



## 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 <sub>p</sub> ) OZ-IN | CONT. STALL TORQUE (T <sub>c</sub> ) OZ-IN | ROTOR INERTIA (J <sub>m</sub> ) OZ-IN-SEC <sup>2</sup> | FRICTION TORQUE (T <sub>f</sub> ) 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    |
| <b>Torque Constant (Kt)</b><br>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 |
| <b>Voltage Constant (Ke)</b><br>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 |
| <b>Term. Resistance (Rt)</b><br>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  |
| <b>Peak Current (A)</b><br>Amps             | 40          | 30  | 20   | 10  | 40          | 30   | 20   | 10   | 40          | 30  | 20  | 10  | 40          | 30   | 20  | 10   |
| <b>Cont. Current (A)</b><br>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](http://magmotor.com) custom solutions, or call us.

## Typical Applications

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

**Magmotor**<sup>TM</sup>  
AUS Hybrid Company

