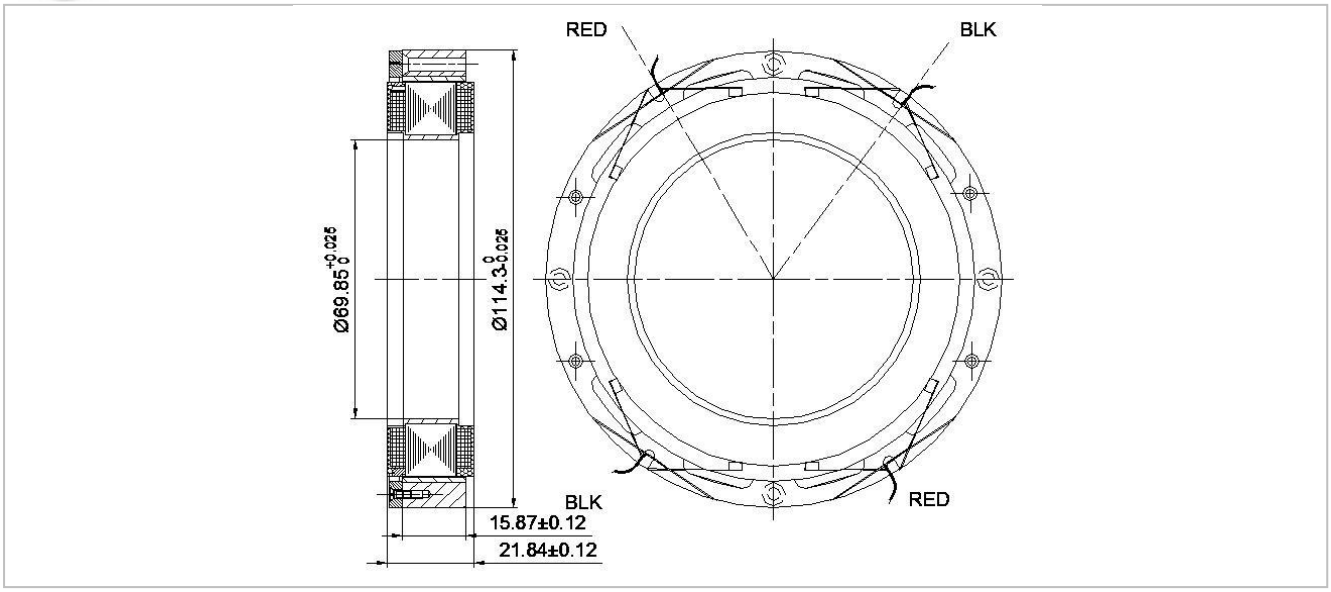
DC Brushed Torque Motor type : TQRB-45-0.86



Performance Data			
Parameter	Simbol	Units	Value
Peak Torque, stalled @Vp	Tp	Nm	4.59
Power Input @Tp	P	W	275
Motor Constant	Km	$Nm/\sqrt{W}$	0.277
Electrical Time Constant	Te	ms	0.784
No Load Speed Theoretical @ Vp	ω_{NLT}	rpm	573
Break Away Torque	Tf	mNm	84.8
Ripple Torque	T_R	% (avg to peak)	7
Maximum Allowable Temperature	Temp.	°C (at winding)	180
Thermal Resistence	tpr	°C/W	5.2
Weight	WT	g	697
Rotor Inertia	Jm	Kg m^2	$7.19*10^{-4}$

Winding Constants				
Parameter	Simbol	Units	Tolerance	Value
D.C. Resistance	R	Ω	±12.5%	6.68
Inductance	L	mH	±30%	5.24
Torque Sensitivity	Kt	Nm/A	±10%	0.715
Back EMF Constant	Kb	V/(rad/sec)	±10%	0.715
Peak Voltage @ Tp	Vp	V	Nominal	42.9
Peak Current @ Tp	Ip	A	Nominal	6.42

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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