

SE700 SERVO MOTORS

BRUSHLESS MEDIUM INERTIA



High Quality Medium Inertia Brushless Servo Motors

The Trust Automation SE700 Series Brushless Servo Motors are compact, high quality motors designed specifically to reduce motor size while increasing motor torque. The torque ripple is low, approximately .3% of the rated motor torque. Available in four frame sizes, the SE700 Series delivers continuous stall torque from .71 lb-in to 19.12 lb-in and peaks from 3.72 lb-in to 147.81 lb-in.

The increased torque and smooth operation of the SE700 Series motors is due to the increased number of pole pairs on the rotor. While many motors of this size have four pairs and some have as many as eight pairs, the SE700 Series has ten pole pairs providing the best performance available. The physical size is 25% smaller (or less) than traditional designs.

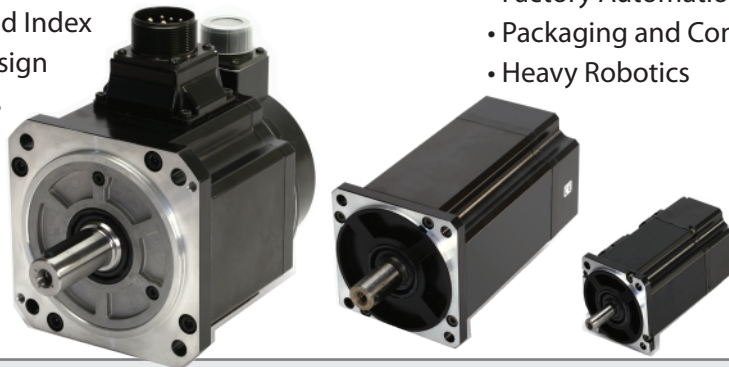
This medium inertia model is designed for heavier loads, improving motor to load inertia matching while providing good acceleration capability, allowing for rapid positioning. Faster positioning translates to higher machine throughput. Applications include medical imaging, conveyors, factory automation, packaging and robotics, just to name a few.

FEATURES

- Standard Models Stocked for Short Lead Time
- Rugged High Quality Industrial Construction
- Differential Encoder Signals A, B and Index
- 10-Pole Pair, Low Torque Ripple Design
- High Quality Neodymium Magnets
- NEMA IP67 rated
- CE/UL Certified
- Stock and Custom Models Available

APPLICATIONS

- Medical Imaging and Research Equipment
- Factory Automation
- Packaging and Conveyors
- Heavy Robotics



TECHNICAL SPECIFICATIONS

Electrical

Insulation Grade

F Type, 500 VDC, 10MΩ

Dielectric Strength

1,500 VAC, 1 min

Connections

**SE620-0030 – SE640-0750
Motor and Sensor Connections**

Type: Pigtail, un-terminated

Length: 9.8 ft (3.0 M)

**SE650-1000 – SE650-1500
Motor and Sensor Connections**

Type: Circular Connector

Length: N/A

Mechanical

Vibration Grade

V10

Excitation System

Permanent Magnet

Protection Systems

Fully Enclosed, Self Cooling

Weight

1lb to 14 lb (.45 kg to 6.35 kg)

Environmental

Maximum Altitude

6,560ft (2000M)

Temperature (ambient)

Normal operation: 0° C to +40° C

Storage: -20° C to +75° C

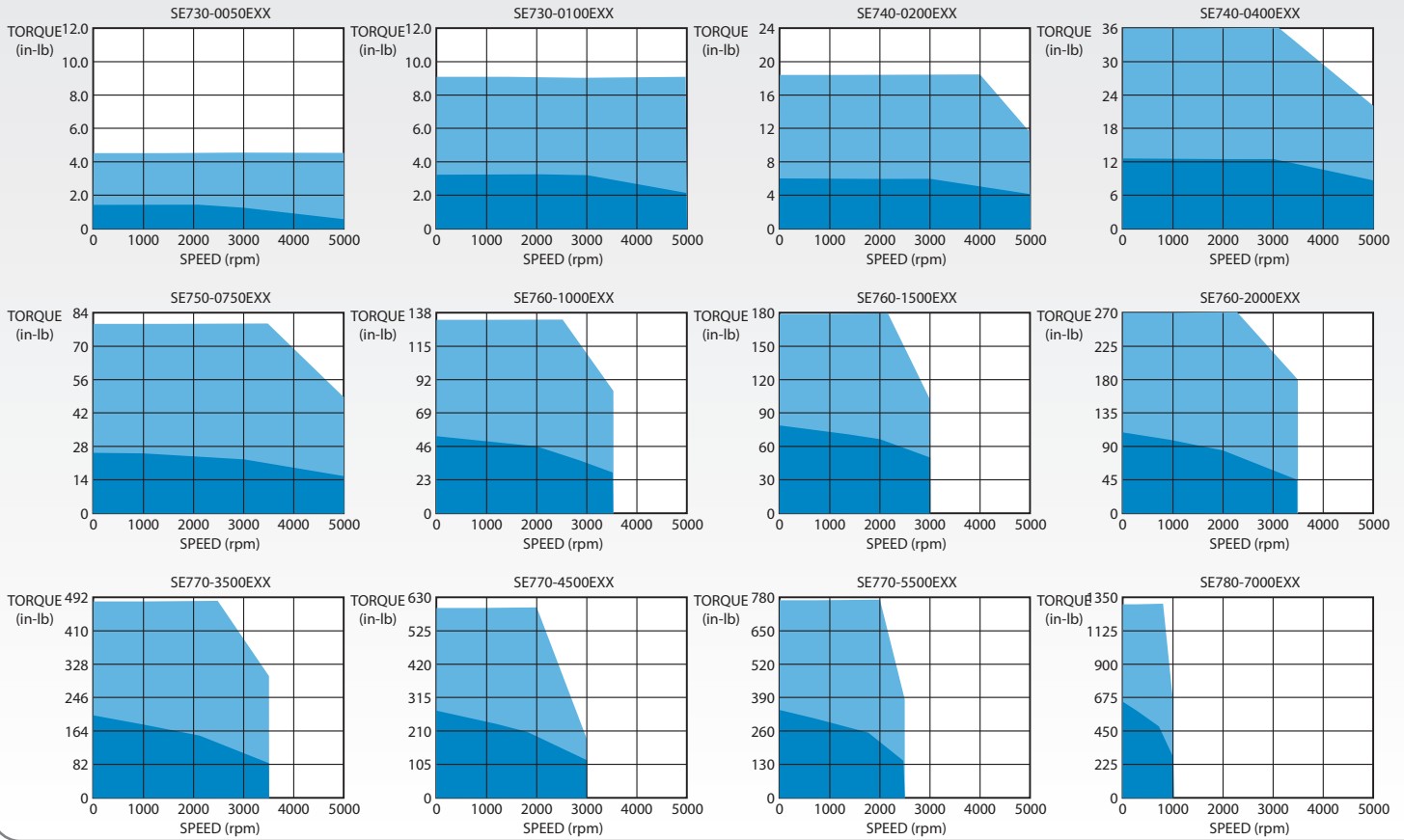
Humidity

Operating: 10% to 70%, non-condensing

Storage: 10% to 95%, non-condensing



PERFORMANCE



MOTOR SPECIFICATIONS

Model	Rated Output (Watts)	Cont. Stall Torque (lb-in)	Peak Stall Torque (lb-in)	Cont. Current (A)	Peak Current (A)	Torque Constant (lb-in/A)	Voltage Constant (V/KRPM)	Flange Size (mm)
SE730-0050	50	1.48	4.59	1.9	7.1	0.84	9.9	54
SE730-0100	100	3.12	9.12	2.9	10.1	1.17	13.8	54
SE740-0200	200	6.07	18.59	5.9	19.8	1.12	13.3	76
SE740-0400	400	12.13	36.29	3.1	12	4.27	16.8	76
SE750-0750	750	26.02	79.65	7.0	23.7	3.90	15.4	86
SE760-1000	1000	53.10	132.76	8.3	23.7	7.11	28.0	130
SE760-1500	1500	79.66	179.67	10.2	26.5	8.68	34.2	130
SE760-2000	2000	106.21	269.95	16.3	48	7.28	29	130
SE770-3500	3500	186.75	486.79	28	80	7.44	29.3	180
SE770-4500	4500	239.85	619.55	29	81	9.21	36.4	180
SE770-5500	5500	371.72	796.54	33.7	83	10.98	43.2	180
SE780-7000	7000	619.53	1327.57	34	83	18.85	74.5	220

