

SE700 SERVO MOTORS

BRUSHLESS MEDIUM INERTIA

BENEFITS

- 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



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 rate 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. Application examples include medical imaging, conveyors, factory automation, packaging and robotics.

TECHNICAL SPECIFICATIONS

ELECTRICAL

INSULATION GRADE

F Type, 500 VDC, 10M Ω

DIELECTRIC STRENGTH

1,5000 VAC, 1 min

CONNECTIONS

SE730-0050 - SE780-7000

Motor and Sensor Connections:

Type: Pigtail, un-terminated

Length: 9.8 ft (3.0 M)

MECHANICAL

VIBRATION GRADE

V10

EXCITATION SYSTEM

Permanent Magnet

PROTECTION SYSTEMS

Fully Enclosed, Self Cooling

WEIGHT

1lb to 14lb (.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