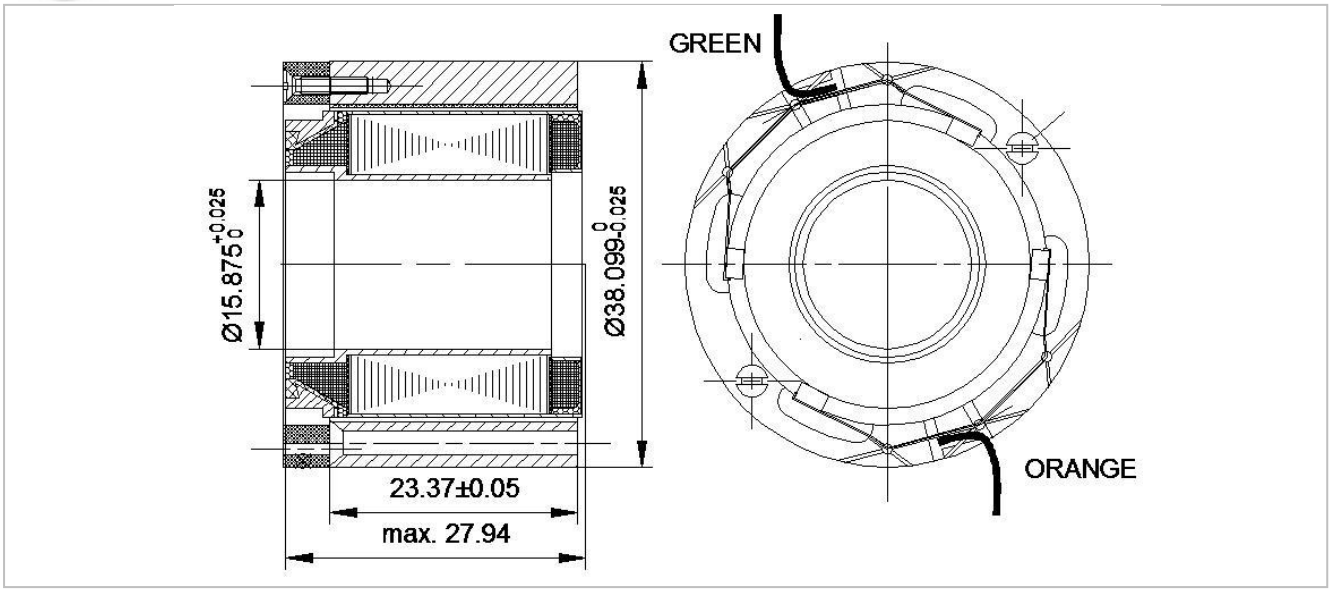
DC Brushed Torque Motor type : TQRB-15-1.1



Performance Data			
Parameter	Simbol	Units	Value
Peak Torque, stalled @Vp	Tp	Nm	0.353
Power Input @Tp	P	W	156
Motor Constant	Km	mNm/$\sqrt{W}$	28.3
Electrical Time Constant	Te	ms	0.41
No Load Speed Theoretical @ Vp	ω_{NLT}	rpm	4226
Break Away Torque	Tf	mNm	5.4
Ripple Torque	T_R	% (avg to peak)	5
Maximum Allowable Temperature	Temp.	°C (at winding)	155
Thermal Resistence	tpr	°C/W	14
Weight	WT	g	142
Rotor Inertia	Jm	Kg m^2	$9.89*10^{-6}$

Winding Constants				
Parameter	Simbol	Units	Tolerance	Value
D.C. Resistance	R	Ω	±12.5%	3.18
Inductance	L	mH	±30%	1.3
Torque Sensitivity	Kt	mNm/A	±10%	50.4
Back EMF Constant	Kb	V/(rad/sec)	±10%	0.0504
Peak Voltage @ Tp	Vp	V	Nominal	22.3
Peak Current @ Tp	Ip	A	Nominal	7

Leads AWG 24 PTFE coated; 300 mm minimum length.
Direction of rotation viewed from brush end, CCW when a positive voltage is applied to the green lead relative to the orange.
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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