

DC BRUSHLESS PLANETARY GEAR MOTOR

DM-36PBL3630

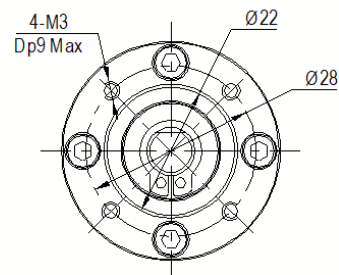
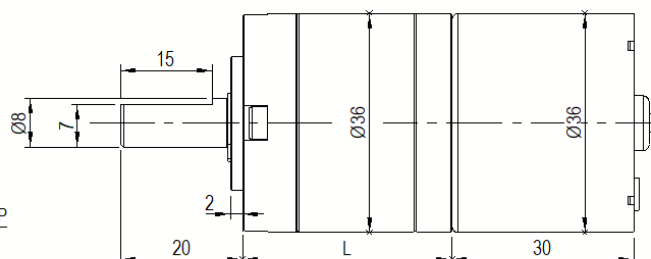
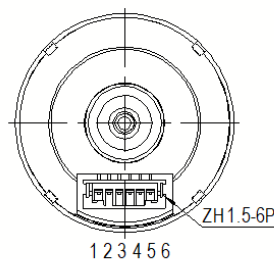
典型应用/Typical Applications :

自动快锁门、装订机、自动电视架、点钞机、聚光灯、卫生纸机、办公设备、家用电器、自动执行机构

Auto shutter, binding machine, automatic TV rack, money counter, spotlight, tissue machine, office equipments, household appliances, automatic actuator



APPEARANCE SIZE



unit: mm

Pin	Func.	Color/Specs	Details	
1	BR	White 24AWG UL1571	IN	VIH 1.8V~5.5V Running at VIH(no connection) VIL 0V~1.0V Brake at VIL
2	FG	Green 24AWG UL1571	OUT	Read the motor output frequency through this pin, calculate the motor rear speed (n=60*f/p)
3	F/R	Yellow 24AWG UL1571	IN	VIH 2.0V MIN. C.C.W (No connection) VIL 0.5V MAX. C.W (connect ground)
4	PWM	Blue 24AWG UL1571		Input frequency: 20~30KHz VIH 1.8V~5.5V full speed when connect grounding VIL 0V~1.65V Hysteresis Width 0.3V~0.4V High-Level Input Current 65uA MAX(PWM IN 5V) Low-Level Input Current -65uA~-95uA(PWM IN 0V)
5	GND	Black 24AWG UL1571	Power Supply "-"	
6	VCC	Red 24AWG UL1571	Power Supply "+"	

Gearbox Data :

Number of stages	1	2	3	4	5
Reduction Ratio i	3.7、5.2	14、19、27	51、71、100、139	189、264、369、515、721	977、1367、1910
Gearbox Length L (mm)	26.5	34.7	42.9	51.1	59.3
Breaking Torque (kgf.cm)	10	18	40	50	60
Gearbox Efficiency η	90%	81%	73%	65%	59%

BLDC Motor Data :

DC Motor Model	Rated	No load		Max efficiency load				Stall	
	Volt.	Current	Speed	Current	Speed (n _m)	Torque (t _m)	P.out	Torque	Current
	V	mA	r/min	mA	r/min	g.cm	W	g.cm	mA
DM-BL3630-012-3000	12	≤100	3000	≤430	2480	107.3	2.7	≥500	≥1350
DM-BL3630-012-4500	12	≤145	4500	≤710	3818	129.1	5.0	≥690	≥2600
DM-BL3630-012-6000	12	≤210	6000	≤1050	5086	142.0	7.4	≥760	≥3800
DM-BL3630-024-3000	24	≤70	3000	≤220	2374	112.0	2.8	≥430	≥530
DM-BL3630-024-4500	24	≤95	4500	≤340	3606	123.0	4.6	≥510	≥900
DM-BL3630-024-6000	24	≤135	6000	≤590	4982	161.3	8.3	≥790	≥1900

BLDC Geared Motor Data :

Gear Motor Model	Rated	No load		Max efficiency load				Stall	
	Volt.	Current	Speed	Current	Speed (n)	Torque (t)	P.out	Torque	Current
	V	A	r/min	A	r/min	N.m	W	N.m	A
DM-36PBL3630-0123000-3.7K	12	0.2	782.5	0.5	615.9	0.05	2.9	0.2	1.7
DM-36PBL3630-0123000-5.2K	12	0.2	543.8	0.5	439.9	0.06	2.6	0.3	1.7
DM-36PBL3630-0123000-14K	12	0.2	213.7	0.5	164.3	0.16	2.7	0.7	1.7
DM-36PBL3630-0123000-19K	12	0.2	149.6	0.5	117.7	0.21	2.6	1.0	1.7
DM-36PBL3630-0123000-27K	12	0.2	108.6	0.5	82.5	0.33	2.9	1.4	1.7
DM-36PBL3630-0123000-51K	12	0.2	57.5	0.5	43.5	0.56	2.5	2.3	1.7
DM-36PBL3630-0123000-71K	12	0.2	40.9	0.5	31.4	0.75	2.5	3.2	1.7
DM-36PBL3630-0123000-100K	12	0.2	30.0	0.5	22.6	1.08	2.6	4.4	1.7
DM-36PBL3630-0123000-139K	12	0.3	21.2	0.5	15.9	1.55	2.6	6.3	1.7
DM-36PBL3630-0123000-189K	12	0.3	15.4	0.5	12.0	1.58	2.0	7.3	1.7
DM-36PBL3630-0123000-264K	12	0.3	10.9	0.5	8.6	2.21	2.0	10.5	1.7
DM-36PBL3630-0123000-369K	12	0.3	8.2	0.5	6.2	3.16	2.0	13.0	1.7
DM-36PBL3630-0123000-515K	12	0.3	5.4	0.4	4.4	3.51	1.6	19.8	1.7
DM-36PBL3630-0123000-721K	12	0.3	4.1	0.5	3.14	5.95	2.0	24.8	1.7

DM-36PBL3630-0124500-3.7K	12	0.2	1138.4	1.0	911.2	0.06	6.0	0.3	3.4
DM-36PBL3630-0124500-5.2K	12	0.2	803.5	0.8	646.2	0.08	5.7	0.4	3.4
DM-36PBL3630-0124500-14K	12	0.2	296.6	1.0	238.8	0.22	5.4	1.1	3.4
DM-36PBL3630-0124500-19K	12	0.2	213.3	0.8	179.5	0.24	4.5	1.5	3.4
DM-36PBL3630-0124500-27K	12	0.2	155.8	0.8	125.8	0.37	4.8	1.9	3.4
DM-36PBL3630-0124500-51K	12	0.2	82.0	0.9	66.3	0.60	4.2	3.1	3.4
DM-36PBL3630-0124500-71K	12	0.2	55.6	0.8	47.4	0.79	3.9	5.3	3.4
DM-36PBL3630-0124500-100K	12	0.3	40.6	0.8	33.8	1.16	4.1	6.9	3.4
DM-36PBL3630-0124500-139K	12	0.4	29.9	0.8	24.2	1.80	4.6	9.4	3.4
DM-36PBL3630-0124500-189K	12	0.4	22.6	0.9	17.9	2.24	4.2	10.7	3.4
DM-36PBL3630-0124500-264K	12	0.4	15.5	0.8	12.8	2.79	3.7	15.9	3.4
DM-36PBL3630-0124500-369K	12	0.4	11.2	0.9	9.0	4.01	3.8	20.6	3.4
DM-36PBL3630-0124500-515K	12	0.4	7.9	0.7	6.7	4.21	3.0	27.0	3.4
DM-36PBL3630-0124500-721K	12	0.4	5.6	0.8	4.7	7.13	3.5	45.7	3.4
DM-36PBL3630-0126000-3.7K	12	0.3	1422.1	1.3	1216.2	0.07	8.3	0.5	5.0
DM-36PBL3630-0126000-5.2K	12	0.3	1037.7	1.2	856.2	0.09	8.5	0.5	5.0
DM-36PBL3630-0126000-14K	12	0.3	383.6	1.3	322.6	0.22	7.4	1.4	5.0
DM-36PBL3630-0126000-19K	12	0.3	284.4	1.2	236.6	0.29	7.3	1.7	5.0
DM-36PBL3630-0126000-27K	12	0.3	204.4	1.2	165.8	0.45	7.9	2.4	5.0
DM-36PBL3630-0126000-51K	12	0.3	100.8	1.2	89.0	0.61	5.7	5.2	5.0
DM-36PBL3630-0126000-71K	12	0.3	77.4	1.1	64.5	0.97	6.5	5.8	5.0
DM-36PBL3630-0126000-100K	12	0.3	55.1	1.3	44.0	1.60	7.4	7.9	5.0
DM-36PBL3630-0126000-139K	12	0.5	39.5	1.1	32.8	1.91	6.5	11.2	5.0
DM-36PBL3630-0126000-189K	12	0.5	28.3	1.4	23.7	2.23	5.5	13.6	5.0
DM-36PBL3630-0126000-264K	12	0.5	20.7	1.2	17.0	3.27	5.8	18.0	5.0
DM-36PBL3630-0126000-369K	12	0.5	15.3	1.2	12.1	4.38	5.5	21.0	5.0
DM-36PBL3630-0126000-515K	12	0.5	11.0	1.2	8.5	5.74	5.1	25.7	5.0
DM-36PBL3630-0126000-721K	12	0.5	7.7	1.1	6.3	7.44	4.9	42.8	5.0
DM-36PBL3630-0243000-3.7K	24	0.1	774.4	0.2	616.6	0.04	2.5	0.2	0.8
DM-36PBL3630-0243000-5.2K	24	0.1	548.2	0.2	435.2	0.05	2.4	0.3	0.8
DM-36PBL3630-0243000-14K	24	0.1	205.3	0.2	161.3	0.13	2.2	0.6	0.8
DM-36PBL3630-0243000-19K	24	0.1	148.8	0.2	120.0	0.17	2.1	0.9	0.8
DM-36PBL3630-0243000-27K	24	0.1	107.9	0.2	83.8	0.27	2.4	1.2	0.8
DM-36PBL3630-0243000-51K	24	0.1	56.0	0.2	44.8	0.41	1.9	2.0	0.8
DM-36PBL3630-0243000-71K	24	0.1	40.8	0.2	32.1	0.58	2.0	2.7	0.8
DM-36PBL3630-0243000-100K	24	0.1	29.6	0.2	22.4	0.94	2.2	3.9	0.8
DM-36PBL3630-0243000-139K	24	0.1	20.8	0.2	16.7	1.10	1.9	5.5	0.8
DM-36PBL3630-0243000-189K	24	0.1	14.9	0.2	12.0	1.32	1.7	6.8	0.8
DM-36PBL3630-0243000-264K	24	0.1	10.8	0.2	8.6	1.91	1.7	9.5	0.8
DM-36PBL3630-0243000-369K	24	0.1	7.8	0.2	6.2	2.43	1.6	12.2	0.8
DM-36PBL3630-0243000-515K	24	0.1	5.4	0.2	4.4	3.22	1.5	17.0	0.8
DM-36PBL3630-0243000-721K	24	0.1	3.9	0.2	3.1	4.81	1.5	22.0	0.8
DM-36PBL3630-0244500-3.7K	24	0.1	1087.2	0.4	912.2	0.04	4.1	0.3	1.5
DM-36PBL3630-0244500-5.2K	24	0.1	829.3	0.4	654.6	0.07	5.1	0.4	1.5
DM-36PBL3630-0244500-14K	24	0.1	296.3	0.4	243.4	0.16	3.9	0.9	1.5
DM-36PBL3630-0244500-19K	24	0.1	223.9	0.4	174.5	0.26	4.8	1.2	1.5
DM-36PBL3630-0244500-27K	24	0.1	165.8	0.4	123.8	0.38	5.0	1.5	1.5
DM-36PBL3630-0244500-51K	24	0.1	81.5	0.4	65.4	0.56	3.8	2.8	1.5
DM-36PBL3630-0244500-71K	24	0.1	62.5	0.4	47.8	0.97	4.9	4.1	1.5
DM-36PBL3630-0244500-100K	24	0.1	44.5	0.4	33.8	1.34	4.7	5.6	1.5
DM-36PBL3630-0244500-139K	24	0.1	31.3	0.4	24.8	1.61	4.2	7.8	1.5
DM-36PBL3630-0244500-189K	24	0.2	21.7	0.4	18.0	1.58	3.0	9.2	1.5
DM-36PBL3630-0244500-264K	24	0.2	16.7	0.5	12.7	2.59	3.4	10.9	1.5
DM-36PBL3630-0244500-369K	24	0.2	12.0	0.4	9.1	3.65	3.5	15.4	1.5
DM-36PBL3630-0244500-515K	24	0.2	8.5	0.5	6.5	4.43	3.0	18.4	1.5
DM-36PBL3630-0244500-721K	24	0.2	5.9	0.4	4.8	6.02	3.0	33.0	1.5
DM-36PBL36300246000-3.7K	24	0.3	1513.4	0.8	1216.2	0.08	10.3	0.4	2.5
DM-36PBL3630-0246000-5.2K	24	0.3	1073.3	0.7	865.4	0.11	9.8	0.6	2.5
DM-36PBL3630-0246000-14K	24	0.3	414.6	0.8	329.4	0.27	9.3	1.3	2.5
DM-36PBL3630-0246000-19K	24	0.3	293.4	0.7	236.8	0.35	8.7	1.8	2.5

