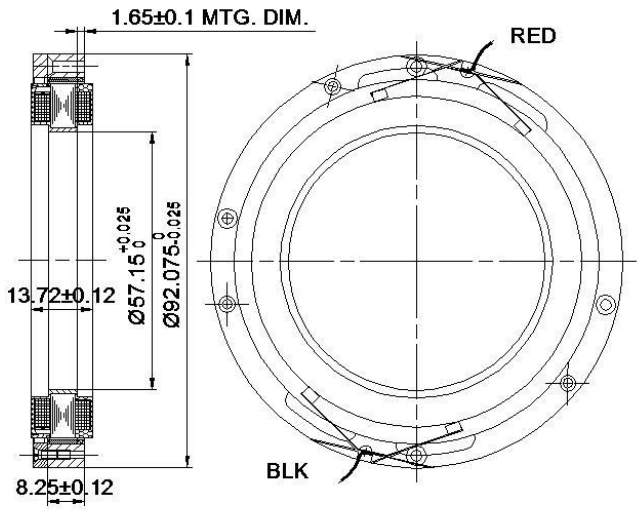
DC Brushed Torque Motor type : TQRB-37-0.54



Performance Data			
Parameter	Simbol	Units	Value
Peak Torque, stalled @Vp	Tp	Nm	1.06
Power Input @Tp	P	W	154
Motor Constant	Km	$mNm/\sqrt{W}$	85.4
Electrical Time Constant	Te	ms	0.37
No Load Speed Theoretical @ Vp	ω_{NLT}	rpm	1387
Break Away Torque	Tf	mNm	31.8
Ripple Torque	T_R	% (avg to peak)	7
Maximum Allowable Temperature	Temp.	°C (at winding)	180
Thermal Resistence	tpr	°C/W	10.1
Weight	WT	g	241
Rotor Inertia	Jm	Kg m^2	$1.61*10^{-4}$

Winding Constants				
Parameter	Simbol	Units	Tolerance	Value
D.C. Resistance	R	Ω	±12.5%	6.04
Inductance	L	mH	±30%	2.23
Torque Sensitivity	Kt	Nm/A	±10%	0.21
Back EMF Constant	Kb	V/(rad/sec)	±10%	0.21
Peak Voltage @ Tp	Vp	V	Nominal	30.5
Peak Current @ Tp	Ip	A	Nominal	5.05

Leads AWG 24 teflon coated; 300 mm minimum length.
Direction of rotation viewed from brush end, CW when a positive voltage is applied to the red lead relative to the black.
Insulation resistance @ 500 V D.C., min 100 MΩ.
Dielectric withstanding voltage - withstand at 500 V rms; 50 Hz ; 1 minute between either lead and armature.
All measurements are made at 25 °C ambient temperature.
Mounting dimensions and color of wires can be changed in conformity with customer requirement.

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