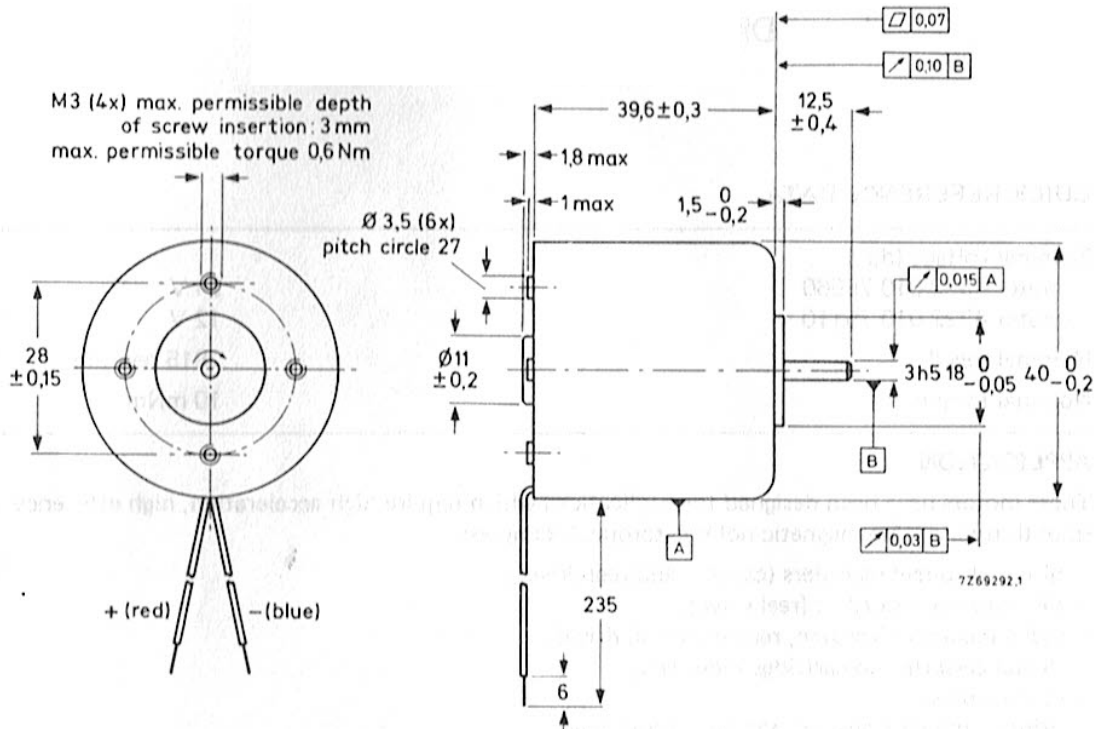


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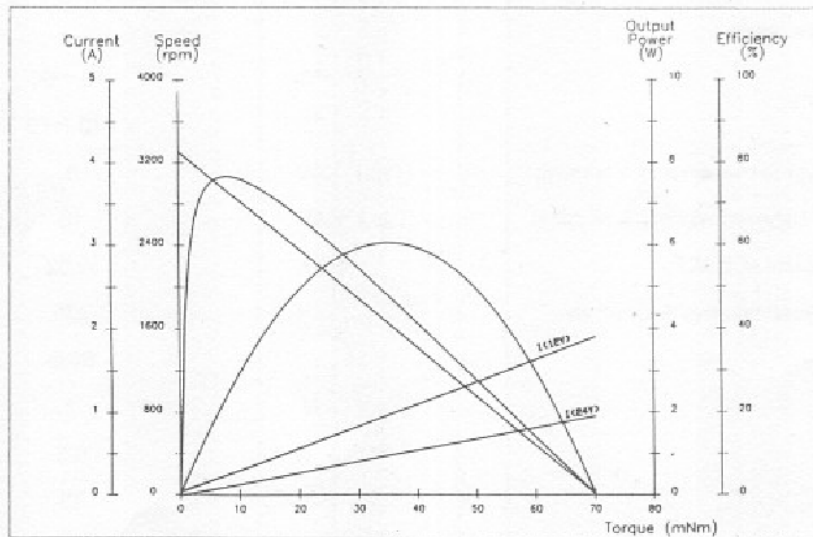
CL40

Coreless DC Motor



Typical Performance Curves

DC MOTOR TYPE 9904 120 16111/16206 - Typical curves for 12/24 V.
9904 120 16803



Product designed and manufactured in the EEC, to ISO 9001 standards

123 file DC16111 11 Oct 96

MJK, Inc. / Premotec

396 Chase PKWY. Waterbury, CT 06708 USA. Telephone (203) 596-1258 Fax (203) 757-1724

Internet: <http://www.premotec.com/locations.htm> t Email mjk2inc@snet.net

TECHNICAL DATA

Ordering Part Number	9904 120	16111	16141	16206* 16803
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^{-2}	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 ⁴		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

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