

SE500 SERVO MOTORS

BRUSH ROTARY SERVO MOTORS



High Quality Low Inertia Brushed Servo Motors

The Trust Automation SE500 Series Brushed 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 rate motor torque. Available in four frame sizes, the SE500 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 SE500 Series motor line includes differential encoder signals, A, B and Index. All models are oil sealed and have brake and tachometer (110W and larger) options. They have very low torque ripple, about .6% of the ripple present in previous generation motors.

The SE500 series are stocked at our factory for quick delivery on orders of five or less units. Our servo motors combine standard US style encoders in a compact high quality package. Applications include medical imaging, semiconductor processing, 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
- High quality neodymium magnets
- NEMA IP43 rated
- CE/UL certified
- Customization available

APPLICATIONS

- Medical imaging and research equipment
- Semiconductor processing equipment
- Robotics
- Packaging



TECHNICAL SPECIFICATIONS

Electrical

Insulation Grade

F Type, 500 VDC, 10M Ω

Dielectric Strength

1,500 VAC, 1 min

Connections

SE520-0023 – SE550-0500

Motor and Sensor Connections

Type: Pigtail, un-terminated

Length: 3.6 ft (1.0 M)

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 +65° C

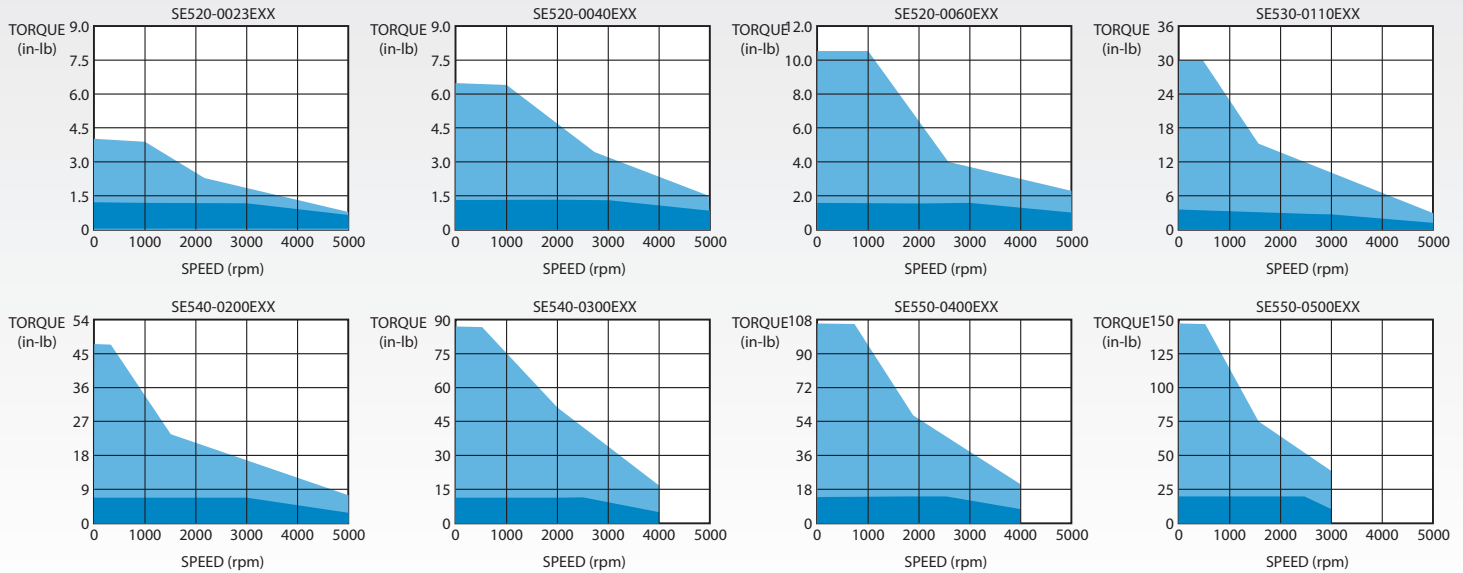
Humidity

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)
SE520-0023	23	0.71	3.72	1.8	10	0.42	4.9	42
SE520-0040	40	1.24	6.73	1.0	4.7	1.54	18.2	42
SE520-0060	60	1.77	10.62	1.4	7.6	1.57	18.5	42
SE530-0110	110	3.72	30.09	2.0	18	1.86	21.8	54
SE540-0200	200	6.82	47.80	3.3	25	2.04	24.2	76
SE540-0300	300	12.66	86.74	5.5	40	2.42	28.6	76
SE550-0400	400	15.05	106.21	5.8	40	2.74	32.9	88
SE550-0500	500	19.12	147.81	7.6	62	2.54	30.0	88

