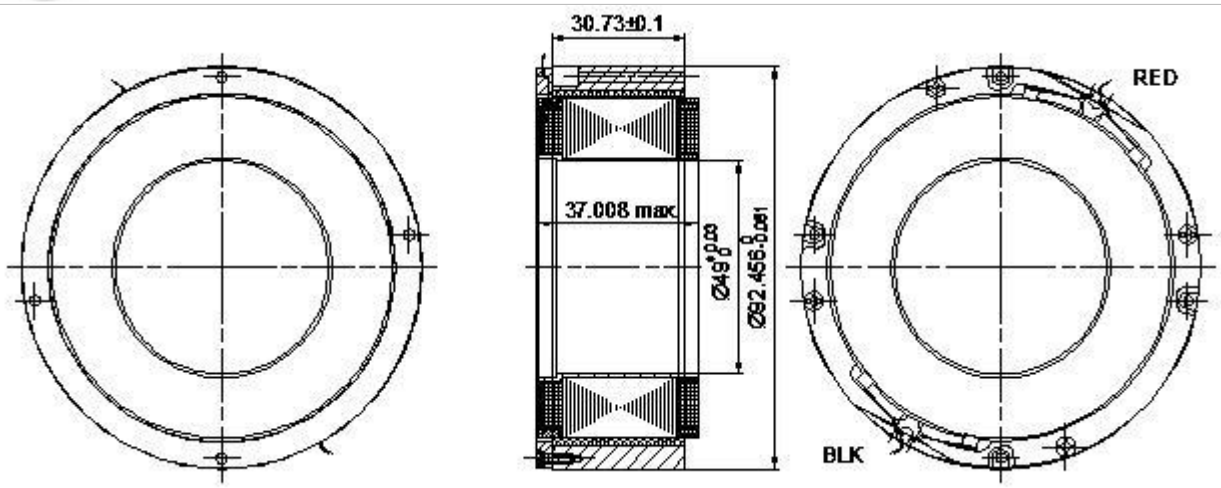
DC Brushed Torque Motor type : TQRB-37-1.46



Performance Data			
Parameter	Simbol	Units	Value
Peak Torque, stalled @Vp	Tp	Nm	4
Power Input @Tp	P	W	138
Motor Constant	Km	$Nm/\sqrt{W}$	0.341
Electrical Time Constant	Te	ms	0.625
No Load Speed Theoretical @ Vp	ω_{NLT}	rpm	329
Break Away Torque	Tf	mNm	0.13
Ripple Torque	T_R	% (avg to peak)	7
Maximum Allowable Temperature	Temp.	°C (at winding)	180
Thermal Resistence	tpr	°C/W	3.8
Weight	WT	g	955
Rotor Inertia	Jm	Kg m^2	$6.5*10^{-4}$

Winding Constants				
Parameter	Simbol	Units	Tolerance	Value
D.C. Resistance	R	Ω	±12.5%	4
Inductance	L	mH	±30%	2.5
Torque Sensitivity	Kt	Nm/A	±10%	0.681
Back EMF Constant	Kb	V/(rad/sec)	±10%	0.681
Peak Voltage @ Tp	Vp	V	Nominal	23.5
Peak Current @ Tp	Ip	A	Nominal	5.87

Leads AWG 22 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.
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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