



# SE600 SERIES SERVOMOTORS

SMART SOLUTIONS IN MOTION CONTROL

## BRUSHLESS LOW INERTIA

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The **SE600 SERIES BRUSHLESS LOW INTERIA Servo Motors** are stocked at Trust Automation's factory, enabling quick response to changing customer requirements. Trust Automation's SE Series motors combine USA standard encoders and hall sensor wiring with the compact size and power associated with Asian Servo Motors. Our Asian Manufacturing partner ensures consistent quality at any volume. The SE series motors provide high performance and high reliability without the high costs usually associated with this quality of motor.



### FEATURES OF THE SE600 SERIES MOTORS

- Drop in replacement for many Asian Manufactured Motors
- Differential Encoder Signals A,B & Index
- Differential Hall Signals U,V,W Standard on all models
- Oil Seals Standard on all models
- Brake Option on all models
- 10 Pole Low Torque Ripple Design (0.3% of rated Torque, 1/3 ~ 1/5 previous generation motors )

### BASIC MOTOR SPECIFICATIONS

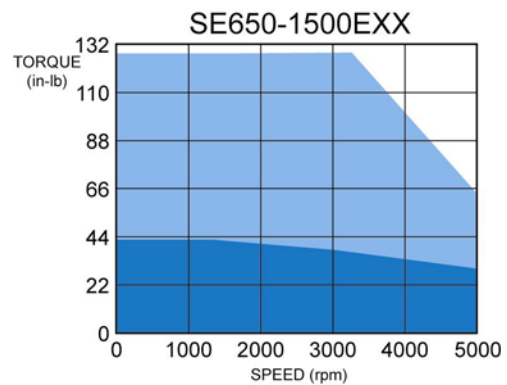
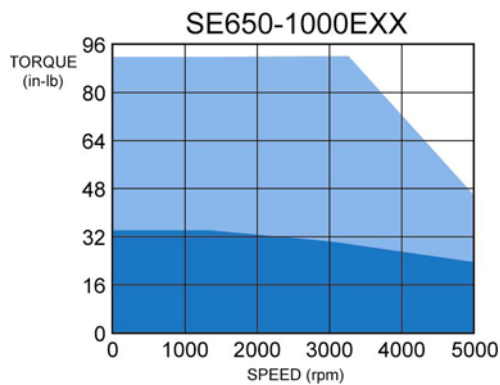
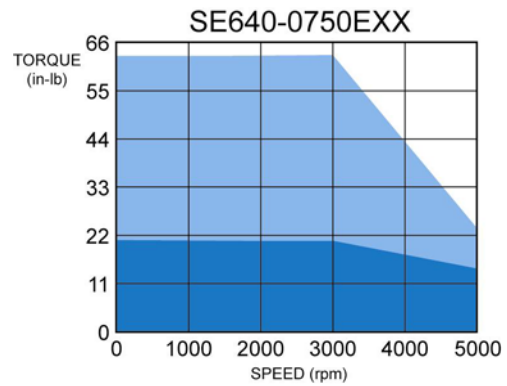
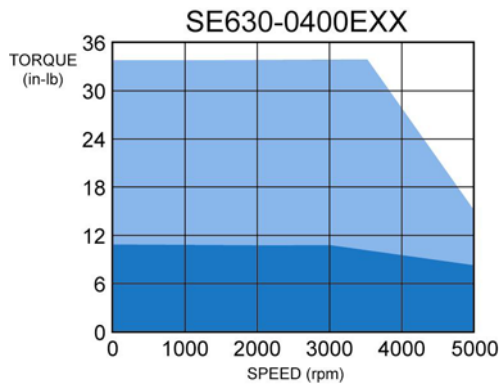
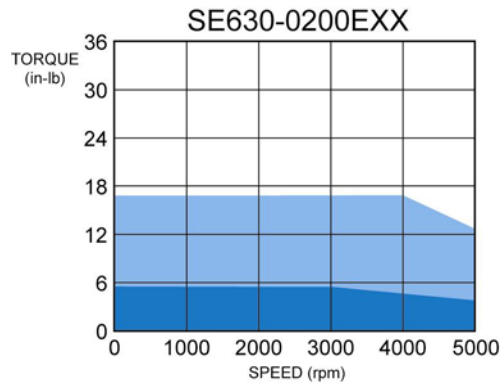
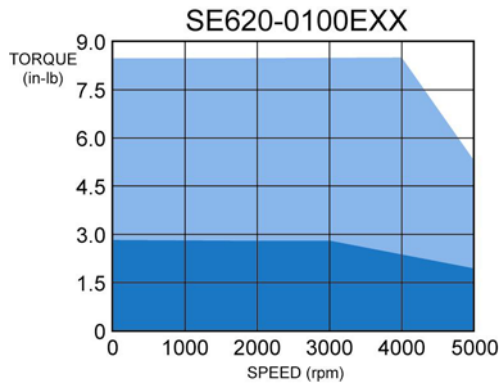
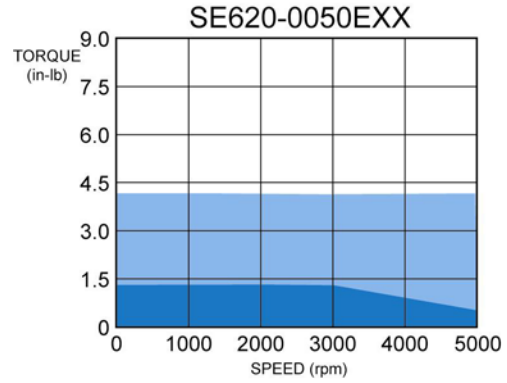
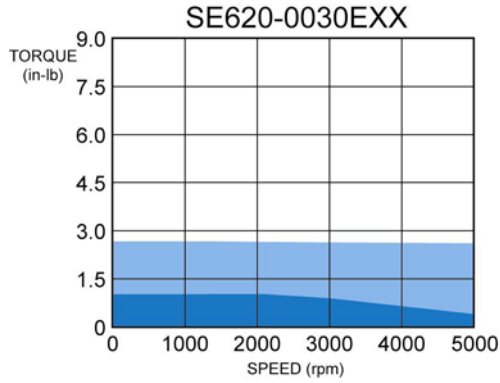
CATEGORY	RATING
Time Rating	Continuous
Insulation Grade	F Type
Dielectric Strength	1,500 VAC, 1 minute
Insulation Grade	500 VDC, 10MΩ or more
Protection Systems	Fully Enclosed, Self Cooling
Seals	Standard
Operating Temperature	0 °C to 40 °C Non-condensing
Storage Temperature	-20 °C to 65 °C
Vibration Grade	V10
Excitation System	Permanent Magnet
Waterproof	IP67
Motor Poles	10
Phases	3φ



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# SE600 Series Torque Curves



## SE600 Series Pinouts

SE620-0030EXX ~ SE640-0750EXX Motors

Standard Cable Lengths:

Motor 9' 10"  
Sensor 9' 10"

Standard Cable Termination:

Motor Pigtail  
Sensor Pigtail

### Motor Connections

Phase	Color
U	RED
V	WHITE
W	BLACK
Earth Ground	GREEN/YELLOW

### Sensor Connections

Signal	Color	Signal	Color
+5V	RED	GND	BLACK
Enc A+	PURPLE	Enc A-	GREEN
Enc B+	BLUE	Enc B-	BROWN
Enc I+	WHITE	Enc I -	YELLOW
Hall U+	GREEN / BLACK	Hall U-	PURPLE / BLACK
Hall V+	BLUE / BLACK	Hall V-	BROWN / BLACK
Hall W+	RED / BLACK	Hall W-	YELLOW / BLACK
Case Ground	SHIELD		

SE650-1000EXX ~ SE650-1500EXX Motors

Motor Termination:

Motor Circular Connector JL04V-2E20-15PE-B  
Sensor Circular Connector MS3102A20-29P

### Motor Connections (Direction of rotation is C.C.W. as seen from front of motor)

Phase	Pin	Phase	Pin
U	A	N/C	E
V	B	N/C	F
W	C	N/C	G
Earth Ground	D		

### Sensor Connections

Signal	Pin	Signal	Pin
+5V	J	GND	H
Enc A+	A	Enc A-	D
Enc B+	B	Enc B-	E
Enc I+	F	Enc I -	G
Hall U+	C	Hall U-	P
Hall V+	L	Hall V-	K
Hall W+	M	Hall W-	T
Case Ground	H	N/C	R, S