# SE600 SERVO MOTORS BRUSHLESS LOW INERTIA

#### High Quality Low Inertia Brushless Servo Motors

The Trust Automation SE600 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 rate motor torque. Available in four frame sizes, the SE600 Series delivers continuous stall torque from .96 lb-in to 43.37 lb-in and peaks from 2.85 lb-in to 130.11 lb-in.

The increased torque and smooth operation of the SE600 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 SE600 Series has ten pole pairs providing the best performance available.

This low inertia model is suited best in applications that require high acceleration capability allowing the application to position faster. Faster positioning translates to higher machine throughput. 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
- 10-pole pair, low torque ripple design
- High quality neodymium magnets
- NEMA IP67 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, 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

Excitation System Permanent Magnet

**Protection Systems** Fully Enclosed, Self Cooling

### Weight

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

#### Environmental

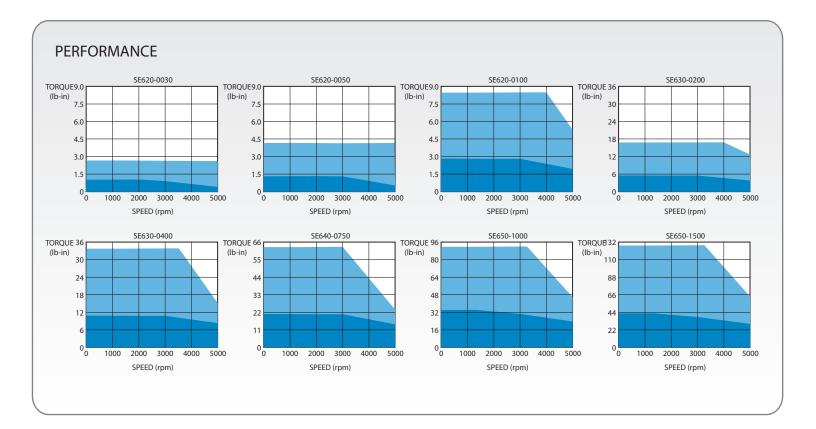
Maximum Altitude 6,560ft (2000M)

**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





## MOTOR SPECIFICATIONS

Model	Rated Output (Watts)	Cont. Stall Torque (lb-in)	Peak Stall Torque (lb-in)	Cont. Current (A) RMS	Peak Current (A) RMS	Torque Constant (Ib-in/A)	Voltage Constant (V/KRPM)	Flange Size (mm)
SE620-0030	30	0.96	2.85	1.2	5.1	0.80	9.4	40
SE620-0050	50	1.41	4.22	2.5	9.0	0.66	7.7	40
SE620-0100	100	2.81	8.45	2.8	10.1	1.21	14.3	40
SE630-0200	200	5.64	16.91	5.7	19.8	1.12	13.2	60
SE630-0400	400	11.24	33.81	3.7	13.4	3.52	41.6	60
SE640-0750	750	21.07	63.37	5.7	19.1	4.23	50.1	76
SE650-1000	1000	34.69	92.93	7.8	24.5	4.87	19.3	100
SE650-1500	1500	43.37	130.11	8.3	26.5	5.81	22.9	100

