

**980DLN SERIES NOISE ATTENUATED 35mm GEARED MOTOR (CENTRAL OUTPUT SHAFT)  
(RE385LN 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 RE385LN (4.5v - 15v) Motor:

980D61LN	Ratio	6:1
980D161LN	Ratio	16:1
980D471LN	Ratio	47:1
980D1561LN	Ratio	156:1
980D7501LN	Ratio	750:1
980D28121LN	Ratio	2812:1

Designed for heavier-duty industrial and model applications. These units boast a high quality, five pole low rpm motor providing approx 45% more motor torque than the standard RE385 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. (RE385LN)**

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL TORQUE		
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	TORQUE	
			R.P.M.	A	R.P.M.	A	oz-in	g-cm	W	%	oz-in	g-cm
RE385LN	6 - 12	12v Constant	7200	0.19	5950	0.9		110	6.72	62		660

Stall Current: RE385LN at 12v = 5.0A

**GEARBOX DATA.**

PART NO	RATIO	REDUCTION TABLE RPM (No Load) <sup>o</sup>					WEIGHT	TORQUE RATING AT: 12v (g.cm) <sup>^</sup>
		4.5v	6v	9v	12v			
980D61LN	6:1	450	600	900	1200		204g	554
980D161LN	16:1	169	225	338	450		211g	1332
980D471LN	47:1	57	77	115	153		214g	3000
980D1561LN	156:1	17	23	35	46		221g	6000
980D7501LN	750:1	4	5	8	10		233g	6000
980D28121LN	2812:1	1	1.3	2	2.6		237g	6000

NOTES:<sup>o</sup> Motor speeds may vary by + or - 12.5%

<sup>^</sup> Geared Motor Torque Ratings at Maximum Efficiency. To establish Torque Rating in Nm, divide g.cm by 10197.0

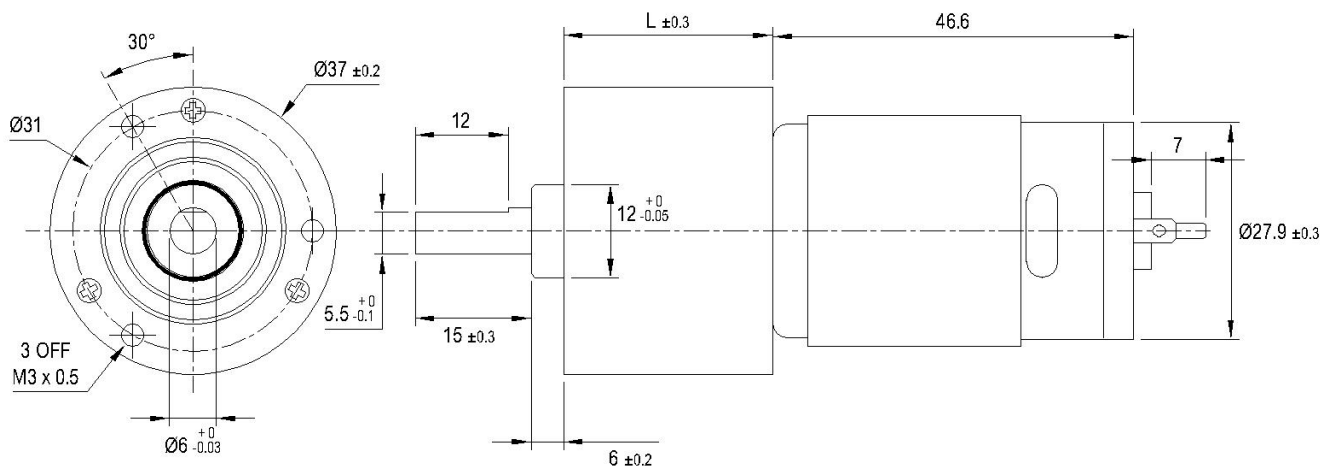
980DLN SERIES	
No Load Backlash	Max 2 deg.
Max Radial Load (10mm from flange)	1000gf.
Shaft Axial Load	700gf.

**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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**980DLN SERIES TECHNICAL DRAWING**



RATIO	L
6:1LN	24.8
16:1LN	24.0
47:1LN	27.1
156:1LN	29.6
750:1LN	34.8
2812:1LN	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 385LN motor  
 GEARBOX 21:1 with 385LN motor  
 GEARBOX 31:1 with 385LN motor  
 GEARBOX 38:1 with 385LN motor  
 GEARBOX 56:1 with 385LN motor  
 GEARBOX 63:1 with 385LN motor  
 GEARBOX 69:1 with 385LN motor  
 GEARBOX 75:1 with 385LN motor

GEARBOX 94:1 with 385LN motor  
 GEARBOX 104:1 with 385LN motor  
 GEARBOX 113:1 with 385LN motor  
 GEARBOX 125:1 with 385LN motor  
 GEARBOX 169:1 with 385LN motor  
 GEARBOX 188:1 with 385LN motor  
 GEARBOX 219:1 with 385LN motor  
 GEARBOX 234:1 with 385LN motor

GEARBOX 250:1 with 385LN motor  
 GEARBOX 281:1 with 385LN motor  
 GEARBOX 312:1 with 385LN motor  
 GEARBOX 375:1 with 385LN motor  
 GEARBOX 422:1 with 385LN motor  
 GEARBOX 438:1 with 385LN motor  
 GEARBOX 469:1 with 385LN motor  
 GEARBOX 563:1 with 385LN motor

GEARBOX 625:1 with 385LN motor  
 GEARBOX 938:1 with 385LN motor  
 GEARBOX 1250:1 with 385LN motor  
 GEARBOX 1875:1 with 385LN motor  
 GEARBOX 2813:1 with 385LN motor  
 GEARBOX 3750:1 with 385LN motor  
 GEARBOX 5625:1 with 385LN motor