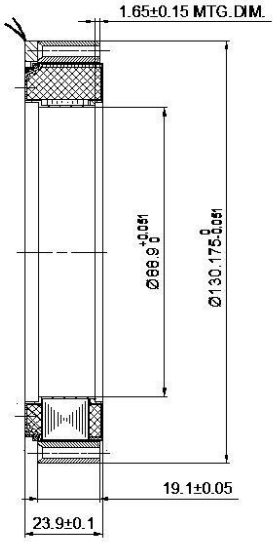
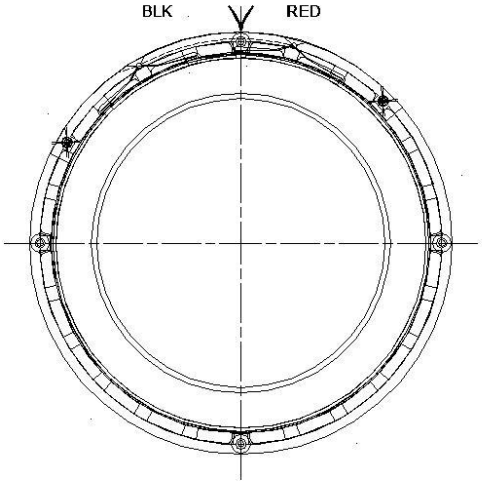
DC Brushed Torque Motor type : TQRB-51-0.93





Performance Data			
Parameter	Simbol	Units	Value
Peak Torque, stalled @Vp	Tp	Nm	2.8
Power Input @Tp	P	W	44
Motor Constant	Km	$Nm/\sqrt{W}$	0.422
Electrical Time Constant	Te	ms	0.818
No Load Speed Theoretical @ Vp	ω_{NLT}	rpm	150
Break Away Torque	Tf	mNm	90
Ripple Torque	T_R	% (avg to peak)	7
Maximum Allowable Temperature	Temp.	°C (at winding)	155
Thermal Resistence	tpr	°C/W	2.5
Weight	WT	g	850
Rotor Inertia	Jm	Kg m^2	$2.1*10^{-3}$

Winding Constants				
Parameter	Simbol	Units	Tolerance	Value
D.C. Resistance	R	Ω	±12.5%	11
Inductance	L	mH	±30%	9
Torque Sensitivity	Kt	Nm/A	±10%	1.4
Back EMF Constant	Kb	V/(rad/sec)	±10%	1.4
Peak Voltage @ Tp	Vp	V	Nominal	22
Peak Current @ Tp	Ip	A	Nominal	2

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 @ 250 V D.C., min 100 MΩ.
Dielectric withstanding voltage - withstand at 250 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.

icpe S.A. www.icpe.ro e-mail: office@icpe.ro
phone: +40 21 589 33 00 fax: +40 21 589 34 34
icpe C4 –messico www.icpe.ro/messico e-mail: messico@icpe.ro
phone: +40 21 589 34 09 fax: +40 21 346 72 90