



Parameter	RW35
Angular momentum	0.1 Nms
Nominal rotation speed	5000 rpm
Nominal Torque (max. commandable)	0.005 Nm
Moment of inertia (rotating mass)	$1.9 \times 10^{-4} \text{ kgm}^2$
Power interface	
<i>Supply voltage</i>	$12 \text{ V} \pm 0.6 \text{ V}$
Power Consumption	
<i>Stand by (motor off)</i>	$\leq 2.0 \text{ W}$
<i>Conservation of rotation speed¹⁾</i>	$\leq 4 \text{ W @ nominal rotation speed}$
<i>Max. acceleration¹⁾</i>	$\leq 9 \text{ W}$
Mechanical interface	
<i>Mass</i>	$< 0.5 \text{ kg}$
<i>Dimension Single Wheel with flange</i>	$102 \times 102 \times 58 \text{ mm}^3$
Temperatures	
<i>Operation</i>	$-20 \text{ }^\circ\text{C to } +50 \text{ }^\circ\text{C}$
<i>Non-operation</i>	$-30 \text{ }^\circ\text{C to } +60 \text{ }^\circ\text{C}$
<i>Storage</i>	$-40^\circ\text{C to } +65^\circ\text{C}$
Radiation (total dose)	20 krad (behind 2 mm Al-Shield) in LEO
Data interface	RS-422 (RS-485 optional)
Design lifetime	5 years
Storage time	3 years (includes up to 240 hours of ground operations)