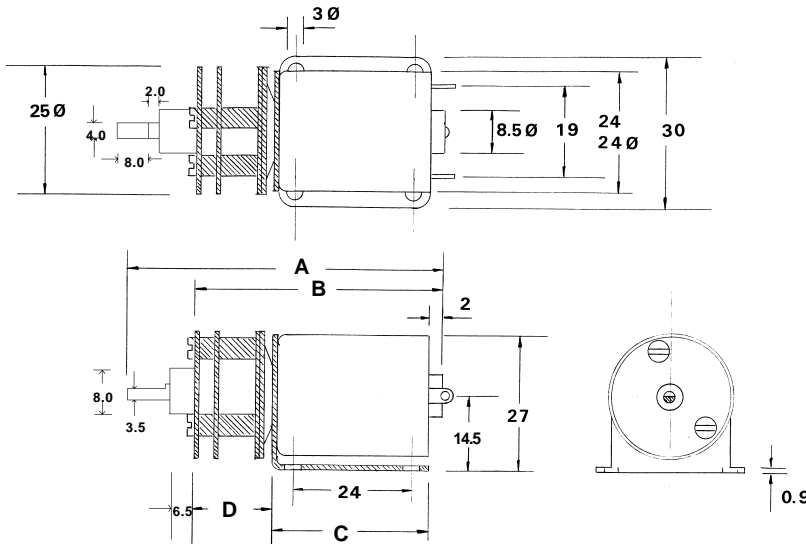


918D SERIES 25mm SPUR GEARED MOTOR WITH 4mm OUTPUT SHAFT (ALL RATIOS) DATASHEET



RATIO	A	B	C	D
6:1	67.5	51.3	33.5	17.8
15:1	67.5	51.3	33.5	17.8
30:1	67.5	51.3	33.5	17.8
100:1	67.5	51.3	33.5	17.8
150:1	67.5	51.3	33.5	17.8
250:1	67.5	51.3	33.5	17.8
360:1	67.5	51.3	33.5	17.8
500:1	69.5	53.3	33.5	19.3
1024:1	69.5	53.3	33.5	19.3

NOTE: all diameters in mm

Operating relative humidity 20% ~ 85%
 Operating temperature range -10°C ~ +60°C

MOTOR DATA. (RE-280, RE-280/1 & RE-280/5)

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
RE-280	1.5 - 3	3v Constant	8800	0.24	7200	1.06	0.32	23.2	1.71	53.8	1.75	126.0
RE-280/1	12 - 24	12v Constant	8224	0.046	6636	0.194	0.27	19.2	1.31	56.1	1.389	99.3
RE-280/5	3 - 6	6v Constant	9256	0.108	7703	0.534	0.33	23.7	1.87	58.4	2.648	141.2

GEARBOX SPECIFICATIONS

Reduction ratio	Rated tolerance torque	Max momentary tolerance torque	Efficiency
1/6, 1/10	0.3 kgf-cm Max.	0.9 kgf-cm	81%
1/15, 1/21	0.4 kgf-cm Max.	1.2 kgf-cm	73%
1/30, 1/44	0.6 kgf-cm Max.	1.8 kgf-cm	65%
1/60, 1/77	0.8 kgf-cm Max.	2.4 kgf-cm	65%
1/100, 1/112	1.0 kgf-cm Max.	3.0 kgf-cm	65%
1/150, 1/170	1.2 kgf-cm Max.	3.6 kgf-cm	50%
1/200, 1/250	1.2 kgf-cm Max.	3.6 kgf-cm	50%
1/320, 1/360	1.2 kgf-cm Max.	3.6 kgf-cm	50%
1/400, 1/500	1.5 kgf-cm Max.	4.5 kgf-cm	40%
1/700, 1/800	1.5 kgf-cm Max.	4.5 kgf-cm	40%
1/900, 1/1153	1.5 kgf-cm Max.	4.5 kgf-cm	40%

Gearbox Housing material	Metal
Backlash at no-load	≤ 2°
Bearing at output	Sleeve bearings
Radial load (10mm from flange)	≤ 0.3 kgf
Shaft axial load	≤ 0.2 kgf
Shaft press fit force max	≤ 2 kgf
Radial play of shaft	≤ 0.05mm
Thrust play of shaft	≤ 0.3mm

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

SUPPLY VOLTAGE	1.5v	3v	6v	12v	18v	24v
918D61/1	733	1467				
918D6112/1			685	1371	2056	2741
918D616/1		771	1543			
918D151/1	293	587				
918D15112/1			274	548	822	1097
918D1516/1		309	617			
918D301/1	147	293				
918D30112/1			137	274	411	548
918D3016/1		154	309			
918D1001/1	44	88				
918D100112/1			41	82	123	164
918D10016/1		46	93			
918D1501/1	29	59				
918D150112/1			27	55	82	110
918D15016/1		31	62			
918D2501/1	18	35				
918D250112/1			16	33	49	66
918D25016/1		19	37			
918D3601/1	12	24				
918D360112/1			11	23	34	46
918D36016/1		13	26			
918D5001/1	9	18				
918D500112/1			8	16	25	33
918D50016/1		9	19			
918D10241/1	4	9				
918D1024112			4	8	12	16
918D102416/1		5	9			

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

WEIGHT	
918D61/1	75g
918D6112/1	73g
918D616/1	74g
918D151/1	75g
918D15112/1	74g
918D1516/1	75g
918D301/1	75g
918D30112/1	78g
918D3016/1	80g
918D1001/1	76g
918D100112/1	75g
918D10016/1	75g
918D1501/1	78g
918D150112/1	76g
918D15016/1	81g
918D2501/1	76g
918D250112/1	76g
918D25016/1	77g
918D3601/1	76g
918D360112/1	76g
918D36016/1	77g
918D5001/1	89g
918D500112/1	88g
918D50016/1	89g
918D10241/1	88g
918D1024112	89g
918D102416/1	89g

GEARED MOTOR TORQUE RATINGS AT AVERAGE MAX EFFICIENCY MOTOR TORQUE OF 22G.CM

RATIO	G.CM
6:1	107
15:1	241
30:1	429
100:1	1000
150:1	1200
250:1	1200
360:1	1200
500:1	1500
1024:1	1500

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.

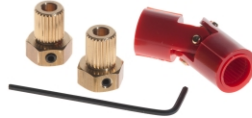
IMPORTANT NOTICE

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).

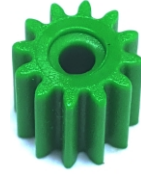
ACCESSORIES



Part No. 1071. Anti vibration mount. M3. 9g



Part No. 1105/61 Universal Coupling. 4mm - 4mm. 10g



Part No. 917D2458. Pinions (Plastic) 12 tooth. 1.9mm I.D. 3g



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



Part No. 918D1. In-Line Coupling. 2mm - 3mm. (Dia. 8mm x 20mm). 8g
Part No. 918D1/1. In-Line Coupling 4mm - 4mm. (Dia. 10mm x 20mm). 11g



Part No. 918D2. Pulley. 2mm I.D. (25mm dia. x 14.75mm) (Aluminium). 12g
Part No. 918D2/1. Pulley 4mm I.D. (25mm dia. x 14.75mm) (Aluminium). 12g



Part No. 918D3. Pulley. 2mm I.D. (16mm dia. x 13.6mm) (Aluminium). 6g
Part No. 918D3/1. Pulley 4mm I.D. (16mm dia x 13.6mm) (Aluminium). 6g



Part No. 918D4. Gear Adapter. 2mm I.D. Shaft Dia 6mm. 4g
Part No. 918D4/1 Gear Adapter. 4mm I.D. Shaft Dia 6mm. 4g



Part No. 918D7. Nylon Bevel Gears (1:1). O.D. 17.2mm. 4mm I.D.. Module 1.0. 6g



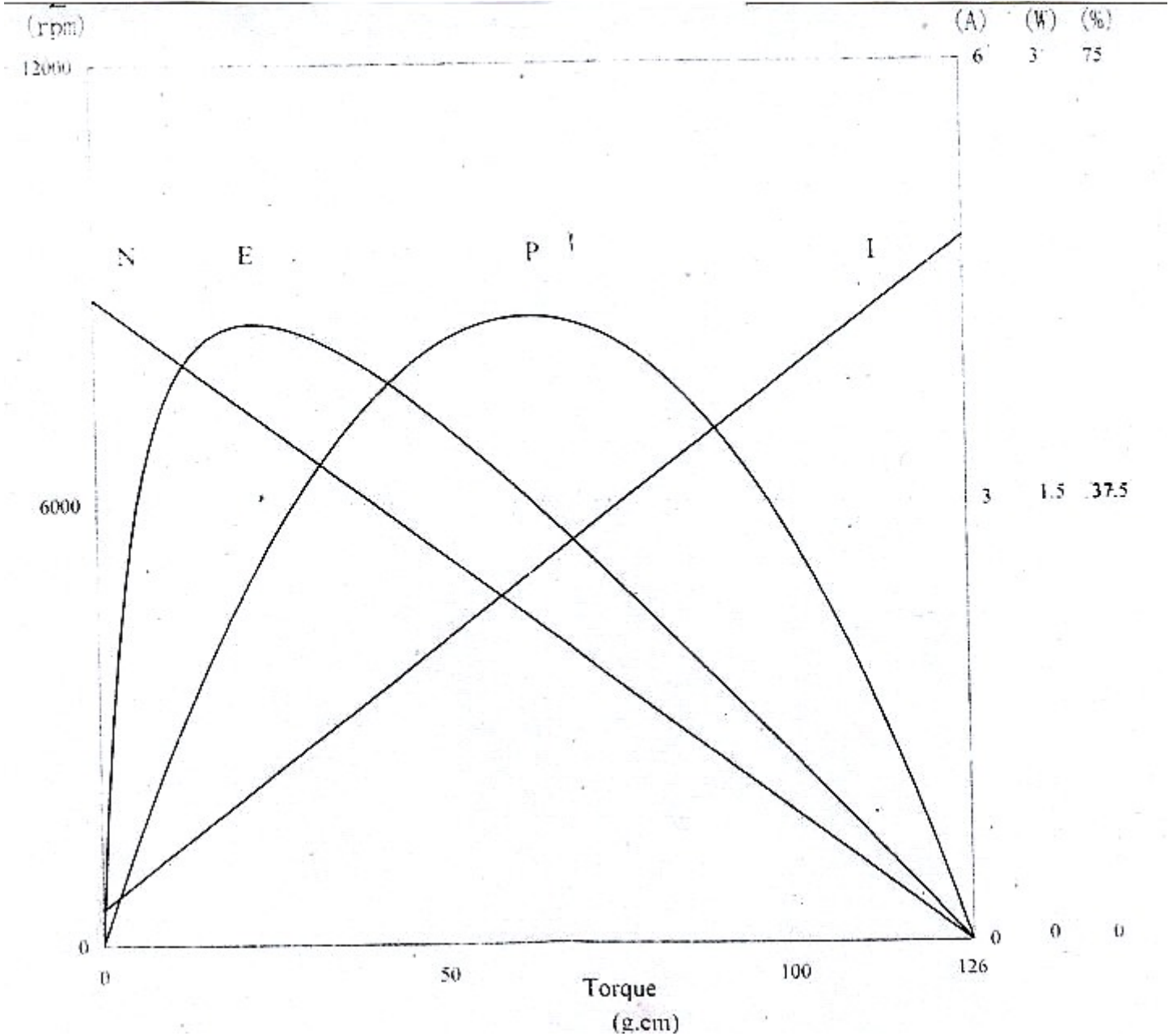
Part No. 918D8. Stainless Steel Shaft. 4mm OD x 150mm. 15g



Part No. 918D10. Bearing Blocks. 4mm I.D. (20 x 20 x 12.5mm) . 32g

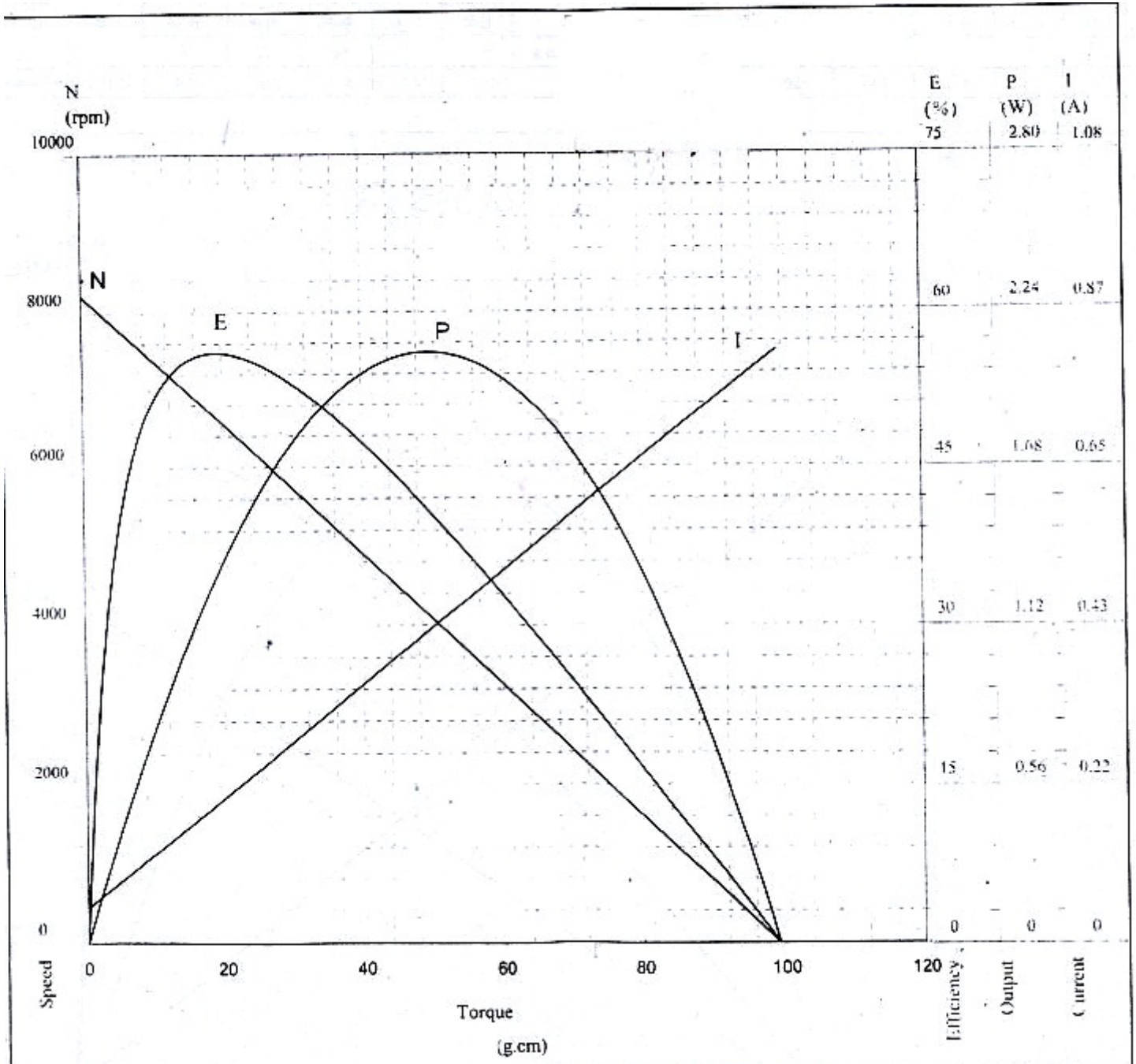
MOTOR DATA. (RE-280)

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-280	1.5 - 3	3v Constant	8800	0.24	7200	1.06	0.32	23.2	1.71	53.8	1.75	126.0



MOTOR DATA. (RE-280/1)

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-280/1	12 - 24	12v Constant	8224	0.046	6636	0.194	0.27	19.2	1.31	56.1	1.389	99.3



MOTOR DATA. (RE-280/5)

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-280/5	3 - 6	6v Constant	9256	0.108	7703	0.534	0.33	23.7	1.87	58.4	2.648	141.2

