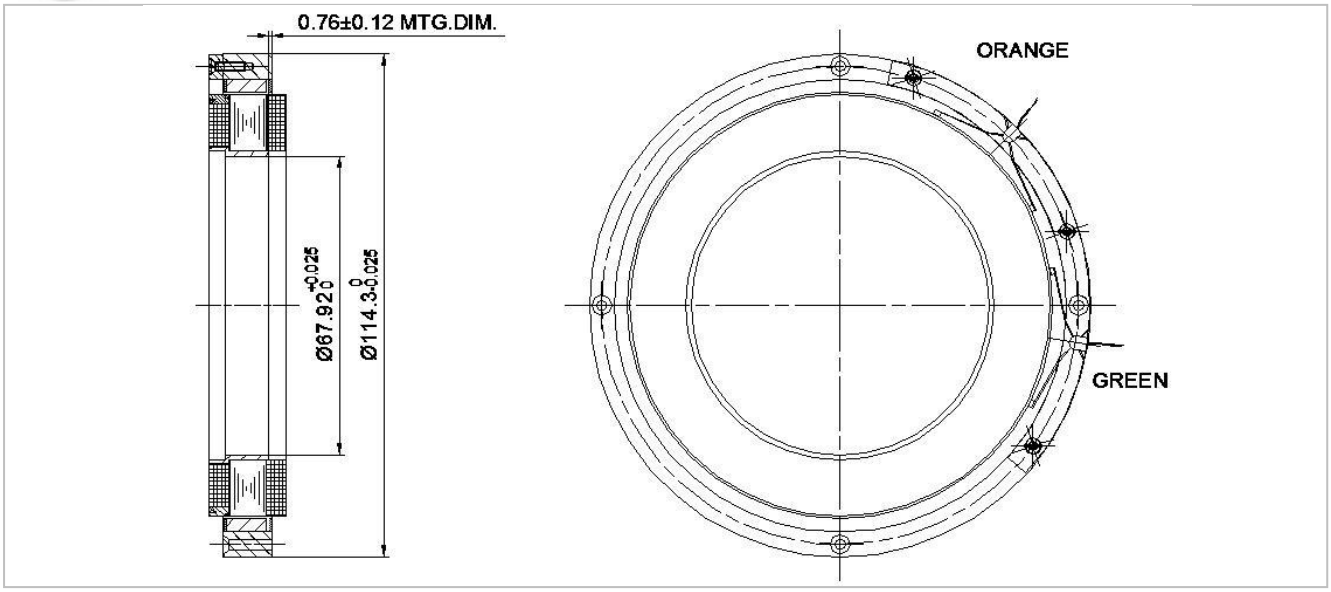
DC Brushed Torque Motor type : TQRB-45-0.69C



Performance Data			
Parameter	Simbol	Units	Value
Peak Torque, stalled @Vp	Tp	Nm	3.25
Power Input @Tp	P	W	187
Motor Constant	Km	$Nm/\sqrt{W}$	0.238
Electrical Time Constant	Te	ms	0.573
No Load Speed Theoretical @ Vp	ω_{NLT}	rpm	549
Break Away Torque	Tf	mNm	67.8
Ripple Torque	T_R	% (avg to peak)	6
Maximum Allowable Temperature	Temp.	°C (at winding)	180
Thermal Resistence	tpr	°C/W	3.3
Weight	WT	g	520
Rotor Inertia	Jm	Kg m^2	$4.88*10^{-4}$

Winding Constants				
Parameter	Simbol	Units	Tolerance	Value
D.C. Resistance	R	Ω	±12.5%	16.4
Inductance	L	mH	±30%	9.4
Torque Sensitivity	Kt	Nm/A	±10%	0.963
Back EMF Constant	Kb	V/(rad/sec)	±10%	0.963
Peak Voltage @ Tp	Vp	V	Nominal	55.4
Peak Current @ Tp	Ip	A	Nominal	3.38

Leads AWG 24 teflon 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.
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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