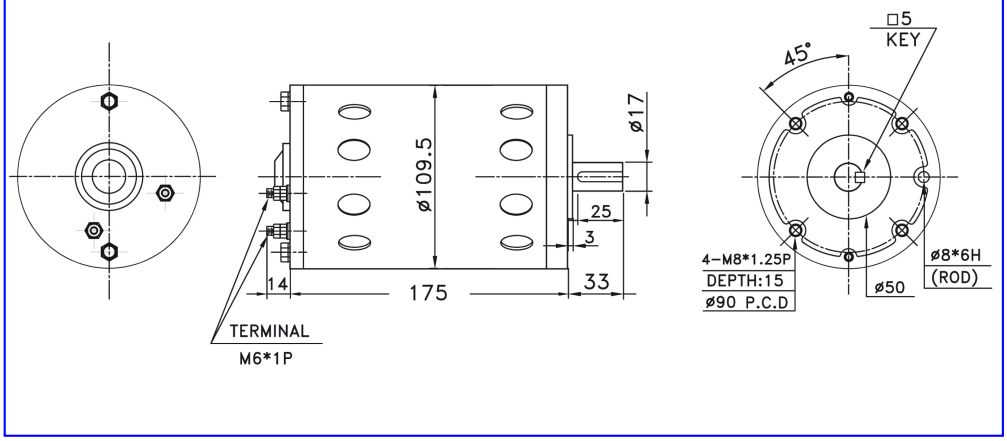
12VDC No Load 2700rpm Torque/Speed Performance Curve



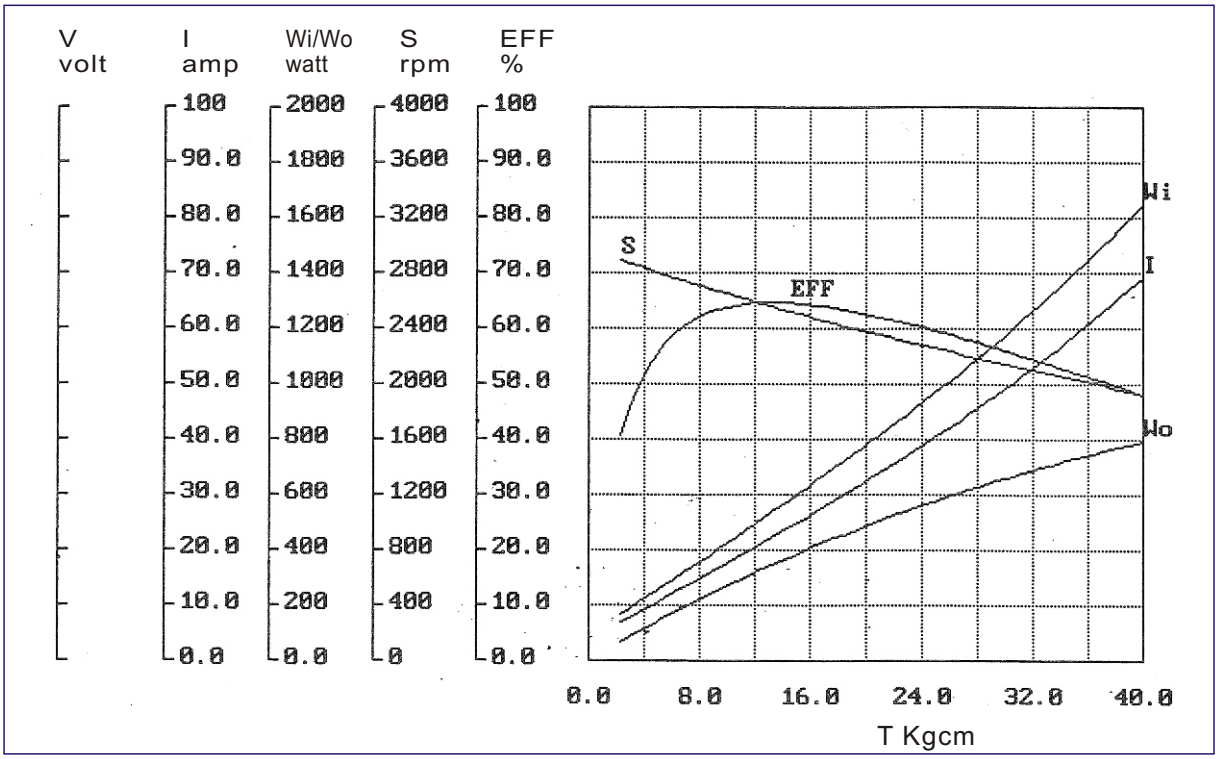
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	2658	12.10	14.51	175.6	2.70	73.6	41.9
2	2561	12.07	18.49	223.2	4.20	110.4	49.5
3	2459	12.07	22.86	275.9	5.90	148.9	54.0
4	2375	12.04	26.89	323.8	7.40	180.3	55.7
5	2284	12.04	31.44	378.5	9.00	210.9	55.7
6	2193	12.01	35.85	430.6	10.50	236.3	54.9
7	2111	11.99	40.34	483.7	12.10	262.1	54.2
8	2032	11.99	44.62	535.0	13.60	283.5	53.0
9	1953	11.96	49.32	589.9	15.20	304.6	51.6
10	1874	11.93	53.90	643.0	16.70	321.1	49.9
11	1785	11.93	58.80	701.5	18.30	335.1	47.8
12	1703	11.89	63.30	752.6	19.80	346.0	46.0

φ109.5mm ,90-160 Ncm , 500W
Weight : 5 Kg/pcs

M1084



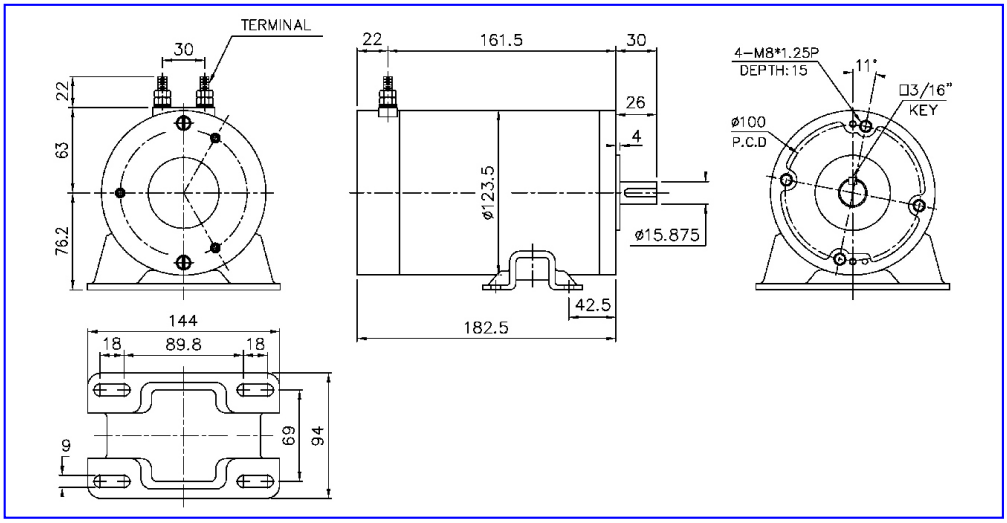
24VDC No Load 3000rpm Torque/Speed Performance Curve



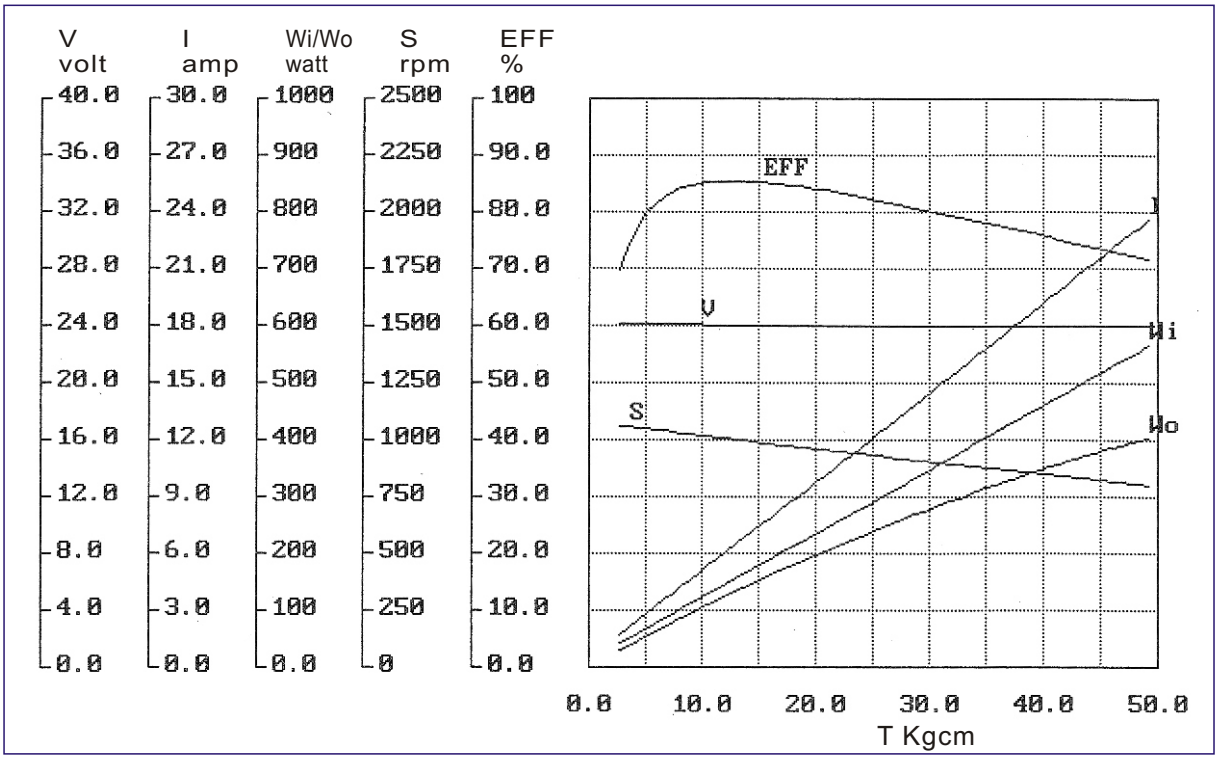
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	2886	24.18	6.86	165.9	2.30	68.1	41.0
2	2739	24.14	13.67	330.0	7.20	202.3	61.3
3	2595	24.09	20.80	501.1	12.00	319.5	63.8
4	2453	24.04	27.77	667.6	16.80	422.8	63.3
5	2335	24.03	34.58	831.0	21.60	517.5	62.3
6	2230	23.97	42.60	1021.1	26.40	604.0	59.2
7	2123	23.90	51.63	1234.0	31.30	681.8	55.3
8	2011	23.84	61.57	1467.8	36.10	744.8	50.7
9	1911	23.79	70.75	1683.1	40.90	801.9	47.6

Φ123.5mm ,120-200 Ncm , 700W
Weight : 7.5 Kg/pcs
Stand : Option

M1188R



24VDC No Load 1100rpm Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	1061	24.09	1.76	42.4	2.70	29.4	69.3
2	1030	24.06	4.16	100.1	8.00	84.5	84.4
3	1000	24.06	6.57	158.1	13.20	135.4	85.6
4	970	24.04	9.08	218.3	18.50	184.1	84.3
5	939	24.06	11.53	277.4	23.80	229.3	82.7
6	909	24.00	13.97	335.3	29.00	270.5	80.7
7	882	24.01	16.44	394.7	34.20	309.5	78.4
8	854	24.00	18.97	455.3	39.50	346.1	76.0
9	826	23.97	21.44	513.9	44.70	378.8	73.7
10	797	23.97	24.00	575.3	50.00	408.9	71.1

PLANETARY GEARED MOTOR

The principle is based on a simple planetary gear, driven by a sun gear.
The ring gear serves as the fixed link, the vertical plate as output.
Planetary gears are characterised by their symmetrical form and their coxial motor and output shafts.
We offer 5 different sizes of planetary gear units, which differ in diameter and torque.

The feature of PLANETARY GEARBOX is
HIGH degree of EFFICIENCY,
LONG LIFETIME,
Highest reliability and HIGH reserves in TORQUE CAPACITY,
with almost 200 optional gear ratio variants.

PT3928

ϕ43.5mm

Torque up to 4 Nm
Ratio (1/i) : 1/4 - 1/864

PT3929

ϕ43mm

Torque up to 4 Nm
Ratio (1/i) : 1/4 - 1/864

PT4835

ϕ54mm

Torque up to 30 Nm
Ratio (1/i) : 1/4.5 - 1/313

PT7152

ϕ80mm

Torque up to 40 Nm
Ratio (1/i) :1/6 - 1/1000

PT1188

ϕ123.5mm

Torque up to 50 Nm
Ratio (1/i) : 1/7.5 , 1/10

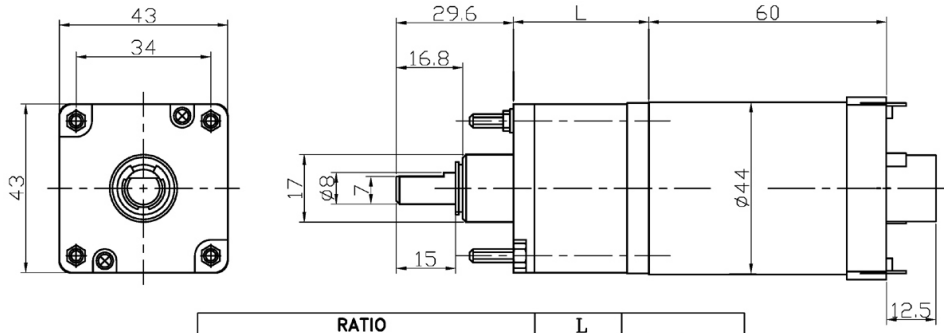
If you are not aware of how to caculate the maximum output moment, please contact us.

ϕ43.5mm

Recommended initial speed : 3,600rpm

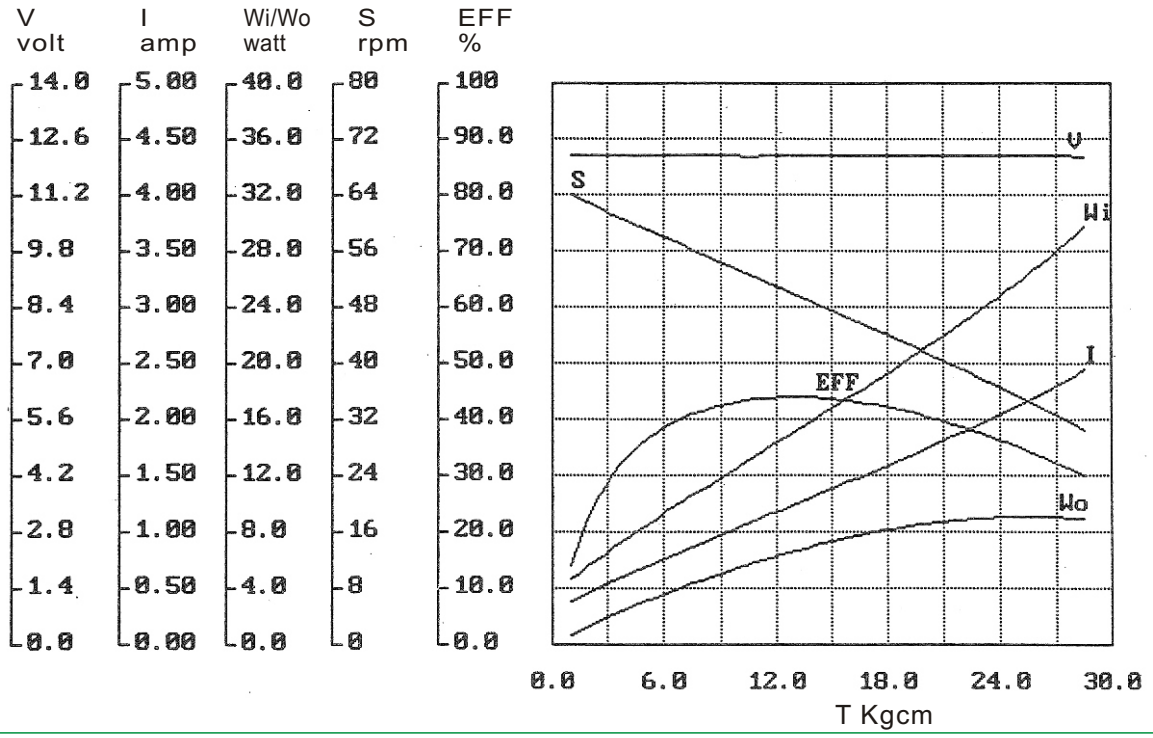
Reduction Ratio (1/i) : 1/4 - 1/864

PT3928



RATIO	L	
1/4	20.15	1 stage
1/14 , 1/24	27.85	2 stage
1/49,1/60,1/75,1/84,1/103,1/144	35.65	3 stage
1/171,1/210,1/259,1/294,1/325, 1/361,1/443,1/504,1/619,1/864	43.45	4 stage

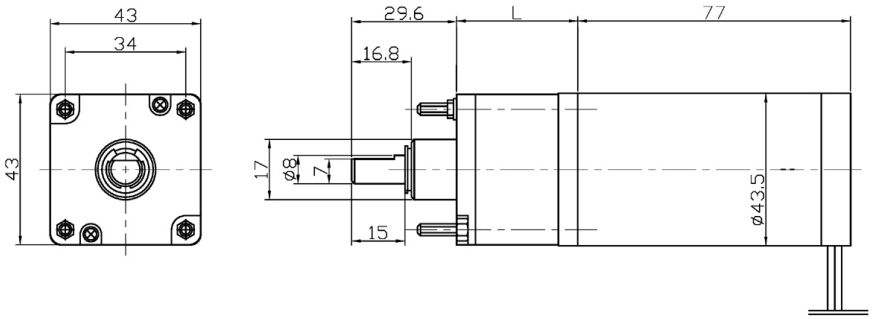
12VDC No Load 65rpm (RATIO：1/49)Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	64	12.17	0.39	4.7	1.00	0.7	14.9
2	61	12.16	0.57	6.9	3.50	2.2	31.9
3	54	12.16	0.98	11.9	9.20	5.1	42.9
4	50	12.15	1.26	15.3	13.20	6.8	44.4
5	49	12.16	1.33	16.2	14.20	7.1	43.8
6	46	12.16	1.40	17.0	15.30	7.2	42.4
7	44	12.16	1.61	19.6	18.30	8.3	42.3
8	42	12.16	1.68	20.4	19.40	8.4	41.2
9	42	12.16	1.77	21.5	20.40	8.8	40.9
10	40	12.16	1.85	22.5	21.40	8.8	39.1
11	38	12.16	1.91	23.2	22.40	8.7	37.5
12	37	12.16	1.99	24.2	23.40	8.9	36.8
13	36	12.16	2.11	25.7	24.90	9.2	35.8
14	31	12.15	2.34	28.4	27.90	8.9	31.3
15	30	12.16	2.53	30.8	29.00	8.9	28.9

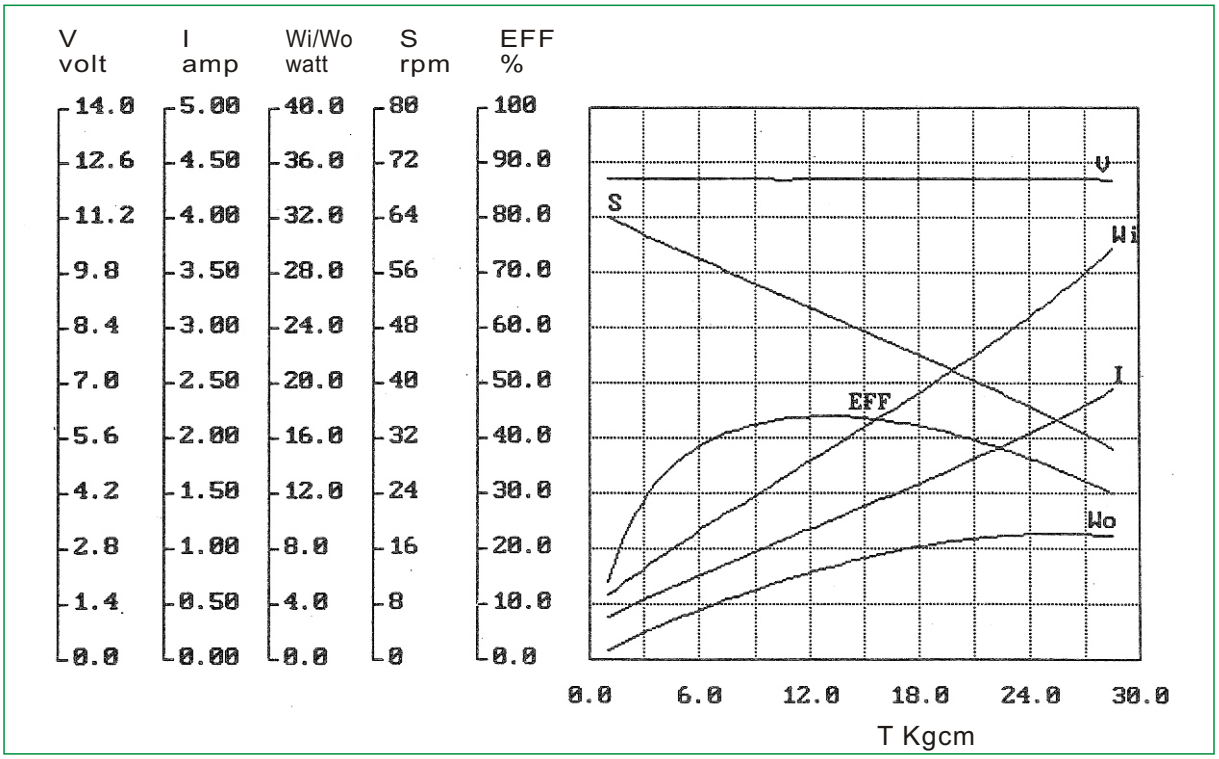
Φ 43mm
Recommended initial speed : 3,600 rpm
Reduction Ratio (1/i) : 1/4 - 1/864
With encoder available

PT3929



RATIO	L	
1/4	20.15	1 stage
1/14 , 1/24	27.85	2 stage
1/49,1/60,1/75,1/84,1/103,1/144	35.65	3 stage
1/171,1/210,1/259,1/294,1/325, 1/361,1/443,1/504,1/619,1/864	43.45	4 stage

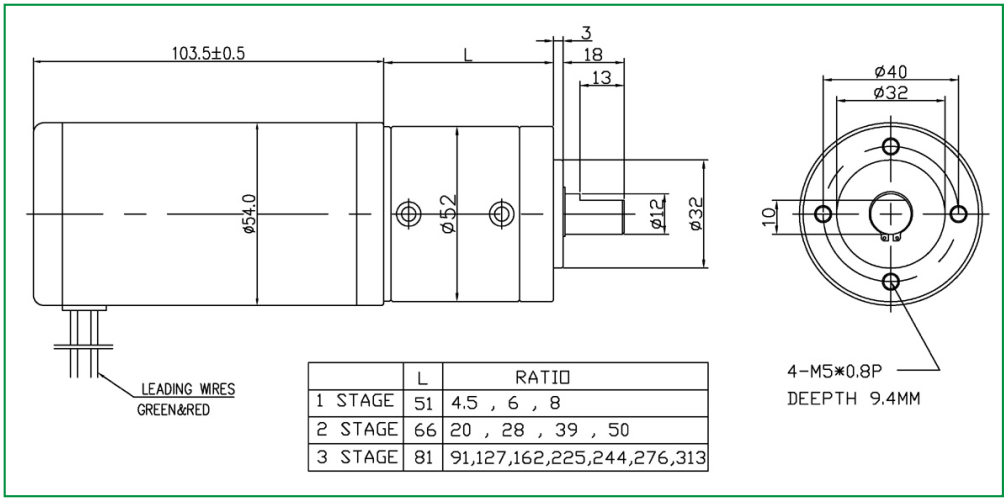
12VDC No Load 66rpm (RATIO：1/49)Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	64	12.17	0.39	4.7	1.00	0.7	14.9
2	61	12.16	0.57	6.9	3.50	2.2	31.9
3	54	12.16	0.98	11.9	9.20	5.1	42.9
4	50	12.15	1.26	15.3	13.20	6.8	44.4
5	49	12.16	1.33	16.2	14.20	7.1	43.8
6	46	12.16	1.40	17.0	15.30	7.2	42.4
7	44	12.16	1.61	19.6	18.30	8.3	42.3
8	42	12.16	1.68	20.4	19.40	8.4	41.2
9	42	12.16	1.77	21.5	20.40	8.8	40.9
10	40	12.16	1.85	22.5	21.40	8.8	39.1
11	38	12.16	1.91	23.2	22.40	8.7	37.5
12	37	12.16	1.99	24.2	23.40	8.9	36.8
13	36	12.16	2.11	25.7	24.90	9.2	35.8
14	31	12.15	2.34	28.4	27.90	8.9	31.3
15	30	12.16	2.53	30.8	29.00	8.9	28.9

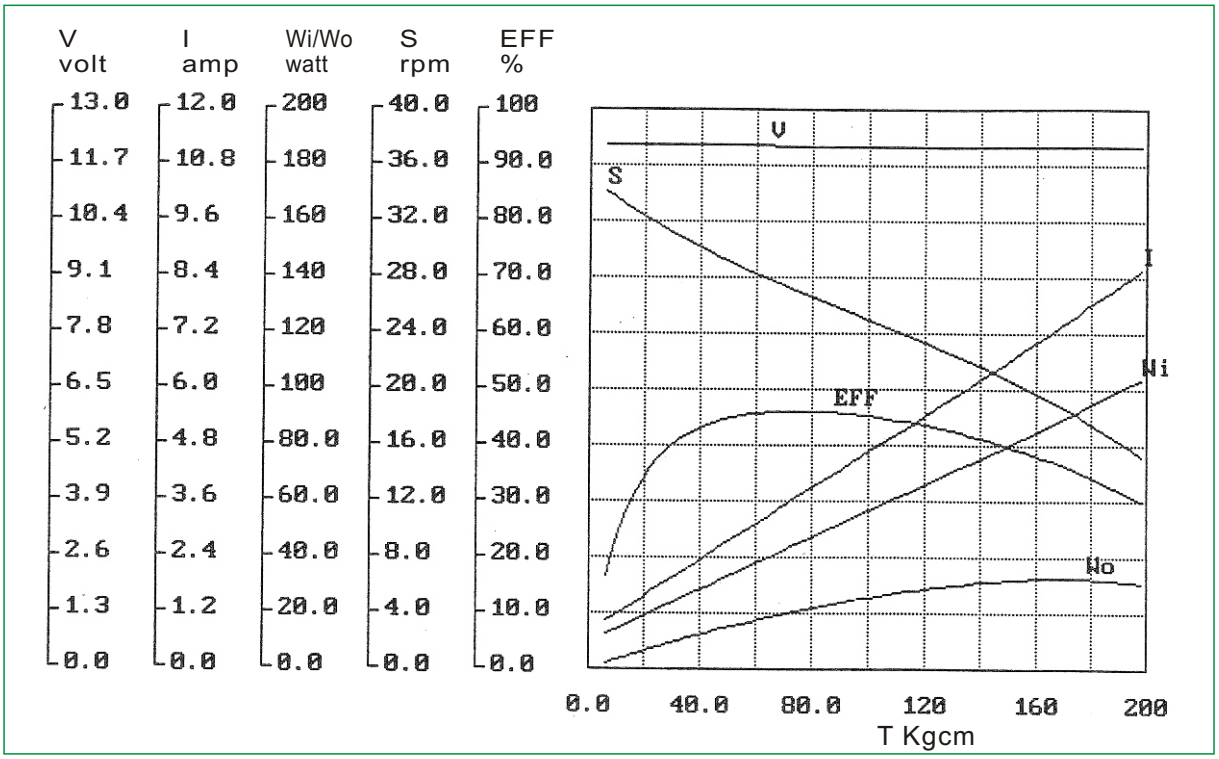
Φ54mm Recommended initial speed : 3,000 rpm
Reduction Ratio (1/i) : 1/4.5 - 1/313
With encoder/brake available

PT4835



	L	RATIO
1 STAGE	51	4.5 , 6 , 8
2 STAGE	66	20 , 28 , 39 , 50
3 STAGE	81	91,127,162,225,244,276,313

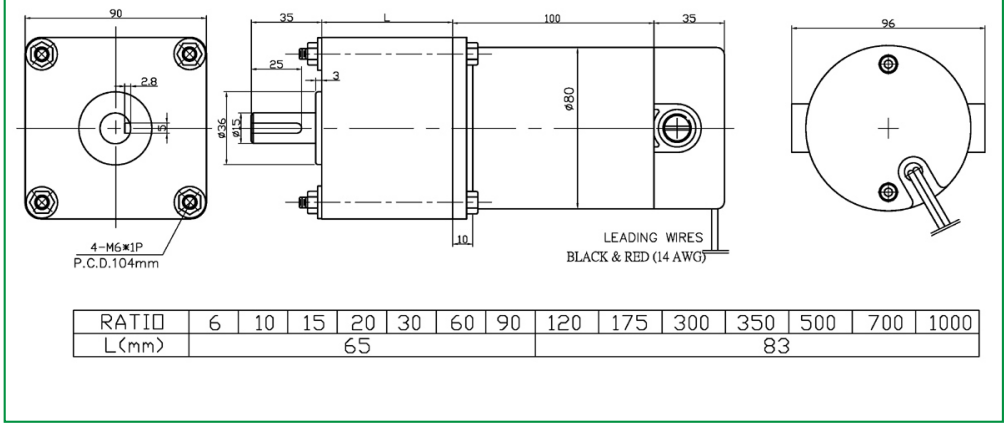
12VDC No Load 35rpm (RATIO：1/91)Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	34.0	12.16	1.03	12.47	6.00	2.10	16.84
2	32.9	12.16	1.24	15.04	13.00	4.40	29.26
3	32.8	12.16	1.43	17.41	17.00	5.70	32.74
4	32.7	12.16	1.63	19.79	20.00	6.70	33.86
5	32.1	12.16	1.80	21.87	24.00	7.90	36.12
6	30.9	12.16	2.06	25.03	31.00	9.80	39.15
7	29.7	12.16	2.38	28.89	42.00	12.80	44.31
8	28.7	12.16	2.91	35.32	56.00	16.50	46.72
9	27.4	12.16	3.56	43.34	72.00	20.20	46.61
10	25.9	12.15	4.24	51.51	86.00	22.90	44.46
11	24.2	12.13	4.86	58.93	106.00	26.30	44.63
12	22.8	12.13	5.76	69.88	128.00	29.90	42.79
13	20.6	12.13	6.58	79.75	153.00	32.30	40.50
14	17.9	12.13	7.81	94.76	176.00	32.30	34.09
15	14.8	12.13	8.63	104.63	201.00	30.50	29.15

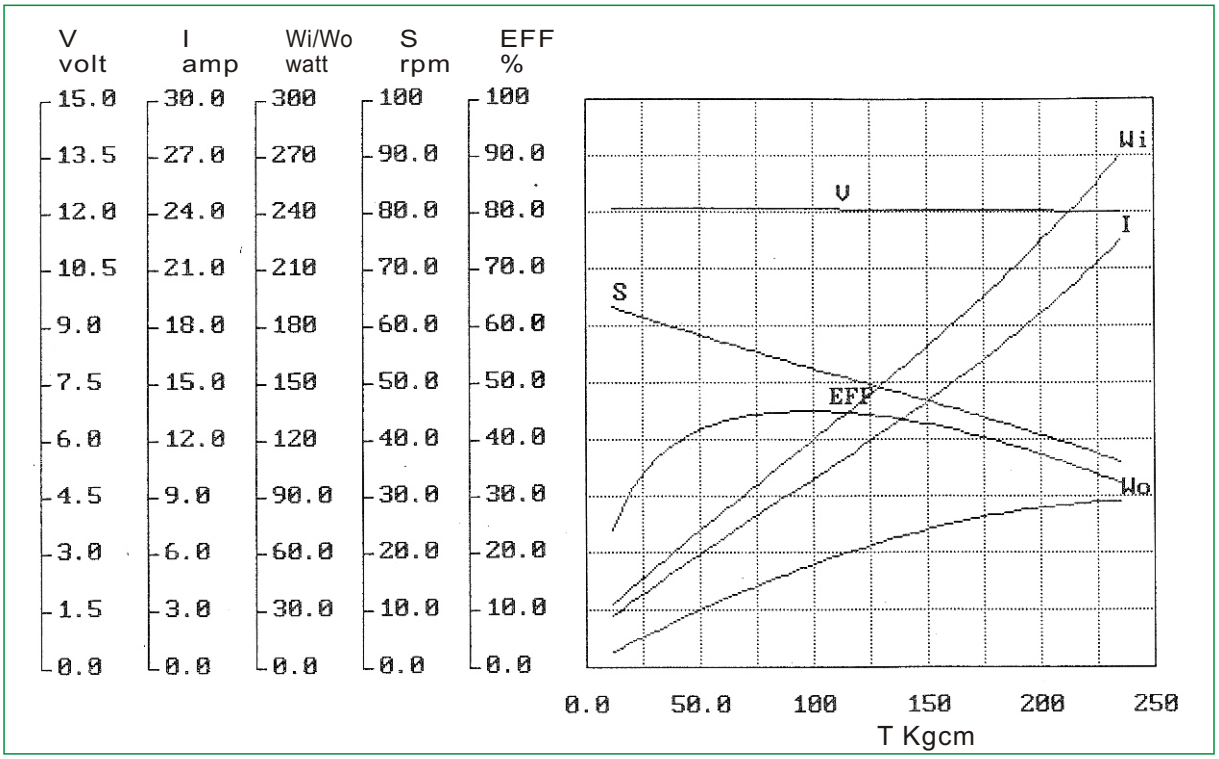
Φ80mm
Recommended initial speed : 2,200 rpm
Reduction Ratio (1/i) : 1/6 - 1/1000
With encoder/brake available

PT7152



RATIO	6	10	15	20	30	60	90	120	175	300	350	500	700	1000
L(mm)	65							83						

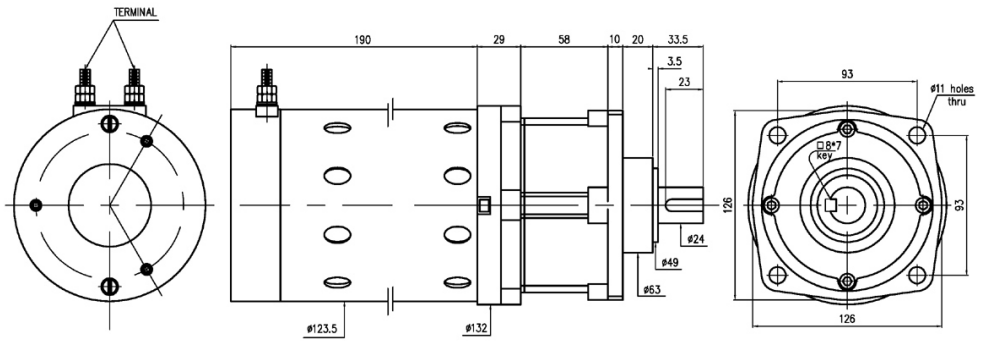
12VDC No Load 65rpm (RATIO：1/36)Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	63.3	12.10	2.66	32.20	12.00	7.80	24.22
2	63.1	12.10	2.98	36.04	16.00	10.40	28.86
3	60.8	12.10	4.14	50.12	27.00	16.80	33.52
4	60.6	12.10	4.90	59.28	35.00	21.80	36.77
5	59.0	12.10	5.27	63.81	42.00	25.40	39.81
6	58.1	12.10	6.00	72.57	54.00	32.20	44.37
7	52.9	12.08	9.83	118.76	98.00	53.20	44.80
8	50.2	12.07	11.26	135.95	120.00	61.80	45.46
9	47.2	12.05	13.61	163.97	146.00	70.70	43.12
10	44.8	12.05	15.75	189.76	165.00	75.80	39.95
11	42.0	12.03	18.24	219.42	190.00	81.90	37.33
12	39.5	12.04	18.77	225.97	213.00	86.30	38.19
13	35.4	12.00	23.38	280.61	239.00	86.80	30.93

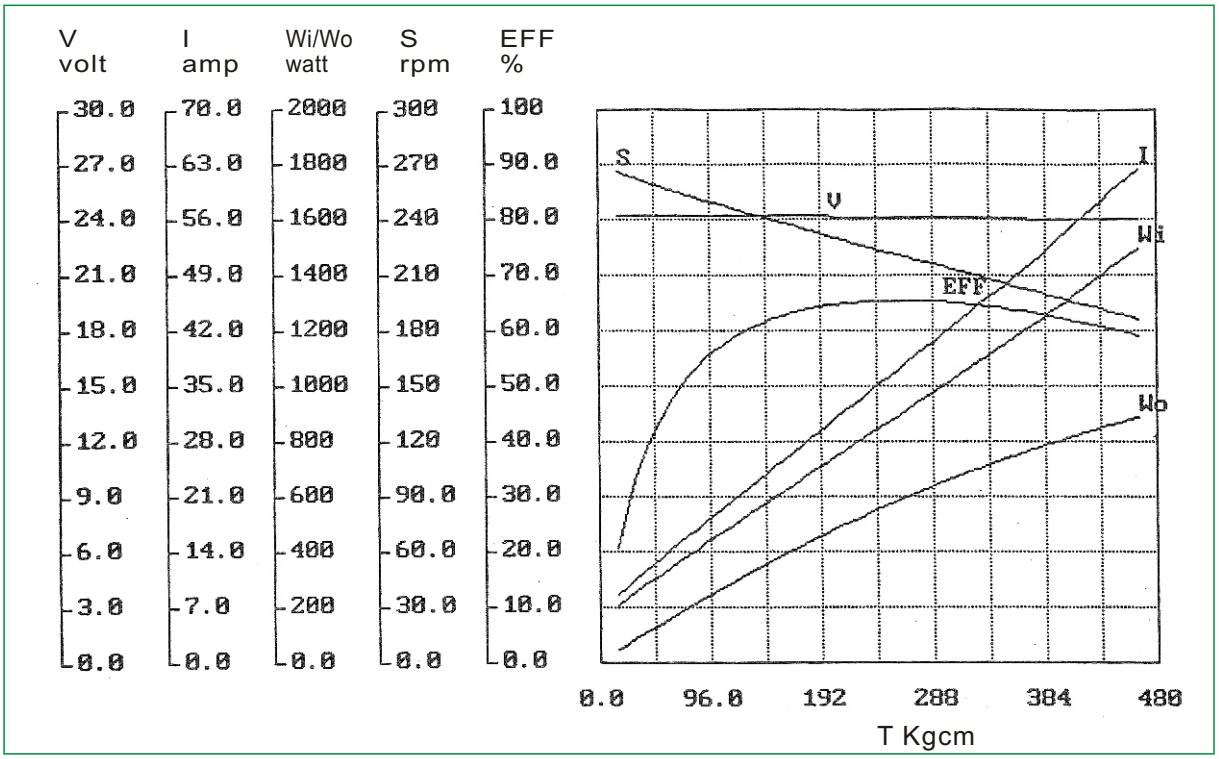
Φ 123.5mm Recommended initial speed : 2,200rpm
Reduction Ratio (1/i) : 1/7.5 , 1/10
With encoder/brake available
Stand : Option

PT1188



GEAR RATIO : 1/7.75 , 1/10

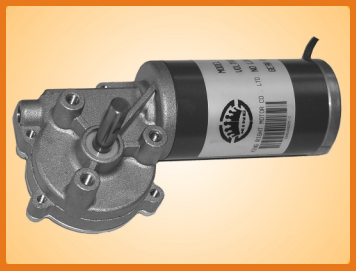
24VDC No Load 270rpm (RATIO：1/10)Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	264.3	24.23	8.86	214.72	16.00	43.60	20.31
2	262.8	24.24	10.28	249.03	31.00	83.60	33.57
3	254.0	24.20	16.02	387.57	77.00	200.70	51.78
4	248.8	24.17	18.63	450.24	100.00	255.31	56.70
5	238.7	24.17	25.49	616.05	159.00	389.40	63.21
6	231.3	24.17	29.66	716.95	191.00	453.30	63.23
7	218.8	24.12	38.70	933.40	273.00	612.90	65.66
8	205.0	24.07	47.90	1153.07	350.00	736.20	63.85
9	200.0	24.02	52.93	1271.55	390.00	800.30	62.94
10	191.6	23.99	58.13	1394.78	431.00	847.30	60.75
11	184.7	23.99	63.45	1522.48	471.00	892.60	58.63

WORM GEARED MOTOR

WG3929



ϕ43.5mm

Ratio (1/i) : 1/31 , 1/61 , 1/86

WG5539

ϕ61mm

Ratio (1/i) : 1/55

LM5844

ϕ61mm

WG5850

ϕ63.5mm

Ratio (1/i) : 1/10 , 1/15 , 1/30

WG5946

ϕ63.5mm

Ratio (1/i) : 1/10 , 1/15 , 1/30

AN5946

ϕ64.5mm

Ratio (1/i) : 1/6 ,1/10 , 1/15 , 1/30

WG6551R

ϕ64.5mm

Ratio (1/ i) : 1/65

WG6551L

ϕ70.5mm

Ratio (1/ i) : 1/65

TLCM7152

ϕ80mm

Ratio (1/ i) : 1/50

FG7152

ϕ80mm

Ratio (1/ i) : 1/20 - 1/50

ANCN7152 R

ϕ80mm

Ratio (1/ i) : 1/10 , 1/15 , 1/30

ANCN7152L

ϕ80mm

Ratio (1/ i) : 1/10 , 1/15 , 1/30

ANCN7152-E

Φ80mm

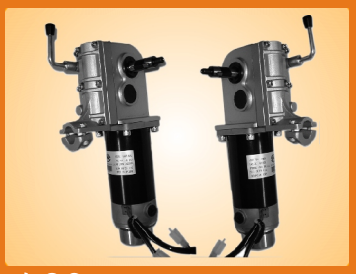
Ratio (1/ i) : 1/10 , 1/15 , 1/30

WG7152

Φ80mm

Ratio (1/ i) : 1/10- 1/50

WGF7252-2



Φ80mm

Ratio (1/ i) : 1/21 , 1/28 , 1/32

WG7165

Φ80mm

Ratio (1/ i) : 1/10- 1/50

WG7185

Φ80mm

Ratio (1/ i) : 1/10- 1/50

ASTG7256 R&L

Φ80mm

Ratio (1/ i) : 1/65

G8156

Φ89mm

Ratio (1/ i) : 1/6 , 1/10 , 1/15 , 1/30

WG1188

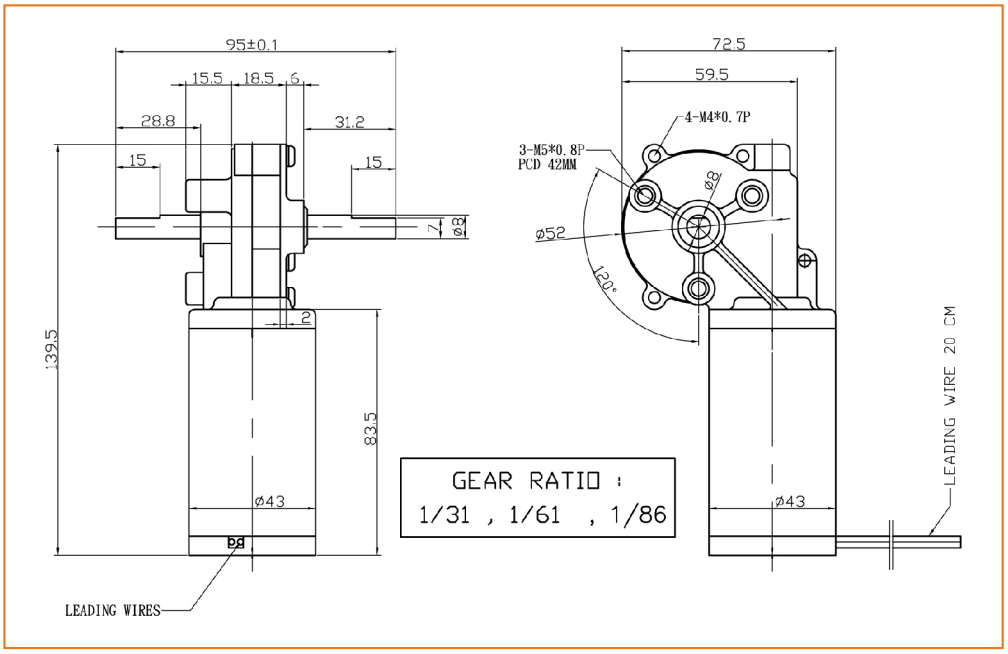
Φ123.5mm

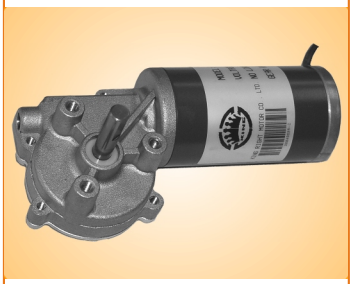
Ratio (1/ i) : 1/10 - 1/70

If you are not aware of how to caculate the maximum output moment, please contact us.

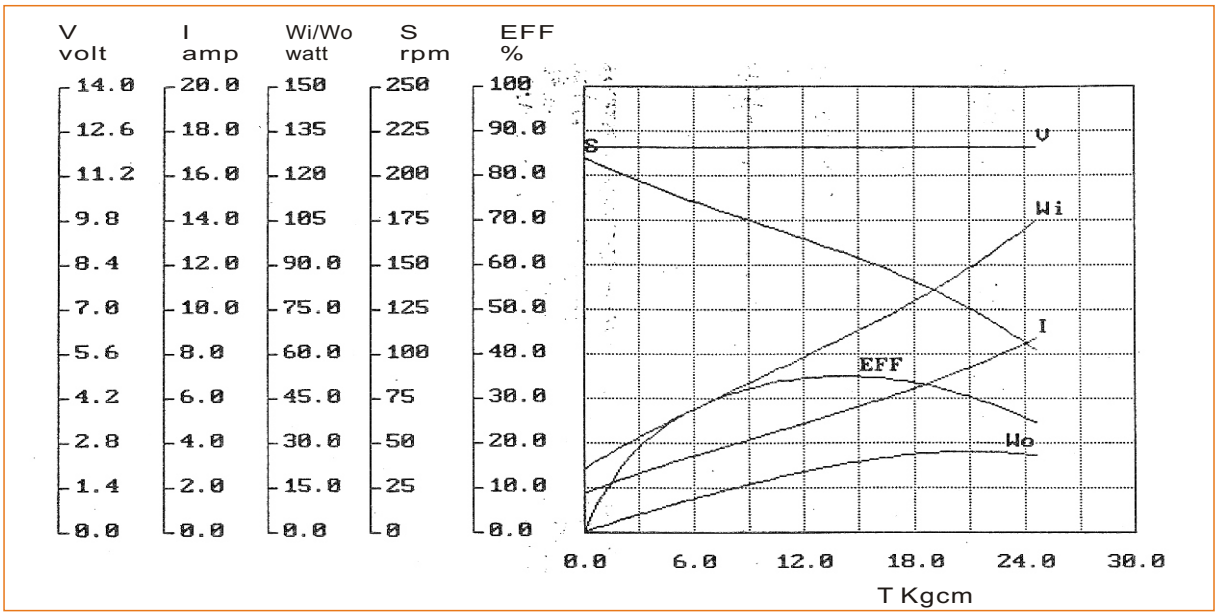
φ43mm ,Plastic gear
Ratio (1/i) : 1/31 , 1/61 , 1/86
With encoder available

WG3929





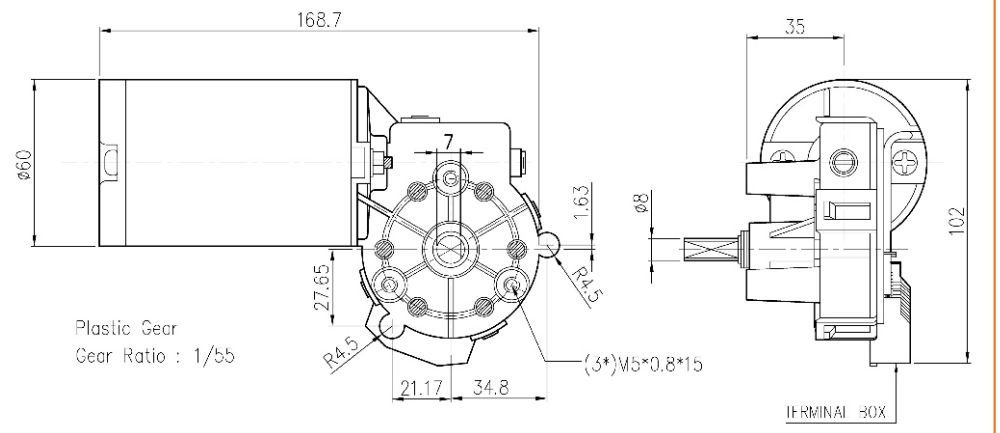
12VDC No Load 210rpm (RATIO : 1/31)Torque/Speed Performance Curve

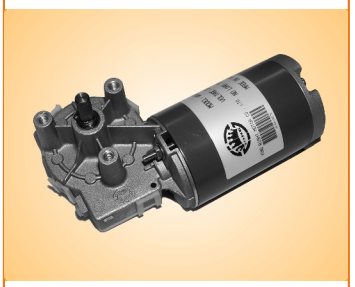


NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	210	12.10	1.77	21.4	0.00	0.0	0.0
2	191	12.10	3.01	36.4	4.50	8.8	24.2
3	182	12.10	3.66	44.3	7.10	13.3	30.0
4	171	12.07	4.46	53.8	10.20	17.9	33.3
5	162	12.07	5.17	62.4	13.00	21.6	34.6
6	158	12.07	5.39	65.1	14.10	22.9	35.2
7	153	12.07	5.61	67.7	14.90	23.4	34.6
8	151	12.07	5.92	71.5	15.80	24.5	34.3
9	145	12.07	6.11	73.7	16.80	25.0	33.9
10	143	12.07	6.26	75.6	17.60	25.8	34.1
11	140	12.07	6.49	78.3	18.40	26.4	33.7
12	134	12.07	6.92	83.5	19.60	26.9	32.2
13	130	12.07	7.14	86.2	20.40	27.2	31.6
14	118	12.07	7.81	94.3	22.20	26.9	28.5
15	104	12.07	8.65	104.4	24.20	25.8	24.7
16	100	12.07	8.83	106.6	25.00	25.7	24.1

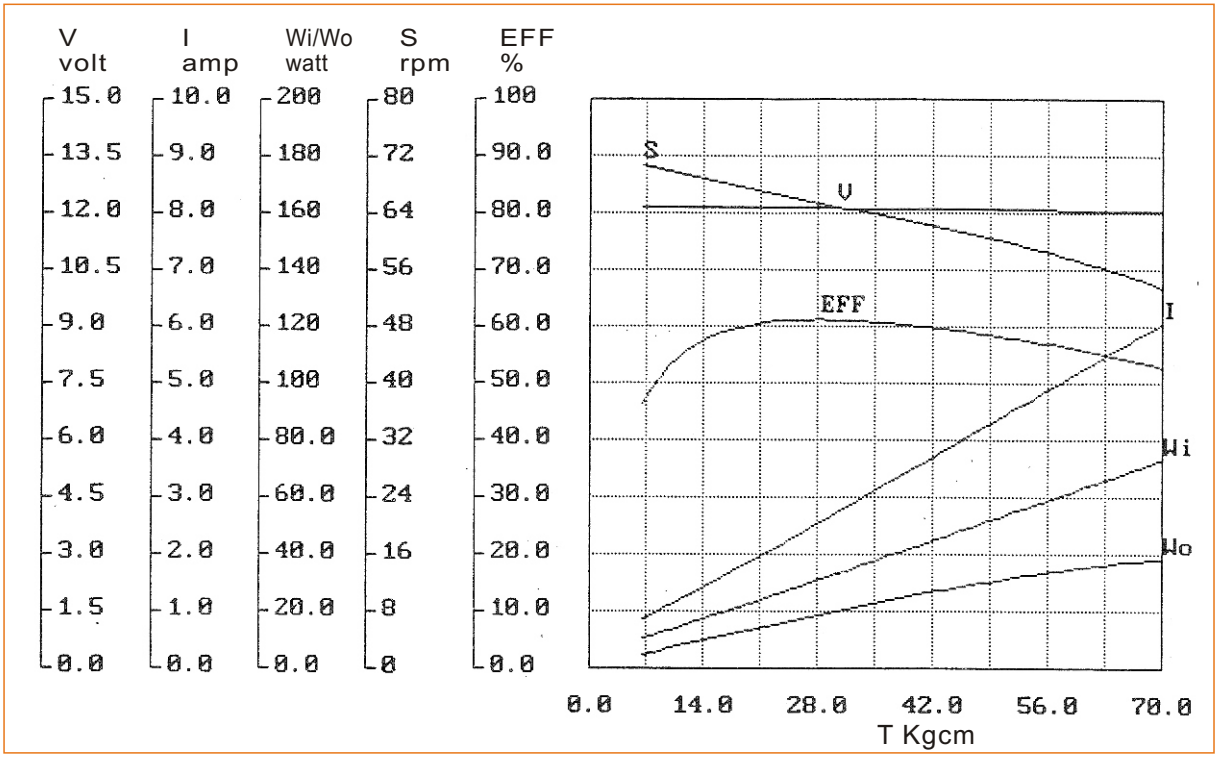
Φ61mm ,Plastic gear
Ratio (1/i) : 1/55
With encoder/brake available

WG5539





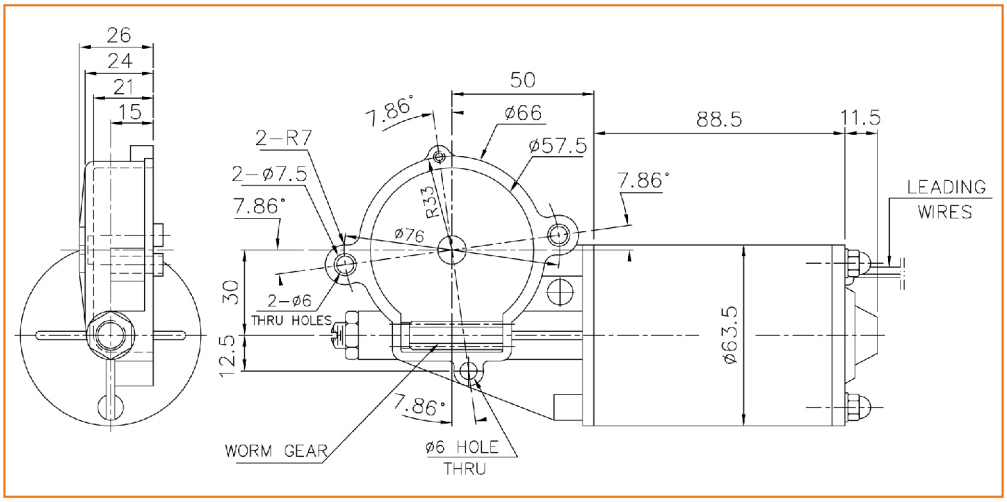
12VDC No Load 72rpm (RATIO : 1/55)Torque/Speed Performance Curve



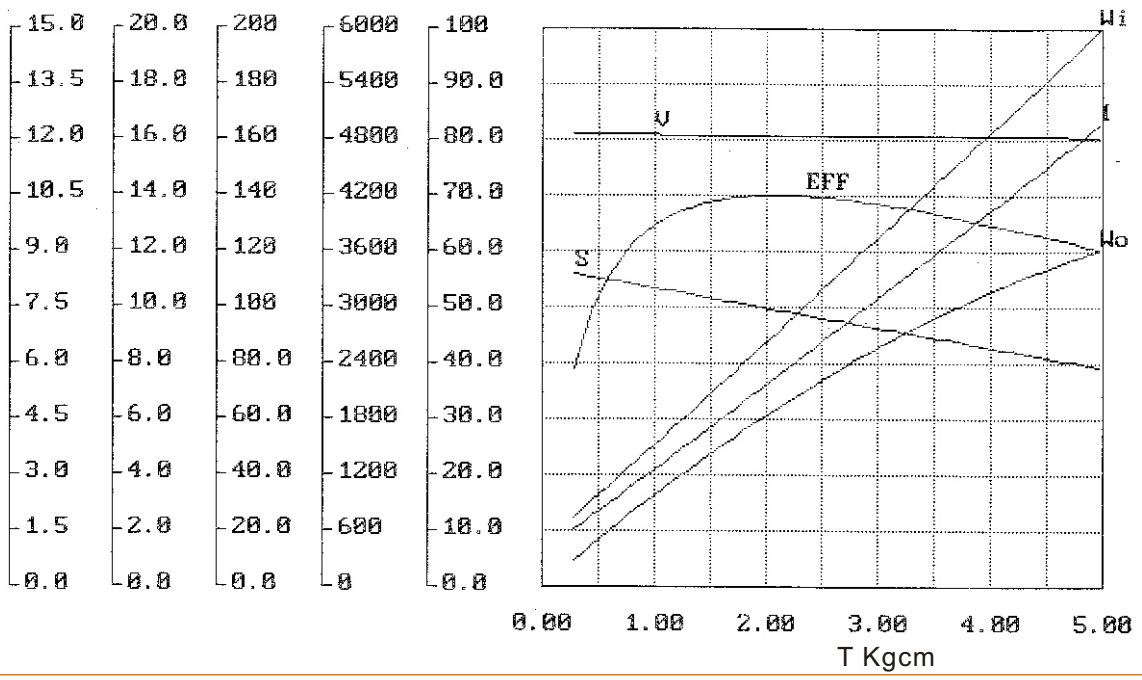
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	71	12.13	0.81	9.8	6.60	4.8	49.0
2	70	12.13	1.09	13.2	9.00	6.5	49.2
3	67	12.13	1.86	22.6	19.80	13.6	60.2
4	65	12.11	2.57	31.1	28.40	18.9	60.8
5	64	12.13	3.30	40.0	37.10	24.4	61.0
6	62	12.13	4.02	48.8	45.80	29.1	59.6
7	58	12.04	4.69	56.5	54.50	32.4	57.3
8	56	12.07	5.58	67.4	63.30	36.4	54.0
9	53	12.05	6.15	74.1	71.60	38.9	52.5

Φ63.5mm

LM5844



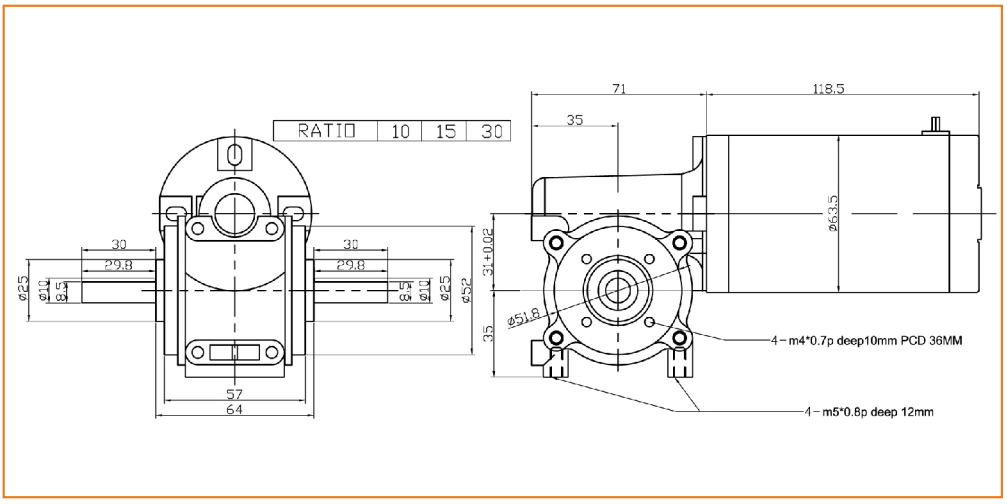
12VDC No Load 3500rpm (RATIO :)Torque/Speed Performance Curve



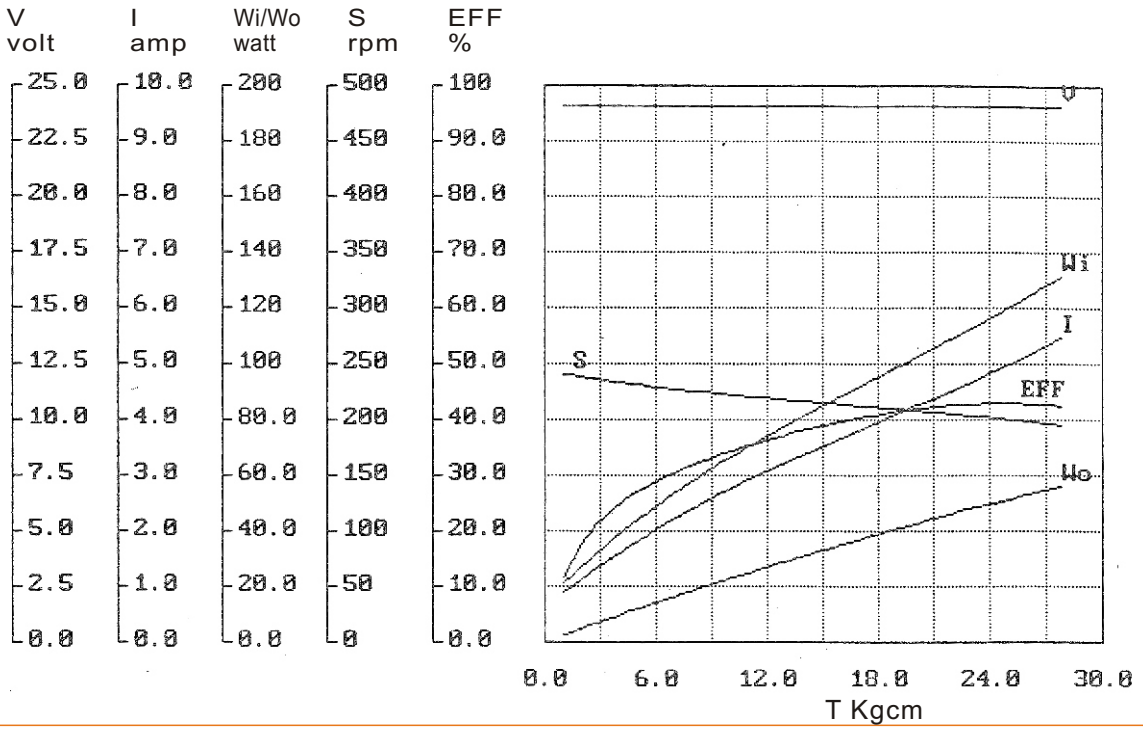
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	3357	12.13	2.05	24.9	0.28	9.6	38.6
2	3230	12.13	3.83	46.5	0.88	29.2	62.8
3	3099	12.13	5.67	68.8	1.49	47.4	68.9
4	2974	12.10	7.52	91.0	2.09	63.8	70.1
5	2845	12.10	9.39	113.6	2.70	78.8	69.4
6	2738	12.10	10.99	133.0	3.21	90.2	67.8
7	2610	12.10	12.89	156.0	3.82	102.3	65.6
8	2478	12.07	14.80	178.6	4.43	112.6	63.0
9	2339	12.07	16.77	202.4	5.05	121.2	59.9

Φ63.5mm,Brass gear
Ratio (1/i) : 1/10 , 1/15 , 1/30
With encoder/brake available

WG5850



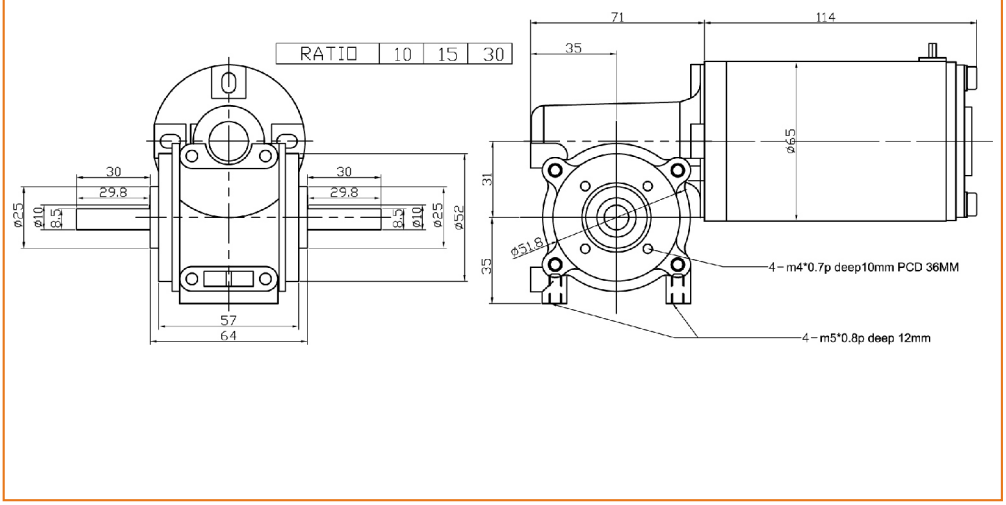
24VDC No Load 245rpm (RATIO : 1/15)Torque/Speed Performance Curve



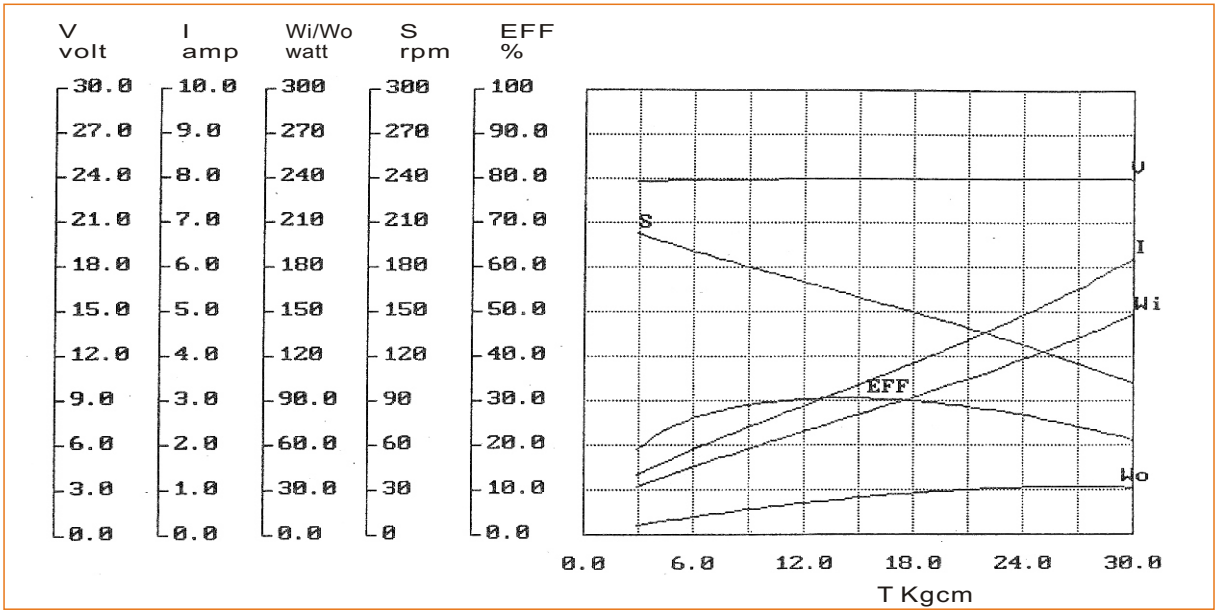
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	240	24.10	0.95	22.9	1.00	2.5	10.9
2	234	24.09	1.53	36.9	4.10	9.8	26.6
3	226	24.08	2.35	56.6	7.90	18.3	32.3
4	218	24.11	3.36	81.0	13.20	29.5	36.4
5	211	24.09	3.82	92.0	16.30	35.3	38.4
6	210	24.09	3.94	94.9	17.30	37.3	39.3
7	211	24.09	3.96	95.4	19.30	41.8	43.8
8	210	24.08	4.18	100.7	20.30	43.7	43.4
9	205	24.09	4.35	104.8	21.30	44.8	42.7
10	205	24.09	4.61	111.1	22.20	46.7	42.0
11	204	24.09	4.75	114.4	23.00	48.1	42.0
12	200	24.09	5.11	123.1	25.80	52.9	43.0
13	197	24.08	5.23	125.9	26.70	54.0	42.9
14	198	24.06	5.40	129.9	27.40	55.7	42.9
15	193	24.08	5.57	134.1	28.30	56.0	41.8

φ64.5mm,Brass gear
Ratio (1/i) : 1/10 , 1/15 , 1/30
With encoder/brake available

WG5946



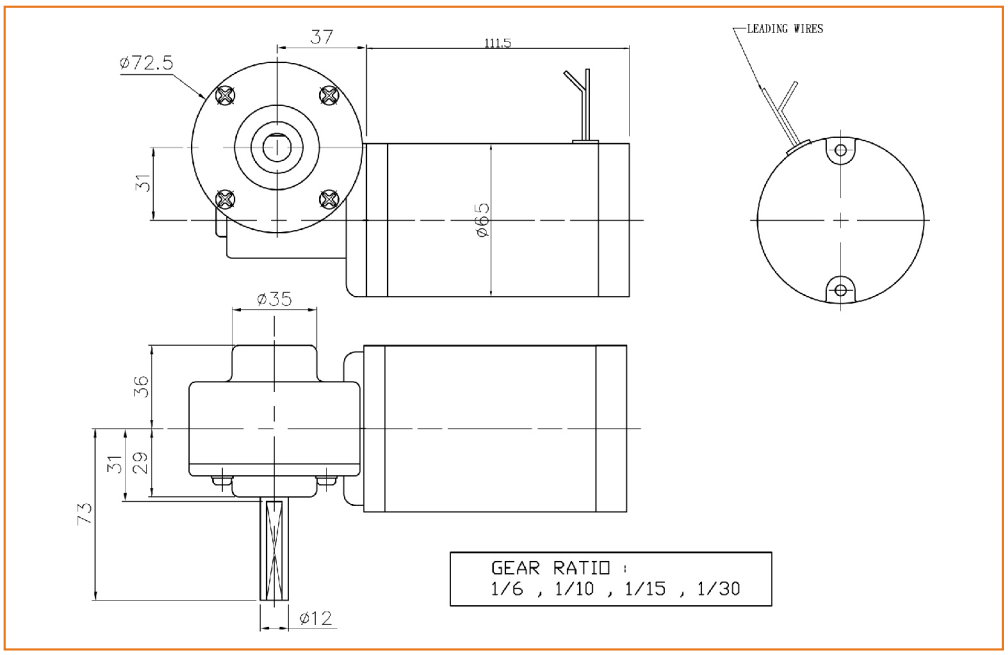
24VDC No Load 210rpm (RATIO：1/15)Torque/Speed Performance Curve



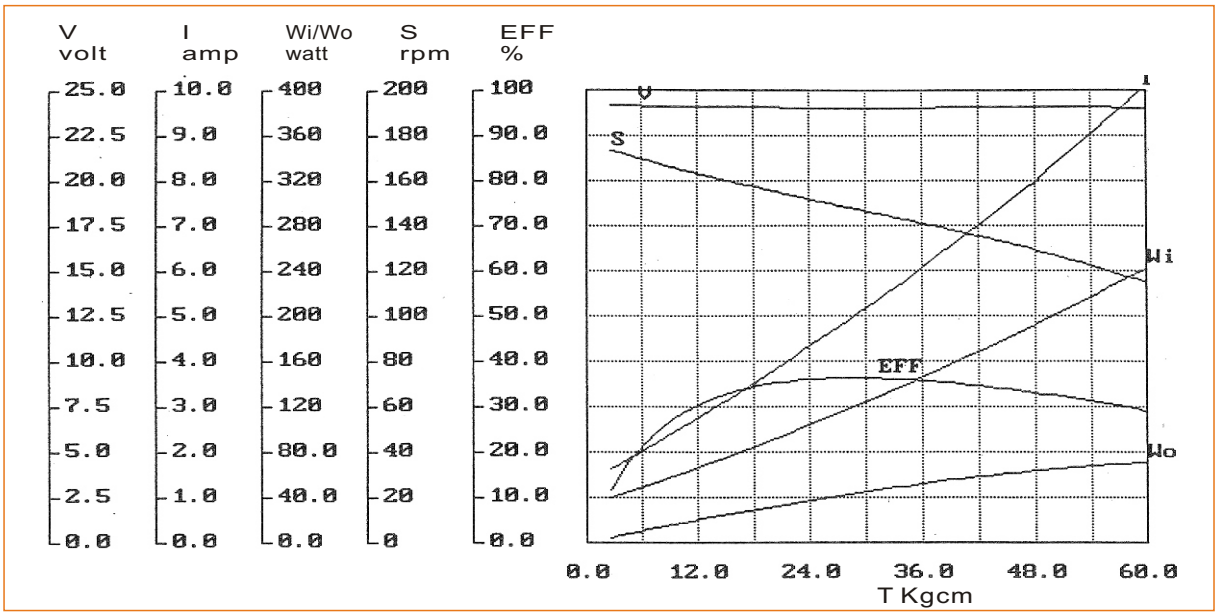
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	203	23.79	1.34	31.9	2.90	6.0	18.8
2	191	23.91	1.87	44.7	6.10	12.0	26.8
3	180	23.94	2.47	59.1	9.10	16.8	28.4
4	167	23.93	2.99	71.6	12.30	21.1	29.5
5	160	23.99	3.38	81.1	15.30	25.1	30.9
6	148	24.00	3.85	92.4	18.60	28.2	30.5
7	138	24.02	4.46	107.1	21.60	30.6	28.6
8	125	23.98	5.00	119.9	24.50	31.4	26.2
9	112	23.98	5.75	137.9	27.50	31.6	22.9
10	99	23.94	6.30	150.8	30.70	31.2	20.7

φ64.5mm,Brass gear
Ratio (1/i) : 1/6 ,1/10 , 1/15 , 1/30

AN5946



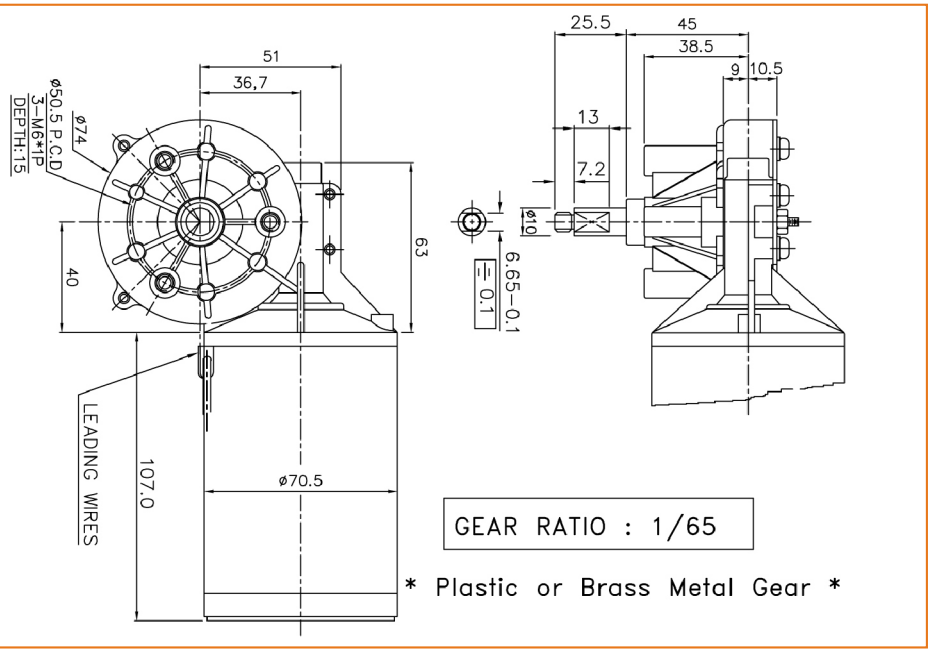
24VDC No Load 180rpm (RATIO : 1/15)Torque/Speed Performance Curve



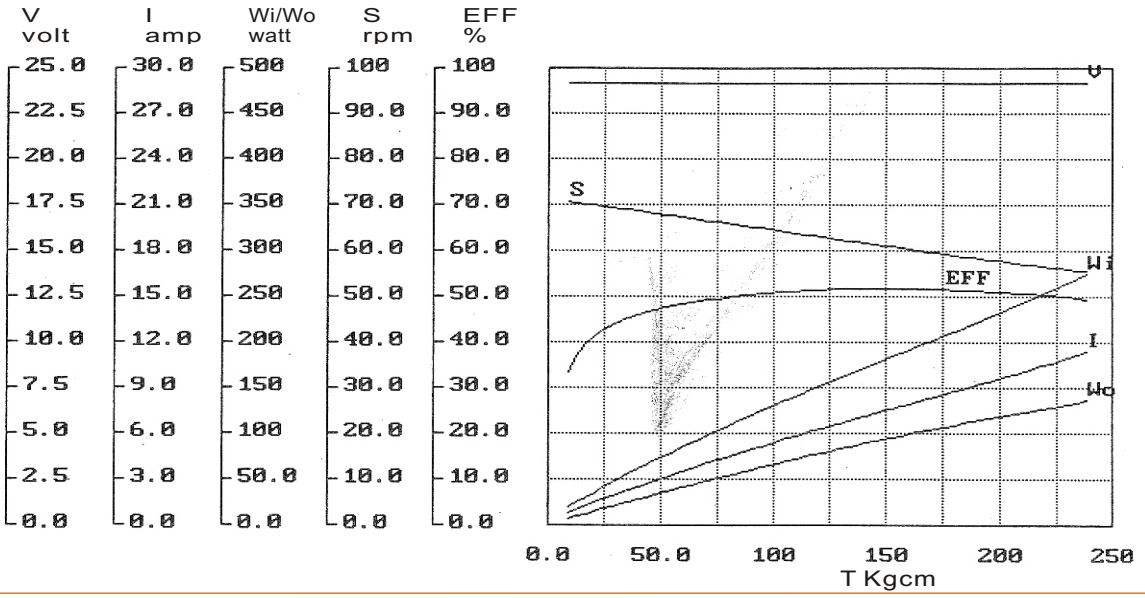
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	173	24.19	1.63	39.4	2.60	4.6	11.7
2	166	24.05	2.52	60.6	10.20	17.4	28.7
3	158	24.04	3.49	83.9	17.60	28.5	34.0
4	151	24.06	4.46	107.3	24.80	38.4	35.8
5	143	24.05	5.45	131.1	32.30	47.4	36.2
6	138	24.06	6.61	159.0	39.60	56.1	35.3
7	131	24.03	7.85	188.6	47.00	63.2	33.5
8	122	24.02	9.14	219.5	54.40	68.1	31.0
9	112	24.04	10.41	250.3	61.70	70.9	28.3

Φ 70.5mm,Brass/plastic gear
Ratio (1/ i) : 1/65
With brake available
Left/Right Side output shaft option

WG6551R&L



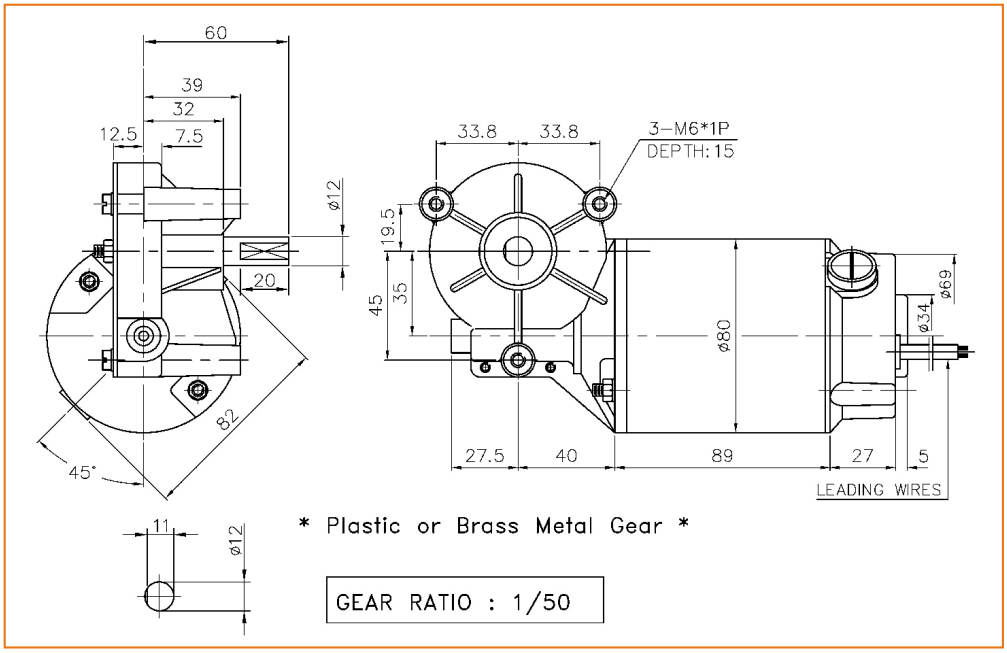
24VDC No Load 72rpm (RATIO : 1/65)Torque/Speed Performance Curve



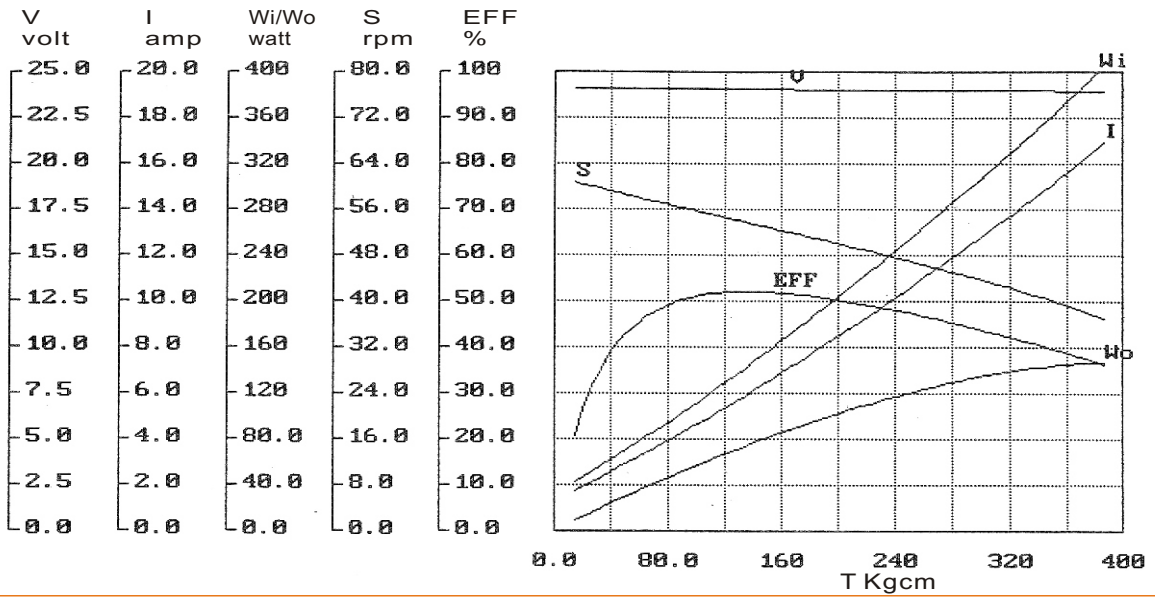
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	70.5	24.17	0.96	23.21	9.00	6.50	28.01
2	69.1	24.18	1.35	32.66	19.00	13.50	41.33
3	69.3	24.19	1.87	45.18	29.00	20.60	45.60
4	69.5	24.19	2.14	51.87	33.00	23.50	45.31
5	69.0	24.17	2.66	64.22	45.00	31.90	49.67
6	68.4	24.19	3.24	78.45	56.00	39.30	50.10
7	66.6	24.17	4.04	97.66	70.00	47.80	48.95
8	65.0	24.19	4.88	118.11	85.00	56.70	48.01
9	63.5	24.20	5.63	136.28	103.00	67.10	49.24
10	62.4	24.18	6.30	152.30	122.00	78.10	51.28
11	61.3	24.15	7.19	173.74	143.00	89.90	51.74
12	60.5	24.16	8.17	197.30	165.00	102.40	51.90
13	59.2	24.15	9.13	220.42	190.00	115.40	52.35
14	56.8	24.14	10.16	245.18	213.00	124.10	50.62
15	55.2	24.13	11.62	280.33	242.00	137.10	48.91

φ80mm ,Brass/plastic gear
Ratio (1/i) : 1/50

TLCM7152



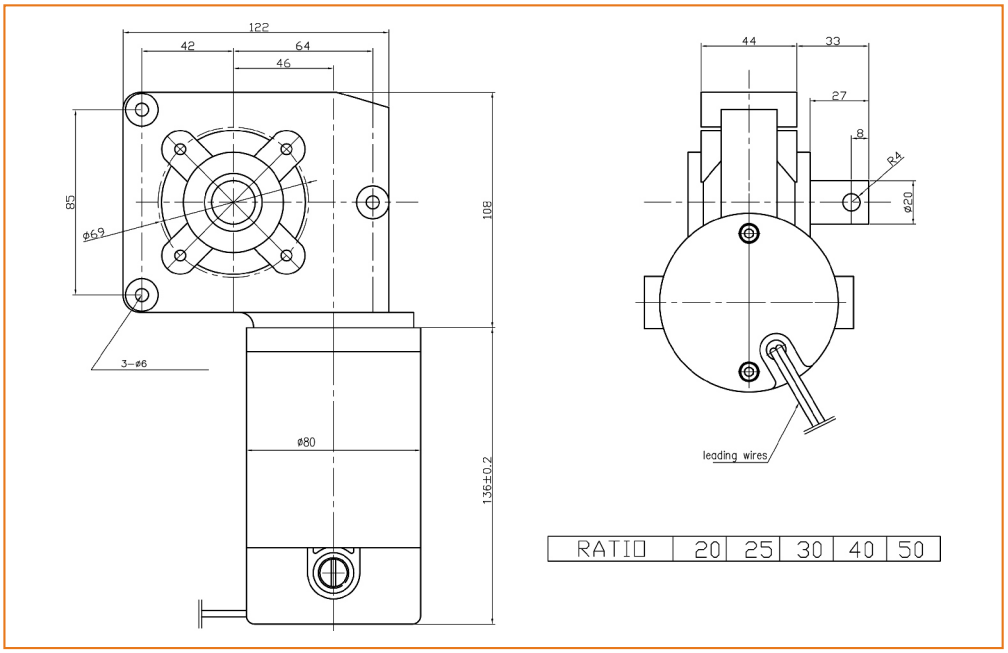
24VDC No Load 61rpm (RATIO : 1/50)Torque/Speed Performance Curve



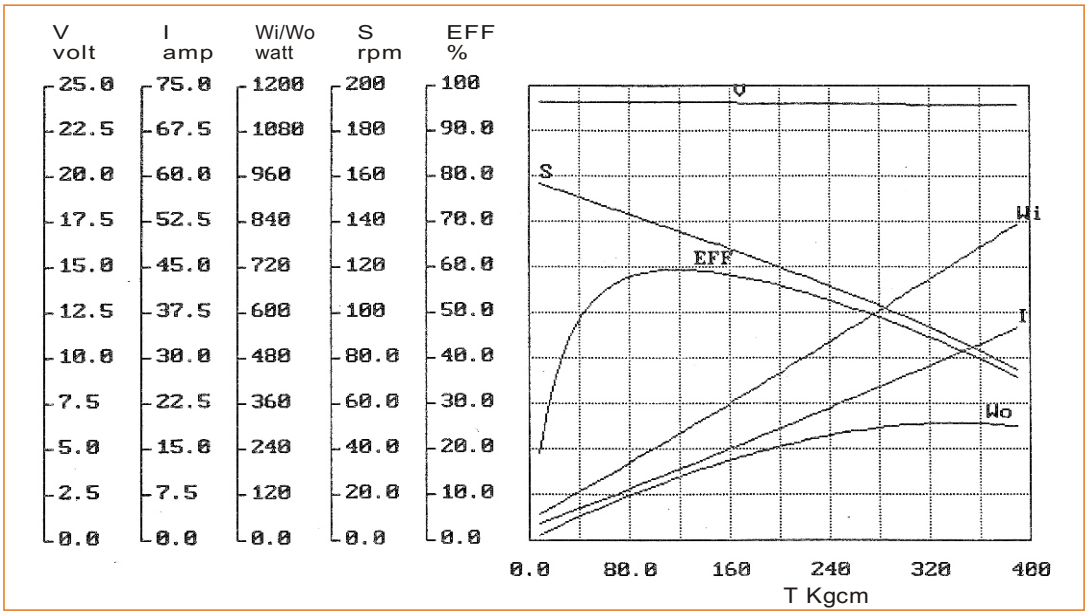
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	60.8	24.05	1.54	37.00	14.00	8.70	23.51
2	60.3	24.07	2.16	52.11	25.00	15.50	29.74
3	59.8	24.08	2.37	57.03	33.00	20.20	35.42
4	58.5	24.07	2.86	68.76	45.00	27.00	39.27
5	57.6	24.06	3.43	82.64	62.00	36.60	44.29
6	56.7	24.08	4.03	97.01	80.00	46.50	47.93
7	55.9	24.08	4.73	113.86	102.00	58.50	51.38
8	54.1	24.04	5.61	134.81	127.00	70.50	52.30
9	52.4	24.06	6.64	159.79	155.00	83.30	52.13
10	51.1	24.02	7.75	186.12	185.00	97.00	52.12
11	49.1	24.00	9.17	220.15	217.00	109.30	49.65
12	47.2	24.01	10.51	252.49	250.00	121.10	47.96
13	44.2	24.01	12.17	292.35	284.00	128.80	44.06
14	42.8	23.97	13.83	331.68	319.00	140.10	42.24
15	39.6	23.96	15.45	370.36	356.00	144.60	39.04
16	36.6	23.94	17.15	410.42	393.00	147.60	35.96

φ80mm ,Plastic gear
Ratio (1/ I) : 1/20,1/25,1/30,1/40,1/50

FG7152



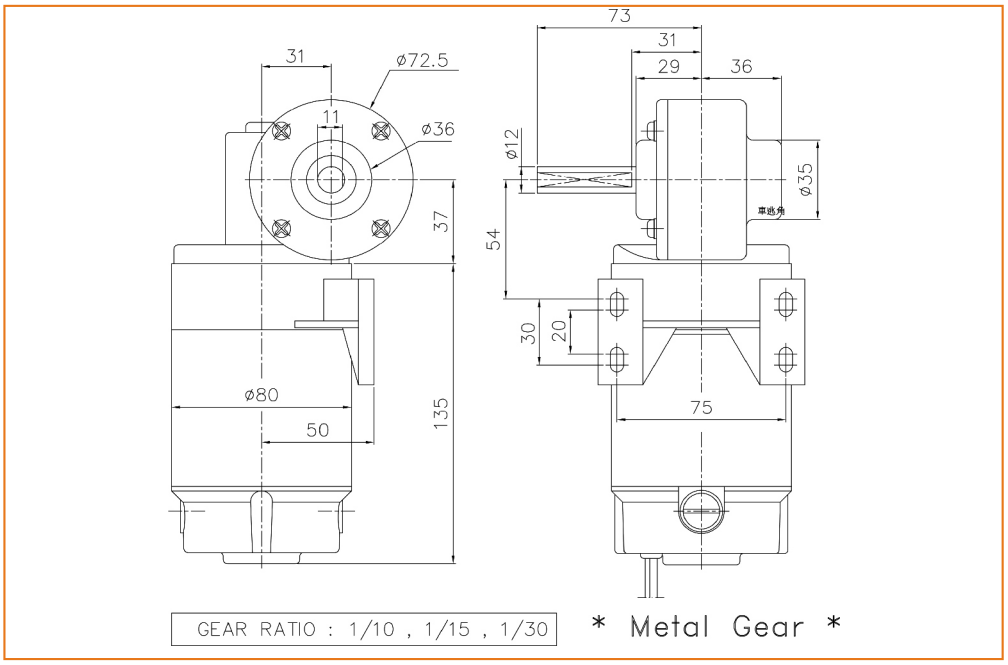
24VDC No Load 160rpm (RATIO：1/20)Torque/Speed Performance Curve

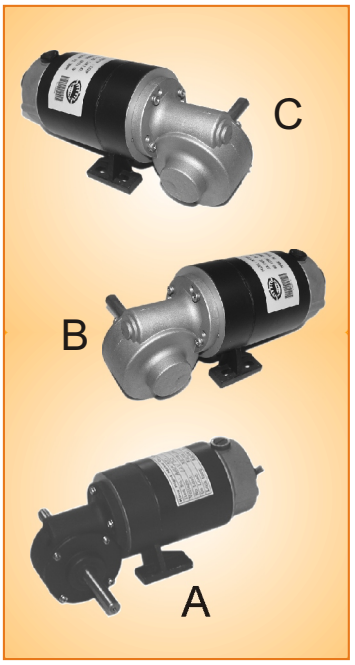


NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	156.4	24.11	2.94	70.93	8.00	12.80	18.05
2	151.1	24.12	5.15	124.16	41.00	63.60	51.22
3	144.9	24.09	7.69	185.28	70.00	104.10	56.19
4	140.7	24.08	9.35	225.08	92.00	132.80	59.00
5	136.6	24.08	11.21	269.96	111.00	155.60	57.64
6	131.4	24.06	13.06	314.19	140.00	188.70	60.06
7	127.8	24.02	15.40	369.89	164.00	215.00	58.13
8	121.2	24.03	17.85	429.01	194.00	241.20	56.22
9	114.3	24.02	20.38	489.64	225.00	263.90	53.90
10	108.3	23.99	23.56	565.19	258.00	286.70	50.73
11	99.4	23.96	26.45	633.67	294.00	299.80	47.31
12	91.6	23.94	29.31	701.53	328.00	308.30	43.95
13	83.2	23.93	32.33	773.58	361.00	308.20	39.84
14	72.5	23.89	35.51	848.32	396.00	294.60	34.73

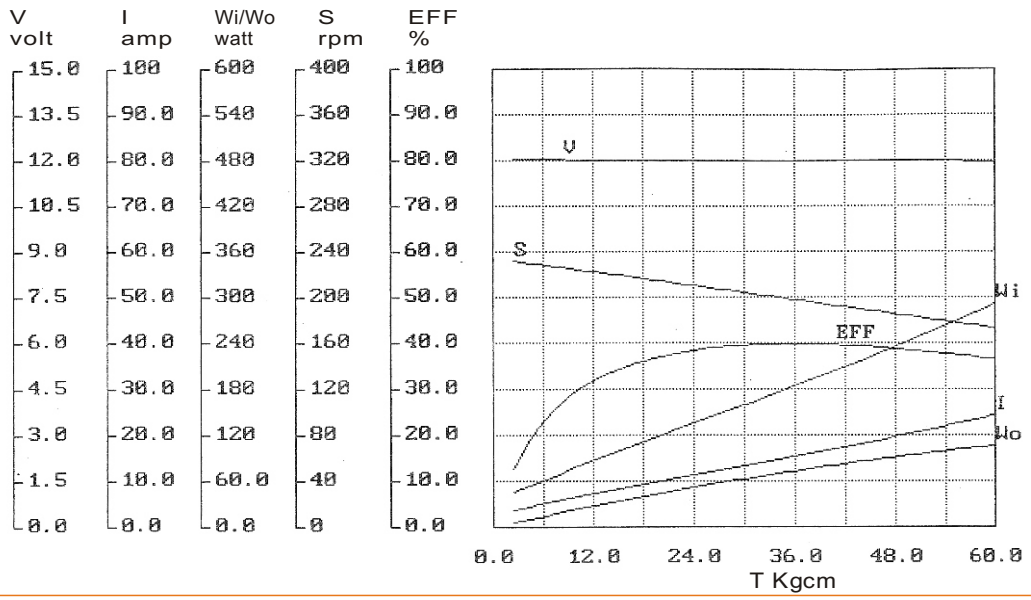
Φ80mm ,Brass gear
Ratio (1/ i) : 1/10 , 1/15 , 1/30
Left/Right/Both Side output shaft option

ANCN7152R&L





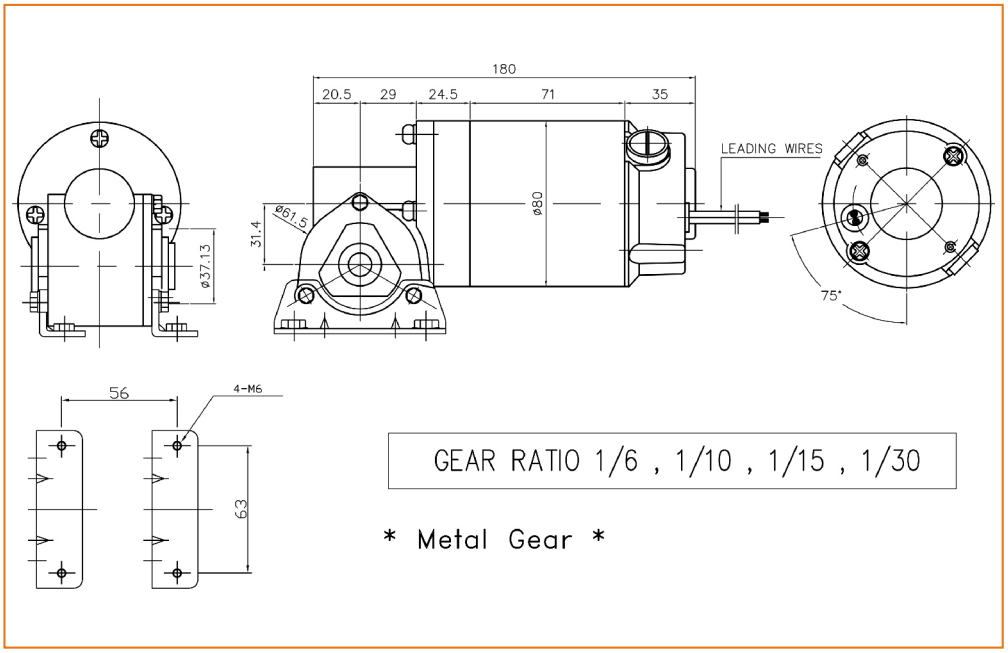
12VDC No Load 240rpm (RATIO : 1/15)Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	232	12.04	3.86	46.5	2.40	5.7	12.3
2	224	12.03	6.36	76.5	9.90	22.8	29.8
3	218	12.01	8.85	106.3	17.50	39.1	36.8
4	209	12.00	11.60	139.2	24.60	52.8	37.9
5	202	12.00	14.15	169.8	32.10	66.5	39.2
6	193	12.00	16.56	198.7	39.60	78.4	39.5
7	188	12.00	19.10	229.2	47.10	90.9	39.7
8	177	11.98	22.04	264.0	54.30	98.6	37.3
9	172	11.95	25.15	300.5	61.50	108.5	36.1

φ80mm ,Brass gear
Ratio (1/i) : 1/6,1/10,1/15,1/30

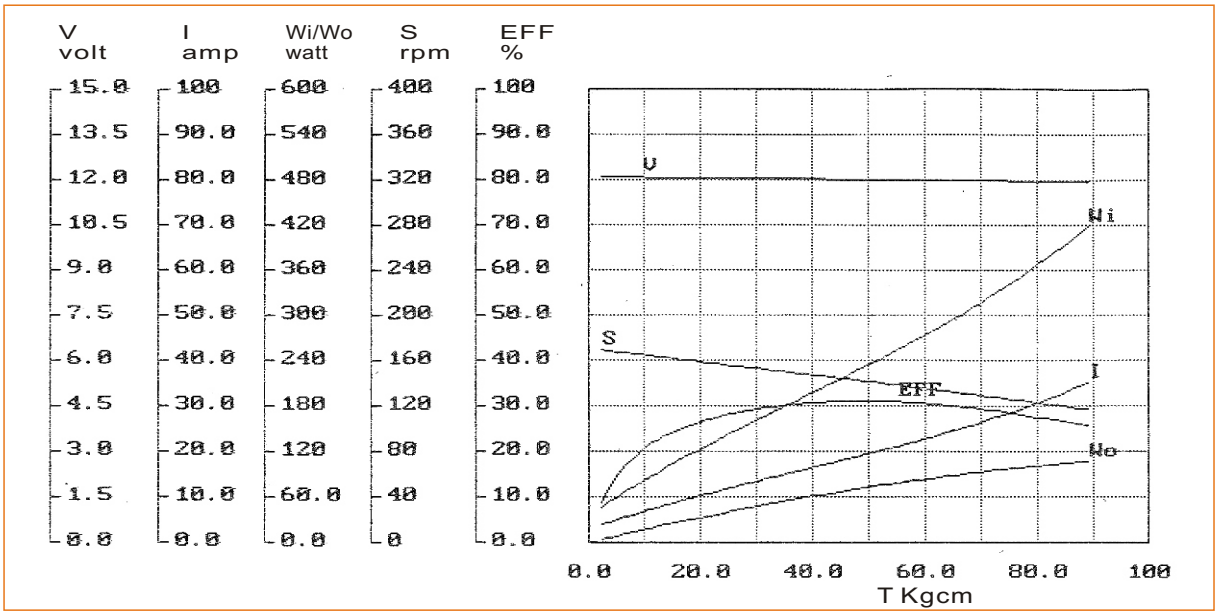
ANCN7152-E



GEAR RATIO 1/6 , 1/10 , 1/15 , 1/30

* Metal Gear *

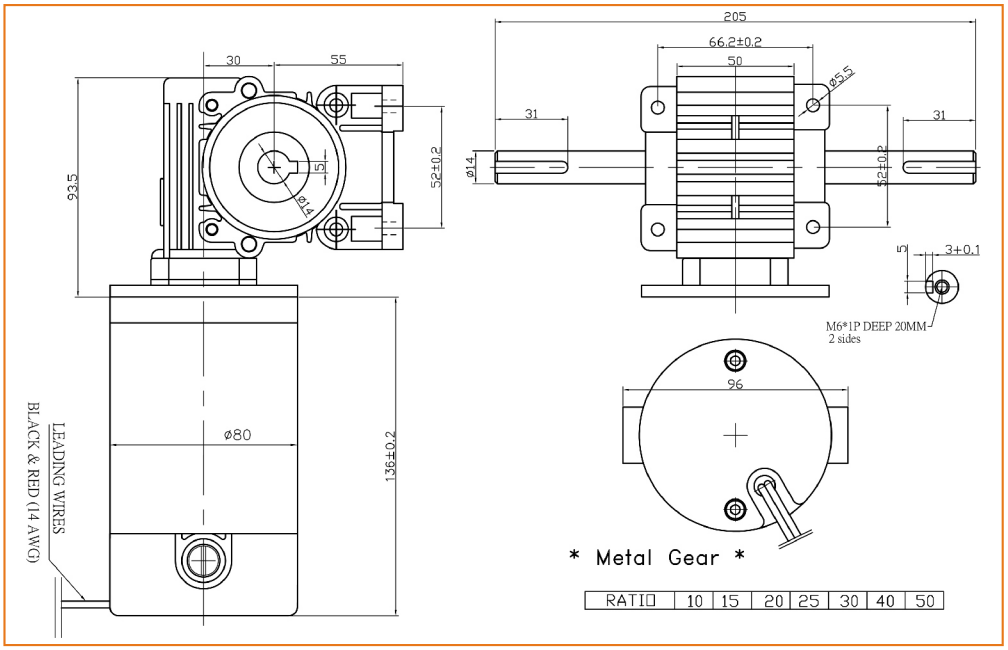
12VDC No Load 170rpm (RATIO : 1/15)Torque/Speed Performance Curve



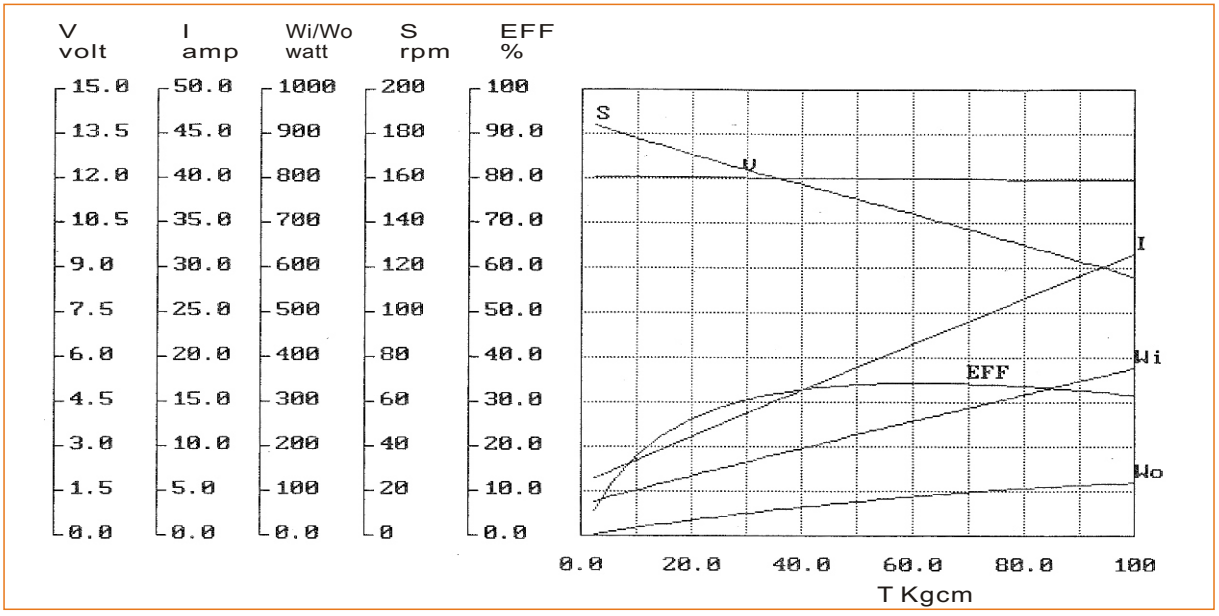
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	169	12.10	3.97	48.0	2.30	4.0	8.3
2	162	12.06	8.12	97.9	14.90	24.8	25.3
3	155	12.04	12.19	146.8	25.50	40.6	27.7
4	147	12.04	16.51	198.8	39.90	60.2	30.3
5	140	12.01	20.50	246.2	52.60	75.6	30.7
6	133	11.99	24.13	289.3	65.30	89.1	30.8
7	125	11.98	29.02	347.7	77.80	99.8	28.7
8	117	11.93	35.17	419.6	90.40	108.5	25.9
9	113	11.94	33.89	404.6	83.70	101.3	25.0

φ80mm ,Brass gear
Ratio (1/i) : 1/10- 1/50
With encoder/brake available

WG7152



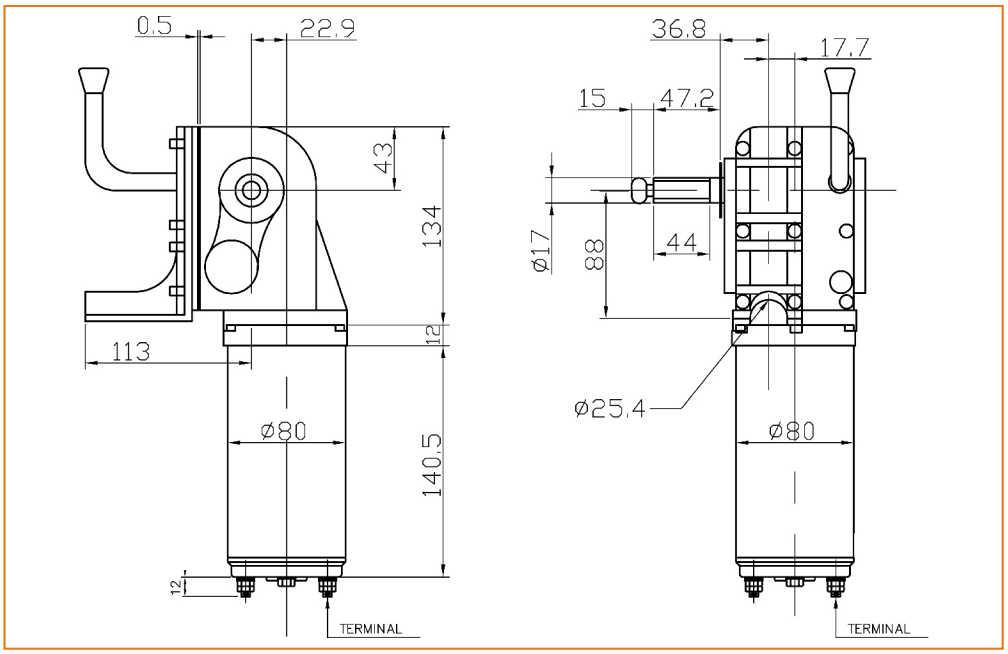
12VDC No Load 185rpm (RATIO：1/15)Torque/Speed Performance Curve

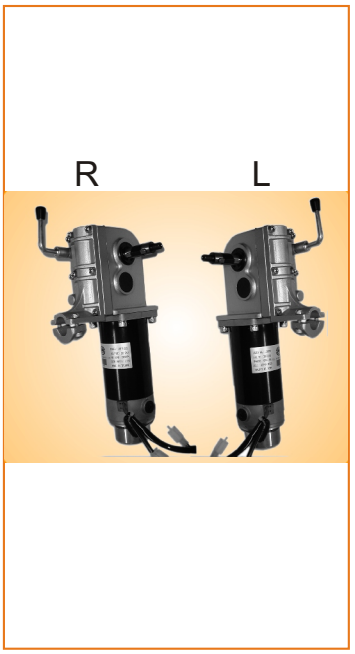


NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	184	12.04	6.49	78.1	2.30	4.3	5.5
2	173	12.04	9.82	118.2	15.00	26.6	22.5
3	168	12.03	12.95	155.8	27.50	47.4	30.4
4	157	12.01	16.15	194.0	39.30	63.3	32.6
5	149	12.01	19.57	235.0	51.70	79.0	33.6
6	139	11.99	22.99	275.7	65.20	93.0	33.7
7	133	11.97	25.89	309.9	78.00	106.4	34.3
8	123	11.96	29.08	347.8	90.50	114.2	32.8
9	113	11.93	32.37	386.2	102.90	119.3	30.9

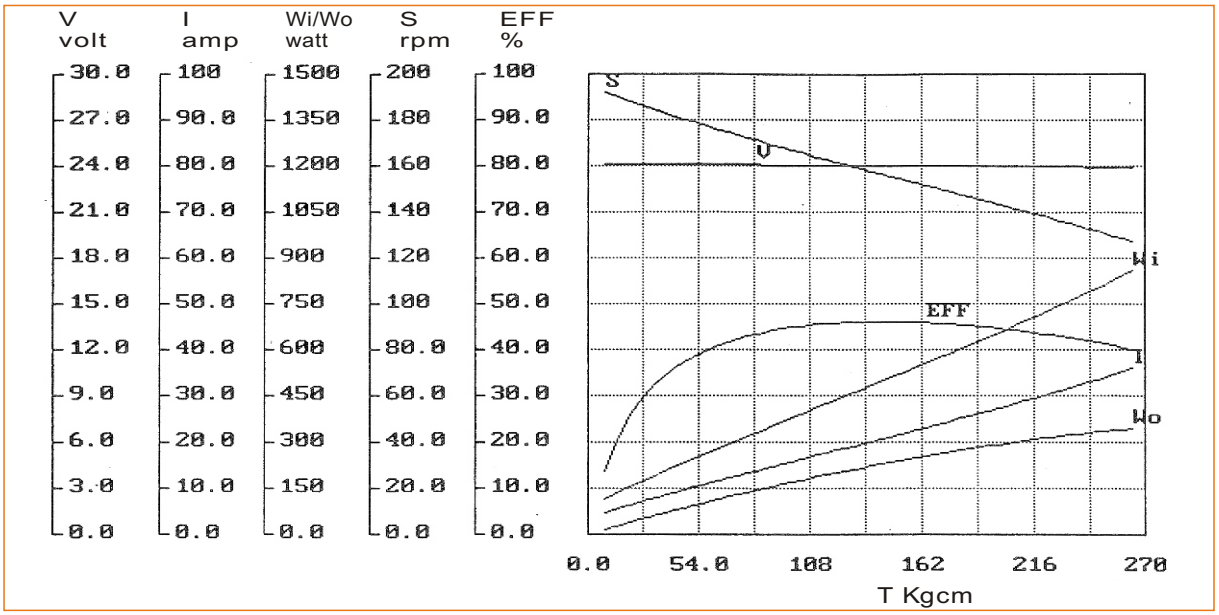
Φ 80mm ,Brass gear
Ratio (1/ i) : 1/21 , 1/28 , 1/32
With brake available
Left/Right Side output shaft option

WGF7255-2





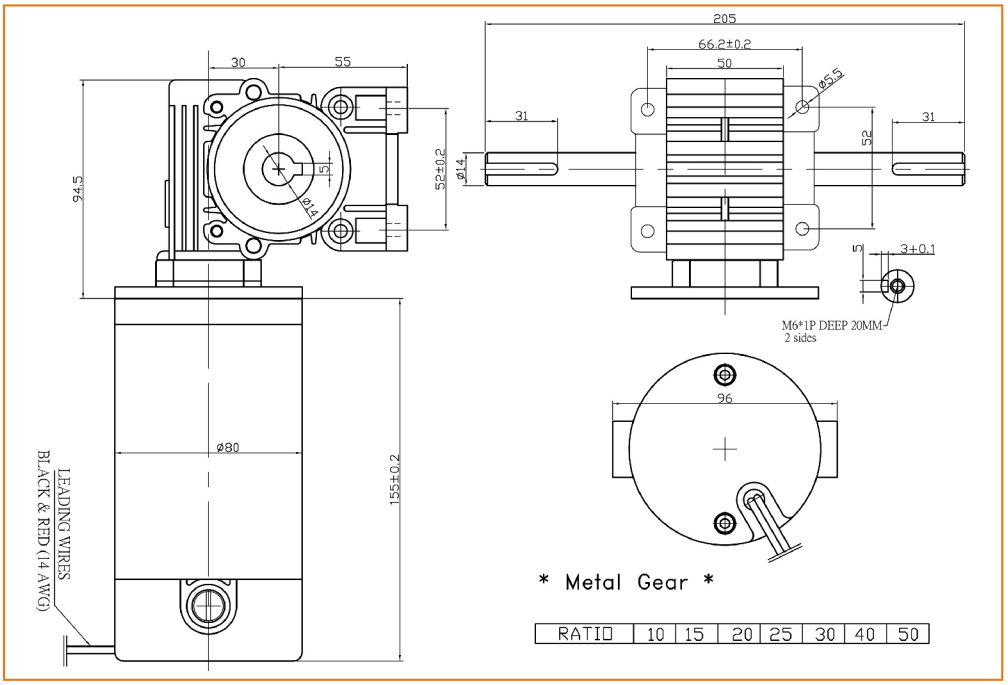
24VDC No Load 195rpm (RATIO : 1/21)Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	191.4	24.13	4.91	118.42	8.00	15.70	13.26
2	183.5	24.08	8.44	203.23	40.00	75.30	37.05
3	181.0	24.08	9.22	222.05	44.00	81.70	36.79
4	178.6	24.08	10.60	255.17	54.00	99.00	38.80
5	175.2	24.07	12.12	291.70	66.00	118.60	40.66
6	170.6	24.05	13.98	336.28	82.00	143.50	42.67
7	165.9	24.05	16.02	385.22	101.00	171.90	44.62
8	160.7	24.02	18.31	439.88	123.00	202.80	46.10
9	155.6	24.01	20.86	500.87	147.00	234.70	46.86
10	151.5	23.99	23.40	561.58	165.00	256.50	45.67
11	145.6	23.99	26.38	633.05	190.00	283.80	44.83
12	139.2	23.97	29.51	707.45	217.00	309.90	43.81
13	133.3	23.95	32.80	785.51	241.00	329.60	41.96
14	126.1	23.92	36.56	874.47	268.00	346.70	39.65

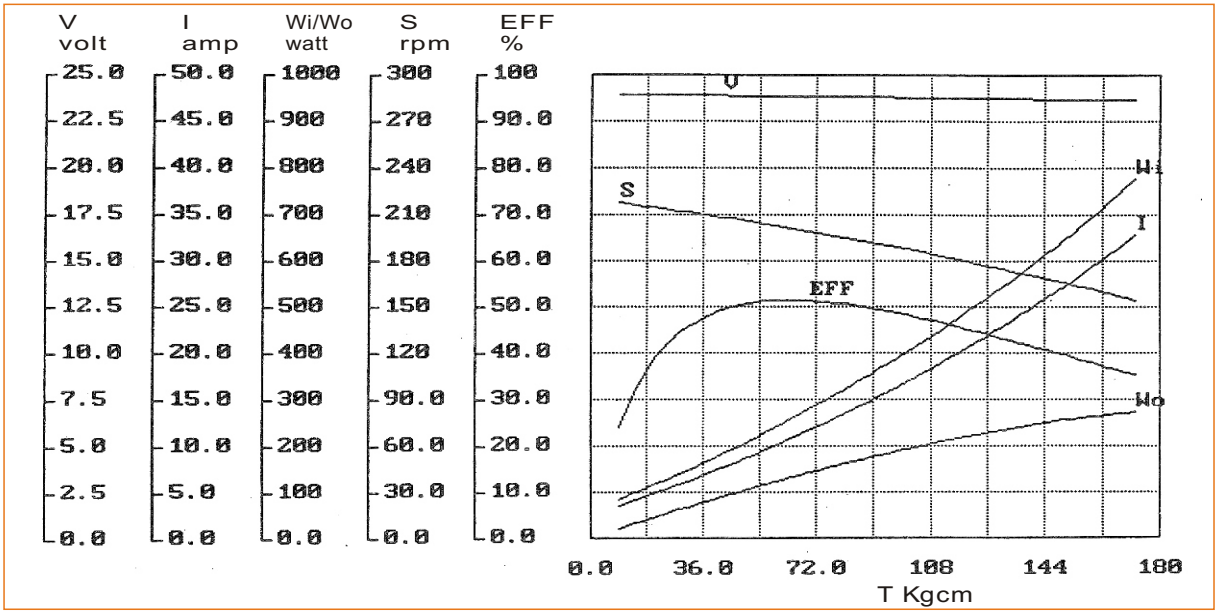
Φ 80mm ,Brass gear
Ratio (1/ i) : 1/10- 1/50
With encoder/brake available

WG7165



RATIO	10	15	20	25	30	40	50

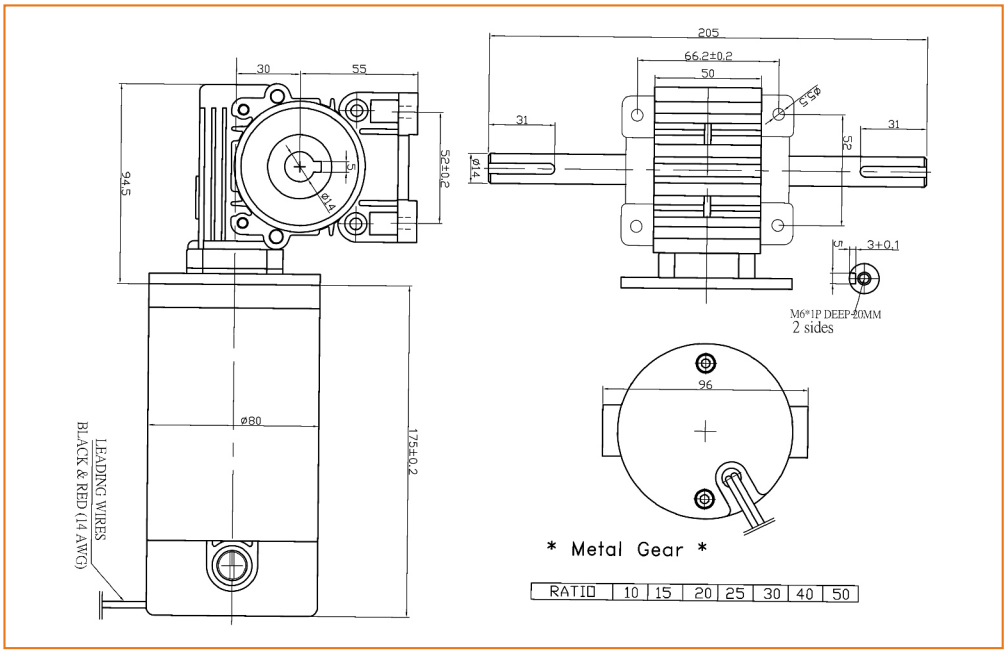
24VDC No Load 220rpm (RATIO : 1/15)Torque/Speed Performance Curve



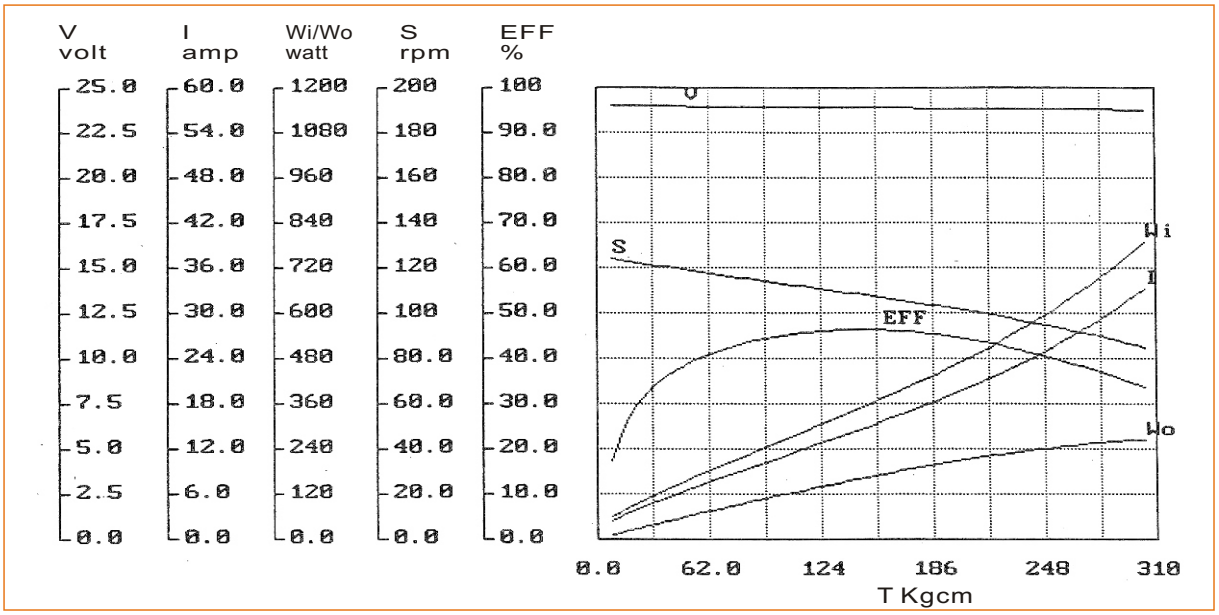
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	216.5	23.87	3.59	85.75	9.00	20.00	23.32
2	217.4	23.91	3.96	94.65	15.00	33.50	35.39
3	215.5	23.88	4.66	111.24	19.00	42.00	37.76
4	213.5	23.89	5.25	125.38	23.00	50.40	40.20
5	209.7	23.88	7.22	172.35	38.00	81.80	47.46
6	206.9	23.88	8.29	197.91	46.00	97.60	49.32
7	203.8	23.87	9.79	233.56	56.00	117.10	50.14
8	199.3	23.82	11.56	275.24	69.00	141.10	51.26
9	195.0	23.80	13.42	319.37	82.00	164.10	51.38
10	188.4	23.80	16.33	388.71	98.00	189.40	48.73
11	182.3	23.76	19.64	466.67	116.00	217.00	46.50
12	162.8	23.68	28.69	679.34	154.00	257.20	37.86
13	153.3	23.67	33.25	787.14	175.00	275.30	34.97

Φ80mm ,Brass gear
Ratio (1/ i) : 1/10- 1/50
With encoder/brake available

WG7185



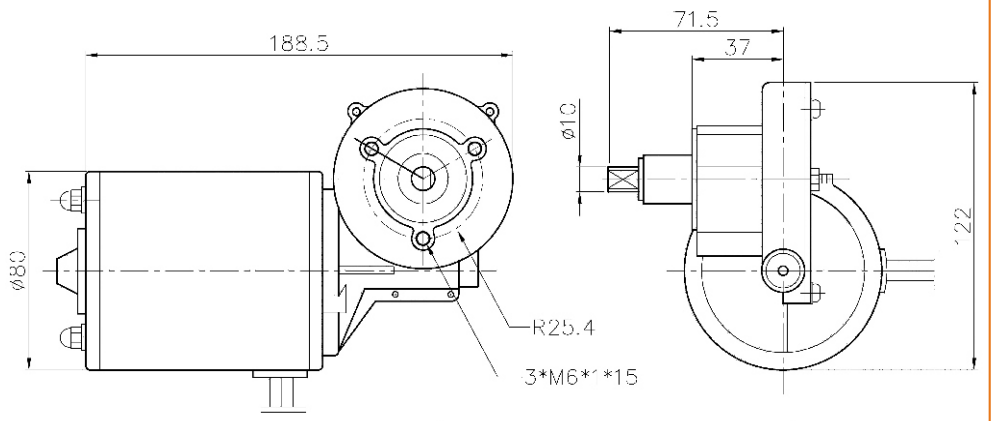
24VDC No Load 125rpm (RATIO：1/20)Torque/Speed Performance Curve



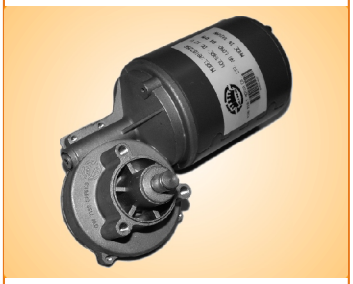
1	124.3	24.07	2.70	65.04	8.00	10.20	15.68
2	122.7	23.96	3.57	85.62	19.00	23.90	27.91
3	121.8	23.96	4.21	100.83	26.00	32.50	32.23
4	121.1	23.96	4.83	115.80	30.00	37.30	32.21
5	120.2	23.96	5.72	137.10	43.00	53.00	38.66
6	118.6	23.95	6.88	164.86	55.00	66.90	40.58
7	116.2	23.95	8.25	197.60	70.00	83.50	42.26
8	114.6	23.95	9.83	235.40	90.00	105.80	44.94
9	112.4	23.91	11.62	277.82	109.00	125.70	45.25
10	109.1	23.91	13.73	328.21	133.00	148.90	45.37
11	106.7	23.88	15.92	380.07	160.00	175.20	46.10
12	103.1	23.87	18.36	438.19	185.00	195.70	44.66
13	99.9	23.85	21.08	502.65	213.00	218.30	43.43
14	95.4	23.82	24.16	575.49	244.00	238.80	41.50
15	91.2	23.81	27.98	666.13	273.00	255.40	38.34
16	83.7	23.77	34.31	815.53	309.00	265.40	32.54

φ80mm ,Brass/plastic gear
Ratio (1/i) : 1/65

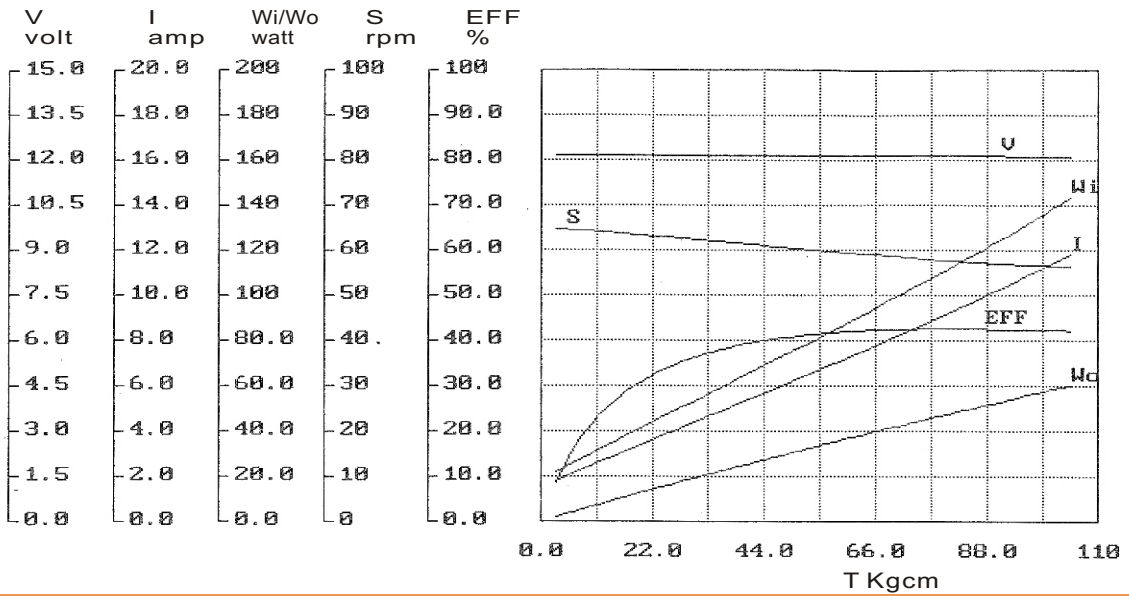
ASTG7256



* Plastic or Brass Metal Gear *



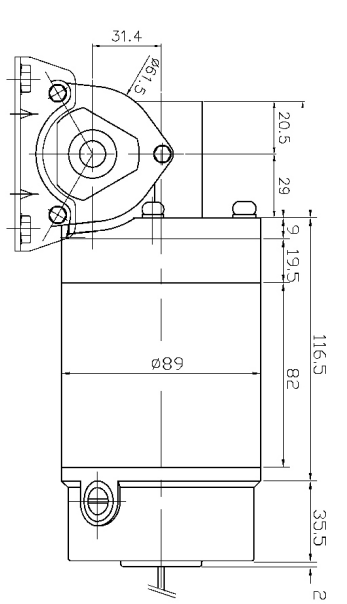
12VDC No Load 65rpm (RATIO：1/65)Torque/Speed Performance Curve

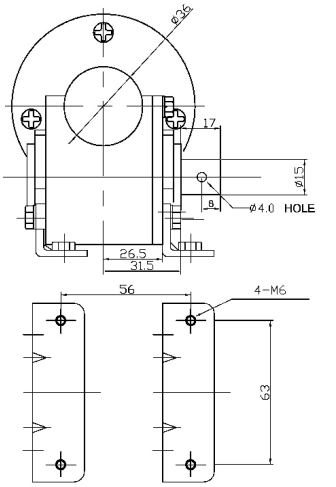


NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	65	12.16	1.82	22.1	2.90	1.9	8.6
2	63	12.16	3.22	39.2	17.60	11.4	29.1
3	62	12.13	4.60	55.8	32.80	20.9	37.5
4	61	12.13	6.07	73.6	48.10	30.1	40.9
5	59	12.13	7.56	91.7	63.00	38.1	41.5
6	59	12.13	8.94	108.4	78.30	47.4	43.7
7	55	12.12	10.60	128.0	93.30	52.6	43.1
8	57	12.13	10.23	124.1	90.30	52.8	42.5
9	57	12.12	12.01	145.8	106.10	61.0	41.0

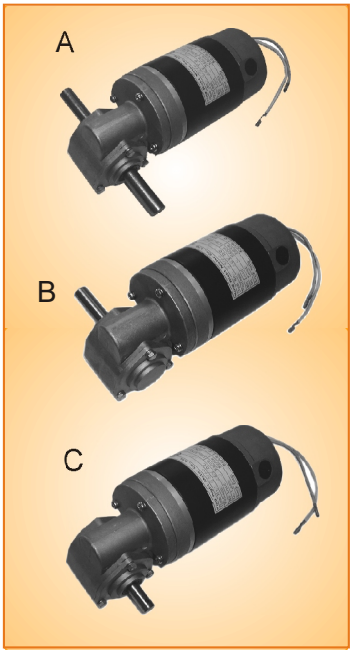
Φ89mm ,Brass gear
Ratio (1/i) : 1/6 , 1/10 , 1/15 , 1/30
Left/Right/Both Side output shaft option

G8156

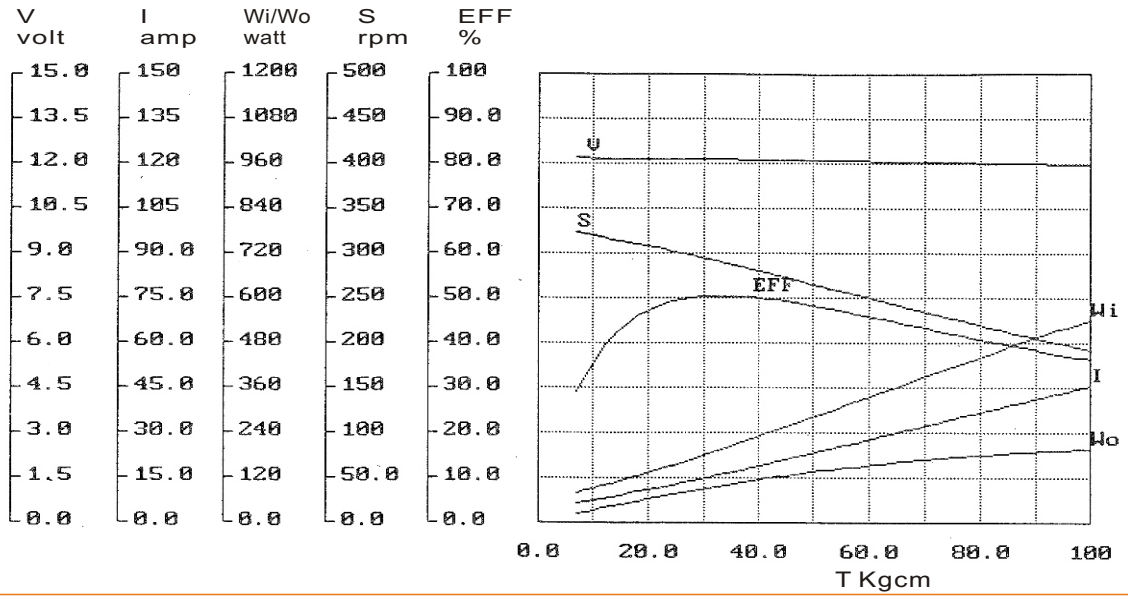




GEAR RATIO 1/6 , 1/10 , 1/15 , 1/30
METAL GEAR



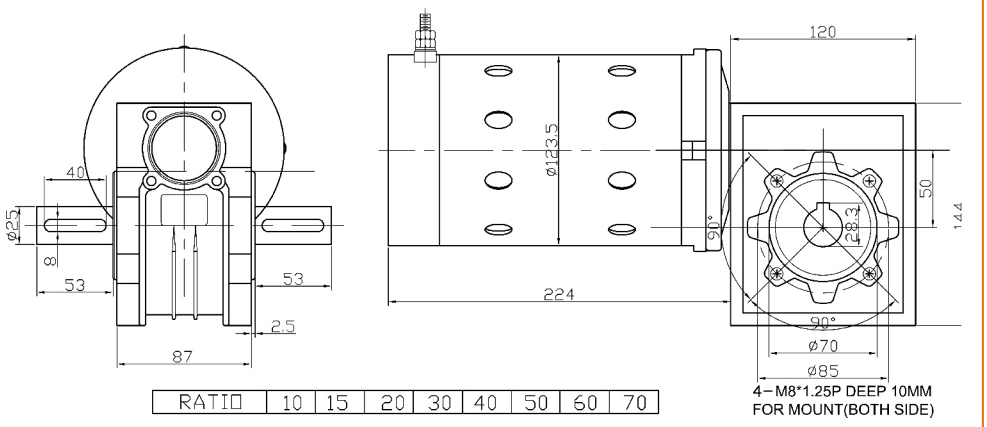
12VDC No Load 325rpm (RATIO：1/10)Torque/Speed Performance Curve



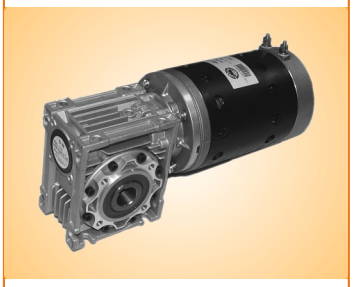
1	323.6	12.19	6.33	77.16	7.00	23.20	30.07
2	316.0	12.16	8.00	97.26	11.00	35.70	36.71
3	313.5	12.16	9.54	115.96	15.00	48.20	41.57
4	309.7	12.16	10.90	132.58	20.00	63.60	47.97
5	302.1	12.13	12.90	156.45	25.00	77.50	49.54
6	281.6	12.13	18.44	223.67	39.00	112.70	50.39
7	269.5	12.10	21.55	260.74	46.00	127.20	48.78
8	256.1	12.10	25.85	312.83	56.00	147.10	47.02
9	240.8	12.05	31.05	374.23	67.00	165.50	44.22
10	215.7	12.01	37.71	452.98	82.00	181.50	40.07
11	189.6	11.93	46.26	552.01	102.00	198.40	35.94

φ124mm ,Brass gear
Ratio (1/i) : 1/10 - 1/70
Stand : Option

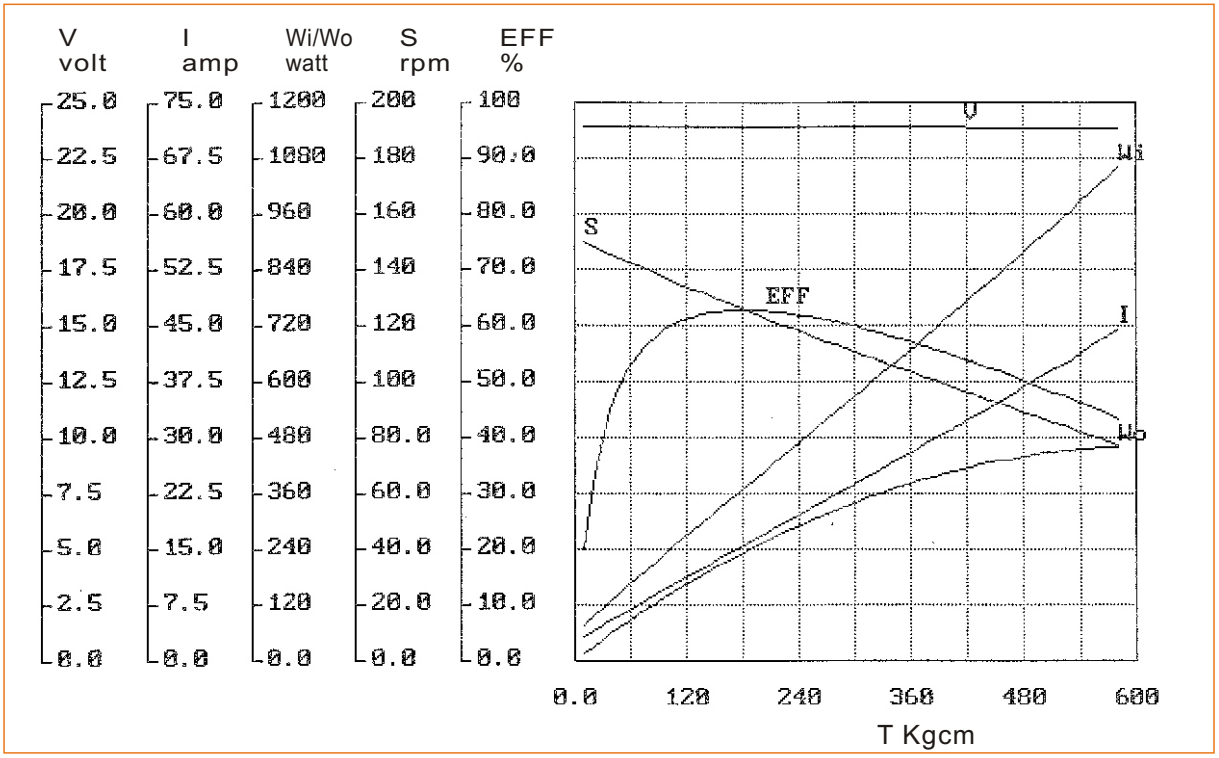
WG1188



RATIO	10	15	20	30	40	50	60	70



24VDC No Load 150rpm (RATIO : 1/10)Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	148.7	23.85	3.30	78.70	10.00	15.30	19.44
2	143.7	24.03	6.45	154.90	54.00	79.60	51.39
3	134.7	24.00	11.12	267.04	121.00	167.20	62.61
4	130.6	23.99	13.16	315.84	148.00	198.30	62.78
5	127.1	23.96	15.28	366.26	176.00	229.50	62.66
6	123.0	23.80	17.55	417.76	209.00	263.80	63.15
7	115.8	23.86	20.02	477.71	243.00	288.70	60.43
8	110.3	23.90	22.47	536.83	278.00	314.60	58.60
9	109.0	23.94	24.93	596.64	318.00	355.60	59.60
10	104.4	23.91	27.60	659.72	356.00	381.30	57.80
11	99.7	23.91	30.27	723.72	394.00	403.00	55.68
12	95.3	23.88	33.23	793.47	431.00	421.40	53.11
13	90.1	23.87	36.10	861.61	473.00	437.30	50.75
14	87.0	23.85	39.11	932.71	510.00	455.20	48.80
15	81.3	23.82	42.10	1002.70	550.00	458.80	45.76
16	75.3	23.81	45.20	1076.11	589.00	455.00	42.28

SPUR GEARED MOTOR

SF5539

Φ61mm

Ratio (1/ i) : 1/3 - 1/180

SP5539

Φ61mm

Ratio (1/i) : 1/10.5

SF6651

Φ70.5mm

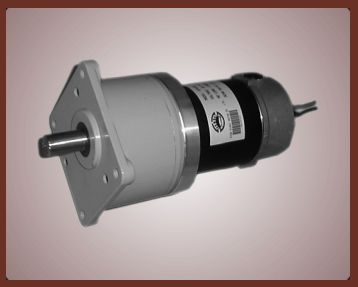
Ratio (1/ i) : 1/3 - 1/180

SF7152

Φ80mm

Ratio (1/ i) : 1/3 - 1/180

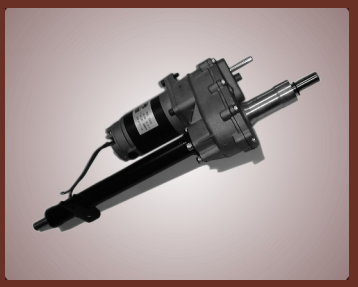
SF8156



Φ89mm

Ratio (1/ i) : 1/3 - 1/180

CH8156

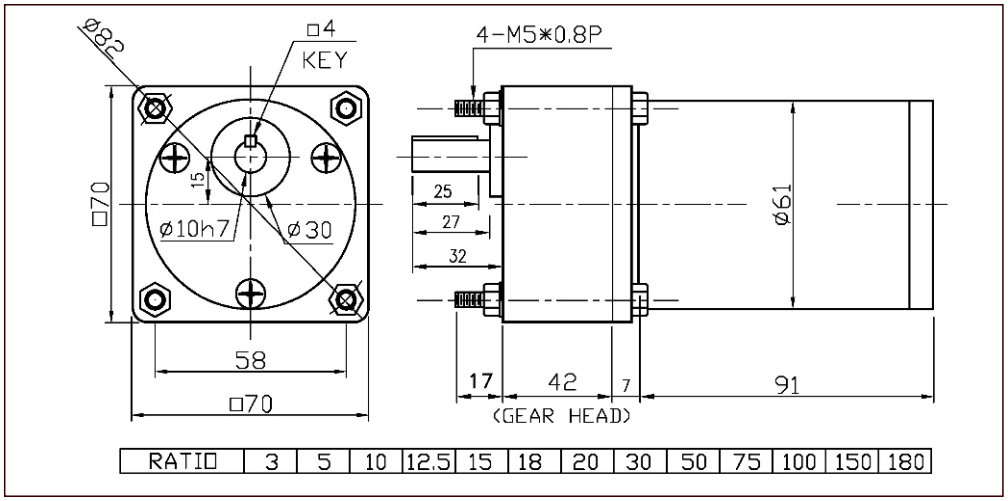


Φ89mm

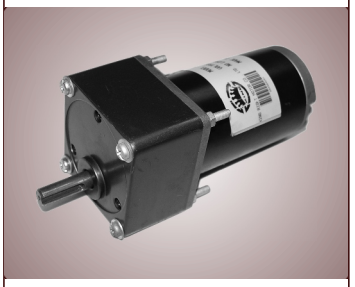
Ratio (1/ i) : 1/18 , 1/26 , 1/30

Motor dia ϕ61mm
Motor original torque : 8 - 16 Ncm
Gear ratio (1/ i) : 1/3 - 1/180

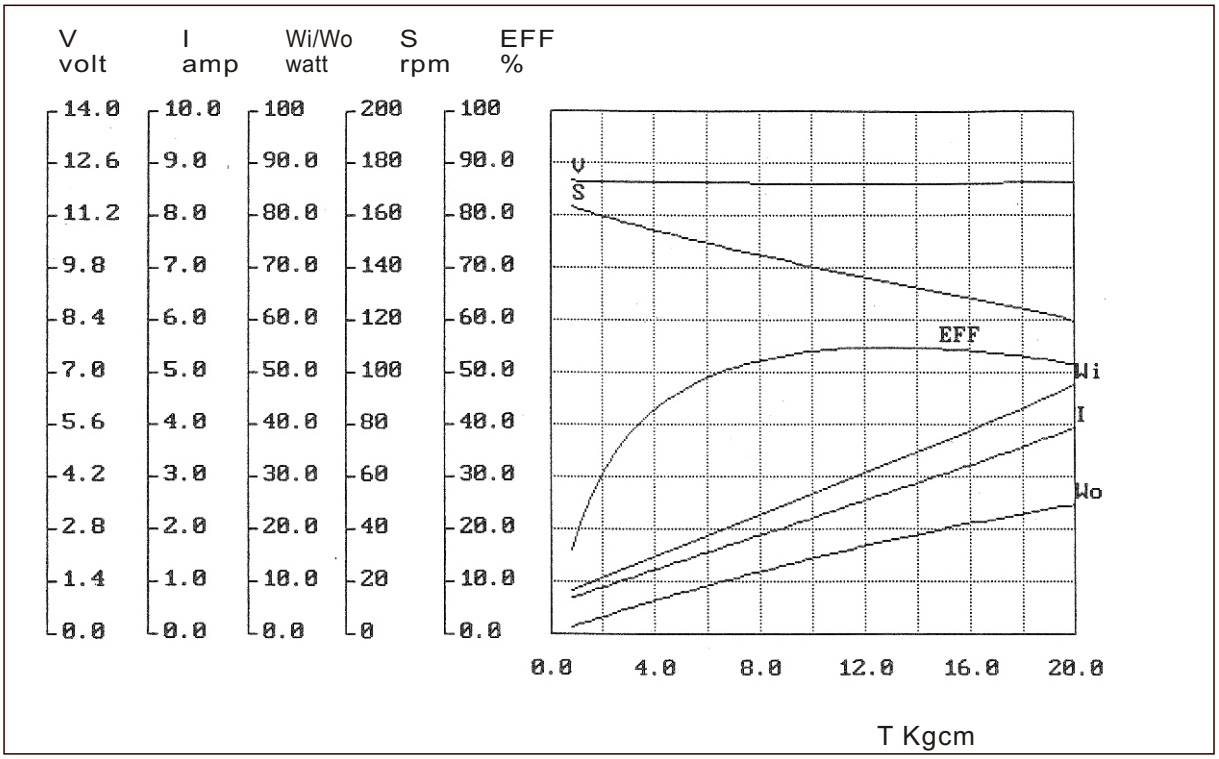
SF5539



RATIO	3	5	10	12.5	15	18	20	30	50	75	100	150	180



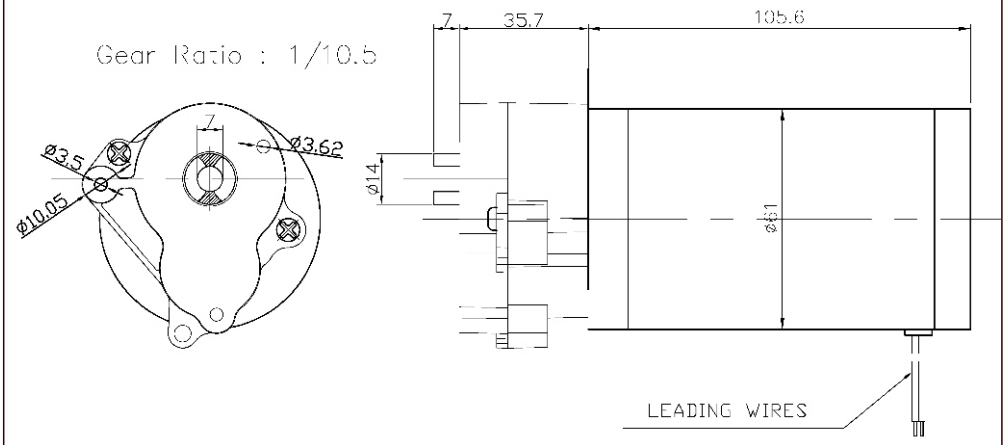
12VDC No Load 165rpm (RATIO : 1/12.5)Torque/Speed Performance Curve



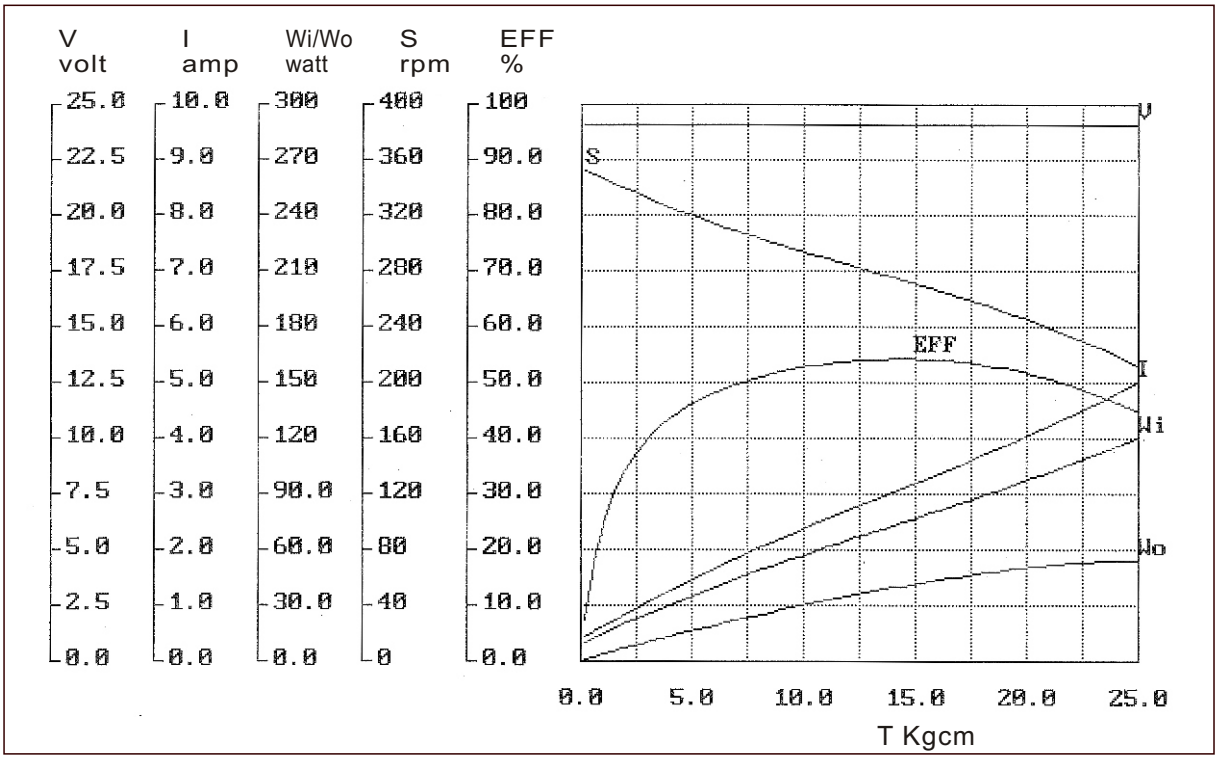
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	163	12.10	0.69	8.3	0.80	1.3	15.7
2	155	12.11	1.19	14.4	3.80	6.0	41.7
3	147	12.07	1.67	20.2	6.90	10.4	51.5
4	143	12.07	2.17	26.2	9.40	13.8	52.7
5	135	12.04	2.69	32.4	13.00	18.0	55.6
6	133	11.98	2.61	31.3	12.40	16.9	54.0
7	130	12.08	3.13	37.8	15.50	20.7	54.8
8	124	12.10	3.61	43.7	18.10	23.0	52.6
9	118	12.10	4.08	49.4	20.80	25.2	51.0

Motor dia φ61mm
Ratio (1/i) : 1/10.5

SP5539



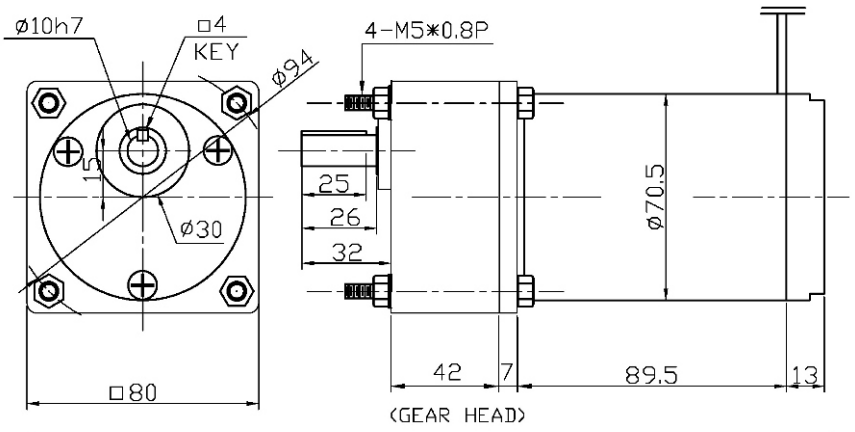
24VDC No Load 355rpm (RATIO : 1/10.5)Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	353	24.09	0.42	10.1	0.20	0.7	6.9
2	332	24.04	1.10	26.4	3.30	11.2	42.4
3	315	24.06	1.65	39.7	5.90	19.1	48.1
4	297	24.06	2.23	53.7	8.60	26.2	48.8
5	294	24.06	2.39	57.5	9.50	28.7	49.9
6	287	24.06	2.48	59.7	11.20	33.0	55.3
7	286	24.06	2.67	64.2	12.20	35.8	55.8
8	281	24.05	2.82	67.8	13.00	37.5	55.3
9	275	24.07	2.95	71.0	13.90	39.2	55.2
10	274	24.11	3.17	76.4	14.80	41.6	54.5
11	263	24.09	3.47	83.6	16.60	44.8	53.6
12	247	24.11	3.93	94.8	19.20	48.7	51.4
13	240	24.09	4.25	102.4	21.00	51.7	50.5
14	228	24.10	4.57	110.1	22.70	53.1	48.2
15	215	24.11	4.84	116.7	24.40	53.8	46.1
16	212	24.10	5.10	122.9	25.30	55.0	44.8

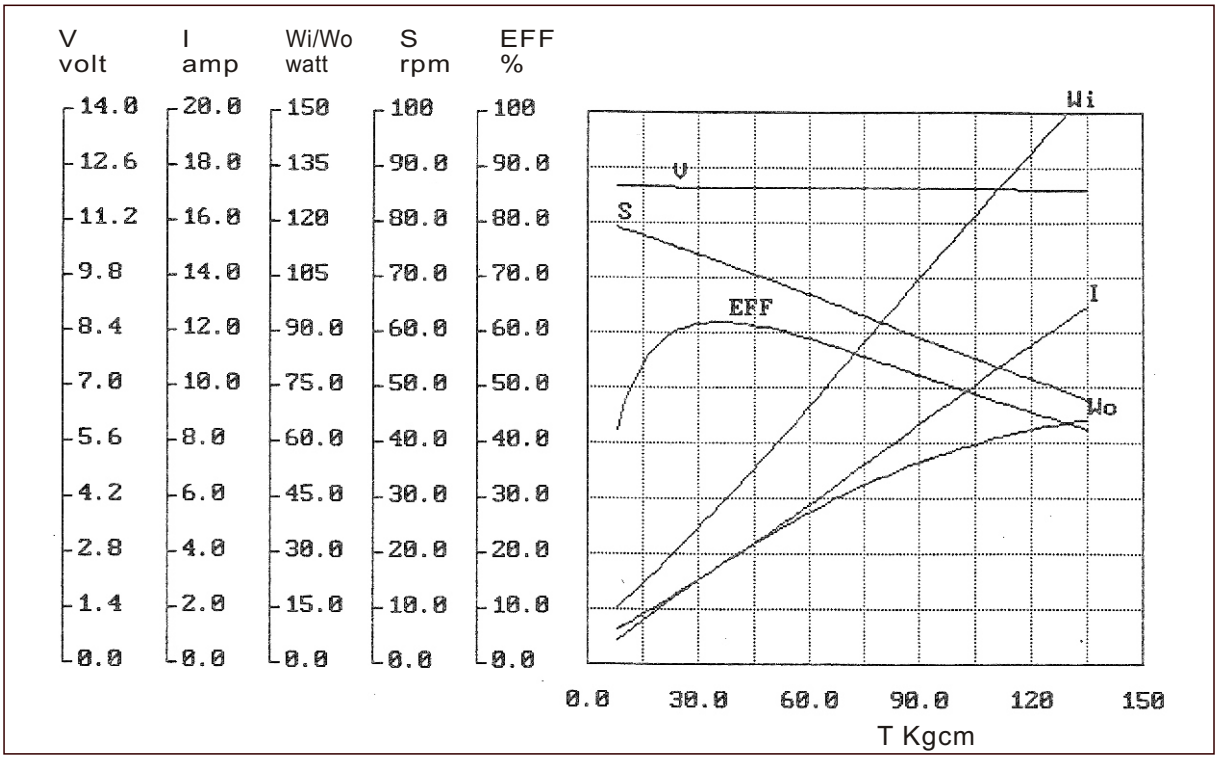
Motor dia ϕ 70.5mm
Motor original torque : 15 - 28 Ncm
Gear ratio (1/ i) : 1/3 - 1/180

SF6551



RATIO	3	5	10	12.5	15	18	20	30	50	75	100	150	180

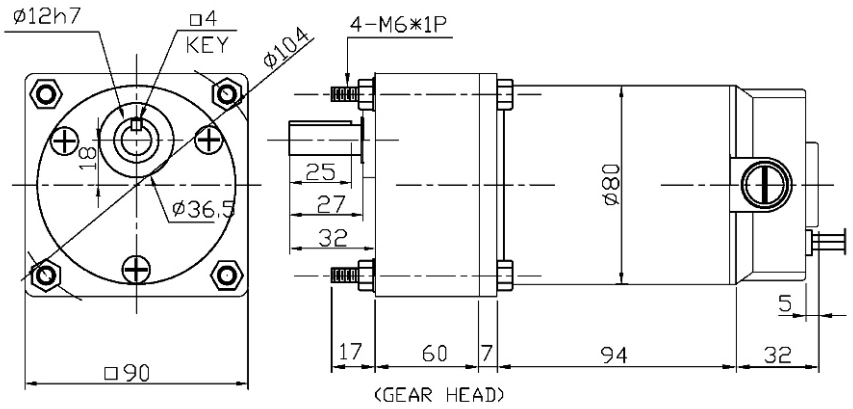
12VDC No Load 80rpm (RATIO：1/30)Torque/Speed Performance Curve



NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	78.7	12.13	1.38	16.78	8.00	6.50	38.74
2	78.6	12.13	1.67	20.23	16.00	12.90	63.77
3	75.9	12.10	2.47	29.93	22.00	17.10	57.13
4	74.1	12.10	3.07	37.12	30.00	22.80	61.42
5	72.4	12.10	3.58	43.33	36.00	26.70	61.62
6	71.2	12.10	4.49	54.35	46.00	33.60	61.82
7	67.7	12.09	5.37	64.94	55.00	38.20	58.82
8	65.0	12.09	6.62	79.99	69.00	46.00	57.51
9	60.4	12.07	8.15	98.42	84.00	52.10	52.94
10	56.3	12.07	9.64	116.30	101.00	58.30	50.13
11	52.4	12.07	11.49	138.70	119.00	64.00	46.14
12	47.0	12.04	13.13	158.16	137.00	66.10	41.79

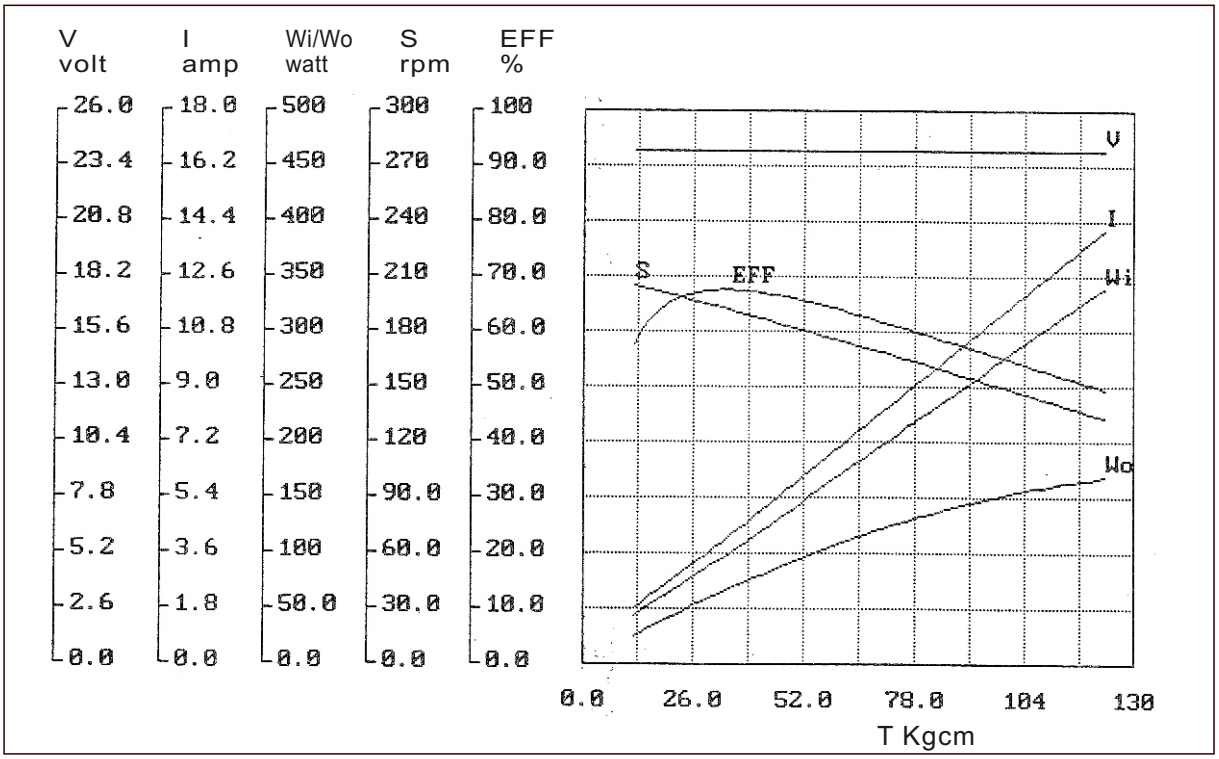
Motor dia ϕ80mm
Motor original torque : 26 - 36 Ncm
Gear ratio (1/ i) : 1/3 - 1/180

SF7152



RATIO	3	5	10	12.5	15	18	20	30	50	75	100	150	180

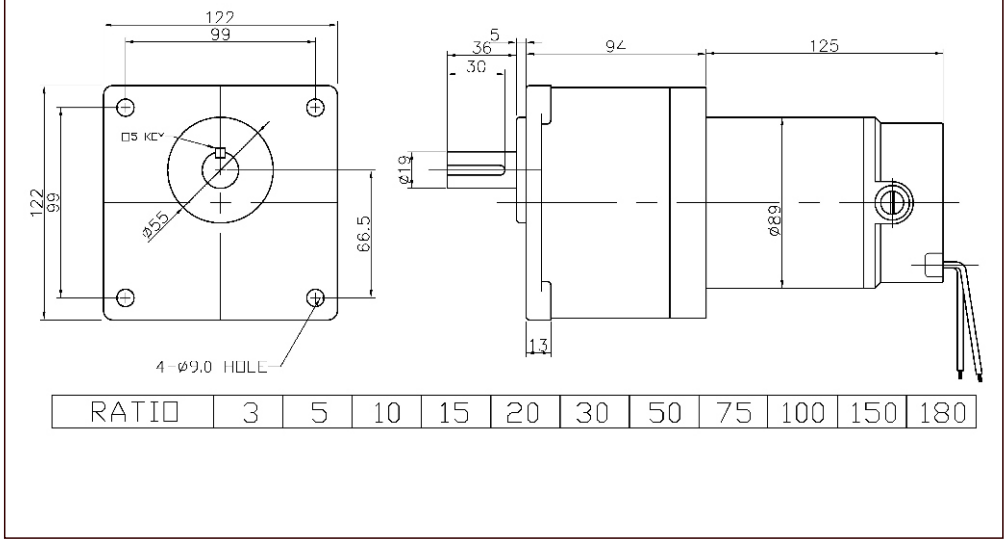
24VDC No Load 210rpm (RATIO : 1/12.5)Torque/Speed Performance Curve



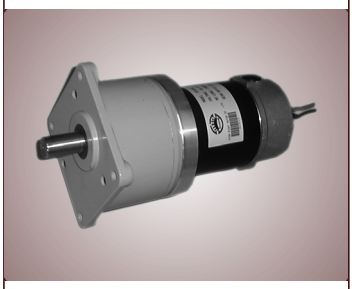
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	206.1	24.11	1.76	42.38	12.00	25.40	59.93
2	202.7	24.11	2.21	53.37	16.00	33.30	62.39
3	198.8	24.10	2.89	69.63	22.00	44.90	64.48
4	196.4	24.14	3.43	82.71	27.00	54.40	65.77
5	191.1	24.13	4.15	100.15	35.00	68.60	68.50
6	186.4	24.12	5.02	121.12	42.00	80.30	66.30
7	180.7	24.11	6.05	145.99	51.00	94.60	64.80
8	174.2	24.12	7.24	174.71	63.00	112.60	64.45
9	166.8	24.10	8.70	209.67	76.00	130.10	62.05
10	155.2	24.09	10.51	253.11	90.00	143.30	56.62
11	143.3	24.06	12.27	295.30	106.00	155.80	52.76
12	132.0	24.06	14.26	343.08	125.00	169.30	49.35

Motor dia Φ89mm
Motor original torque : 45 - 80 Ncm
Gear ratio (1/ i) : 1/3 - 1/180

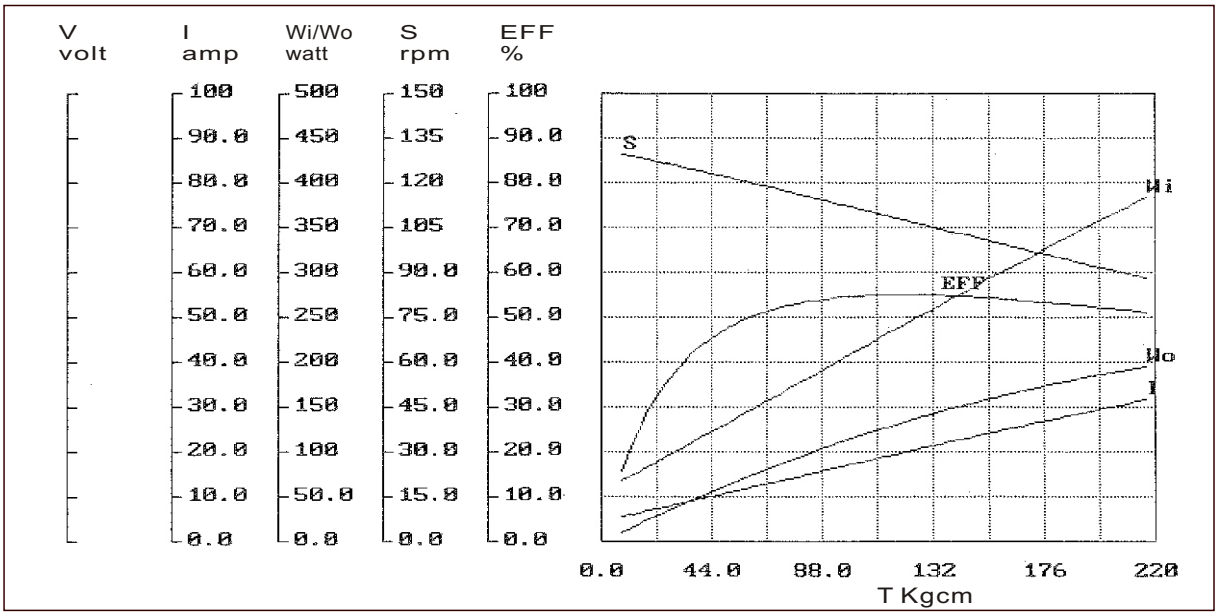
SF8156



RATIO	3	5	10	15	20	30	50	75	100	150	180



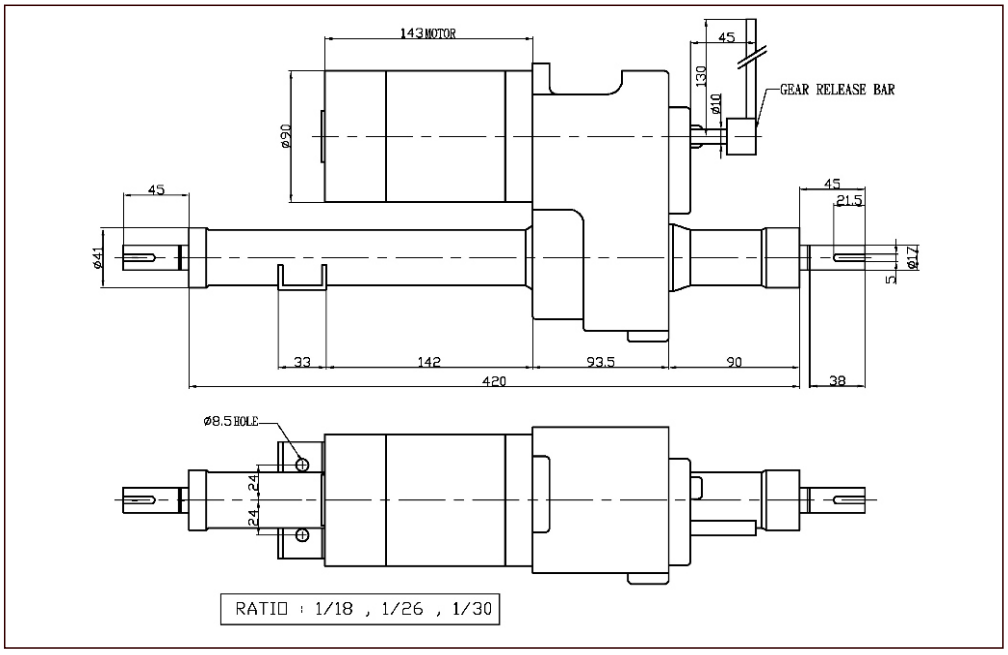
12VDC No Load 130rpm (RATIO：1/20)Torque/Speed Performance Curve



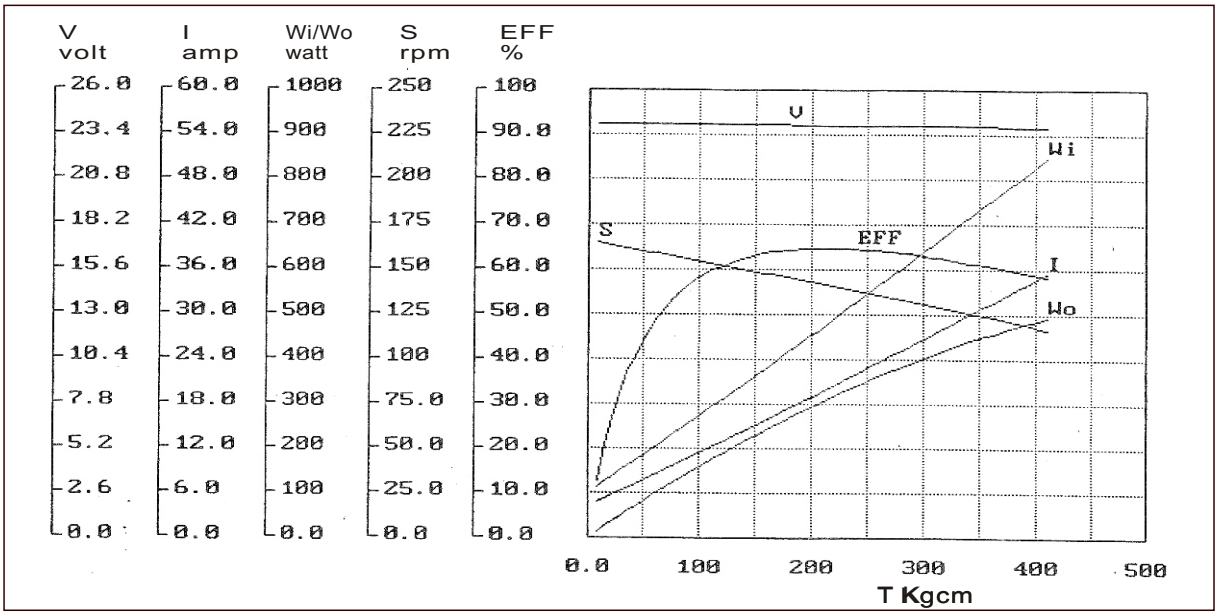
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	129.2	12.22	6.01	73.47	8.00	10.60	14.43
2	128.8	12.21	6.08	74.21	15.00	19.80	26.68
3	128.7	12.22	6.35	77.55	17.00	22.40	28.88
4	125.6	12.22	8.23	100.51	31.00	39.90	39.70
5	121.3	12.19	11.04	134.59	51.00	63.50	47.18
6	118.8	12.19	12.82	156.21	63.00	76.80	49.16
7	115.7	12.17	14.53	176.86	78.00	92.60	52.36
8	109.7	12.16	18.78	228.36	113.00	127.20	55.70
9	106.0	12.13	21.04	255.25	133.00	144.60	56.65
10	101.2	12.13	23.66	286.94	151.00	156.80	54.65
11	96.5	12.13	26.49	321.29	170.00	168.30	52.38
12	92.1	12.10	29.00	350.94	193.00	182.40	51.97
13	87.9	12.10	31.89	385.89	220.00	198.40	51.41

Motor dia ϕ89mm
Motor original torque : 45 - 80 Ncm
Gear ratio (1/ i) : 1/18 , 1/26 , 1/30

CH8156

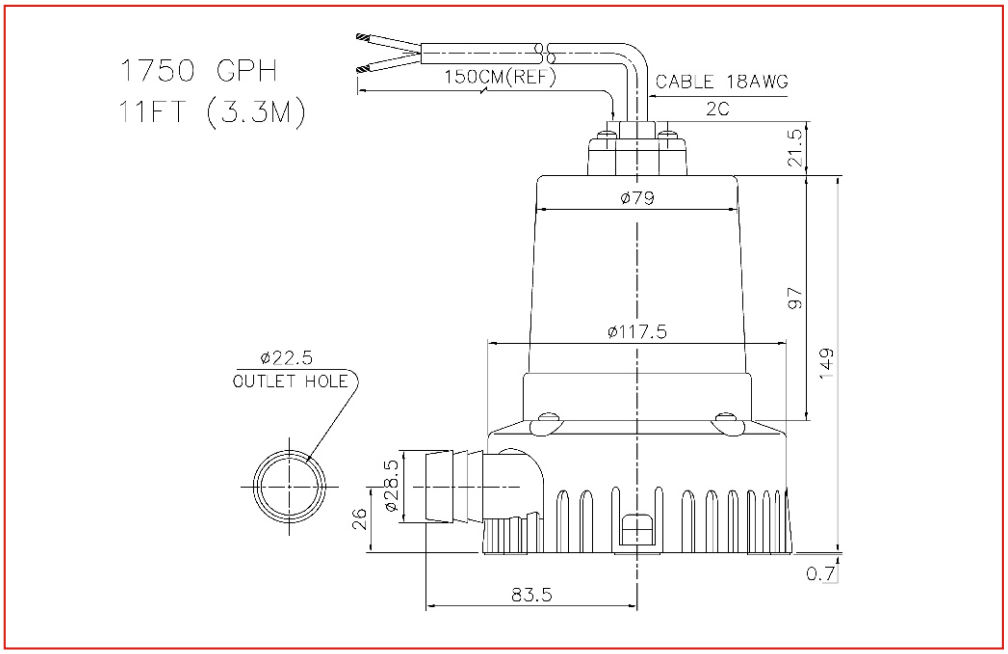


24VDC No Load 165rpm (RATIO：1/18)Torque/Speed Performance Curve

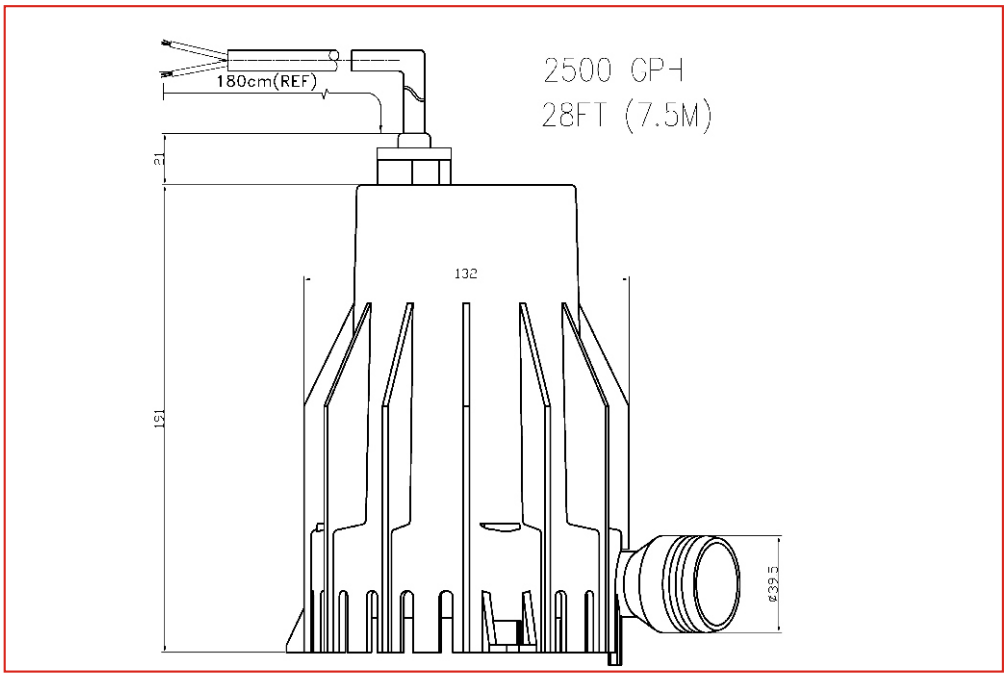


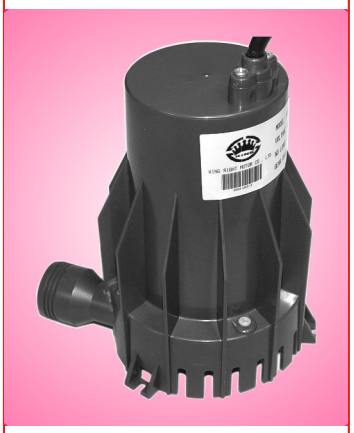
NO	R.P.M.	VOLT(V)	I(AMP)	INPUT(W)	TORQUE(KG-CM)	OUTPUT(W)	EFF(%)
1	164.3	24.02	5.01	120.54	8.50	15.10	12.40
2	164.2	24.02	5.33	128.05	20.00	33.70	26.32
3	158.1	24.00	9.06	217.42	71.00	115.20	52.99
4	153.4	23.99	12.26	294.26	111.00	174.70	59.37
5	150.3	23.99	14.15	339.57	136.00	209.70	61.75
6	147.5	23.97	16.15	387.29	163.00	246.70	63.70
7	143.8	23.96	18.37	440.00	191.00	281.80	64.05
8	140.2	23.94	20.65	494.37	224.00	320.80	64.69
9	136.8	23.93	23.10	552.78	253.00	355.10	64.24
10	132.6	23.92	25.63	613.08	287.00	390.50	63.69
11	129.3	23.90	28.10	671.51	317.00	420.50	62.62
12	124.7	23.89	30.71	733.63	351.00	449.10	61.22
13	120.9	23.86	33.28	793.89	382.00	473.80	59.68
14	115.8	23.85	36.02	858.97	417.00	495.40	57.67

BPEX1750



BPEX3000

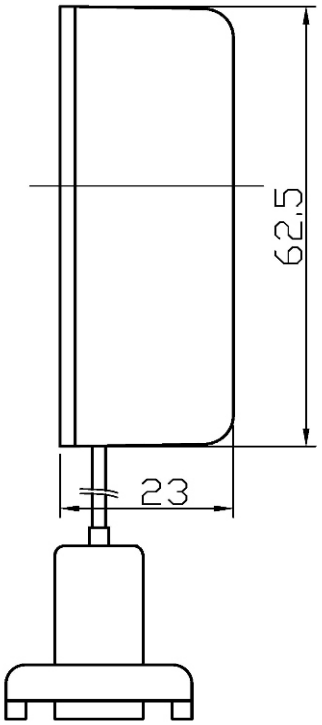




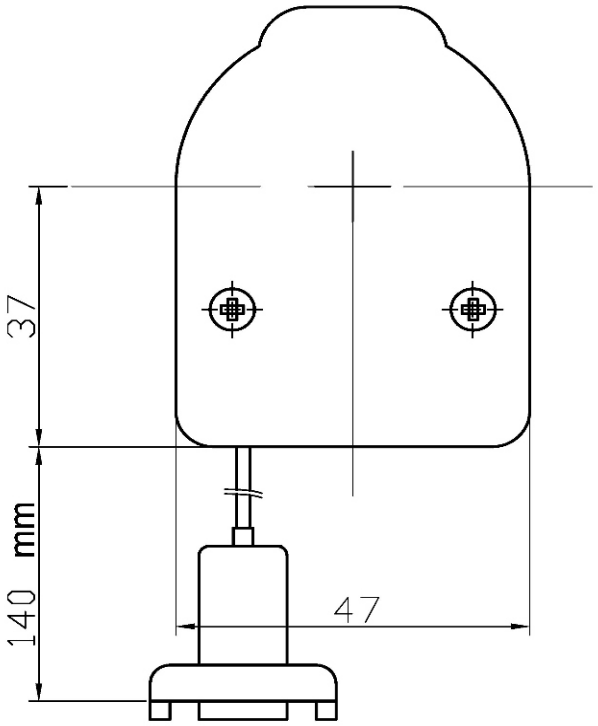
PUMP SPEC	BPEX1750	BPEX3000
POWER SOURCE	DC 12V/ 24V	DC 12V/24V
DELIVERY VOLUME	**1750 GPH**	**2500 GPH**
OUTLET DIA	1"	1 1/2"
CURRENT	**10A(12V)/5A(24V)**	**21A(12V)/10.5A(24V)**
DELIVERY HEAD	11FT(3.3M)	25FT(7.5M)

OPTICAL ENCODER SPECIFICATION

SIDE VIEW

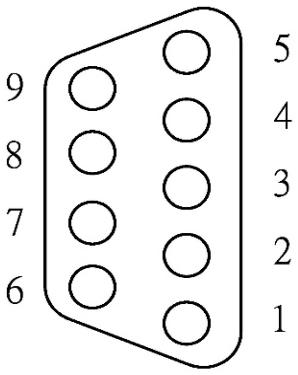


TOP VIEW



SPECIFICATION OF ENCODER	
Power supply	DC 5V (fixed)
Power consumption	< 80 mA
Output Mode	Line Driver
Pulse Number	500 PULSE 2 CHANNEL
Frequence Response	25 KHz Max.

Connector DB9 Female



Connection Detail

1.	Vcc (+5V)
2.	A+
3.	B+
4.	Z+ (OPTION)
5.	GND (0V)
6.	A-
7.	B-
8.	GND (0V)
9.	Z+(OPTION)

DC MOTOR SPEED CONTROLLER

ITEM CT-D05(12V)
ITEM CT-D10(24V)

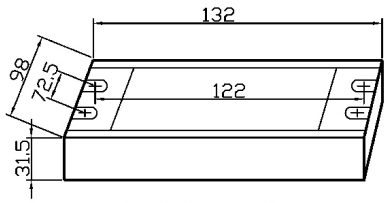
DC 12V or 24V

Adaptive motor :

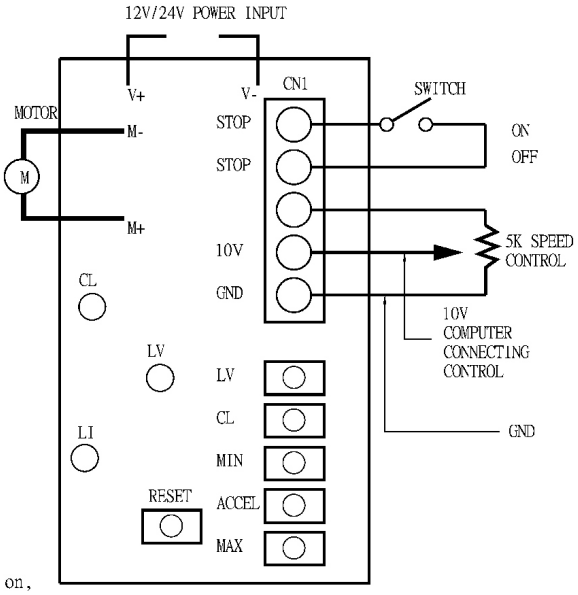
12V under 1/2 Hp
24V under 1 Hp

Control method :

1.PWM Drive Control
2.computer connecting control



OUTLINE DIMENSION



CONNECTING DETAIL

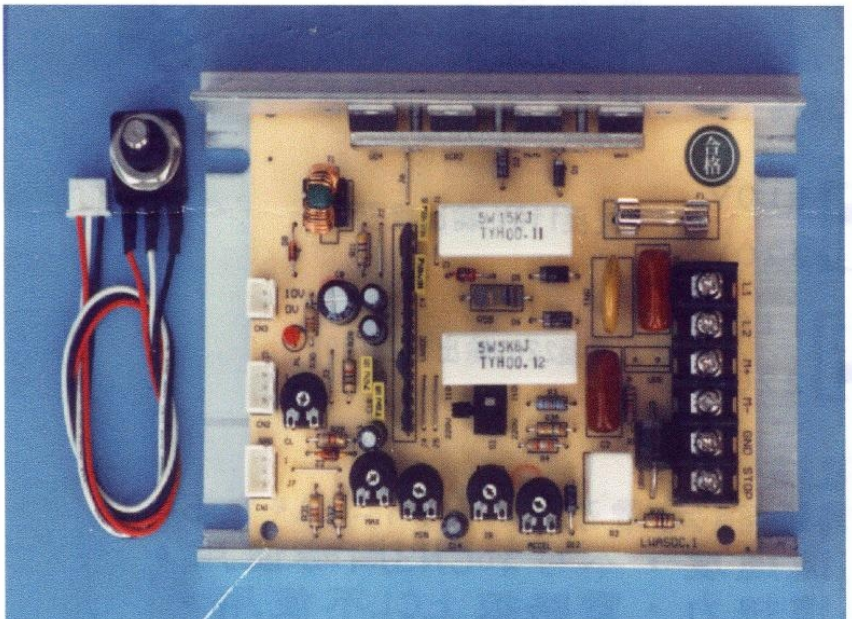
1. MIN SPEED : 0-30%
2. MAX SPEED : 50-100%
3. CN1 (COMPUTER CONNECTING)
   0-10V MOTOR SPEED CONTROL
   MAX & MIN Unavailable
   I/P Pin 4:10V ,O/P Pin 5:GND
4. CN1(START/STOP):PIN1&PIN2
5. CL(CURRENT LIMIT) :
   Motor rated current 150%-200%
   Automatically cut off the Voltage
   when Overload current 3 Sec.
6. LV : Set Aiready,Need not adjust
7. Accel(Acceleration time) : 0.5-4 sec.
8. Reset : When overload current,CL light on,
   Motor voltage Lockout,Push RESET
   button could release the situation.

A. CONTROLLING FUNCTION

1.The motor is controlled by high frequency pulse to reduce the loss of electricity rate.
2.Using starting buffer toprevent the motor and connecting gadget be broken.
3.Raising the output efficiency to reduce the loss of the power and the temperature rising.
4.Automatic compensatedwhen motor is on loaded that makes hi torque on the motor even running speed low.
5.Currentcould be set to prevent that the motor be broken by over load.
6.Highest and lowest speed couldbe set up.
7.Battery electricity weak indication.
8.According to the user's requirements to set theacceleration start.

DC MOTOR SPEED CONTROLLER

ITEM CT-A04

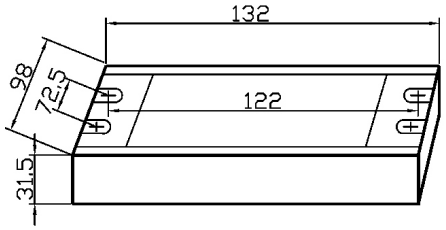


INPUT VOLTAGE
AC 110V or 220V

OUTPUTVOLTAGE
DC90V or 180V

Controlling method :

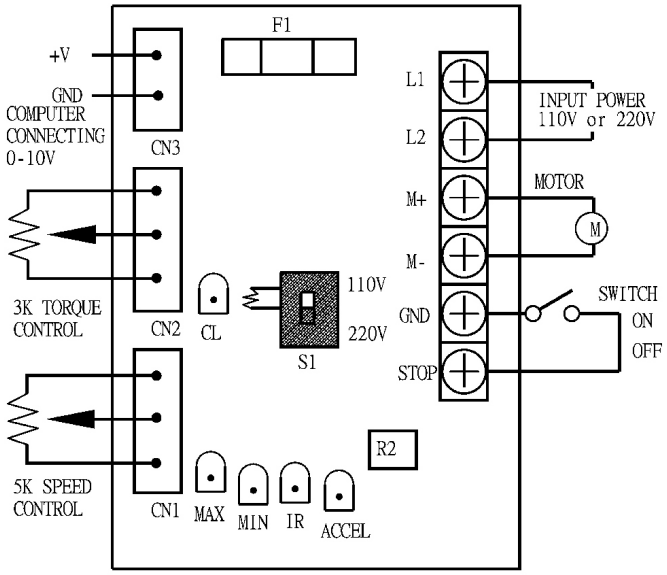
1.Motor Speed Control
2.Motor Torque Control
3.Computer connecting control



OUTLINE DIMENSION

CONNECTING DETAIL

1. MIN SPEED : 0-30%
2. MAX SPEED : 50-110%
3. IR (LOWER SPEED) : 0-35%
4. Accel(Acceleration time):0.5-4sec.
5. CL(CURRENT LIMIT) : 50-200%
6. S1 (INPUT VOLTAGE)
   INPUT 110VAC OUTPUT 90VDC
   INPUT 220VAC OUTPUT 180VDC
7. F1(FUSE) : MOTOR RATED CURRENT *1.5
8. CN1 (MOTOR SPEED CONTROL)
9. CN2 (MOTOR TORQUE CONTROL)
10. CN3 (COMPUTER CONNECTING):
    0-10V CONTROL MOTOR SPEED
    MAX , MIN Unavailable
    ACCEL got the function of fune adjust the highest speed.



CONTROLLING FUNCTION

1.Turn off reset to prevent the motor spurt abruptly.
2.Using starting buffer to prevent the motor and connecting gadget be broken.
3.Motor Speed modified automatically ,speed steady.
4.Automaticcompensated when motor is on loaded that makes hi torque on the motor even running speed low.
5.Current could be set to prevent that the motor be broken by over load.
6.Highest and lowest speed could be set up.