

940DLN SERIES 32mm PLANETRY (EPICYCLIC) METAL GEARBOX

RE-385LN MOTOR



Part No. 727/1
Geared motor bracket (90 degree)
sold separately



RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

940D51LN	(4.5v - 15v)	RATIO 5:1	940D2641LN	(4.5v - 15v)	RATIO 264:1
940D271LN	(4.5v - 15v)	RATIO 27:1	940D5161LN	(4.5v - 15v)	RATIO 516:1
940D511LN	(4.5v - 15v)	RATIO 51:1	940D7211LN	(4.5v - 15v)	RATIO 721:1
940D1001LN	(4.5v - 15v)	RATIO 100:1	940D9391LN	(4.5v - 15v)	RATIO 939:1
940D1391LN	(4.5v - 15v)	RATIO 139:1			

Designed for heavier duty industrial and modelling 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. The 721:1 ratio version has a ballraced output bearing.

MOTOR DATA. (RE-385LN)

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL		
	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
RE-385LN	4.5 - 15	12v Constant	7300	0.15	5750	0.9	1.6	110	7	64.8	11.03	605

Stall Current RE-385 at 12v = 4.62A

REDUCTION TABLE. R.P.M. (NO LOAD)

SUPPLY VOLTAGE	4.5v	6v	9v	12v	15v
940D51LN	548	876	1095	1460	1825
940D271LN	101	135	203	270	338
940D511LN	54	72	107	143	179
940D1001LN	27	37	55	73	91
940D1391LN	20	26	39	53	66
940D2641LN	10	14	21	28	35
940D5161LN	5	7	11	14	18
940D7211LN	3.8	5	7.6	10	12.7
940D9391LN	2.9	3.9	5.9	7.8	9.8

Note: Motor speeds may vary by (+) or (-) 12.5%

WEIGHT	
940D51LN	211g
940D271LN	229g
940D511LN	257g
940D1001LN	255g
940D1391LN	254g
940D2641LN	280g
940D5161LN	284g
940D7211LN	285g
940D9391LN	281g

GEARED MOTOR TORQUE RATINGS AT MAX. EFFICIENCY.

	At 12v (g.cm)
5:1LN	456
27:1LN	2155
51:1LN	3488
100:1LN	10000
139:1LN	10000
264:1LN	12000
516:1LN	12000
721:1LN	12000
939:1LN	12000

940DLN SERIES	
No Load Backlash	Max 2.5 deg.
Max Radial Load (10mm from flange)	3000gf.
Shaft Axial Load	2500gf.

24 volt versions are available for this range of motor-gearboxes. Performance data is similar to 12 volt versions. This version also has an extended 10mm rear shaft to accommodate motor encoders. When ordering please use 12v version part number suffixed with 24V. I.E. 940D1001 will be 940D100124V

NOTE: To establish Torque Rating in Nm, divide g.cm by 10,197.0

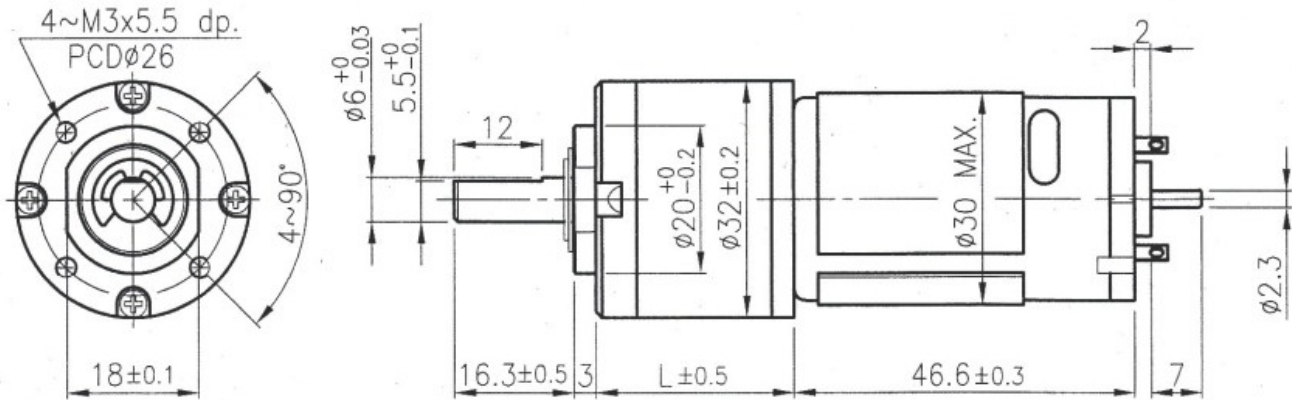
IMPORTANT NOTICE

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.

IMPORTANT NOTICE

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).

940DLN SERIES 32mm PLANETARY (EPICYCLIC) METAL GEARBOX



RATIO	L
5:1LN	20.6
27:1LN	27.0
51:1LN	33.4
100:1LN	33.4
139:1LN	33.4
264:1LN	39.8
516:1LN	39.8
721:1LN	39.8
939:1LN	39.8

NOTE: all diameters in mm

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

ADVANTAGES OF PLANETARY GEARBOXES.

EFFICIENCY:	Efficiencies of planetary gearboxes can be above 90% while some other types of transmission can be 50% or less. This allows the use of smaller motors.
SIZE:	Planetary gearboxes can be half the size of conventional boxes.
WEIGHT:	Weight savings can be as high as 60%, allowing smaller, lighter support structures.
MAINTENANCE:	Other than routine oil changes, no maintenance is required, eliminating the need to hold spares.
REVERSIBLE:	Planetary gears can be equally efficient in either direction. This is an advantage for use in running machinery in both clockwise and anti-clockwise directions.
COAXIAL:	The coaxial configuration of input and output shafts allows planetary gears to be installed in line with a motor and a machine.

Subject to minimum order quantities of 100 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 14:1 WITH 385 MOTOR
GEARBOX 19:1 WITH 385 MOTOR

GEARBOX 35:1 WITH 385 MOTOR
GEARBOX 71:1 WITH 385 MOTOR

GEARBOX 189:1 WITH 385 MOTOR