



Key Performance Features:

- High Energy Neodymium Magnets
- Peak Torque to 150 oz-in
- Excellent Torque to Weight Ratio
- 1.5" Motor Diameter is Ideal for Restricted Space Applications
- High RPM Operation

SR15

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
SR15	-- 100	75	10	0.00027	2	6.5	6000	155	25	0.6
SR15	-- 150	120	15	0.0004	2.5	5	6000	155	45	0.82
SR15	-- 200	135	20	0.0005	2.7	4.0	6000	155	62	1.0
SR15	-- 250	150	25	0.0006	3	3.0	6000	155	80	1.2

Sample Windings

CONSULT MAGMOTOR APPLICATION STAFF FOR OTHER AVAILABLE WINDINGS

	SR15 -- 100				SR15 -- 150				SR15 -- 200				SR15 -- 250			
	I	K	M	O	I	K	M	O	I	K	M	O	I	K	M	O
Torque Constant (Kt) oz-in/amp	1.37	2.2	3.5	4.5	2.15	3.5	5.41	8.0	2.7	4.3	7.0	8.9	3.5	5.5	7.8	13.9
Voltage Constant (Ke) Volts/Krpm	1.0	1.6	2.6	3.3	1.59	2.6	4.0	5.91	2.0	3.2	5.2	6.6	2.6	4.1	6.5	10.3
Term. Resistance (Rt) Ohms (cold)	0.4	0.8	1.32	3.1	0.44	0.90	1.63	4.1	0.8	1.6	2.6	6.2	0.50	1.05	2.3	5.5
Peak Current (A) Amps	40	30	20	10	40	30	20	10	40	30	20	10	40	30	20	10
Cont. Current (A) Amps	7	5	3	2	7	5	3	2	7	5	3	2	7	5	3	2

VALUES AS LISTED ARE TEST CONDITIONS, ACTUAL RESULTS MAY VARY

SR15 Series Options

- Optical Encoders
- Application Specific Windings and Mechanical designs
- Custom Cables and Connectors
- Special Shaft and Mounting Configurations
- For more options, see magmotor.com custom solutions, or call us.

Typical Applications

- X-Y Positioning Machines
- Medical Equipment
- Automated Assembly Machines
- Laboratory Equipment
- Pharmaceutical Equipment
- Office Products

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