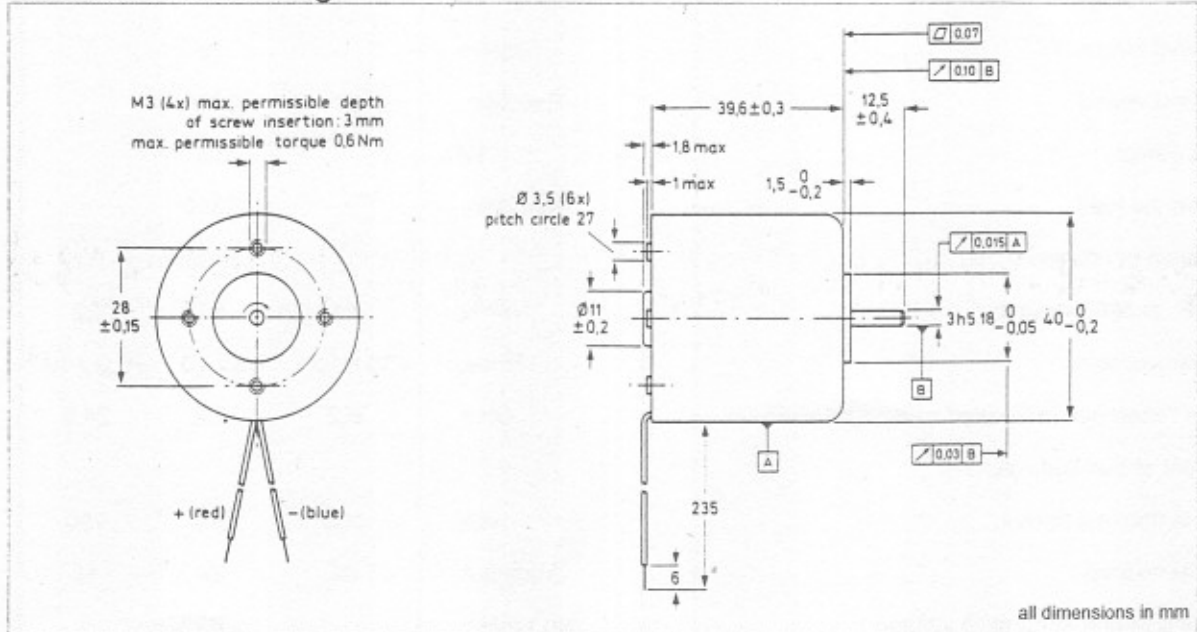


Ø 40 mm - Coreless rotor - Flat commutator.

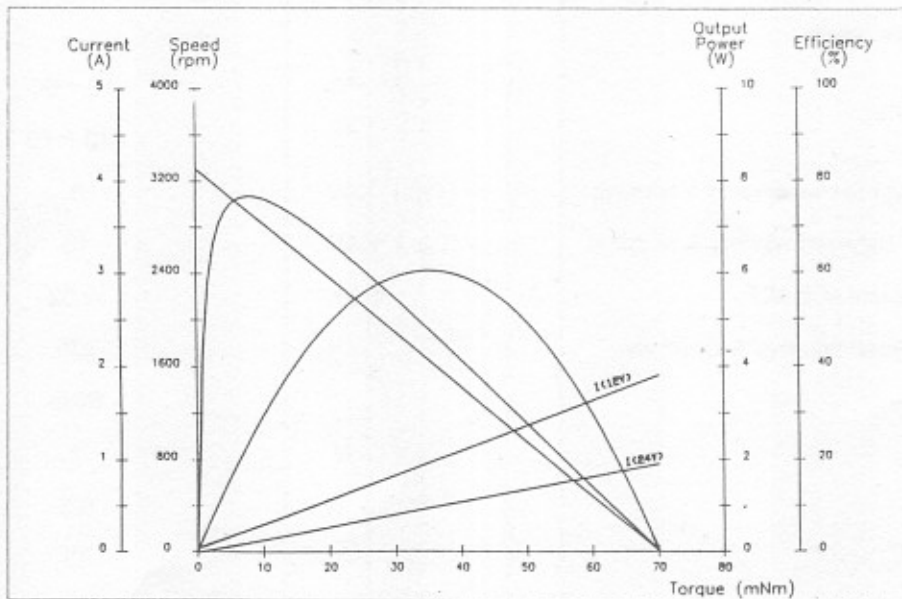
Servo motor with high efficiency and long life, insuring outstanding reliability in card readers, small robots, daisy wheel drivers and copiers.

Dimensional drawing



Typical Performance Curves

DC MOTOR TYPE 9904 120 16111/16206 - Typical curves for 12/24 V.



TECHNICAL DATA

Ordering Part Number	9904 120	16111	16141	16206*
Nominal voltage	V	12	12	24
Nominal torque	mNm		10	
Nominal speed	Rev./Min.		2850	
Input power	W		3.6	
Speed, no load	Rev./Min.		3300	
Direction of rotation			reversible	
E.M.F. at 3000 rev/min.	V	11	11	22
Torque constant	Nm/A	35×10^{-3}	35×10^{-3}	$70,0 \times 10^{-3}$
Rotor resistance measured without brushes	Ohm	6,2	6,2	24,5
Current at nominal voltage				
* at nominal torque	mA	300	300	150
* at no load	(max) mA	30	24	15
Starting torque at nominal voltage	(typ.) mNm		65	
Rotor inductance	mH	0,8	0,8	3,3
Rotor moment of inertia	Kgm ² 10 ⁻⁶		3,92	
Mechanical time constant of motor	ms		19,6	
Ambient temperature range				
* Operating	°C		-10 + 60	
* Storage	°C		- 40 + 70	
Thermal resistance between winding & housing	(Typ.) °K/W		6	
Thermal resistance between winding & ambient	(Typ.) °K/W		16	
Temperature coefficient of E.M.F.	% / K		-0,02	
Test volt. (DC) between housing & terminals.	V		500	
Bearings			Slide	
Max. radial force	N		7	
Max. axial force	N		0,5	
Max. Voltage	V	15	15	30
Mass	g		205	

Special feature : - Rear thrust bearing
 : - 16141 for lower speed applications

(*) Immediate availability with RAPID REACTION program

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