

DMN37 Motor

DMN37 Series

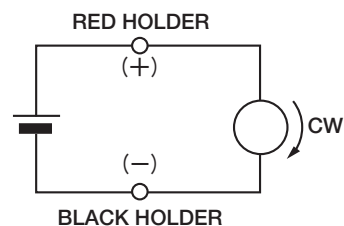


■ Specification

TYPE	RATED						NO LOAD		STALL		WEIGHT	
	OUT PUT	VOLTAGE	TORQUE		CURRENT	SPEED	CURRENT	SPEED	TORQUE			
	W	V	mN·m	oz·in	A	r/min	A	r/min	mN·m	oz·in	g	lb
DMN37SA	4.6	12	9.8	1.39	0.78	4500	0.26	5500	54	7.64	130	0.29
DMN37SB	4.6	24	9.8	1.39	0.37	4500	0.12	5500	54	7.64	130	0.29
DMN37BA	7.2	12	14.7	2.09	1.01	4700	0.25	5500	98	13.89	180	0.40
DMN37BB	7.2	24	14.7	2.09	0.53	4700	0.13	5500	98	13.89	180	0.40
DMN37KA	9.2	12	24.5	3.48	1.20	3600	0.27	4300	160	23.61	210	0.46
DMN37KB	9.2	24	24.5	3.48	0.60	3600	0.14	4300	160	23.61	210	0.46
DMN37JB	14.7	24	39.2	5.56	0.94	3600	0.16	4300	240	24.72	240	0.53

※Intermittent ratings are given for DMN37JB. (DUTY50%)

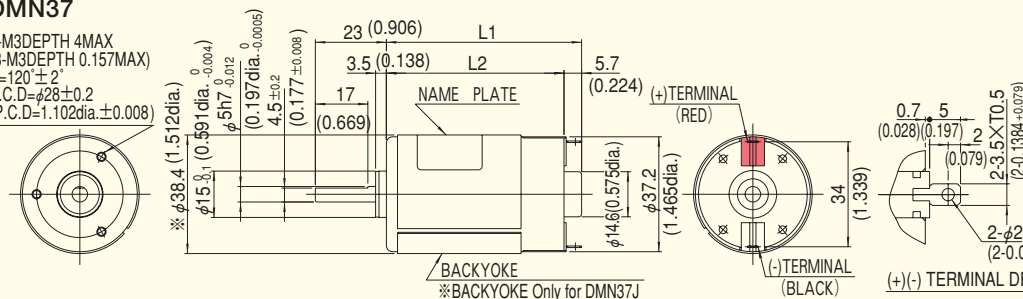
■ Connection



■ Outline

DMN37

3-M3DEPTH 4MAX
(3-M3DEPTH 0.157MAX)
P=120°±2°
P.C.D.=φ28±0.2
(P.C.D.=1.102dia.±0.008)



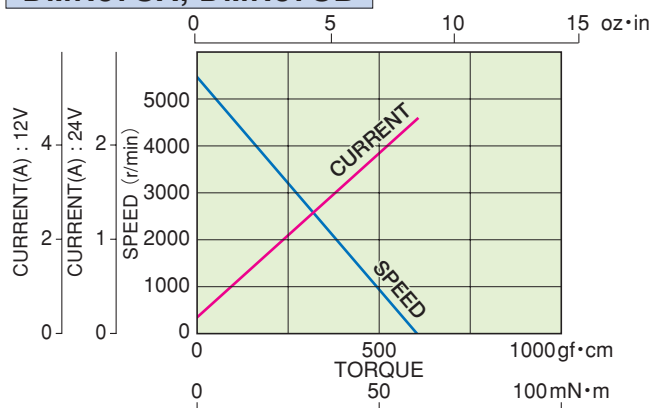
■ DIMENSIONS Unit mm(inch)

MODEL	L1		L2	
	mm	inch	mm	inch
DMN37S	45.2	1.780	39.5	1.555
DMN37B	53.2	2.094	47.5	1.870
DMN37K	58.2	2.291	52.5	2.067
DMN37J	63.2	2.488	57.5	2.264

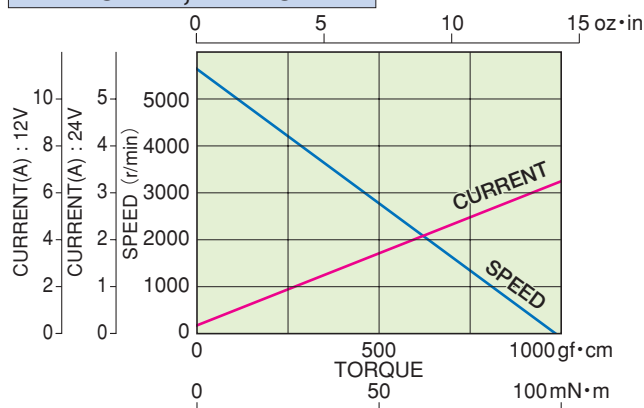
(+)(-) TERMINAL DETAILED DRAWING

CURRENT, SPEED-TORQUE CURVE

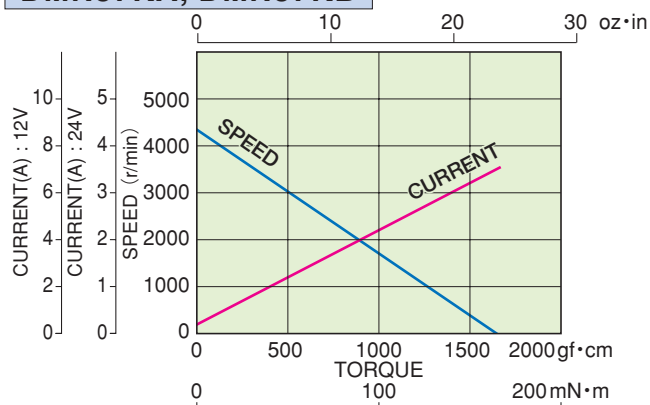
DMN37SA, DMN37SB



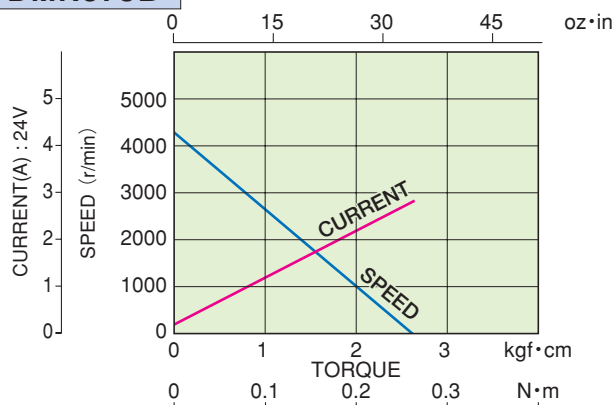
DMN37BA, DMN37BB



DMN37KA, DMN37KB



DMN37JB



DMN37 Motor

50G

Continuous Operation



■ Specification

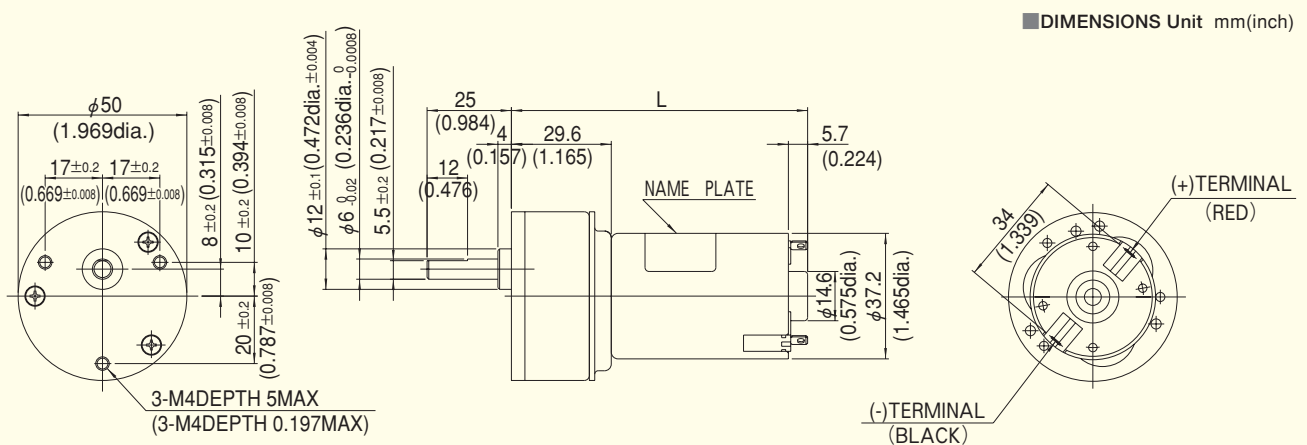
GEAR RATIO	DMN37S50G□◇			DMN37B50G□◇			DMN37K50G□◇		
	RATED TORQUE		SPEED	RATED TORQUE		SPEED	RATED TORQUE		SPEED
	N•m	oz•in	r/min	N•m	oz•in	r/min	N•m	oz•in	r/min
9	0.071	10.2	500	0.10	15.3	522	0.17	25.0	400
18	0.13	19.5	250	0.21	30.6	261	0.35	50.1	200
27	0.18	28.4	166	0.28	40.3	174	0.48	68.2	133
36	0.25	36.2	125	0.38	54.3	130	0.63	90.4	100
54	0.38	54.3	83.3	0.58	82.1	87.0	0.96	136	66.6
72	0.51	72.3	62.5	0.76	110	65.2	0.98	136	52.3

※Enter the required reduction ratio in the .

※ ☐ Rotation of gearbox shaft is in reverse of rotation of motor.

※Enter the required voltage A or B in the ◇.

■ Outline



MODEL	L		WEIGH	
	mm	inch	g	lb
DMN37S50G□◇	74.8	2.945	270	0.60
DMN37B50G□◇	82.8	3.260	320	0.71
DMN37K50G□◇	87.8	3.457	350	0.77



Specification

6DG□	DMN37S6HP◇			DMN37B6HP◇			DMN37K6HP◇		
GEAR RATIO	RATED TORQUE		SPEED	RATED TORQUE		SPEED	RATED TORQUE		SPEED
	N·m	oz·in	r/min	N·m	oz·in	r/min	N·m	oz·in	r/min
3	0.024	3.34	1500	0.035	5.0	1567	0.060	8.49	1200
3.6	0.028	4.03	1250	0.042	6.0	1306	0.072	10.2	1000
5	0.039	5.56	900	0.059	8.3	940	0.098	13.9	720
6	0.047	6.68	750	0.072	10.2	783	0.12	16.7	600
7.5	0.060	10.2	600	0.089	12.7	627	0.15	20.9	480
9	0.072	13.9	500	0.11	15.3	522	0.18	25.0	400
12.5	0.098	16.7	360	0.15	20.9	376	0.25	34.8	288
15	0.12	19.5	300	0.18	25.0	313	0.29	41.7	240
18	0.14	25.0	250	0.22	30.6	261	0.35	50.0	200
※ 25	0.18	30.6	180	0.26	37.6	188	0.44	62.6	144
※ 30	0.22	36.2	150	0.32	45.9	157	0.53	75.1	120
※ 36	0.25	50.1	125	0.38	54.3	131	0.64	90.4	100
※ 50	0.35	59.8	90.0	0.53	75.1	94	0.89	127	72
※ 60	0.42	75.1	75.0	0.64	90.4	78	0.98	139	61
※ 75	0.53	90.4	60.0	0.80	114	63	0.98	139	51
※ 90	0.64	102	50.0	0.96	136	52	0.98	139	43
※ 100	0.72	121	45.0	0.98	139	48	0.98	139	39
※ 120	0.85	136	37.5	0.98	139	41	0.98	139	33
150	0.96	139	30.0	0.98	139	33	0.98	139	27
180	0.98	139	25.9	0.98	139	28	0.98	139	23
225	0.98	139	21.4	0.98	139	23	0.98	139	18
250	0.98	139	19.6	0.98	139	21	0.98	139	17
300	0.98	139	16.6	0.98	139	17	0.98	139	14
360	0.98	139	14.1	0.98	139	15	0.98	139	12
450	0.98	139	11.5	0.98	139	12	0.98	139	9.3
※ 500	0.98	139	10.3	0.98	139	11	0.98	139	8.4
※ 600	0.98	139	8.7	0.98	139	8.9	0.98	139	7.0
※ 750	0.98	139	7.0	0.98	139	7.2	0.98	139	5.6
※ 900	0.98	139	5.9	0.98	139	6.0	0.98	139	4.7
※ 1500	0.98	139	3.6	0.98	139	3.6	0.98	139	2.8
※ 1800	0.98	139	3.0	0.98	139	3.0	0.98	139	2.4

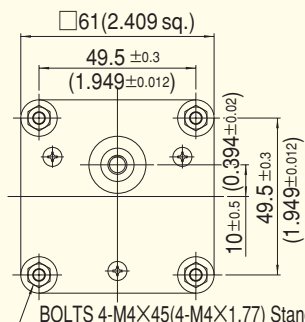
※ Enter the required reduction ratio in the □.

※ □ Rotation of gearbox shaft is in reverse of rotation of motor.

※ Enter the required voltage A or B in the ◇.

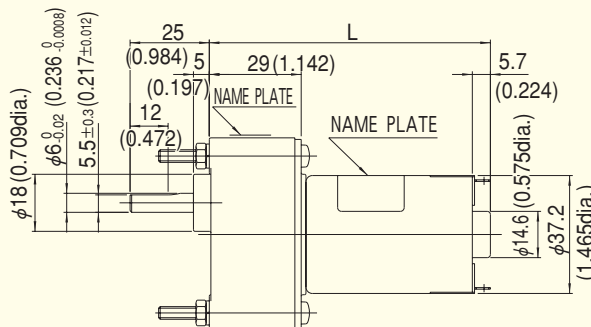
Outline

DMN37□6HP◇+6DG□

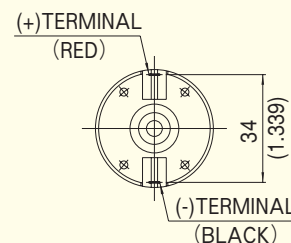


BOLTS 4-M4X45(4-M4X1.77) Standard type

4-M4 DEPTH 6MAX.(4-M4 DEPTH 0.23MAX.) Order made type



■ DIMENSIONS Unit mm(inch)



NOTE:

6DG gearbox are available with either 4.5mm diameter mounting holes or M4 x 6mm tapped holes.

- Gearboxes with 4.5mm diameter mounting holes are available from stock.

When ordering, please write the motor model and gearbox model numbers separately, as in the following example: DMN37B6HP◇ (Pinion shaft motor) 6DG□ (Gearbox)

- Gearboxes with M4 x 6mm tapped mounting holes are available on request.

When ordering, please write the combine motor and gearbox model, as in the following example : DMN37B6H□◇

- Enter the required reduction ratio in the □.

- Enter the required voltage A or B in the ◇.

MODEL	L		WEIGHT	
	mm	inch	g	lb
DMN37S6HP◇+6DG□	75.7	2.980	390	0.86
DMN37B6HP◇+6DG□	83.7	3.295	440	0.97
DMN37K6HP◇+6DG□	88.7	3.492	470	1.0



Specification

GEAR RATIO	DMN37B6HFP◇			DMN37K6HFP◇			DMN37J6HFPPB		
	RATED TORQUE		SPEED	RATED TORQUE		SPEED	RATED TORQUE		SPEED
	N·m	oz·in	r/min	N·m	oz·in	r/min	N·m	oz·in	r/min
3	0.035	5.01	1560	0.059	13.5	1200	0.095	13.5	1200
3.6	0.042	5.98	1300	0.072	15.3	1000	0.11	15.3	1000
5	0.059	0.00	940	0.098	22.3	720	0.16	22.3	720
6	0.072	10.2	783	0.12	26.4	600	0.19	26.4	600
7.5	0.089	12.7	626	0.15	33.4	480	0.24	33.4	480
9	0.11	15.3	522	0.18	40.3	400	0.28	40.3	400
※ 12.5	0.13	18.1	376	0.22	50.1	288	0.35	50.1	288
※ 15	0.16	22.3	313	0.26	59.8	240	0.42	59.8	240
※ 18	0.19	26.4	261	0.32	72.3	200	0.51	72.3	200
※ 25	0.26	37.6	188	0.44	102	144	0.72	102	144
※ 30	0.32	45.9	156	0.53	121	120	0.85	121	120
※ 36	0.38	54.3	130	0.64	139	100	0.98	139	100
50	0.48	68.2	94.0	0.80	181	72.0	1.3	181	72.0
60	0.58	82.1	78.3	0.96	209	60.0	1.5	209	60.0
75	0.73	103	62.6	1.2	264	48.0	1.9	264	48.0
90	0.86	122	52.2	1.4	320	40.0	2.3	320	40.0
100	0.96	136	47.0	1.6	348	36.0	2.5	348	36.3
120	1.2	163	39.1	1.9	348	30.0	2.5	348	31.2
150	1.4	199	31.3	2.4	348	24.0	2.5	348	25.7
180	1.7	235	26.1	2.5	348	20.6	2.5	348	21.8

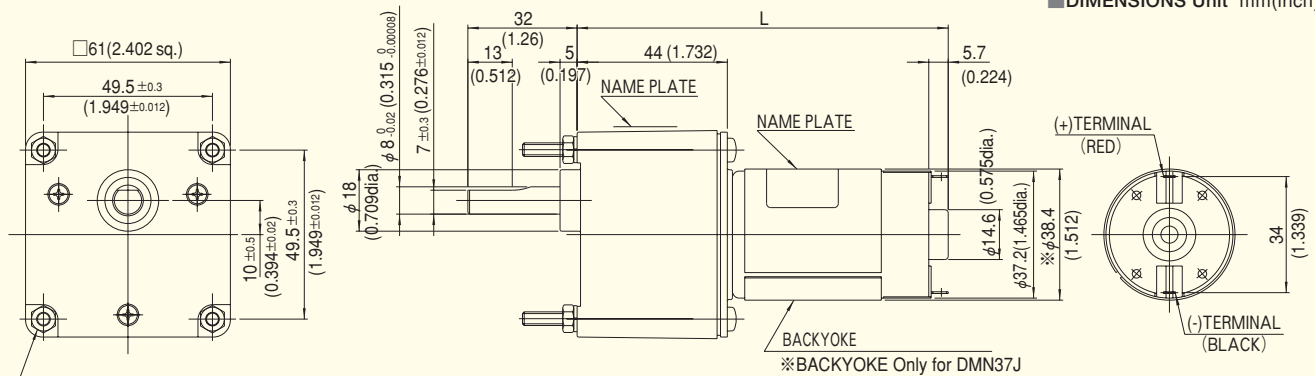
※ Enter the required reduction ratio in the □.

※ Rotation of gearbox shaft is in reverse of rotation of motor.

※ Enter the required voltage A or B in the ◇.

Outline

■ DIMENSIONS Unit mm(inch)



BOLTS 4-M4X60(4-M4X2.36) Standard type
4-M4 DEPTH 6MAX.(4-M4 DEPTH 0.236MAX.) Order made type

NOTE:

6DGF gearbox are available with either 4.5mm diameter mounting holes or M4 x 6mm tapped holes.

● Gearboxes with 4.5mm diameter mounting holes are available from stock.

When ordering, please write the motor model and gearbox model numbers separately, as in the following example: DMN37B6HFP◇ (Pinion shaft motor) 6DG□F (Gearbox)

● Gearboxes with M4 x 6mm tapped mounting holes are available on request.

When ordering, please write the combine motor and gearbox model, as in the following example : DMN37B6H□F◇

● Enter the required reduction ratio in the □.

● Enter the required voltage A or B in the ◇.

MODEL	L		WEIGHT	
	mm	inch	g	lb
DMN37B6HFP◇+6DG□F	98.7	3.880	580	1.3
DMN37K6HFP◇+6DG□F	103.7	4.083	610	1.3
DMN37J6HFPPB+6DG□F	108.7	4.280	640	1.4



Specification

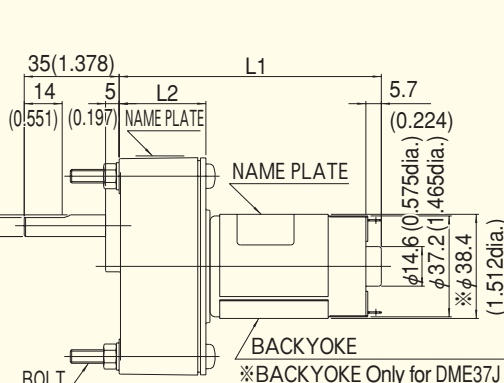
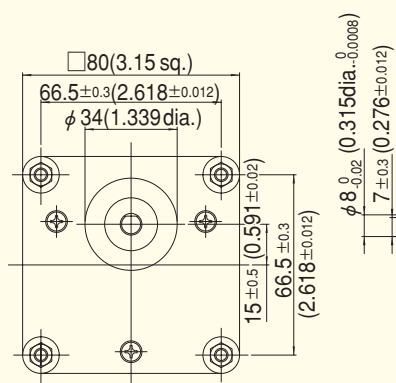
8DG□	DMN37B8HP◇			DMN37K8HP◇			DMN37J8HPB		
	RATED TORQUE		SPEED	RATED TORQUE		SPEED	RATED TORQUE		SPEED
GEAR RATIO	N·m	oz·in	r/min	N·m	oz·in	r/min	N·m	oz·in	r/min
3	0.035	5.01	1567	0.060	8.49	1200	0.10	12.5	1200
3.6	0.042	5.98	1306	0.072	10.2	1000	0.11	15.3	1000
5	0.060	8.49	940	0.10	13.9	720	0.16	22.3	720
6	0.072	10.2	783	0.12	16.7	600	0.19	26.4	600
7.5	0.089	12.7	627	0.15	20.9	480	0.24	33.4	480
9	0.11	15.3	522	0.18	25.0	400	0.28	40.3	400
12.5	0.15	20.9	376	0.25	34.8	288	0.39	55.6	288
15	0.18	25.0	313	0.29	41.7	240	0.47	66.8	240
18	0.22	30.6	261	0.35	50.1	200	0.57	80.7	200
※ 25	0.26	37.6	188	0.44	62.6	144	0.72	102	144
※ 30	0.32	45.9	157	0.53	75.1	120	0.85	121	120
※ 36	0.38	54.3	131	0.64	90.4	100	1.0	139	100
※ 50	0.53	75.1	94	0.89	127	72	1.4	195	72
※ 60	0.64	90.4	78	1.1	153	60	1.7	236	60
※ 75	0.80	114	63	1.3	181	48	2.2	306	48
※ 90	0.96	136	52	1.6	223	40	2.5	362	40
※ 100	1.1	153	47	1.8	250	36	2.8	403	36
※ 120	1.3	181	39	2.2	306	30	3.4	487	30
※ 150	1.4	195	31	2.4	334	24	3.8	543	24
※ 180	1.7	236	26	2.8	403	20	3.9	556	21
225	2.2	306	21	3.6	515	16	3.9	556	17
250	2.4	334	19	3.9	556	14	3.9	556	15
300	2.8	403	16	3.9	556	12	3.9	556	13
360	3.4	487	13	3.9	556	11	3.9	556	11
450	3.9	556	11	3.9	556	8.7	3.9	556	9.0
※ 500	3.9	556	10	3.9	556	7.8	3.9	556	8.1
※ 600	3.9	556	8.2	3.9	556	6.6	3.9	556	6.8
※ 750	3.9	556	6.7	3.9	556	5.4	3.9	556	5.5
※ 900	3.9	556	5.7	3.9	556	4.5	3.9	556	4.6
※ 1500	3.9	556	3.5	3.9	556	2.8	3.9	556	2.8
※ 1800	3.9	556	2.9	3.9	556	2.3	3.9	556	2.4

※ Enter the required reduction ratio in the □.

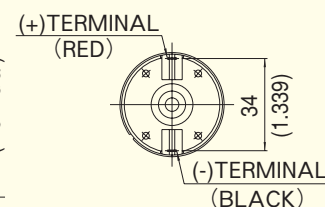
※ □ Rotation of gearbox shaft is in reverse of rotation of motor.

※ Enter the required voltage A or B in the ◇.

Outline



■ DIMENSIONS Unit mm(inch)



NOTE:

When ordering, please write the motor model and gearbox model numbers separately, as in the following example:

DMN37B8HPB (Pinion shaft motor)
8DG□ (Gearbox)

MODEL	GEAR RATIO	L1		L2		BOLT		WEIGHT	
		mm	inch	mm	inch	mm	inch	g	lb
DMN37B8HP◇+8DG□	3~180	86.7	3.413	32	1.260	M5×50	M5×1.967	780	1.7
	225~1800	96.7	3.807	42	1.654	M5×60	M5×2.362	880	1.9
DMN37K8HP◇+8DG□	3~180	91.7	3.610	32	1.260	M5×50	M5×1.967	810	1.8
	225~1800	101.7	4.004	42	1.654	M5×60	M5×2.362	910	2.0
DMN37J8HPB+8DG□	3~180	96.7	3.807	32	1.260	M5×50	M5×1.967	840	1.9
	225~1800	106.7	4.201	42	1.654	M5×60	M5×2.362	940	2.1



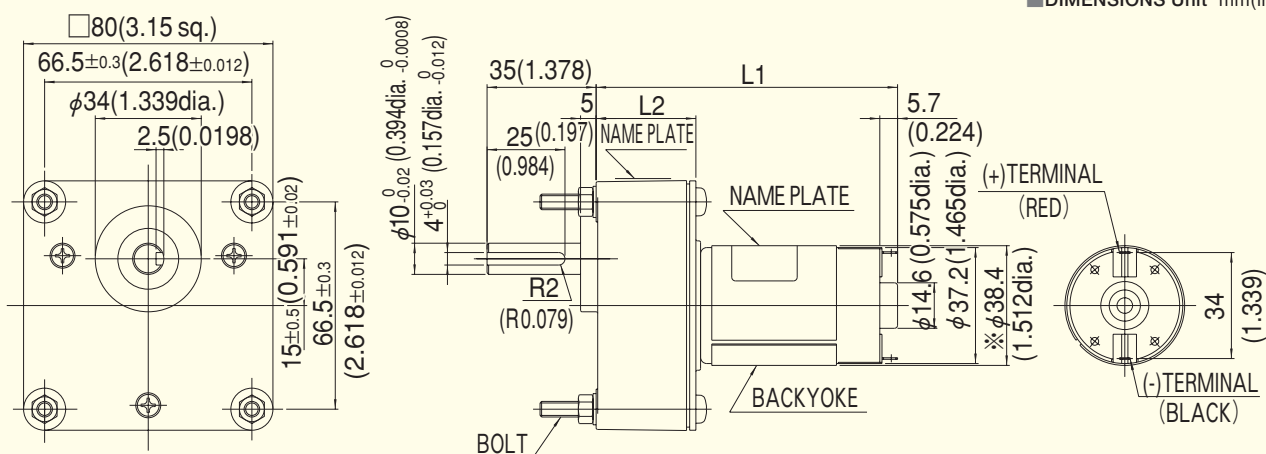
Specification

8DG□F	DMN37J8HFPB		
	GEAR RATIO	RATED TORQUE	SPEED
		N·m	oz·in
			r/min
	3	0.10	13.5
	3.6	0.11	15.3
	5	0.16	22.3
	6	0.19	26.4
	7.5	0.24	33.4
	9	0.29	40.3
	12.5	0.40	55.6
	15	0.48	66.8
	18	0.57	80.7
	25	0.71	102
	30	0.86	121
	36	1.0	139
	50	1.4	198
	60	1.7	236
	75	2.1	306
	90	2.6	362
	100	2.9	403
	120	3.4	467
	150	3.9	543
	180	4.6	654

※Enter the required reduction ratio in the □.

※Rotation of gearbox shaft is in reverse of rotation of motor.

Outline



NOTE:

When ordering, please write the motor model and gearbox model numbers separately, as in the following example:

DMN37J8HFPB (Pinion shaft motor)
8DG□F (Gearbox)

MODEL	GEAR RATIO	L1		L2		BOLT		WEIGHT	
		mm	inch	mm	inch	mm	inch	g	lb
DMN37J8HFPB+8DG□F	3~18	96.7	3.807	32	1.260	M5×50	M5×1.969	840	1.9
	25~180	106.7	4.201	42	1.654	M5×60	M5×2.362	940	2.1

