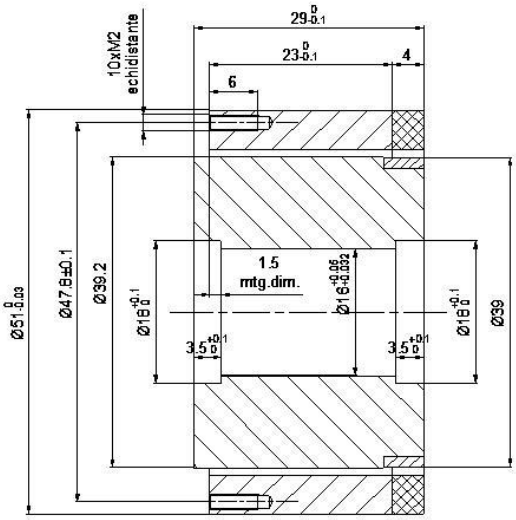
DC Brushed Torque Motor type : TQRB-20-1.14



Performance Data			
Parameter	Simbol	Units	Value
Peak Torque, stalled @Vp	Tp	Nm	1.2
Power Input @Tp	P	W	192
Motor Constant	Km	mNm/$\sqrt{W}$	86.6
Electrical Time Constant	Te	ms	-TBD-
No Load Speed Theoretical @ Vp	ω_{NLT}	rpm	1528
Break Away Torque	Tf	mNm	40 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	295
Rotor Inertia	Jm	Kg m^2	-TBD-

Winding Constants				
Parameter	Simbol	Units	Tolerance	Value
D.C. Resistance	R	Ω	±12.5%	3
Inductance	L	mH	±30%	1.5
Torque Sensitivity	Kt	Nm/A	±10%	0.15
Back EMF Constant	Kb	V/(rad/sec)	±10%	0.15
Peak Voltage @ Tp	Vp	V	Nominal	24
Peak Current @ Tp	Ip	A	Nominal	8

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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