SE600 SERVO MOTORS

BRUSHLESS LOW 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

Customization available

APPLICATIONS

Medical imaging and research equipment

Semiconductor processing equipment

Robotics

Packaging

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 0.3% of the rate motor torque. Available in four frame sizes, the SE600 Series delievers continuous stall torque from 0.96 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 motros is due to the increased number of pol pairs on the rotor. While many motors of this size have four pairs and some 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. Application examples include medical imaging, semiconductor processing, packaging and robotics.

TECHNICAL SPECIFICATIONS

ELECTRICAL

INSULATION GRADE

F Type, 500 VDC, 10M Ω

DIELECTRIC STRENTH

1,5000 VAC, 1 min

CONNECTIONS

SE620-0030 - SE640-0750

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

MARCH 2015