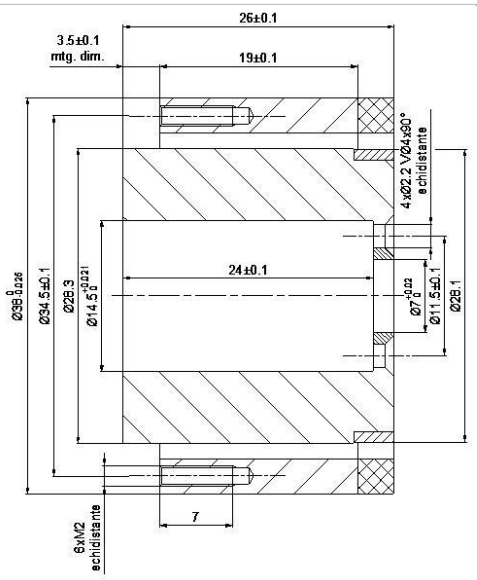
DC Brushed Torque Motor type : TQRB-15-1.03



Performance Data			
Parameter	Simbol	Units	Value
Peak Torque, stalled @Vp	Tp	Nm	0.333
Power Input @Tp	P	W	72
Motor Constant	Km	$mNm/\sqrt{W}$	39.2
Electrical Time Constant	Te	ms	-TBD-
No Load Speed Theoretical @ Vp	ω_{NLT}	rpm	2066
Break Away Torque	Tf	mNm	18.5 max.
Ripple Torque	T_R	% (avg to peak)	5
Maximum Allowable Temperature	Temp.	°C (at winding)	155
Thermal Resistence	tpr	°C/W	-TBD-
Weight	WT	g	-TBD-
Rotor Inertia	Jm	Kg m^2	-TBD-

Winding Constants				
Parameter	Simbol	Units	Tolerance	Value
D.C. Resistance	R	Ω	±12.5%	4.5
Inductance	L	mH	±30%	-TBD-
Torque Sensitivity	Kt	mNm/A	±10%	83.2
Back EMF Constant	Kb	V/(rad/sec)	±10%	0.0832
Peak Voltage @ Tp	Vp	V	Nominal	18
Peak Current @ Tp	Ip	A	Nominal	4

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 rel 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.

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