

ELECTRICAL AND MECHANICAL CHARACTERISTICS

$T_{amb}=25^{\circ}\text{C}$, in partial step mode @ Max. voltage 5V, unless other specified.

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Units
Operating Temperature	T_a		-40		105	$^{\circ}\text{C}$
Coil Resistance	R_b		235	260	285	Ω
Operating Peak Current	I_m	$f_a=16\text{Hz}(50^{\circ}/\text{s})$		19.3	21.3	mA
Dynamic Torque	M50 M200	$f_a=16\text{Hz}(50^{\circ}/\text{s})$ $f_a=66\text{Hz}(200^{\circ}/\text{s})$	0.4	0.5 0.4		mNm
Static Torque	M_s M_0	$U_b=5\text{V}$ $U_b=0\text{V}$	1 0.16	1.2 0.25		mNm
Gear Play				± 0.5	± 1	Degree
Force allowed on the pointer shaft:						
Axial force (push)	F_a				100	N
Axial force (pull)	F_a				70	N
Perpendicular force	F_q				7	N
Imposed acceleration	α_p				1000	Rad/s ²
Noise Level	SPL	Back ground:35dBA $F_a=16\text{Hz}$		40	50	dBA

Note: f_a – full-step frequency