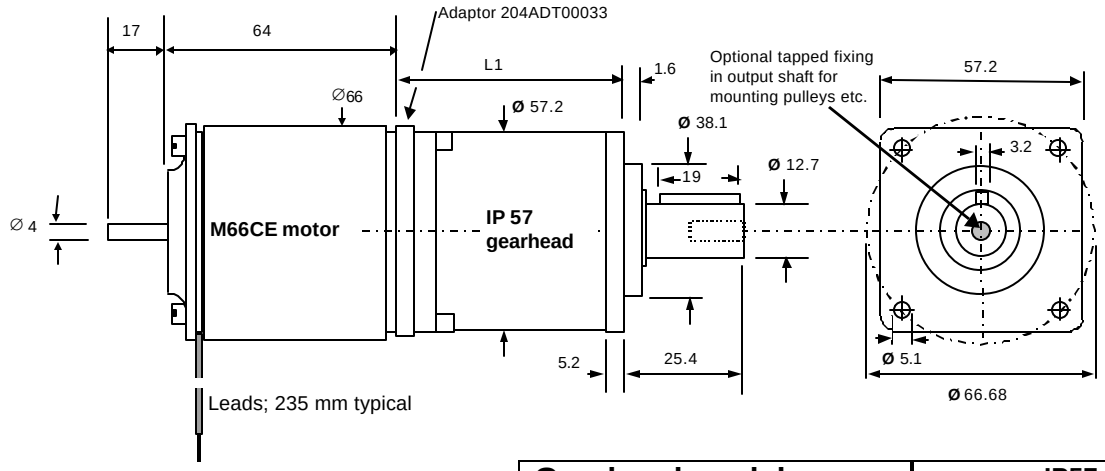
Low cost geared dc servo motors IP / M66 series

The IP / M66 series geared dc servo motors utilise a high strength planetary gearhead.
Features:

- Low cost due to advanced design and manufacturing techniques
- Controlled backlash for accurate positioning
- High continuous and peak torque capacity
- Ironless rotor low inertia servo motor including encoder and tacho options
- Wide range of standard gear ratios
- Ideal for packaging systems, conveyors and general purpose light industrial systems

Dimensions: mm



The gearhead length 'L1' is dependant on the gear ratio and hence the number of stages that are utilised. The following table shows the length of the gearhead for the ratio specified.

Gearhead model	IP57		
	MO1	MO2	MO3
Gearhead Length L1			
Ratios 3:1 4:1 **5:1**	60.7		
10:1	74.2		
25:1		72.7	
50:1 **100:1**		86.45	
250:1 500:1 1000:1			99.45

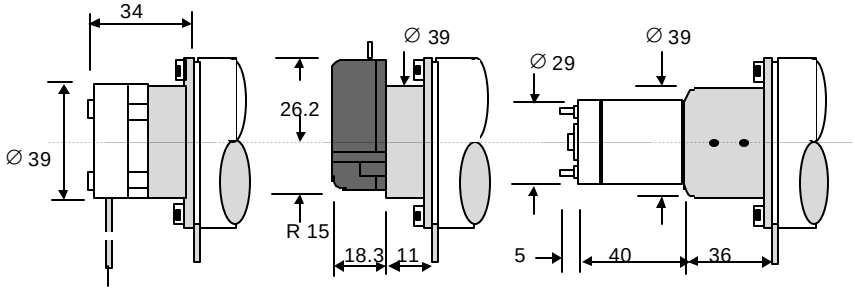
Additional options:

The motor rear plate may be fitted with a range of feedback and control devices when the dimensions are as shown

Tacho output options:
3.25 or 6.5 V/1000 rpm @ motor

Encoder options:
Dual track 100 or 500 ppr @ motor with optional index marker

M66DB motor-brake **M66CI motor-encoder** **M66CT motor-tacho**



Parking Brake **Incremental Encoder** **DC Tachogenerator**

Performance of geared servo motor options

Gearbox Model	Gear Ratio n:1	Motor Model	Rated Speed (rpm)	Rated Torque (Nm)	Peak Torque (Nm)	Max Radial Load (12 mm from mounting face) (Nm)	Max Axial Load (Nm)	Typical. Backlash (arc. min.)
IP57-M01	**5**	**M66**	320	0.46	1.2			
	10		160	0.92	2.4			≤ 20
	25		64	2.1	5.6			
IP57-M02	**50**	**M66**	32	4.2	11.3	560	490	≤ 30
	100		16	8.4	22.6			
IP57-M03	**250**	**M66**	6	19	40			≤ 40

Other combinations of gear ratio and motor are available on request.
For reduced backlash specify LP50 series.