



Key Performance Features:

- High Energy Neodymium Magnets
- Peak Torque to 1000 oz-in
- Excellent Torque to Weight Ratio
- Encoder Ready
- 12-120 VDC Typical

S23

BRUSHED
SERVO
MOTOR
SERIES

Motor Characteristics

FRAME SIZE	STACK LENGTH	PEAK STALL TORQUE (T _p) OZ-IN	CONT. STALL TORQUE (T _c) OZ-IN	ROTOR INERTIA (J _m) OZ-IN-SEC ²	FRICTION TORQUE (T _f) OZ-IN	THERMAL RESISTANCE (RM) °C/WATT	MAX RECOMMEND SPEED RPM	MAX WINDING TEMP. C°	POWER RANGE W	WEIGHT LB
S23	-- 100	500	50	0.006	5	4.5	4000	155	70	2
S23	-- 200	800	75	0.010	6	4.0	4000	155	100	2.6
S23	-- 285	1000	100	0.014	7	3.5	4000	155	130	3.2

Sample Windings

CONSULT MAGMOTOR APPLICATION STAFF FOR OTHER AVAILABLE WINDINGS

	S23 -- 100				S23 -- 200				S23 -- 285			
	E	G	I	K	F	H	J	M	E	G	I	K
Torque Constant (Kt) oz-in/amp	5.1	8.0	13.0	20.1	12.8	19.3	30.4	60.8	14.4	22.7	36.2	56.3
Voltage Constant (Ke) Volts/Krpm	3.7	6.0	9.6	14.9	9.4	14.3	22.5	45.0	0.6	16.8	26.8	41.5
Term. Resistance (Rt) Ohms (cold)	0.5	0.7	1.45	3.15	0.65	1.35	2.86	10.32	0.5	1.9	2.5	5.5
Peak Current (A) Amps	75	48	24	15	75	48	24	15	75	48	24	15
Cont. Current (A) Amps	7.3	4.7	3.0	2.0	7.3	4.7	3.0	2.0	7.3	4.7	3.0	2.0

VALUES AS LISTED ARE TEST CONDITIONS, ACTUAL RESULTS MAY VARY

▼ S23 Series Options

- Optical Encoders
- Tachometers and Brakes
- Application Specific Windings and Mechanical designs
- Custom Cables and Connectors
- NEMA 23 Flange Mounting
- For more options, see magmotor.com custom solutions, or call us.

▼ Typical Applications

- Semiconductor Equipment
- Medical Equipment
- Automated Assembly Machines
- Laboratory Equipment
- Pharmaceutical Equipment
- X-Y-Z Positioning Machines

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