

**970DLN SERIES NOISE ATTENUATED 35mm SPUR GEARED MOTOR
(CENTRAL OUTPUT SHAFT)**

(RE540LN Motor)



Geared motor bracket (90 degree)
sold separately
Part No. 727



Metal Gearbox cover
included with this series

RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

Fitted with RE540LN (4.5v - 15v) Motor:

970D61LN	Ratio	6:1
970D161LN	Ratio	16:1
970D471LN	Ratio	47:1
970D1561LN	Ratio	156:1
970D7501LN	Ratio	750:1
970D28131LN	Ratio	2813:1

Designed for heavier-duty industrial and model applications. These units boast a high quality, five pole low rpm motor providing approx 33% more motor torque than the standard RE540/1 motor, with a considerable reduction in motor noise level. The metal gearbox incorporates sleeve bearings, enabling the high torque transfer from the motor to be transmitted through the gearbox.

MOTOR DATA. (RE540LN)

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL TORQUE		
	OPERATING RANGE	NOMINAL	SPEED R.P.M.	CURRENT A	SPEED R.P.M.	CURRENT A	TORQUE oz-in	g-cm	OUTPUT W	EFF %	oz-in	g-cm
RE540LN	4.5 - 15	12v Constant	6000	0.26	5258	1.42	3.1	223	12.8	71	25.3	1825

Stall Current: RE540LN at 6v = 10.0 A

GEARBOX DATA.

PART NO	RATIO	REDUCTION TABLE RPM (No Load) ^o					WEIGHT	TORQUE RATING AT: 12v (g.cm) [^]
		4.5v	6v	9v	12v			
970D61LN	6:1	329	438	657	876		313g	1000
970D161LN	16:1	123	165	247	329		317g	2000
970D471LN	47:1	42	56	84	112		324g	3000
970D1561LN	156:1	13	17	26	34		333g	6000
970D7501LN	750:1	3	4	5	7		343g	6000
970D28131LN	2813:1	0.75	1	1.5	2		347g	6000

NOTES: ^o Motor speeds may vary by + or - 12.5%

[^] Geared Motor Torque Ratings at Maximum Efficiency. To establish Torque Rating in Nm, divide g.cm by 10197.0

970DLN SERIES	
No Load Backlash	Max 2 deg.
Max Radial Load (10mm from flange)	1000gf.
Shaft Axial Load	700gf.

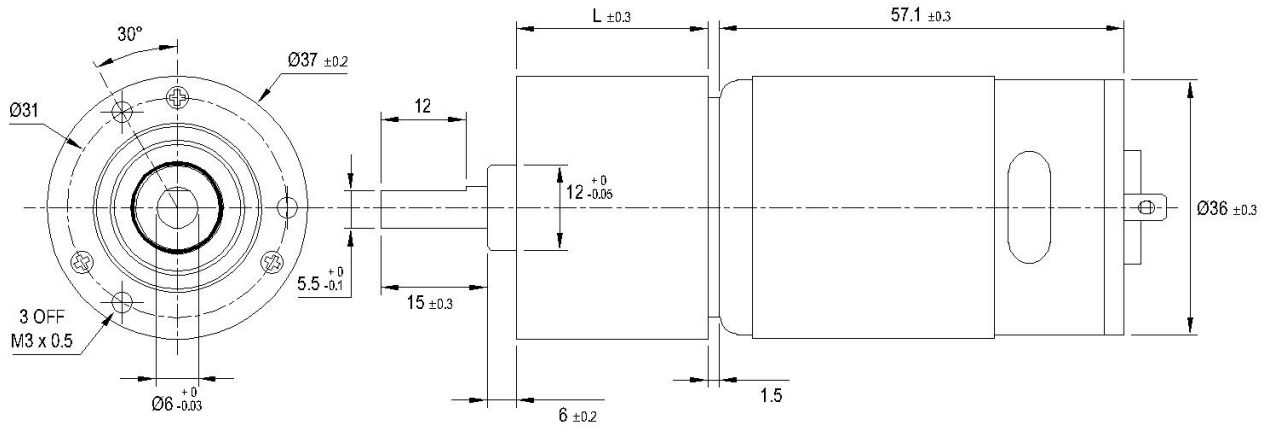
IMPORTANT NOTICES:

At very low ratios the torque produced by this geared motor combination may exceed the maximum permissible torque of the gearbox. In this situation the unit must not be allowed to stall as this may damage the gears. Due to the wide range of applications for this product it is the users responsibility to establish the products suitability for their individual purpose(s).

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(RE540LN Motor)

970DLN SERIES TECHNICAL DRAWING



RATIO	L
6:1LN	21.8
16:1LN	24.6
47:1LN	27.1
156:1LN	29.6
750:1LN	34.5
2813:1LN	37.0

NOTE: all diameters in mm

FOR ACCESSORIES TO FIT THIS SERIES GEARBOX, REFER TO 919D SERIES.

Subject to minimum order quantities of 250 units, the following ratios are also available with a six week lead-time. The physical dimensions of these other gearboxes may vary from the data as illustrated above. Details of individual gearboxes are available upon request.

GEARBOX 19:1 with 540LN motor
 GEARBOX 21:1 with 540LN motor
 GEARBOX 31:1 with 540LN motor
 GEARBOX 38:1 with 540LN motor
 GEARBOX 56:1 with 540LN motor
 GEARBOX 63:1 with 540LN motor
 GEARBOX 69:1 with 540LN motor
 GEARBOX 75:1 with 540LN motor

GEARBOX 94:1 with 540LN motor
 GEARBOX 104:1 with 540LN motor
 GEARBOX 113:1 with 540LN motor
 GEARBOX 125:1 with 540LN motor
 GEARBOX 169:1 with 540LN motor
 GEARBOX 188:1 with 540LN motor
 GEARBOX 219:1 with 540LN motor
 GEARBOX 234:1 with 540LN motor

GEARBOX 250:1 with 540LN motor
 GEARBOX 281:1 with 540LN motor
 GEARBOX 312:1 with 540LN motor
 GEARBOX 375:1 with 540LN motor
 GEARBOX 422:1 with 540LN motor
 GEARBOX 438:1 with 540LN motor
 GEARBOX 469:1 with 540LN motor
 GEARBOX 563:1 with 540LN motor

GEARBOX 625:1 with 540LN motor
 GEARBOX 938:1 with 540LN motor
 GEARBOX 1250:1 with 540LN motor
 GEARBOX 1875:1 with 540LN motor
 GEARBOX 3750:1 with 540LN motor
 GEARBOX 5625:1 with 540LN motor