

MTM-38-13B

MTM-38-13B is a direct-drive DC torque motor. It is a permanent rare earth magnet, with continuous rotation and armature excited. The MTM-38-13B 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

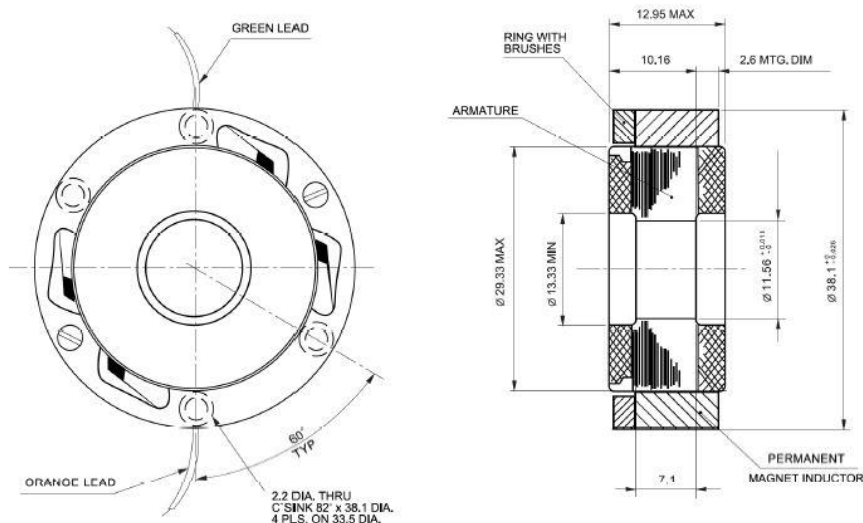
Parameters	Units	Values
Peak Torque (Tp)	Nm	0.141
No load speed (wNL)	rad/sec	467
Total breakaway torque (Tf)	Nm	4.94
Ripple torque (Tr)	%(avg.to pk.)	5
Temperature rise	°C/Watts	6
Max. allowable winding temperature	°C	150
Moment of inertia (Jm)	gr cm ²	42.4
Weight	gr	65
Damping factor at 25°C (F _O)	Nm/rad/sec	2.97 10 ⁻⁴
Elect. Time constant at 25°C (T _E)	Sec	2 10 ⁻⁴

Note : The system does not include the electronic controller.

Parameter	Unit	Value	Tolerance
Resistance at 25°C (R _m)	Ohm	18	±12.5%
Torque sensitivity	Nm/A	710 ⁻²	±10%
Back EMF constant (KB)	Volt/rad/sec	0.1	±10%
Inductance (LM)	mHy	3.3	±30%

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Drawing



All dimensions are in mm

For Additional Information

To learn more about the MTM-38-13B or other MTC products, contact MTC on **+972 4 998 7772** or email **marketing@mtcind.com**