

Reaction Wheel Type M-A

Features

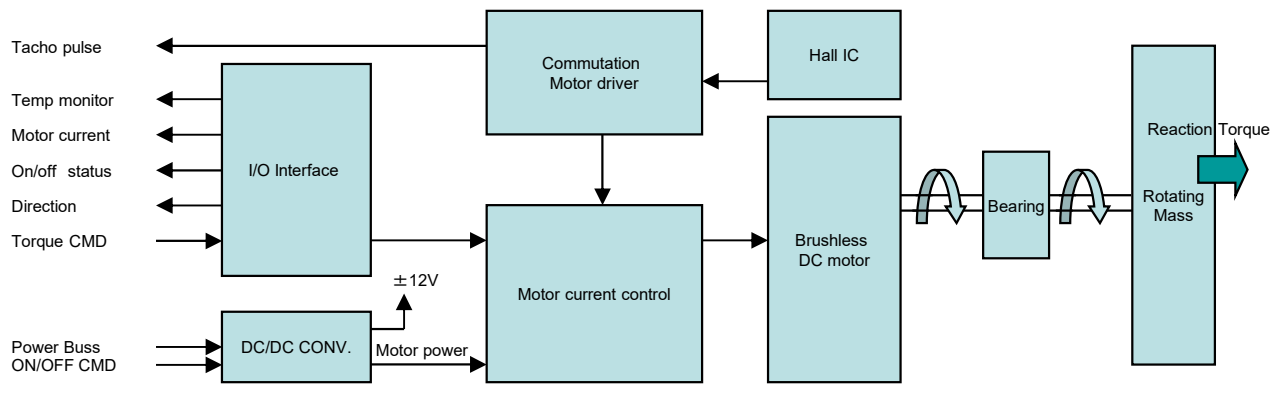


- Angular momentum 10 to 30Nms selectable rotor momentum mass.
- Output torque 0.2Nm to 0.4Nm
- Low disturbance by well-balanced tuning technology.
- Up to severe environmental condition
- Duplex angular contact bearings
- Lubricant: synthetic oil MAC
- Built-in drive electronics
- Over current protection

Heritage

GOSAT-2

Block Diagram



Performance

Item	Capability	Remarks
Maximum momentum	10 ~ 30 Nms	@ 6000rpm
Maximum output Torque	> 0.2 Nm@ 6000rpm > 0.3 Nm@ 3500rpm > 0.4 Nm@ 2000rpm	
Speed range	±6000 rpm	
Power consumption Peak Torque@ 6000rpm, 0.2Nm Steady state @ 6000rpm	208 W TYP 23 W TYP	
Disturbance @ 6000rpm	Torque 0.1Nm TYP Force 1N TYP	100 to 200Hz
Static Imbalance	< 0.25 g·cm	
Dynamic Imbalance	< 5.0 g·cm ²	
Power Bus Voltage	30~ 52 VDC, 100VDC available	
Dimension (Diameter × Height)	Φ279 mm × 145 mm TYP	
Mass	8.6kgTYP @30Nms	
Integrated Electronics	Yes	
Tachometer	96Pulses/rev	
Signal Interface	Analog	
Operation Temperature Range	-5 ~ +60 °C	
Turn on Temperature Range	-30 ~ +60 °C	
Random Vibration	> 196.0 m/s ² rms(Z) > 183.0 m/s ² rms(X,Y)	
Radiation Hard	> 100krad(Si)	
Design Life	> 10years	

Subject to change without prior notice.