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Product Catalog

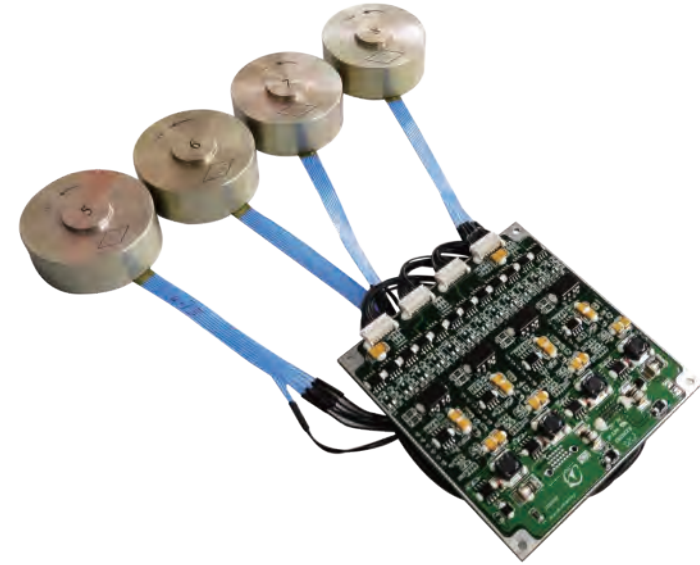
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3mNms Reaction Wheel



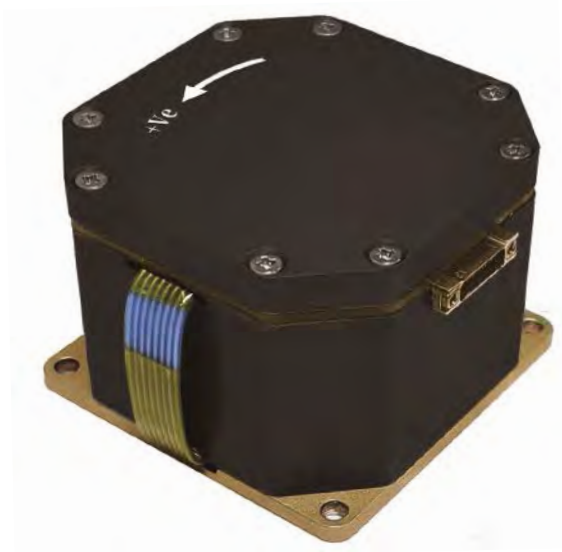
Max. Wheel Momentum	$\geq 3\text{mNms}@6000\text{rpm}$	Max. Wheel Torque	$\geq 0.45\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 5\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$37\text{mm} \times 37\text{mm} \times 37\text{mm} (\pm 1\text{mm})$	Mass	$90\text{g} \pm 5\text{g}$
Voltage Supply	Rated voltage $12\text{V} (9.6 \sim 12.6\text{V})$	Static Power Consumption	$\leq 0.3\text{W}$
Steady-state Power Consumption in Air	$\leq 0.8\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 0.7\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 2.5\text{W}@0.45\text{mNm}$	Connector	CAN / RS422
Operation Thermal	$-20 \sim +50^\circ\text{C}$	Life Span	$\geq 5\text{Years}$

8mNms Reaction Wheel



Max. Wheel Momentum	$\geq 8\text{mNms}@9000\text{rpm}$	Max. Wheel Torque	$\geq 2.5\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 5\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$\varnothing 44\text{mm} \times 21\text{mm} (\pm 1\text{mm})$	Mass	$85\text{g} \pm 10\text{g}$
Voltage Supply	Rated voltage $12\text{V} (9.6 \sim 12.6\text{V})$	Static Power Consumption	$\leq 0.3\text{W}(\text{monoaxial})$
Steady-state Power Consumption in Air	$\leq 0.9\text{W}@3000\text{rpm}(\text{monoaxial})$	Steady-state Power Consumption in Vacuum	$\leq 0.8\text{W}@3000\text{rpm}(\text{monoaxial})$
Peak Power Consumption	$\leq 5\text{W}@2.5\text{mNm}(\text{monoaxial})$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50^\circ\text{C}$	Life Span	$\geq 5\text{Years}$

15mNms-A Reaction Wheel



Max. Wheel Momentum	$\geq 15\text{mNms}@9000\text{rpm}$	Max. Wheel Torque	$\geq 2.5\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 5\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$49\text{mm} \times 49\text{mm} \times 35\text{mm} (\pm 1\text{mm})$	Mass	$170\text{g} \pm 10\text{g}$
Voltage Supply	Rated voltage $12\text{V} (9.6 \sim 12.6\text{V})$	Static Power Consumption	$\leq 0.5\text{W}$
Steady-state Power Consumption in Air	$\leq 0.9\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 0.8\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 5\text{W}@2.5\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50^\circ\text{C}$	Life Span	$\geq 5\text{Years}$

30mNms-A Reaction Wheel



Max. Wheel Momentum	$\geq 30\text{mNms}@9000\text{rpm}$	Max. Wheel Torque	$\geq 2.5\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 5\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$61\text{mm} \times 61\text{mm} \times 37\text{mm} (\pm 1\text{mm})$	Mass	$240\text{g} \pm 20\text{g}$
Voltage Supply	Rated voltage $12\text{V} (9.6 \sim 12.6\text{V})$	Static Power Consumption	$\leq 0.5\text{W}$
Steady-state Power Consumption in Air	$\leq 0.9\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 0.8\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 5\text{W}@2.5\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50^\circ\text{C}$	Life Span	$\geq 5\text{Years}$

30mNms-B Reaction Wheel



Max. Wheel Momentum	$\geq 30\text{mNms}@7200\text{rpm}$	Max. Wheel Torque	$\geq 5\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 5\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$64\text{mm} \times 64\text{mm} \times 50\text{mm} (\pm 1\text{mm})$	Mass	$390\text{g} \pm 20\text{g}$
Voltage Supply	Rated voltage $12\text{V} (9.6 \sim 12.6\text{V})$	Static Power Consumption	$\leq 0.5\text{W}$
Steady-state Power Consumption in Air	$\leq 0.9\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 0.8\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 6\text{W}@5\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50\text{ }^{\circ}\text{C}$	Life Span	$\geq 5\text{Years}$

50mNms-A 反作用飞轮



Max. Wheel Momentum	$\geq 50\text{mNms}@9000\text{rpm}$	Max. Wheel Torque	$\geq 2.5\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 5\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$80\text{mm} \times 80\text{mm} \times 37\text{mm} (\pm 1\text{mm})$	Mass	$320\text{g} \pm 20\text{g}$
Voltage Supply	Rated voltage $12\text{V} (9.6 \sim 12.6\text{V})$	Static Power Consumption	$\leq 0.5\text{W}$
Steady-state Power Consumption in Air	$\leq 1\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 0.9\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 5\text{W}@2.5\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50\text{ }^{\circ}\text{C}$	Life Span	$\geq 5\text{Years}$

80mNms Reaction Wheel



Max. Wheel Momentum	$\geq 80\text{mNms}@7200\text{rpm}$	Max. Wheel Torque	$\geq 5\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 2\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$70\text{mm} \times 70\text{mm} \times 54\text{mm} (\pm 1\text{mm})$	Mass	$500\text{g} \pm 30\text{g}$
Voltage Supply	Rated voltage $12\text{V} (9.6 \sim 12.6\text{V})$	Static Power Consumption	$\leq 1\text{W}$
Steady-state Power Consumption in Air	$\leq 2\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 1.6\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 6\text{W}@5\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50^\circ\text{C}$	Life Span	$\geq 5\text{Years}$

0.1Nms-B Reaction Wheel



Max. Wheel Momentum	$\geq 0.1\text{Nms}@5000\text{rpm}$	Max. Wheel Torque	$\geq 10\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 2\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$70\text{mm} \times 70\text{mm} \times 54\text{mm} (\pm 1\text{mm})$	Mass	$600\text{g} \pm 50\text{g}$
Voltage Supply	Rated voltage $12\text{V} (9.6 \sim 12.6\text{V})$	Static Power Consumption	$\leq 1\text{W}$
Steady-state Power Consumption in Air	$\leq 2\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 1.6\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 8\text{W}@10\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50^\circ\text{C}$	Life Span	$\geq 5\text{Years}$

0.2Nms-A Reaction Wheel



Max. Wheel Momentum	$\geq 0.2\text{Nms}@6000\text{rpm}$	Max. Wheel Torque	$\geq 20\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$100\text{mm} \times 100\text{mm} \times 65\text{mm} (\pm 1\text{mm})$	Mass	$650\text{g} \pm 50\text{g}$
Voltage Supply	Rated voltage 28V(24~31V)	Static Power Consumption	$\leq 1.6\text{W}$
Steady-state Power Consumption in Air	$\leq 4\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 3.5\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 35\text{W}@20\text{mNm}$	Connector	CAN & RS422
Operation Thermal	-20~+50 °C	Life Span	$\geq 5\text{Years}$

0.3Nms-A Reaction Wheel



Max. Wheel Momentum	$\geq 0.3\text{Nms}@6000\text{rpm}$	Max. Wheel Torque	$\geq 20\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$100\text{mm} \times 100\text{mm} \times 65\text{mm} (\pm 1\text{mm})$	Mass	$750\text{g} \pm 50\text{g}$
Voltage Supply	Rated voltage 28V(24~31V)	Static Power Consumption	$\leq 1.6\text{W}$
Steady-state Power Consumption in Air	$\leq 4\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 3.5\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 35\text{W}@20\text{mNm}$	Connector	CAN & RS422
Operation Thermal	-20~+50 °C	Life Span	$\geq 5\text{Years}$

0.6Nms-A Reaction Wheel



Max. Wheel Momentum	$\geq 0.6\text{Nms}@6000\text{rpm}$	Max. Wheel Torque	$\geq 20\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	112mm $\times$ 112mm $\times$ 66mm($\pm 1\text{mm}$)	Mass	1.0kg $\pm 0.1\text{kg}$
Voltage Supply	Rated voltage 28V(24~31V)	Static Power Consumption	$\leq 1.6\text{W}$
Steady-state Power Consumption in Air	$\leq 4.5\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 3.5\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 35\text{W}@20\text{mNm}$	Connector	CAN & RS422
Operation Thermal	-20~+50 °C	Life Span	$\geq 5\text{Years}$

0.6Nms-B Reaction Wheel



Max. Wheel Momentum	$\geq 0.6\text{Nms}@6000\text{rpm}$	Max. Wheel Torque	$\geq 30\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	112mm $\times$ 112mm $\times$ 90mm($\pm 1\text{mm}$)	Mass	1.3kg $\pm 0.1\text{kg}$
Voltage Supply	Rated voltage 28V(24~31V)	Static Power Consumption	$\leq 2\text{W}$
Steady-state Power Consumption in Air	$\leq 4\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 3.5\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 32\text{W}@30\text{mNm}$	Connector	CAN & RS422
Operation Thermal	-20~+50 °C	Life Span	$\geq 5\text{Years}$

1Nms-A Reaction Wheel



Max. Wheel Momentum	$\geq 1\text{Nms}@6000\text{rpm}$	Max. Wheel Torque	$\geq 30\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$130\text{mm} \times 130\text{mm} \times 90\text{mm} (\pm 1\text{mm})$	Mass	$1.5\text{kg} \pm 0.1\text{kg}$
Voltage Supply	Rated voltage $28\text{V} (24 \sim 31\text{V})$	Static Power Consumption	$\leq 2\text{W}$
Steady-state Power Consumption in Air	$\leq 4.5\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 4\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 32\text{W}@30\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50\text{ }^{\circ}\text{C}$	Life Span	$\geq 5\text{Years}$

2Nms-A Reaction Wheel



Max. Wheel Momentum	$\geq 2\text{Nms}@6300\text{rpm}$	Max. Wheel Torque	$\geq 50\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$160\text{mm} \times 160\text{mm} \times 96\text{mm} (\pm 1\text{mm})$	Mass	$2.2\text{kg} \pm 0.1\text{kg}$
Voltage Supply	Rated voltage $28\text{V} (24 \sim 31\text{V})$	Static Power Consumption	$\leq 2\text{W}$
Steady-state Power Consumption in Air	$\leq 4.5\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 4\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 60\text{W}@50\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50\text{ }^{\circ}\text{C}$	Life Span	$\geq 5\text{Years}$

2Nms-B Reaction Wheel



Max. Wheel Momentum	$\geq 2\text{Nms}@6000\text{rpm}$	Max. Wheel Torque	$\geq 100\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$160\text{mm} \times 160\text{mm} \times 85\text{mm} (\pm 1\text{mm})$	Mass	$2.1\text{kg} \pm 0.1\text{kg}$
Voltage Supply	Rated voltage $28\text{V} (24 \sim 31\text{V})$	Static Power Consumption	$\leq 2\text{W}$
Steady-state Power Consumption in Air	$\leq 5.5\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 4\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 100\text{W}@100\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50^\circ\text{C}$	Life Span	$\geq 5\text{Years}$

4Nms-A Reaction Wheel



Max. Wheel Momentum	$\geq 4\text{Nms}@6000\text{rpm}$	Max. Wheel Torque	$\geq 100\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$180\text{mm} \times 180\text{mm} \times 80\text{mm} (\pm 1\text{mm})$	Mass	$2.7\text{kg} \pm 0.2\text{kg}$
Voltage Supply	Rated voltage $28\text{V} (24 \sim 31\text{V})$	Static Power Consumption	$\leq 2\text{W}$
Steady-state Power Consumption in Air	$\leq 6\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 4\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 100\text{W}@100\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50^\circ\text{C}$	Life Span	$\geq 5\text{Years}$

4Nms-B Reaction Wheel



Max. Wheel Momentum	$\geq 4\text{Nms}@5500\text{rpm}$	Max. Wheel Torque	$\geq 200\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$180\text{mm} \times 180\text{mm} \times 128\text{mm} (\pm 1\text{mm})$	Mass	$3.8\text{kg} \pm 0.2\text{kg}$
Voltage Supply	Rated voltage $28\text{V} (24 \sim 31\text{V})$	Static Power Consumption	$\leq 2\text{W}$
Steady-state Power Consumption in Air	$\leq 8.5\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 6\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 160\text{W}@200\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50\text{ }^{\circ}\text{C}$	Life Span	$\geq 5\text{Years}$

6Nms-A Reaction Wheel



Max. Wheel Momentum	$\geq 6\text{Nms}@5500\text{rpm}$	Max. Wheel Torque	$\geq 200\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$200\text{mm} \times 200\text{mm} \times 130\text{mm} (\pm 1\text{mm})$	Mass	$4.3\text{kg} \pm 0.3\text{kg}$
Voltage Supply	Rated voltage $28\text{V} (24 \sim 31\text{V})$	Static Power Consumption	$\leq 2\text{W}$
Steady-state Power Consumption in Air	$\leq 15\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 12\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 160\text{W}@200\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50\text{ }^{\circ}\text{C}$	Life Span	$\geq 5\text{Years}$

8Nms-A Reaction Wheel



Max. Wheel Momentum	$\geq 8\text{Nms}@5500\text{rpm}$	Max. Wheel Torque	$\geq 200\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$224\text{mm} \times 224\text{mm} \times 130\text{mm} (\pm 1\text{mm})$	Mass	$5.0\text{kg} \pm 0.3\text{kg}$
Voltage Supply	Rated voltage 28V(24~31V)	Static Power Consumption	$\leq 2\text{W}$
Steady-state Power Consumption in Air	$\leq 15\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 9\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 90\text{W}@100\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50^\circ\text{C}$	Life Span	$\geq 5\text{Years}$

8Nms-B Reaction Wheel



Max. Wheel Momentum	$\geq 8\text{Nms}@1600\text{rpm}$	Max. Wheel Torque	$\geq 1000\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$260\text{mm} \times 260\text{mm} \times 118\text{mm} (\pm 1\text{mm})$	Mass	$9.5\text{kg} \pm 0.5\text{kg}$
Voltage Supply	Rated voltage 28V(24~31V)	Static Power Consumption	$\leq 2\text{W}$
Steady-state Power Consumption in Air	$\leq 15\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 12\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 160\text{W}@0.6\text{Nm}/250\text{W}@1\text{Nm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50^\circ\text{C}$	Life Span	$\geq 5\text{Years}$

12Nms Reaction Wheel



Max. Wheel Momentum	$\geq 12\text{Nms}@5500\text{rpm}$	Max. Wheel Torque	$\geq 200\text{mNm}$
Control Mode	Current, Speed and Torque control model	Current Control Accuracy	Superior to $\pm 1\text{mA}$
Speed Control Accuracy	Superior to $\pm 1\text{rpm}$	Torque Control Accuracy	Superior to 2%
Dimensions	$260\text{mm} \times 260\text{mm} \times 130\text{mm} (\pm 1\text{mm})$	Mass	$6.2\text{kg} \pm 0.3\text{kg}$
Voltage Supply	Rated voltage $28\text{V} (24 \sim 31\text{V})$	Static Power Consumption	$\leq 2\text{W}$
Steady-state Power Consumption in Air	$\leq 15\text{W}@3000\text{rpm}$	Steady-state Power Consumption in Vacuum	$\leq 9\text{W}@3000\text{rpm}$
Peak Power Consumption	$\leq 100\text{W}@100\text{mNm}$	Connector	CAN & RS422
Operation Thermal	$-20 \sim +50\text{ }^{\circ}\text{C}$	Life Span	$\geq 5\text{Years}$