

MTM-54-13B

MTM-54-13B is a direct-drive DC torque motor. It is a permanent rare earth magnet, with continuous rotation and armature excited. The MTM-54-13B have usage where very high torque to power, volume and weight ratios are needed. These applications include missile and aircraft actuators, diagnostic medical instrumentation, ground and airborne radar antennas.



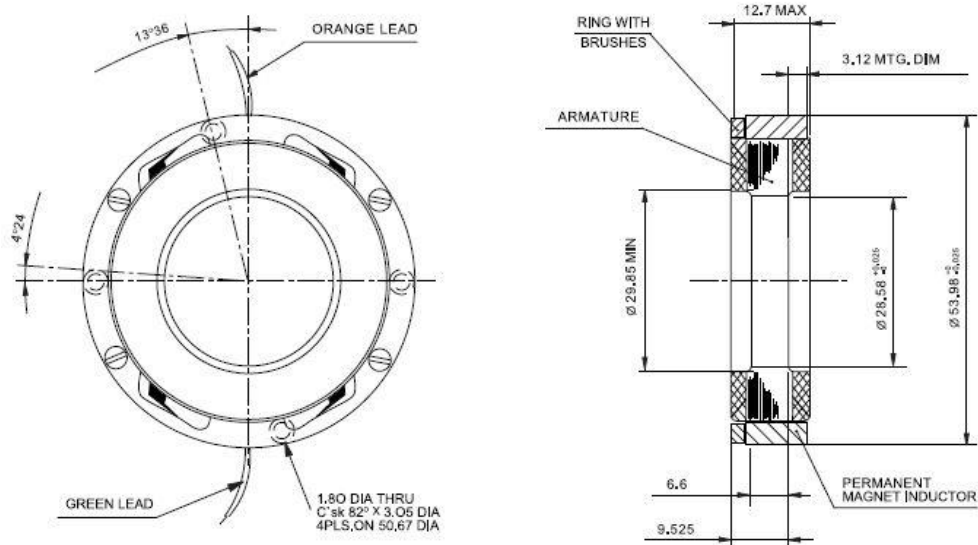
Specifications

Parameters	Units	Values
Peak Torque (Tp)	Nm	0.318
No load speed (wNL)	rad/sec	260
Total breakaway torque (TF)	Nm	12×10^{-3}
Ripple torque (TR)	%(avg.to pk.)	6
Temperature rise	°C /Watts	7
Max. allowable winding temperature	°C	150
Moment of inertia (JM)	Grcm ²	220
Weight	gr	108
Damping factor at 25°C (FO)	Nm/rad/sec	1.2×10^{-3}
Elect. Time constant at 25°C (TE)	Sec	2×10^{-4}

Parameter	Unit	Value	Tolerance
Resistance at 25°C (RM)	Ohm	9.9	±12.5%
Torque sensitivity (KT)	Nm/A	0.107	±10%
Back EMF constant (KB)	Volt/rad/sec	0.12	±10%
Inductance (LM)	mHy	1.8	±30%

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Drawing



All dimensions are in mm

For Additional Information

To learn more about the **MTM-54-13B**

or other MTC products, contact MTC on

+972 4 998 7772 or email marketing@mtcind.com