



## PLG52 Series

The PLG52 is a 52 mm planetary gearbox suitable for servo applications where DC Servo brush or BLDC motor technology is specified. The PLG52 provides excellent efficiency in a compact and industry compatible output configuration.

**Compatible Motors:** DC054B, EC042B, EC044A, EC057B, EC057C, ES040A, ES050A

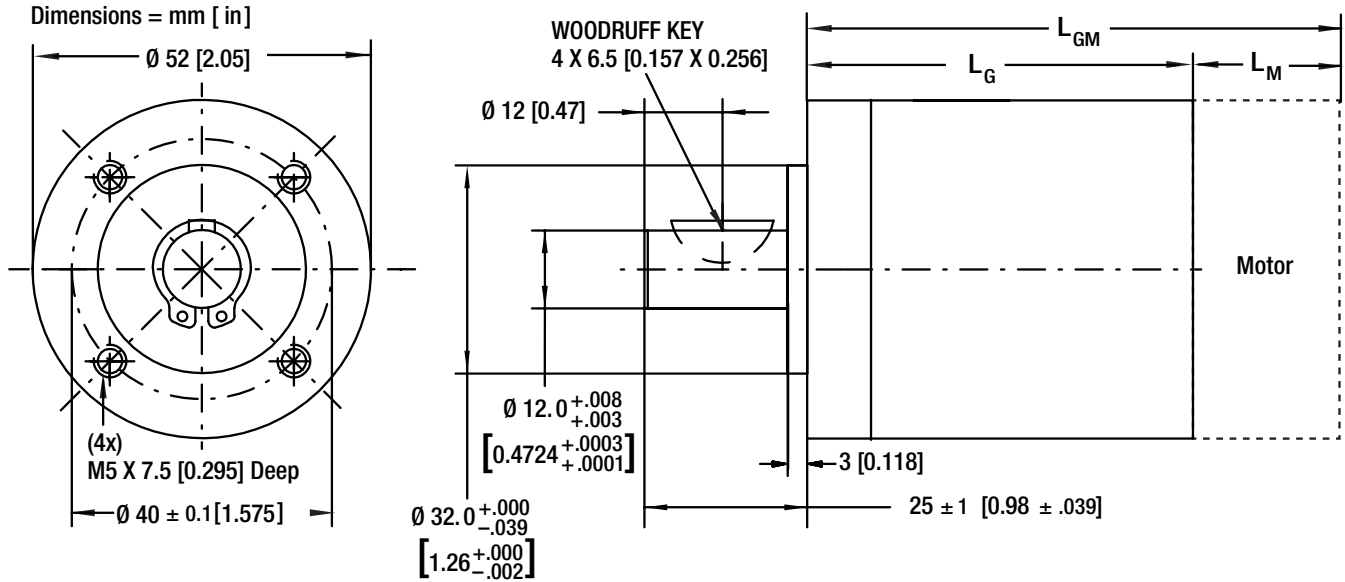
### ■ Benefits

- Maximum Load torque up to 24 Nm
- All steel gearing for high torque capacity
- Dual ball bearings on output shaft to withstand high loads
- High efficiency

### ■ Characteristics

Gear Data	Units	PLG52 4.5:1	PLG52 6.25:1	PLG52 15:1	PLG52 20.2:1	PLG52 28.1:1	PLG52 36:1	PLG52 50:1
Maximum Load	Nm	1.2	1.2	8	8	8	8	8
	oz-in	170	170	1133	1133	1133	1133	1133
Weight (Mass)	g	560	560	720	720	720	720	720
	oz	19.8	19.8	25.4	25.4	25.4	25.4	25.4
Length (L)	mm	50.0	50.0	65.5	65.5	65.5	65.5	65.5
	inches	1.97	1.97	2.58	2.58	2.58	2.58	2.58
Stages	–	1	1	2	2	2	2	2
Ratio	–	4.5/1	6.25/1	15/1	20.25/1	28.12/1	36/1	50/1
Efficiency	–	0.90	0.90	0.81	0.81	0.81	0.81	0.81
Shaft Rotation	–	CW						

Gear Data	Units	PLG52 91.1:1	PLG52 126.5:1	PLG52 162:1	PLG52 225:1	PLG52 288:1	PLG52 400:1
Maximum Load	Nm	24					
	oz-in	3399					
Weight (Mass)	g	880					
	oz	31.0					
Length (L)	mm	80.5					
	inches	3.17					
Stages	–	3					
Ratio	–	91.12/1	126.5/1	162/1	225/1	288/1	400/1
Efficiency	–	0.73					
Shaft Rotation	–	CW					



■ Combined Length

Compatible Motors / Length (mm)			
Stage	1	2	3
DC054B-1	127.0	142.5	157.5
DC054B-2	133.4	148.9	163.9
DC054B-3	146.1	161.6	176.6
DC054B-4	155.6	171.1	186.1
DC054B-5	165.1	180.6	195.6
DC054B-6	177.8	193.3	208.3
DC054B-7	196.9	212.4	227.4

Stage	1	2	3
EC042B-1	104.5	120.0	135.0
EC042B-2	124.5	140.0	155.0
EC042B-3	144.5	160.0	175.0

Stage	1	2	3
EC044A-1	102.3	117.8	132.8
EC044A-2	115.0	130.5	145.5
EC044A-3	127.7	143.2	158.2

Compatible Motors / Length (mm)			
Stage	1	2	3
EC057B-1	130.0	145.5	160.5
EC057B-2	125.1	140.6	155.6
EC057B-3	169.9	185.4	200.4
EC057B-4	190.0	205.5	220.5

Stage	1	2	3
EC057C-1	88.2	103.7	118.7
EC057C-2	99.6	115.1	130.1
EC057C-3	112.3	127.8	142.8
EC057C-4	125.0	140.5	155.5

Stage	1	2	3
ES040A-1	117.4	132.9	147.9
ES040A-2	125.1	140.6	155.6
ES040A-3	132.7	148.2	163.2

Stage	1	2	3
ES050A-1	131.8	147.3	162.3
ES050A-2	144.5	160.0	175.0
ES050A-3	157.2	172.7	187.7