919D SERIES 35mm SINGLE RATIO METAL GEARBOX

(RE 540/1 MOTOR)



RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

919D2.51	(4.5v - 15v)	WITH RE 540/1 MOTOR.	RATIO 2.5:1
919D61	(4.5v - 15v)	WITH RE 540/1 MOTOR.	RATIO 6:1
919D111	(4.5v - 15v)	WITH RE 540/1 MOTOR.	RATIO 11:1
919D301	(4.5v - 15v)	WITH RE540/1 MOTOR.	RATIO 30:1
919D501	(4.5v - 15v)	WITH RE 540/1 MOTOR.	RATIO 50:1
919D1001	(4.5v - 15v)	WITH RE 540/1 MOTOR.	RATIO 100:1
919D1481	(4.5v - 15v)	WITH RE 540/1 MOTOR.	RATIO 148:1
919D5001	(4.5v - 15v)	WITH RE 540/1 MOTOR.	RATIO 500:1
919D8101	(4.5v - 15v)	WITH RE 540/1 MOTOR.	RATIO 810:1
919D30001	(4.5v - 15v)	WITH RE 540/1 MOTOR.	RATIO 3000:1

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).

Designed for heavy-duty industrial and model applications this robust unit boasts a powerful high quality, three pole motor with sintered bronze bearings. The metal gearbox incorporates sleeved bearings, enabling the high torque transfer from the motor to be transmitted through the gearbox. The unit is mounted on a 1mm thick plated steel bracket.

MOTOR DATA. (RE-540/1)

		VOLT	AGE	NO L	.OAD		AT M	AXIMUM	EFFICIEN	CY		STA	LL
	MODEL	OPERATING RANGE		SPEED	CURRENT	SPEED	CURRENT	TORQUE		ОИТРИТ	EFF	TORQUE	
			NOMINAL	R.P.M.	Α	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
	RE - 540/1	0/1 4.5 - 15.0	6.0v CONSTANT	7500	0.45	6180	2.1	1.64	118.2	7.49	59.4	9.31	670
			12.0v CONSTANT	14724	0.52	12380	2.75	2.11	144.29	19.35	58.6	13.28	961.9

Stall Current RE540/1 at 6v = 8.24Stall Current RE540/1 at 1.5v = 2.41AA

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

SUPPLY VOLTAGE	4.5v	6.0v	9.0v	12.0v	15.0v
919D2.51	2209	2945	4417	5890	7900
919D61	920	1227	1841	2454	3068
919D111	502	669	1004	1338	1673
919D301	184	245	368	491	614
919D501	110	147	221	294	368
919D1001	55	74	110	147	184
919D1481	37	50	75	99	124
919D5001	11	15	22	29	37
919D8101	7	9	14	18	23
919D30001	1.8	2.45	3.7	5	6

WEIGHT			
919D2.51	240g		
919D61	234g		
919D111	238g		
919D301	249g		
919D501	255g		
919D1001	255g		
919D1481	255g		
919D5001	260g		
919D8101	255g		
919D30001	262g		

GEARED MOTOR TORQUE RATINGS AT

MAX. EFFICIENCY					
At 12V	(g.cm)				
2.5:1	309				
6:1	741				
11:1	1000				
30:1	2000				
50:1	3000				
100:1	6000				
148:1	6000				
500:1	6000				
810:1	6000				
3000:1	6000				

No load Backash: Max 2 deg.
Max Radial Load: 1000gf.
(10mm from flange)
Shaft Axial Load: 700gf.

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

D SERIES

ad Backash: Max 2 deg.

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. 919D111 will be 919D11124V

IMPORTANT NOTICE

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

MFA

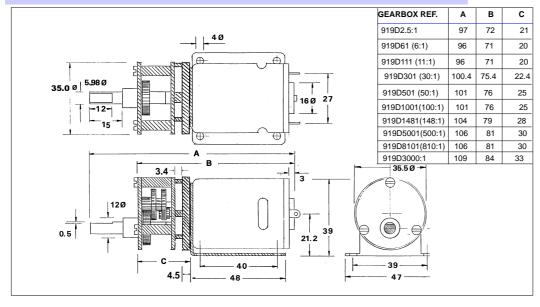
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(RE 540/1 MOTOR)



TIMING BELTS



M3 Anti vibration mount. 9g Part No. 1072 M4 Anti vibration mount. 30g



Bearing Blocks. 5mm I.D. (19.06 x 19.0mm x 10mm). 32g Part No. 919D30/1 Bearing Blocks. 6mm I.D. (20 x 20mm x 12.5mm). 32g Part No. 919D30/2

Bearing Blocks. 8mm I.D. (19.0 x 19.0mm x 13.0mm). 32g



Part No. 919D26 Stainless Steel shaft 5mmOD x 150mm. 23g Part No. 919D26/1

Stainless Steel Shaft 6mmOD x 150mm. 36g Part No. 919D26/2 Stainless Steel Shaft 8mmOD x 150mm. 59g



TIMING PULLEYS

Pt No. 919D1. In-Line Coupling. 6mm - 6mm.(Dia. 12.67mm x 24.8mm). 23g



FOR FURTHER DETAILS SEE PAGE 2

Pt No. 919D1/2. In-line Coupling.6mm-8swg (Meccano) Dia. 10mm x 20mm. 23g



Pt No. 919D1/8. In-line Coupling.8mm-8mm Dia. 12.67mm x 24.8mm. 23g



Pt No. 919D2. Voltage Regulator.(6-15v DC Input. 4v-12v output). 26mm x 31mm x

15.5mm. 30g

Pt No. 919D4. Pulley 25mm dia. (Aluminium). 10g



Pt.No.919D24. Bevel Gearbox. (Right Angle). 42g



Pt No. 919D5. Pulley 16mm dia. (Aluminium). 4g



Universal Couplings. 12.5mm dia. 44mm length.**Pt No. 1105/60.** 6mm -6mm. See Page 63 for full range of combinations



Pt No. 917D2515. "O" Ring 70mm x 5mm Dia. 5g



6mm bore. M10 thread. 12g



Pt No. 919D27. Gear Adapter.Pt No. 919D25. Nylon Bevel Gears 1:1. OD30.7mm ID 6mm. Module 1.0.6q

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 10:1 WITH 540/1 MOTOR GEARBOX 70:1 WITH 540/1 MOTOR GEARBOX 120:1 WITH 540/1 MOTOR GEARBOX 250:1 WITH 540/1 MOTOR GEARBOX 400:1 WITH 540/1 MOTOR GEARBOX 700:1 WITH 540/1 MOTOR GEARBOX 1000:1 WITH 540/1 MOTOR GEARBOX 18:1 WITH 540/1 MOTOR. GEARBOX 75:1 WITH 540/1 MOTOR. GEARBOX 180:1 WITH 540/1 MOTOR GEARBOX 300:1 WITH 540/1 MOTOR GEARBOX 450:1 WITH 540/1 MOTOR GEARBOX 750:1 WITH 540/1 MOTOR **GEARBOX 1500:1 WITH 540/1 MOTOR** GEARBOX 60:1 WITH 540/1 MOTOR GEARBOX 90:1 WITH 540/1 MOTOR. GEARBOX 200:1 WITH 540/1 MOTOR GEARBOX 350:1 WITH 540/1 MOTOR GEARBOX 600:1 WITH 540/1 MOTOR GEARBOX 900:1 WITH 540/1 MOTOR