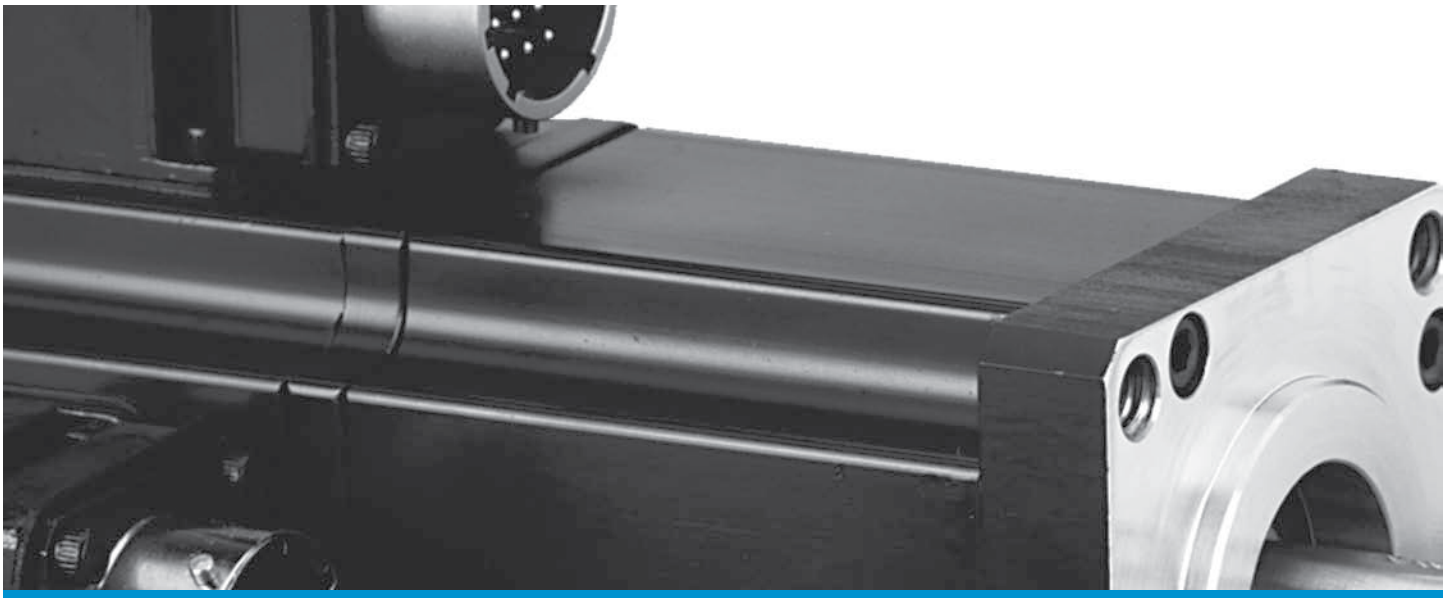

Automation Grade Brushless DC Servo Motors

AMETEK automaiton grade brushless DC servo motors are IP65 rated (with shaft seal) construction including wide range of torque and speeds in a compact design. The brushless construction for extended motor life, low cogging, smooth low speed operation and high torque density, all make these motors ideal for a multitude of applications.

AMETEK automation grade brushless DC servo motors are heavy duty motors representing a significant new solution for designers needing a low to medium inertia motor capable of medium speed operation. A wide range of standard products allows you to select the best brushless motor optimized for your specifications. These advanced high performance motors are offered in standard NEMA mounting.

X - Available Option	C - Consult Factory for Availability

C Automation Grade Brushless DC Servo Motors				Available Motor Options							
				Encoders				Brakes		Cables	
Series	Diameter	Torque	RPM Max.	Q	V	C	D	B5	B6	Power	Signal
AB23000	2.25-in. (57mm)	3.75 - 15 lb-in. (0.423 - 1.694 Nm)	6,000		X		X		X	X	X
AB34000	3.5-in. (90mm)	17 - 44 lb-in. (1.920 - 4.971 Nm)	6,000	X		X		X		X	X
AB48000	4.75-in. (120mm)	44 - 114 lb-in. (4.971 - 12.880 Nm)	3,000	X		X				C	X

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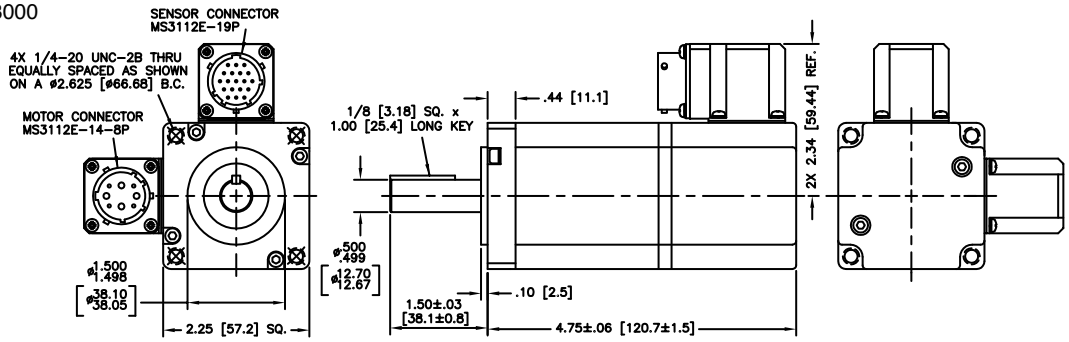
Automation Grade Brushless DC Servo Motors

AB23000 Series

PITTMAN®

AB23000

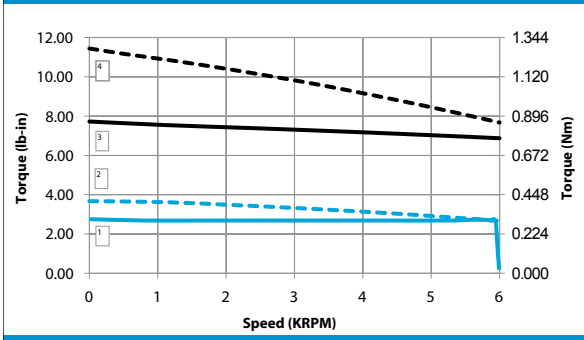


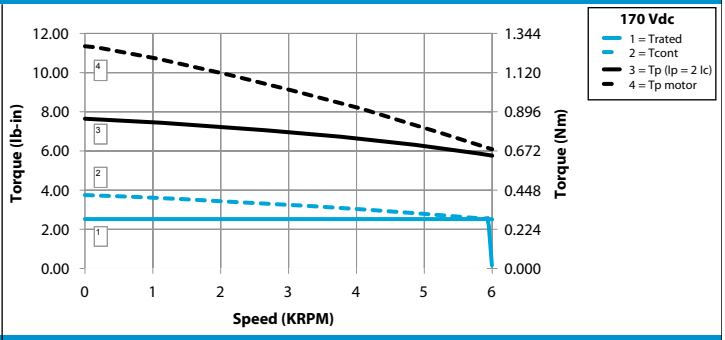
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

		Part/Model Number
Specification	**Units**	**AB23000**
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	4.12
	Nm	0.465
Speed @ Cont. Torque	RPM	6000
Current @ Cont. Torque	Amps (A)	4.42
Continuous Output Power	Watts (W)	215
Motor Constant	lb-in/sqrt W	0.68
	Nm/sqrt W	0.08
Torque Constant	lb-in/A	1.006
	Nm/A	0.114
Voltage Constant	V/krpm	11.90
	V/rad/s	0.114
Terminal Resistance	Ohms	2.16
Inductance	mH	1.81
Max. Speed	RPM	6000
Peak Current	Amps (A)	13.25
Peak Torque	lb-in	11.37
	Nm	1.285
Thermal Time Constant	min	10.00
Thermal Resistance	Celsius/W	1.65
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	0.00014
	kg-m2	1.58E-5
Weight	Lbs	2.68
	Kg	1.2

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 10.0" x 10.0" x 0.25".

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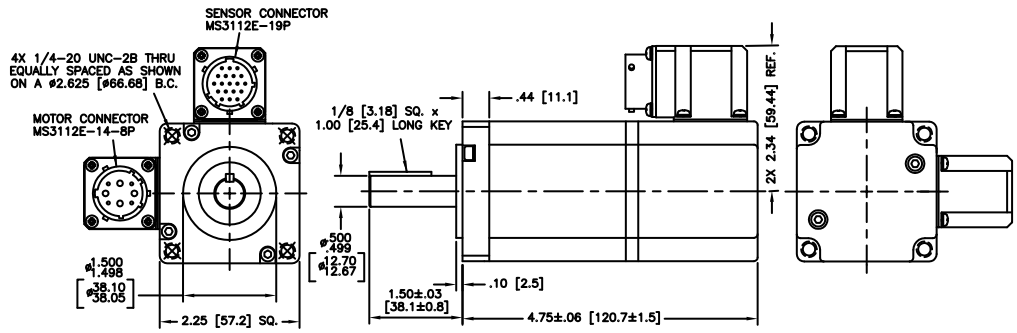
AB23003

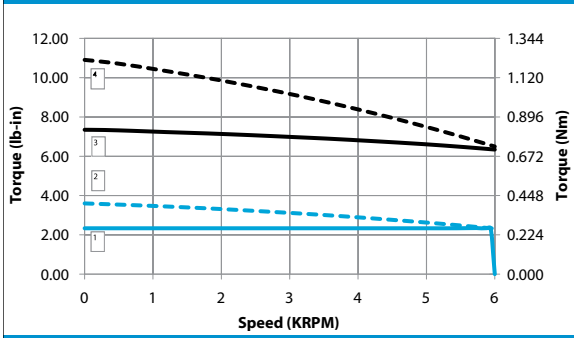


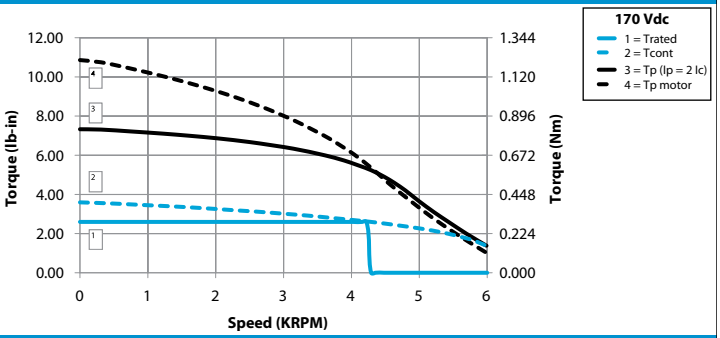
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB23003
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	4.12
	Nm	0.465
Speed @ Cont. Torque	RPM	6000
Current @ Cont. Torque	Amps (A)	1.96
Continuous Output Power	Watts (W)	209
Motor Constant	lb-in/sqrt W	0.68
	Nm/sqrt W	0.08
Torque Constant	lb-in/A	2.070
	Nm/A	0.234
Voltage Constant	V/krpm	24.50
	V/rad/s	0.234
Terminal Resistance	Ohms	9.16
Inductance	mH	7.68
Max. Speed	RPM	6000
Peak Current	Amps (A)	5.89
Peak Torque	lb-in	11.30
	Nm	1.277
Thermal Time Constant	min	10.00
Thermal Resistance	Celsius/W	1.60
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	0.00014
	kg-m2	1.58E-5
Weight	Lbs	2.68
	Kg	1.2

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- High Voltage Rating
- Hall Sensor Feedback (120° elec.)
- High Torque to Weight Ratio
- IP65 Rated

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 10.0" x 10.0" x 0.25".

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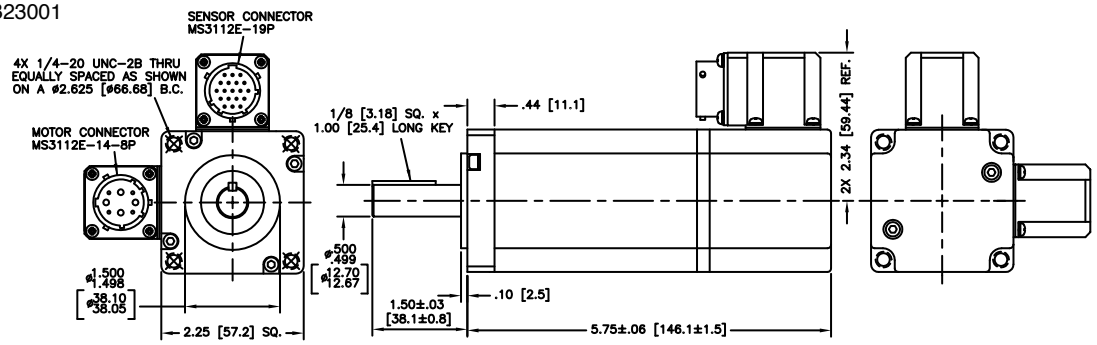
AB23000 Series

AB23001

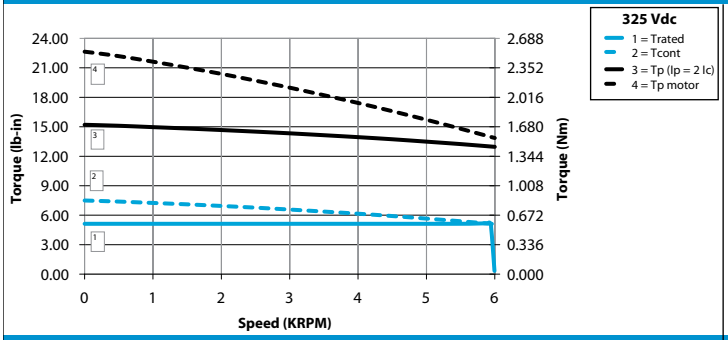


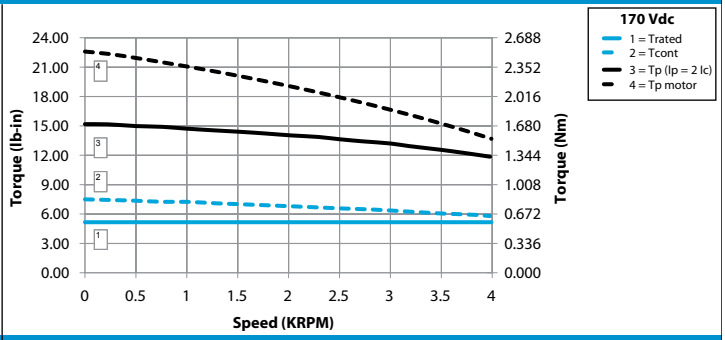
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

		Part/Model Number
Specification	**Units**	**AB23001**
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	7.30
	Nm	0.825
Speed @ Cont. Torque	RPM	6000
Current @ Cont. Torque	Amps (A)	5.30
Continuous Output Power	Watts (W)	300
Motor Constant	lb-in/sqrt W	1.16
	Nm/sqrt W	0.13
Torque Constant	lb-in/A	1.656
	Nm/A	0.187
Voltage Constant	V/krpm	19.6
	V/rad/s	0.187
Terminal Resistance	Ohms	2.04
Inductance	mH	2.10
Max. Speed	RPM	6000
Peak Current	Amps (A)	15.90
Peak Torque	lb-in	22.65
	Nm	2.559
Thermal Time Constant	min	10.00
Thermal Resistance	Celsius/W	1.25
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	2.56E-4
	kg-m2	2.89E-5
Weight	Lbs	3.54
	Kg	1.6

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 10.0" x 10.0" x 0.25".

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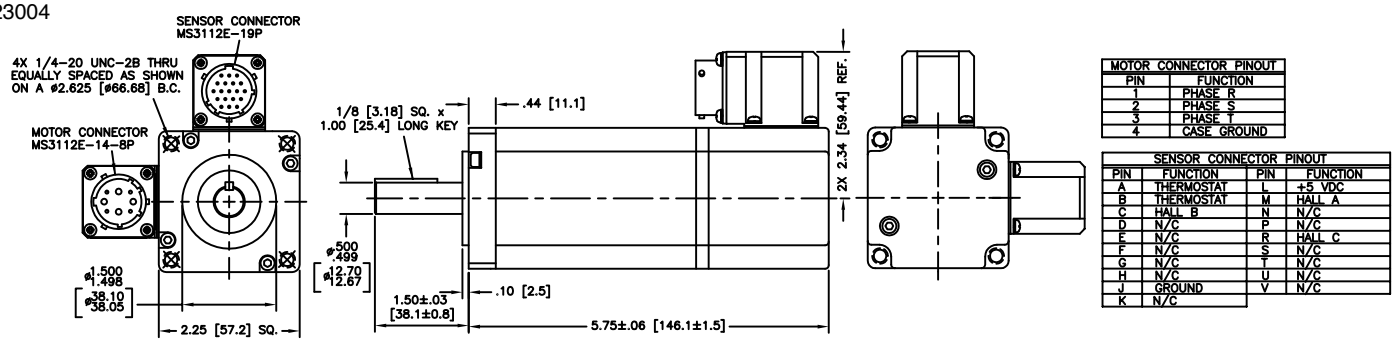
AB23004

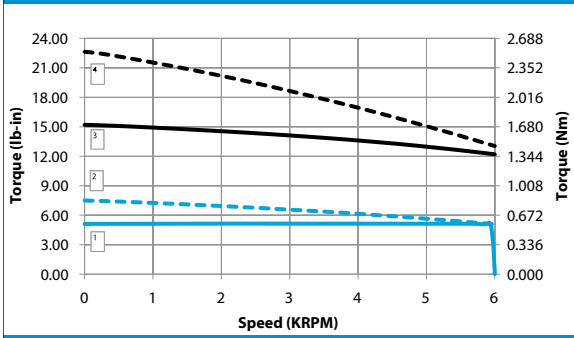


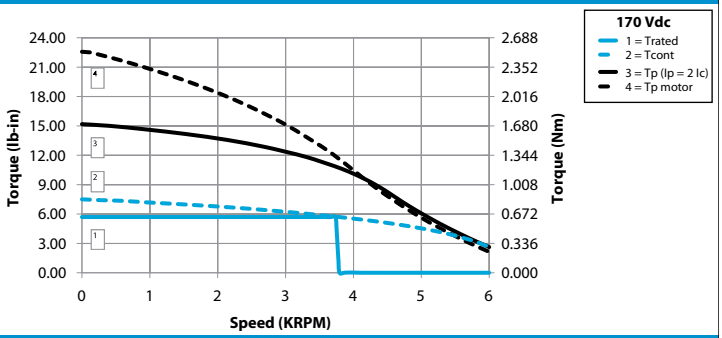
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

		Part/Model Number
Specification	**Units**	**AB23004**
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	7.30
	Nm	0.825
Speed @ Cont. Torque	RPM	6000
Current @ Cont. Torque	Amps (A)	4.37
Continuous Output Power	Watts (W)	299.42
Motor Constant	lb-in/sqrt W	1.14
	Nm/sqrt W	0.13
Torque Constant	lb-in/A	2.011
	Nm/A	0.227
Voltage Constant	V/krpm	23.80
	V/rad/s	0.227
Terminal Resistance	Ohms	3.10
Inductance	mH	3.09
Max. Speed	RPM	6000
Peak Current	Amps (A)	13.10
Peak Torque	lb-in	22.64
	Nm	2.558
Thermal Time Constant	min	10.00
Thermal Resistance	Celsius/W	1.21
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	2.56E-4
	kg-m2	2.89E-5
Weight	Lbs	3.54
	Kg	1.6

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- High Voltage Rating
- Hall Sensor Feedback (120° elec.)
- High Torque to Weight Ratio
- IP65 Rated

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 10.0" x 10.0" x 0.25".

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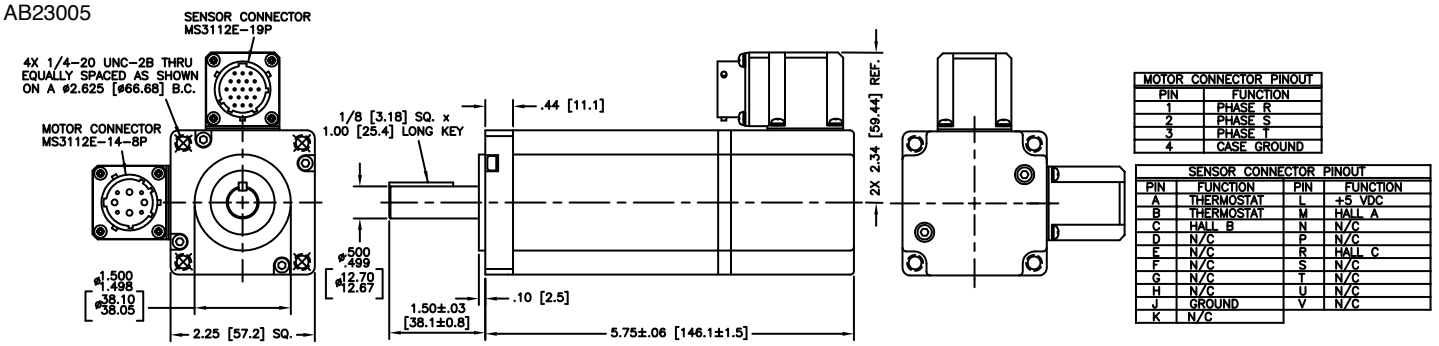
AB23005

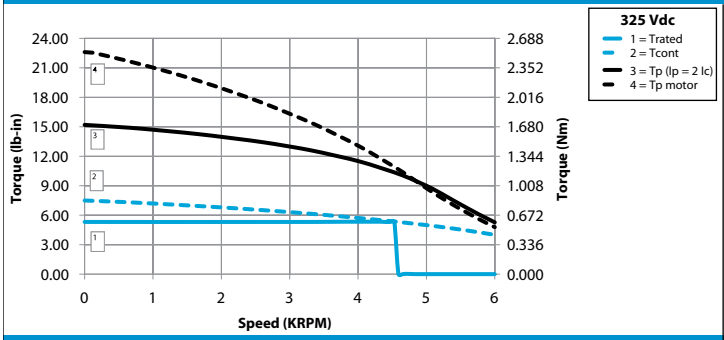


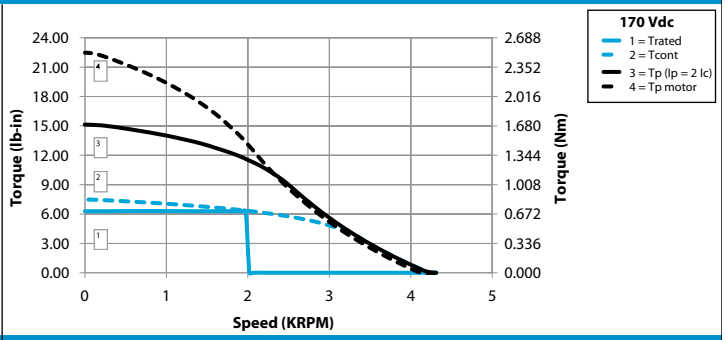
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

		Part/Model Number
Specification	**Units**	**AB23005**
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	7.38
	Nm	0.834
Speed @ Cont. Torque	RPM	6000
Current @ Cont. Torque	Amps (A)	2.44
Continuous Output Power	Watts (W)	283.17
Motor Constant	lb-in/sqrt W	1.17
	Nm/sqrt W	0.13
Torque Constant	lb-in/A	3.313
	Nm/A	0.374
Voltage Constant	V/krpm	39.20
	V/rad/s	0.374
Terminal Resistance	Ohms	8.01
Inductance	mH	8.40
Max. Speed	RPM	6000
Peak Current	Amps (A)	7.33
Peak Torque	lb-in	22.50
	Nm	2.542
Thermal Time Constant	min	10.00
Thermal Resistance	Celsius/W	1.58
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	2.56E-4
	kg-m2	2.89E-5
Weight	Lbs	3.10
	Kg	1.4

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 10.0" x 10.0" x 0.25".

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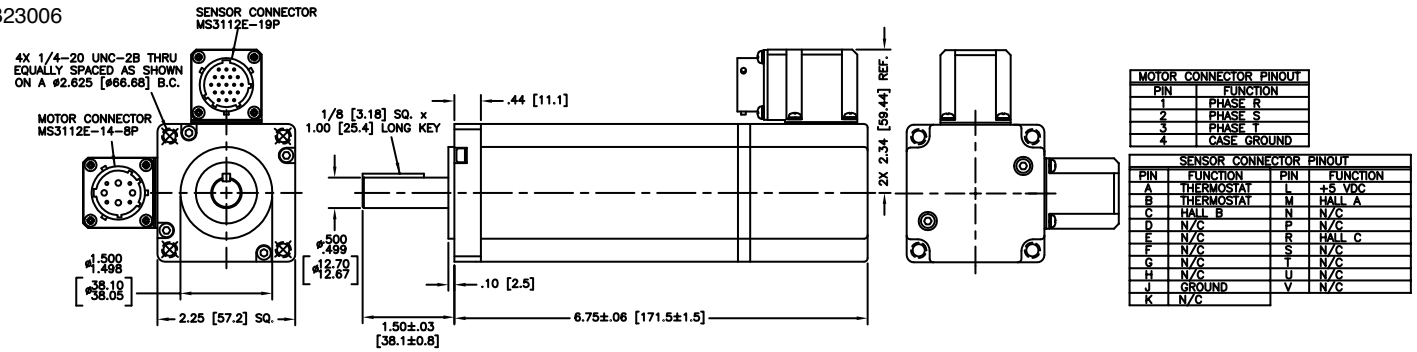


MOTOR CONNECTOR PINOUT

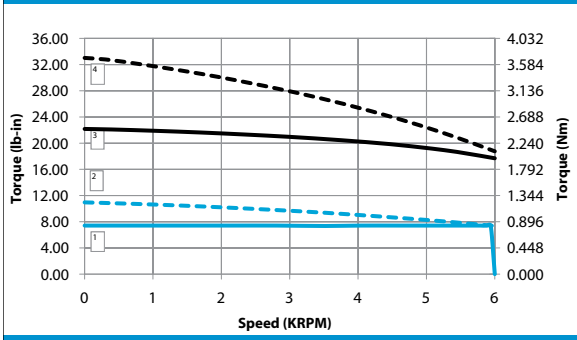
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

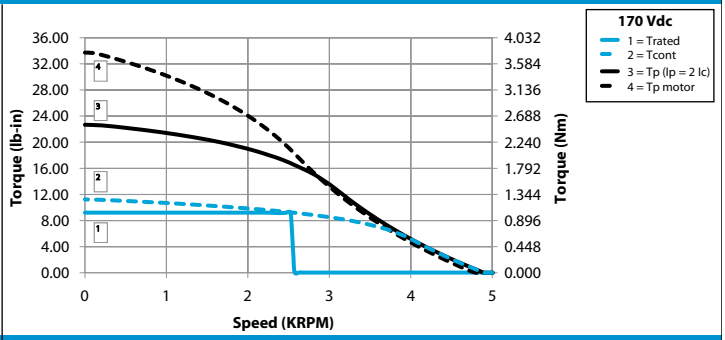
SENSOR CONNECTOR PINOUT

PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB23006
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	11.21
	Nm	1.267
Speed @ Cont. Torque	RPM	6000
Current @ Cont. Torque	Amps (A)	4.62
Continuous Output Power	Watts (W)	608.12
Motor Constant	lb-in/sqrt W	1.43
	Nm/sqrt W	0.16
Torque Constant	lb-in/A	2.839
	Nm/A	0.321
Voltage Constant	V/krpm	33.60
	V/rad/s	0.321
Terminal Resistance	Ohms	3.94
Inductance	mH	3.85
Max. Speed	RPM	6000
Peak Current	Amps (A)	13.85
Peak Torque	lb-in	33.88
	Nm	3.828
Thermal Time Constant	min	10.00
Thermal Resistance	Celsius/W	0.86
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	3.69E-4
	kg-m2	4.17E-5
Weight	Lbs	4.54
	Kg	2.1

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 10.0" x 10.0" x 0.25".

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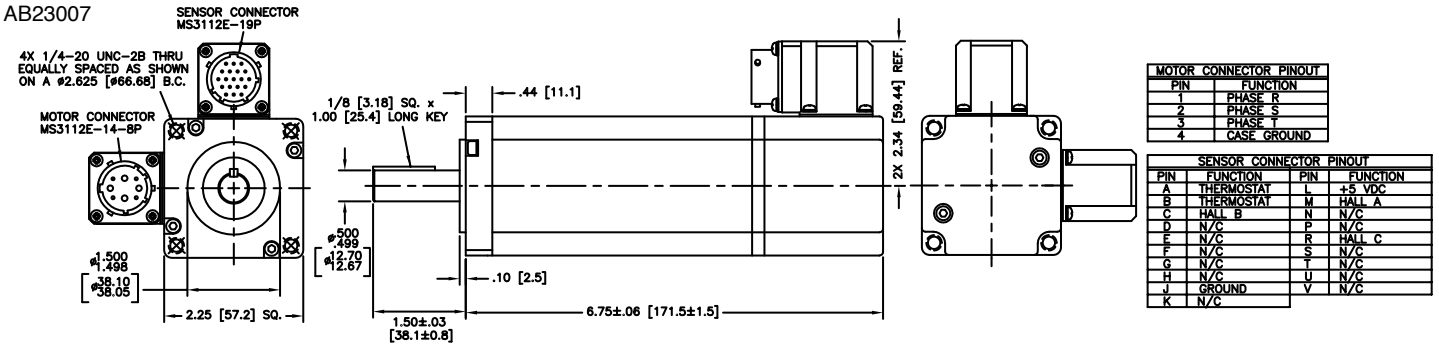
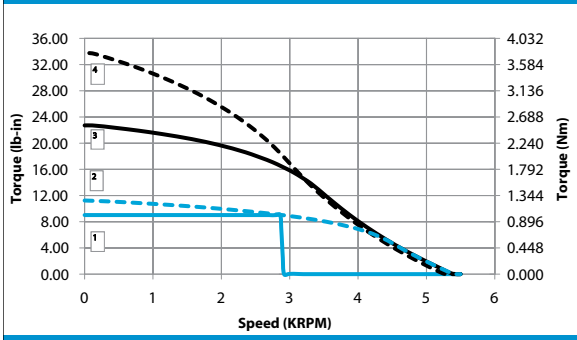


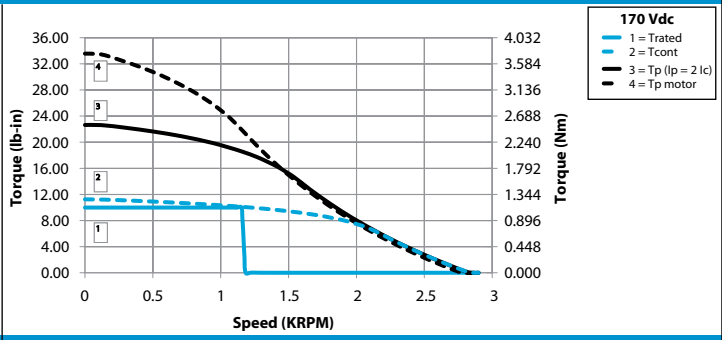
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB23007
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	10.58
	Nm	1.195
Speed @ Cont. Torque	RPM	3800
Current @ Cont. Torque	Amps (A)	2.64
Continuous Output Power	Watts (W)	377
Motor Constant	lb-in/sqrt W	1.35
	Nm/sqrt W	0.15
Torque Constant	lb-in/A	4.969
	Nm/A	0.561
Voltage Constant	V/krpm	58.80
	V/rad/s	0.561
Terminal Resistance	Ohms	13.50
Inductance	mH	11.79
Max. Speed	RPM	6000
Peak Current	Amps (A)	7.92
Peak Torque	lb-in	33.79
	Nm	3.818
Thermal Time Constant	min	10.00
Thermal Resistance	Celsius/W	0.76
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	3.69E-4
	kg-m2	4.17E-5
Weight	Lbs	4.54
	Kg	2.1

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 10.0" x 10.0" x 0.25".

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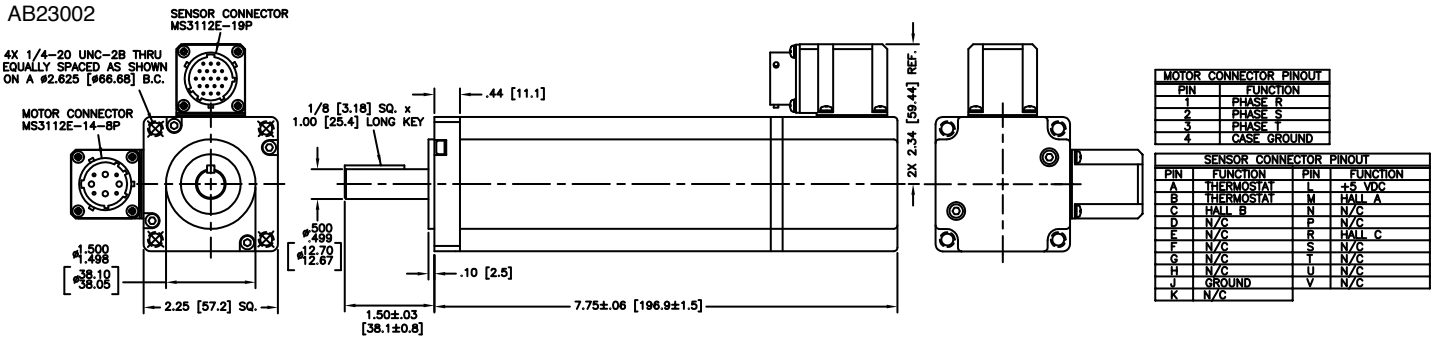
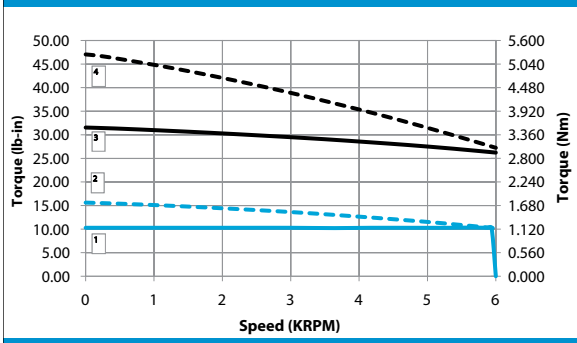


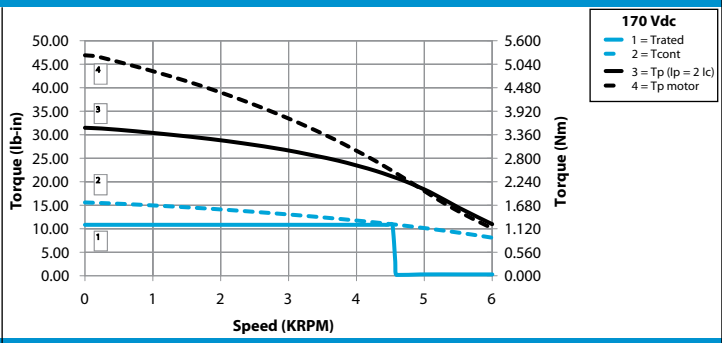
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB23002
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	15.03
	Nm	1.698
Speed @ Cont. Torque	RPM	6000
Current @ Cont. Torque	Amps (A)	10.67
Continuous Output Power	Watts (W)	683.00
Motor Constant	lb-in/sqrt W	1.91
	Nm/sqrt W	0.22
Torque Constant	lb-in/A	1.699
	Nm/A	0.192
Voltage Constant	V/krpm	20.10
	V/rad/s	0.192
Terminal Resistance	Ohms	0.80
Inductance	mH	1.20
Max. Speed	RPM	6000
Peak Current	Amps (A)	32.02
Peak Torque	lb-in	47.04
	Nm	5.315
Thermal Time Constant	min	10.00
Thermal Resistance	Celsius/W	0.79
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	.0005
	kg-m2	5.65E-5
Weight	Lbs	5.38
	Kg	2.4

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 10.0" x 10.0" x 0.25".

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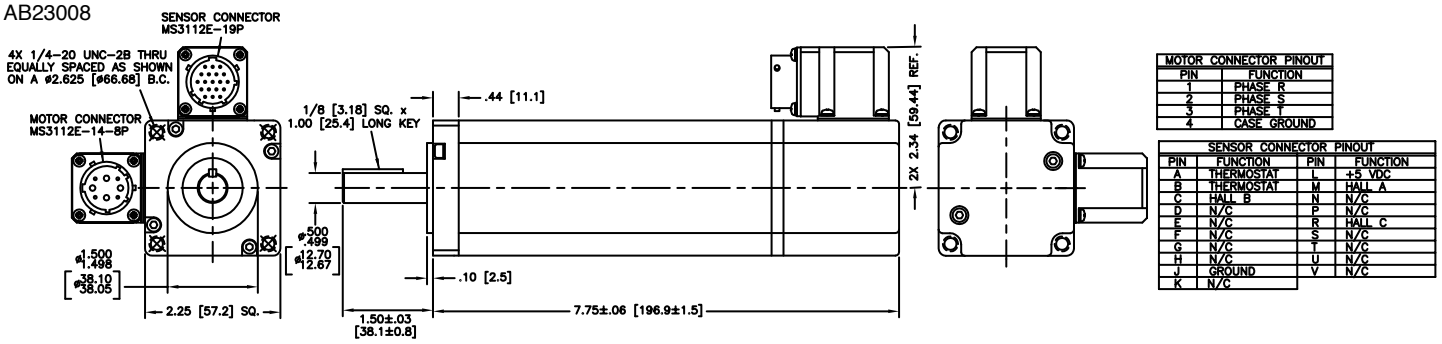
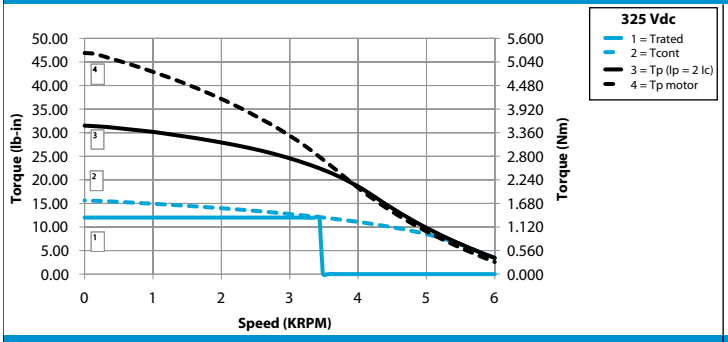


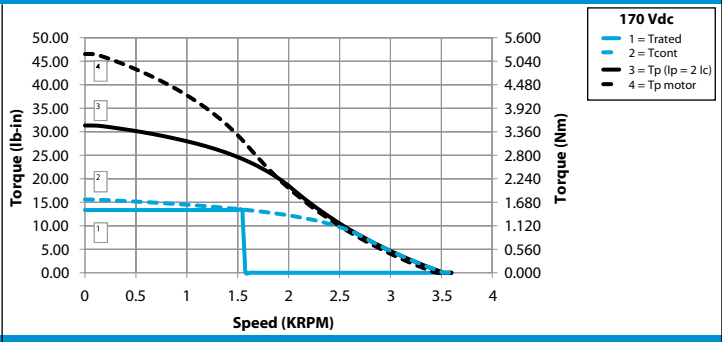
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB23008
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	14.79
	Nm	1.671
Speed @ Cont. Torque	RPM	5000
Current @ Cont. Torque	Amps (A)	4.40
Continuous Output Power	Watts (W)	577.71
Motor Constant	lb-in/sqrt W	1.82
	Nm/sqrt W	0.21
Torque Constant	lb-in/A	4.023
	Nm/A	0.455
Voltage Constant	V/krpm	47.60
	V/rad/s	0.455
Terminal Resistance	Ohms	4.87
Inductance	mH	7.07
Max. Speed	RPM	6000
Peak Current	Amps (A)	13.20
Peak Torque	lb-in	46.89
	Nm	5.298
Thermal Time Constant	min	10.00
Thermal Resistance	Celsius/W	0.76
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	.0005
	kg-m2	5.65E-5
Weight	Lbs	5.38
	Kg	2.4

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 10.0" x 10.0" x 0.25".

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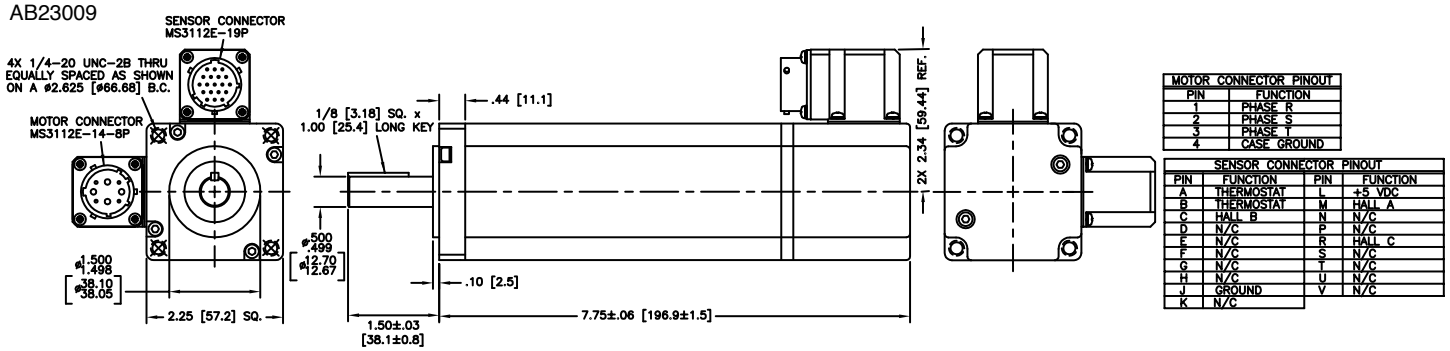
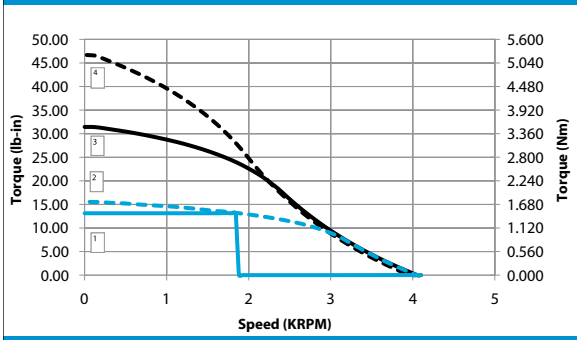


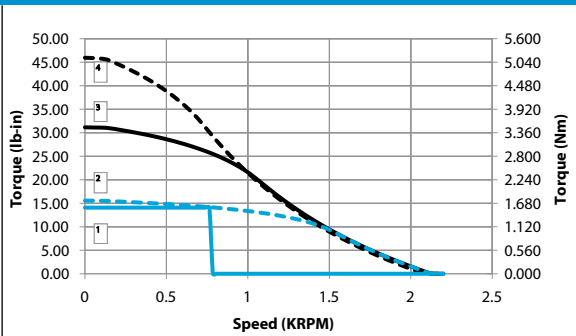
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

		Part/Model Number
Specification	**Units**	**AB23009**
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	14.89
	Nm	1.682
Speed @ Cont. Torque	RPM	2900
Current @ Cont. Torque	Amps (A)	2.78
Continuous Output Power	Watts (W)	407.17
Motor Constant	lb-in/sqrt W	1.90
	Nm/sqrt W	0.21
Torque Constant	lb-in/A	6.625
	Nm/A	0.749
Voltage Constant	V/krpm	78.40
	V/rad/s	0.749
Terminal Resistance	Ohms	12.12
Inductance	mH	17.85
Max. Speed	RPM	6000
No-Load Speed	RPM	6000
Peak Current	Amps (A)	8.33
Peak Torque	lb-in	46.71
	Nm	5.278
Thermal Time Constant	min	10.00
Thermal Resistance	Celsius/W	0.77
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	.0005
	kg-m2	5.65E-5
Weight	Lbs	5.38
	Kg	2.4

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 10.0″ x 10.0″ x 0.25″.

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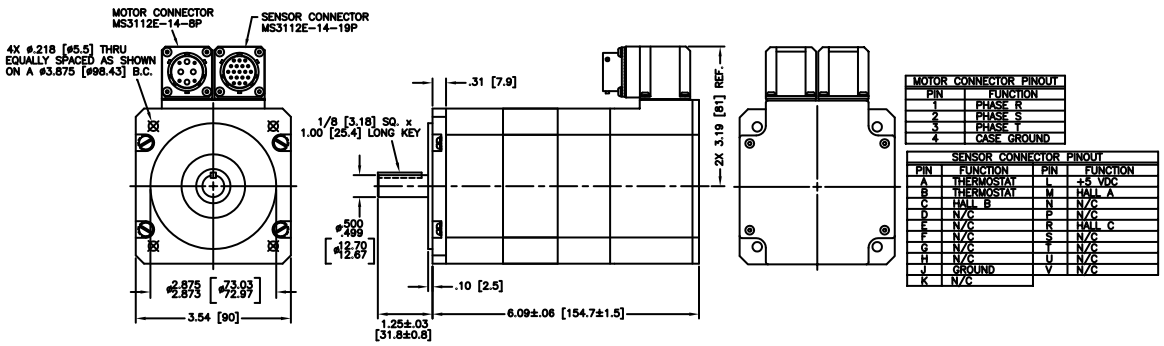
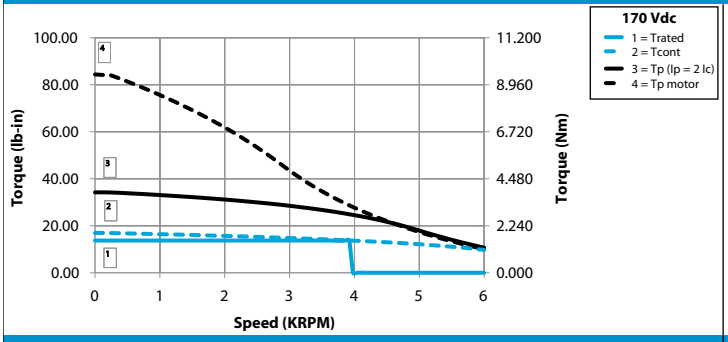


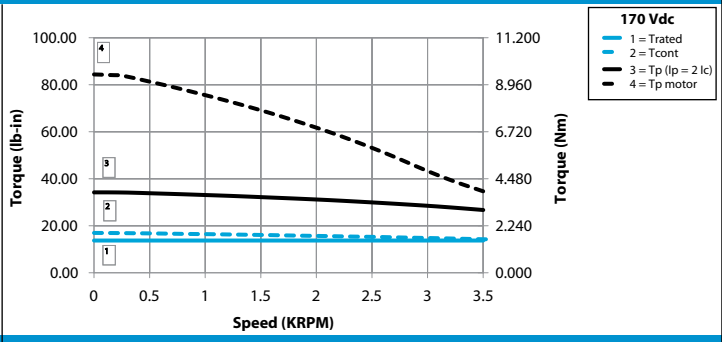
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB34000
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	16.57
	Nm	1.872
Speed @ Cont. Torque	RPM	6000
Current @ Cont. Torque	Amps (A)	11.05
Continuous Output Power	Watts (W)	974.25
Motor Constant	lb-in/sqrt W	1.60
	Nm/sqrt W	0.18
Torque Constant	lb-in/A	1.69
	Nm/A	0.191
Voltage Constant	V/krpm	20.00
	V/rad/s	0.191
Terminal Resistance	Ohms	1.12
Inductance	mH	2.60
Max. Speed	RPM	6000
Peak Current	Amps (A)	55.27
Peak Torque	lb-in	85.45
	Nm	9.655
Thermal Time Constant	min	0.00
Thermal Resistance	Celsius/W	0.63
Max. Winding Temperature	Celsius	155
Rotor Inertia	lb-in-sec2	.001
	kg-m2	1.13E-4
Weight	Lbs	7.86
	Kg	3.6

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 12.0" x 12.0" x 0.50".

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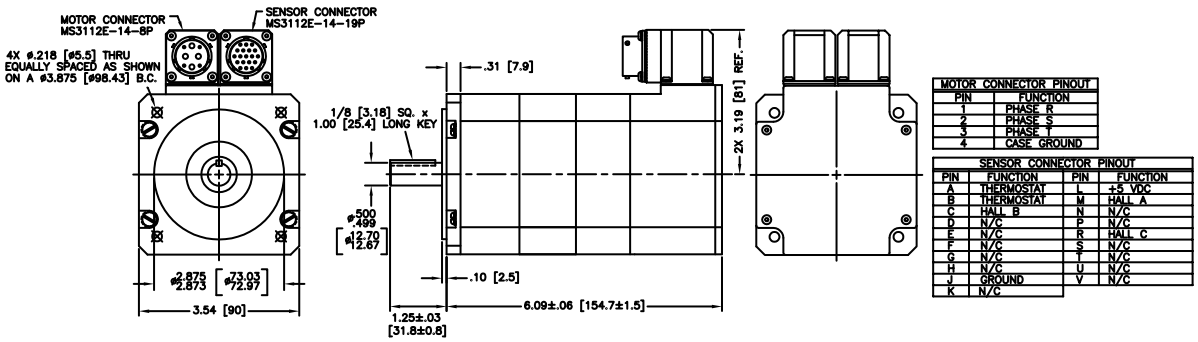
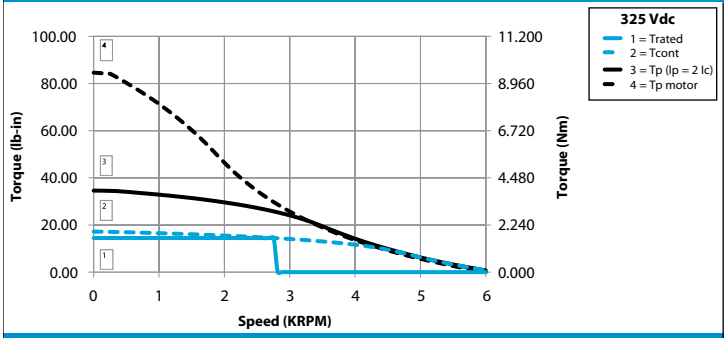


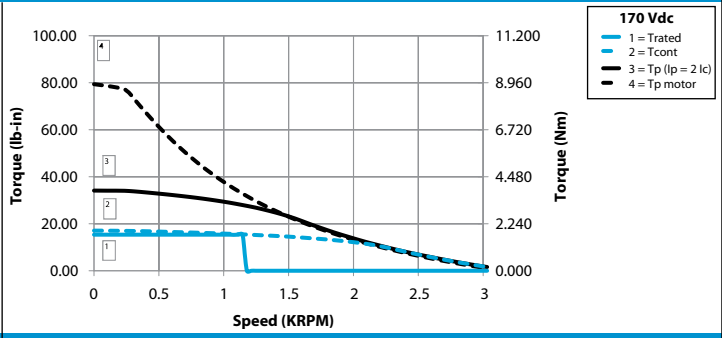
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB34003
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	16.35
	Nm	1.847
Speed @ Cont. Torque	RPM	3500
Current @ Cont. Torque	Amps (A)	4.30
Continuous Output Power	Watts (W)	560.57
Motor Constant	lb-in/sqrt W	1.69
	Nm/sqrt W	0.19
Torque Constant	lb-in/A	4.395
	Nm/A	0.497
Voltage Constant	V/krpm	52.00
	V/rad/s	0.497
Terminal Resistance	Ohms	6.77
Inductance	mH	17.35
Max. Speed	RPM	6000
Peak Current	Amps (A)	21.48
Peak Torque	lb-in	83.76
	Nm	9.464
Thermal Time Constant	min	0.00
Thermal Resistance	Celsius/W	0.64
Max. Winding Temperature	Celsius	155
Rotor Inertia	lb-in-sec2	.001
	kg-m2	1.13E-4
Weight	Lbs	7.86
	Kg	3.6

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 12.0" x 12.0" x 0.50".

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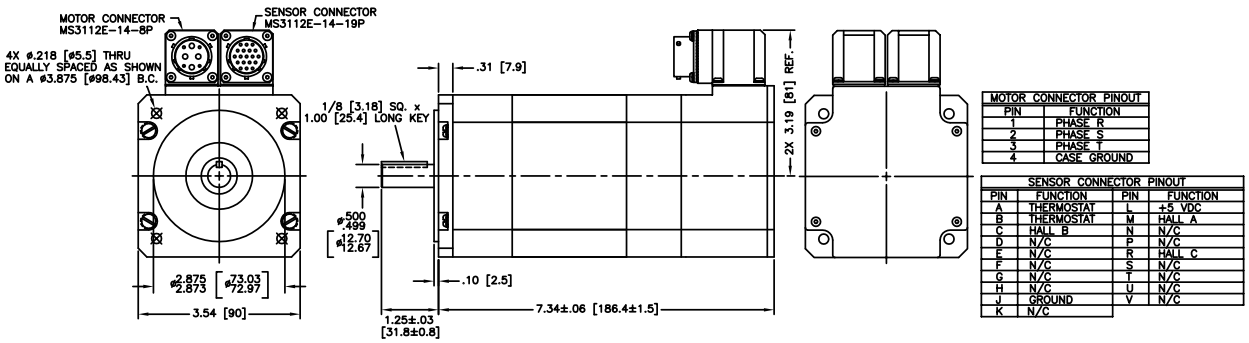


MOTOR CONNECTOR PINOUT

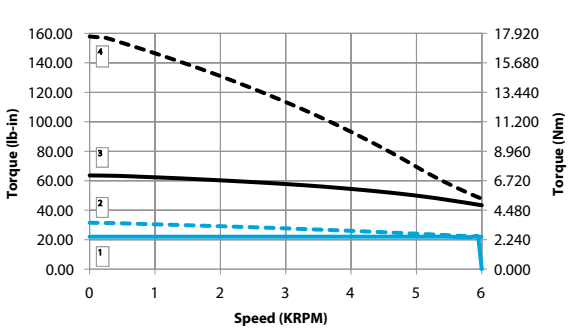
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

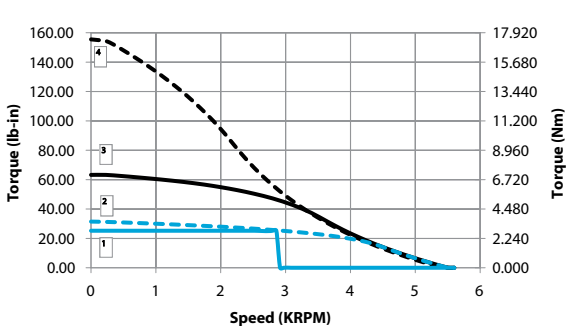
SENSOR CONNECTOR PINOUT

PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB34001
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	30.00
	Nm	3.39
Speed @ Cont. Torque	RPM	6000
Current @ Cont. Torque	Amps (A)	12.84
Continuous Output Power	Watts (W)	986
Motor Constant	lb-in/sqrt W	2.80
	Nm/sqrt W	0.32
Torque Constant	lb-in/A	2.535
	Nm/A	0.286
Voltage Constant	V/krpm	30.00
	V/rad/s	0.286
Terminal Resistance	Ohms	0.82
Inductance	mH	2.63
Max. Speed	RPM	6000
No-Load Speed	RPM	6000
Peak Current	Amps (A)	64.18
Peak Torque	lb-in	150.53
	Nm	17.008
Thermal Time Constant	min	0.00
Thermal Resistance	Celsius/W	0.64
Max. Winding Temperature	Celsius	155
Rotor Inertia	lb-in-sec2	1.81E-3
	kg-m2	2.05E-4
Weight	Lbs	11.00
	Kg	5

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 12.0″ x 12.0″ x 0.50″.

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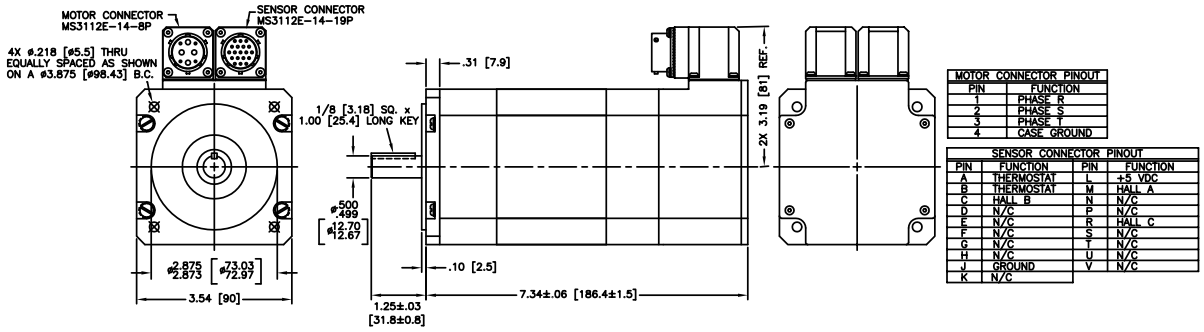


MOTOR CONNECTOR PINOUT

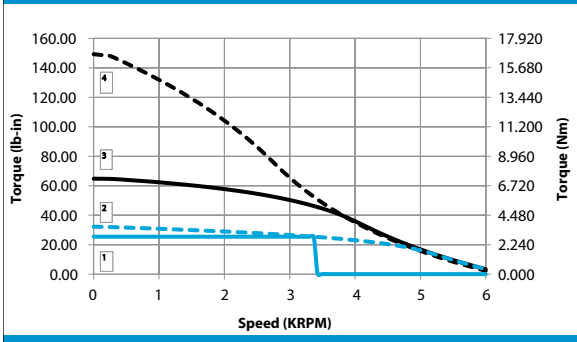
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

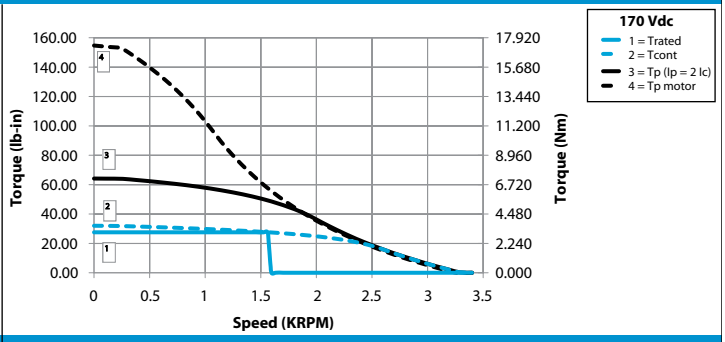
SENSOR CONNECTOR PINOUT

PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB34004
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	30.00
	Nm	3.39
Speed @ Cont. Torque	RPM	3700
Current @ Cont. Torque	Amps (A)	7.71
Continuous Output Power	Watts (W)	894
Motor Constant	lb-in/sqrt W	2.93
	Nm/sqrt W	0.33
Torque Constant	lb-in/A	4.282
	Nm/A	0.484
Voltage Constant	V/krpm	50.67
	V/rad/s	0.484
Terminal Resistance	Ohms	2.14
Inductance	mH	7.32
Max. Speed	RPM	6000
Peak Current	Amps (A)	38.57
Peak Torque	lb-in	149.24
	Nm	16.862
Thermal Time Constant	min	0.00
Thermal Resistance	Celsius/W	0.66
Max. Winding Temperature	Celsius	155
Rotor Inertia	lb-in-sec2	.0018
	kg-m2	2.03E-4
Weight	Lbs	11.00
	Kg	5

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 12.0" x 12.0" x 0.50".

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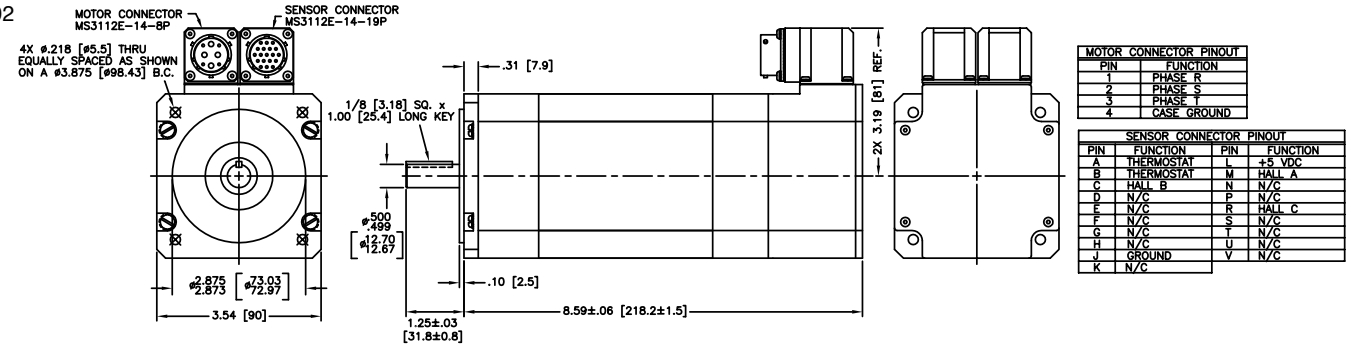
AB34002

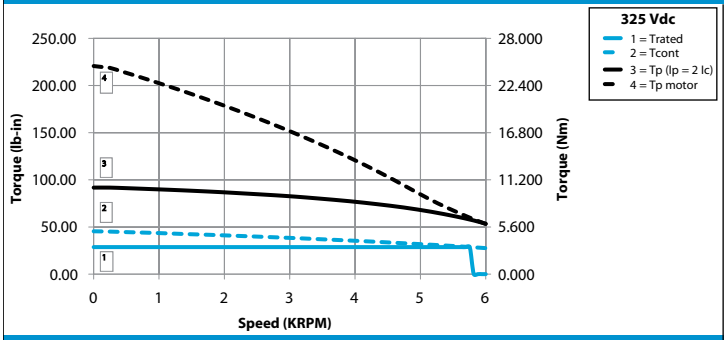


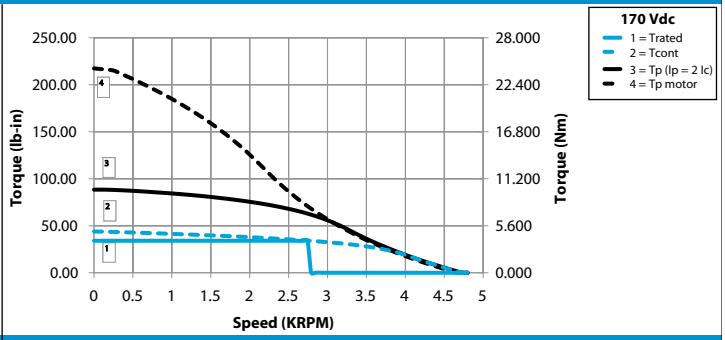
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

		Part/Model Number
Specification	**Units**	**AB34002**
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	44.00
	Nm	4.971
Speed @ Cont. Torque	RPM	4900
Current @ Cont. Torque	Amps (A)	16.13
Continuous Output Power	Watts (W)	1197
Motor Constant	lb-in/sqrt W	3.99
	Nm/sqrt W	0.45
Torque Constant	lb-in/A	2.958
	Nm/A	0.334
Voltage Constant	V/krpm	35.00
	V/rad/s	0.334
Terminal Resistance	Ohms	0.55
Inductance	mH	2.18
Max. Speed	RPM	6000
Peak Current	Amps (A)	80.65
Peak Torque	lb-in	220.62
	Nm	24.927
Thermal Time Constant	min	0.00
Thermal Resistance	Celsius/W	0.60
Max. Winding Temperature	Celsius	155
Rotor Inertia	lb-in-sec2	.00262
	kg-m2	2.96E-4
Weight	Lbs	14.22
	Kg	6.5

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 12.0" x 12.0" x 0.50".

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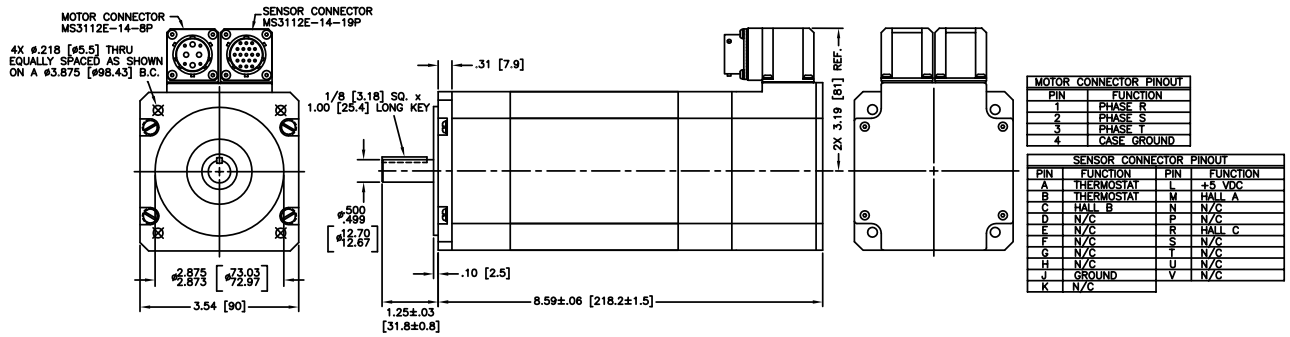
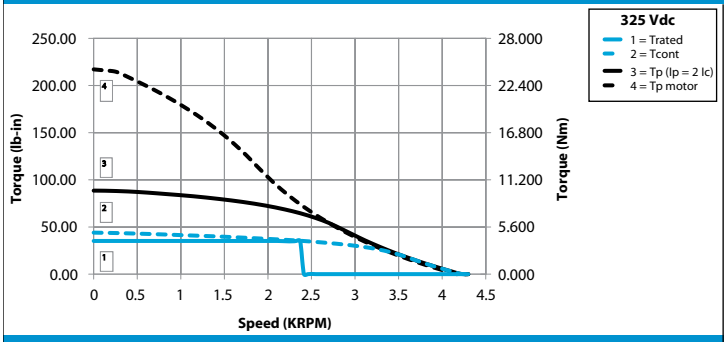


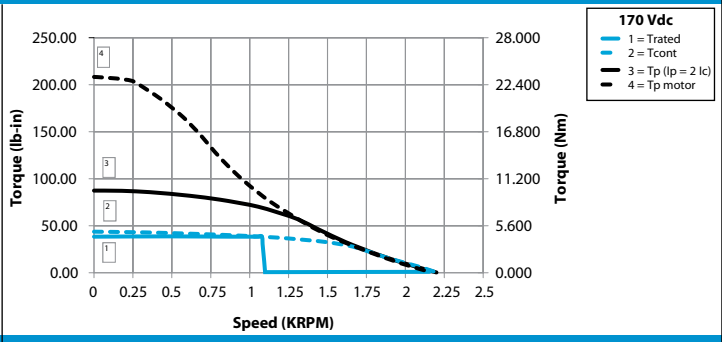
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
1	PHASE R
2	PHASE S
3	PHASE T
4	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB34005
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	44.00
	Nm	4.971
Speed @ Cont. Torque	RPM	2500
Current @ Cont. Torque	Amps (A)	7.55
Continuous Output Power	Watts (W)	966
Motor Constant	lb-in/sqrt W	3.95
	Nm/sqrt W	0.45
Torque Constant	lb-in/A	6.423
	Nm/A	0.726
Voltage Constant	V/krpm	76.00
	V/rad/s	0.726
Terminal Resistance	Ohms	2.64
Inductance	mH	10.04
Max. Speed	RPM	6000
Peak Current	Amps (A)	37.75
Peak Torque	lb-in	217.14
	Nm	24.534
Thermal Time Constant	min	0.00
Thermal Resistance	Celsius/W	0.57
Max. Winding Temperature	Celsius	155
Rotor Inertia	lb-in-sec2	.00262
	kg-m2	2.96E-4
Weight	Lbs	14.22
	Kg	6.5

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Brakes
- Cables

Notes

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2. Aluminum Heat-sink: 12.0" x 12.0" x 0.50".

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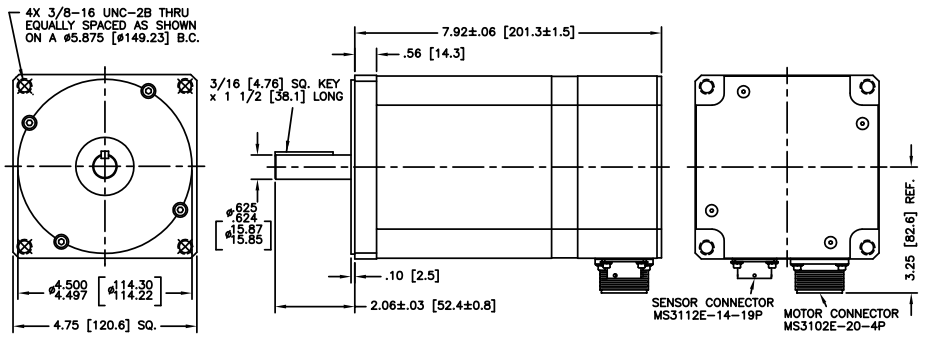
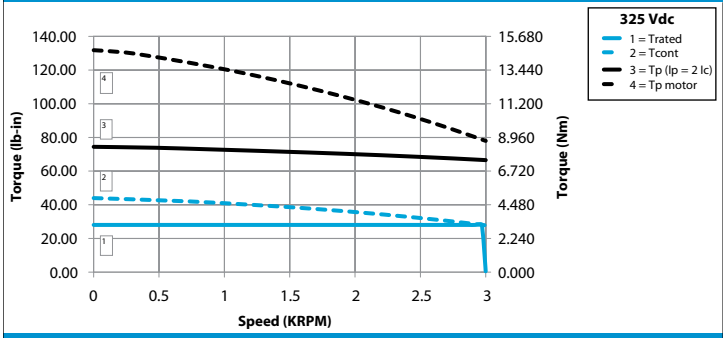


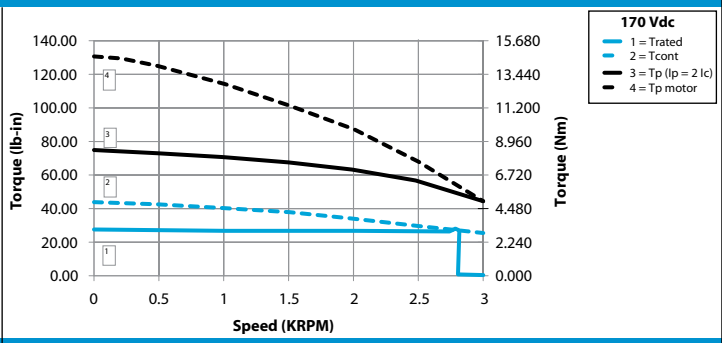
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
A	PHASE R
B	PHASE S
C	PHASE T
D	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

		Part/Model Number
Specification	**Units**	**AB48000**
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	43.13
	Nm	4.873
Speed @ Cont. Torque	RPM	3000
Current @ Cont. Torque	Amps (A)	15.43
Continuous Output Power	Watts (W)	1254.67
Motor Constant	lb-in/sqrt W	4.76
	Nm/sqrt W	0.54
Torque Constant	lb-in/A	3.296
	Nm/A	0.372
Voltage Constant	V/krpm	39.00
	V/rad/s	0.372
Terminal Resistance	Ohms	0.48
Inductance	mH	2.41
Max. Speed	RPM	3000
Peak Current	Amps (A)	46.30
Peak Torque	lb-in	131.78
	Nm	14.889
Thermal Time Constant	min	0.00
Thermal Resistance	Celsius/W	0.66
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	.0034
	kg-m2	3.84E-4
Weight	Lbs	16.58
	Kg	7.5

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 18.0" x 18.0" x 0.50".

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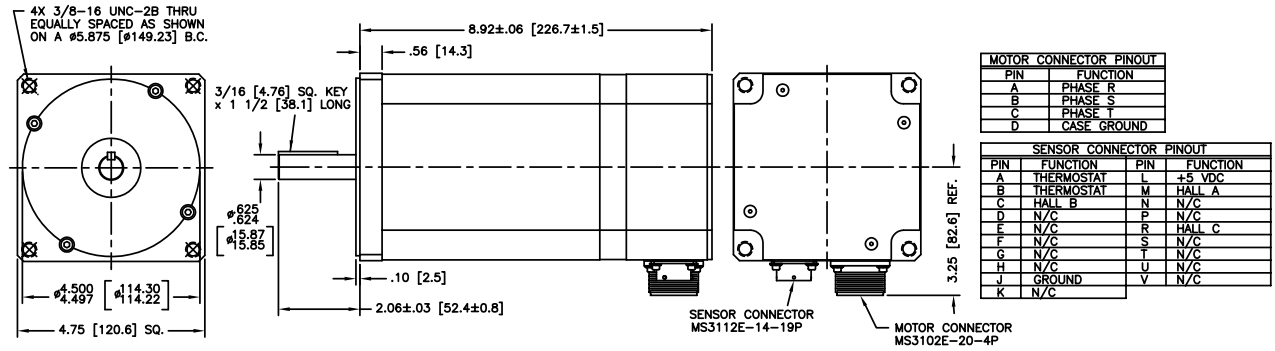
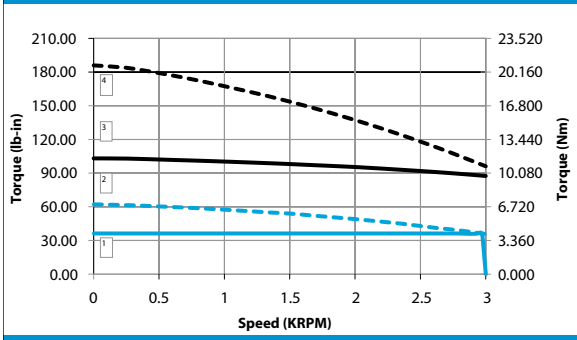


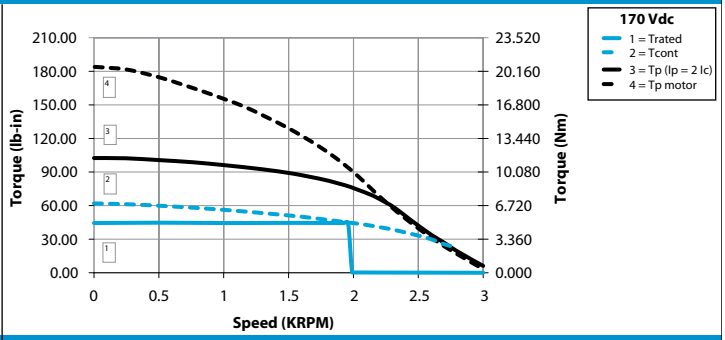
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
A	PHASE R
B	PHASE S
C	PHASE T
D	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

		Part/Model Number
Specification	**Units**	**AB48001**
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	74.17
	Nm	8.38
Speed @ Cont. Torque	RPM	3000
Current @ Cont. Torque	Amps (A)	14.67
Continuous Output Power	Watts (W)	2059.22
Motor Constant	lb-in/sqrt W	6.59
	Nm/sqrt W	0.74
Torque Constant	lb-in/A	4.563
	Nm/A	0.516
Voltage Constant	V/krpm	54.00
	V/rad/s	0.516
Terminal Resistance	Ohms	.48
Inductance	mH	2.85
Max. Speed	RPM	3000
Peak Current	Amps (A)	44.00
Peak Torque	lb-in	186.00
	Nm	21.015
Thermal Time Constant	min	0.00
Thermal Resistance	Celsius/W	.52
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	.005
	kg-m2	5.65E-4
Weight	Lbs	22.00
	Kg	10

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoder
- Cables

Notes

1. Test conditions: Motor operated at rated winding temperature, mounted to an aluminum heat-sink.
2. Aluminum Heat-sink: 18.0" x 18.0" x 0.50".

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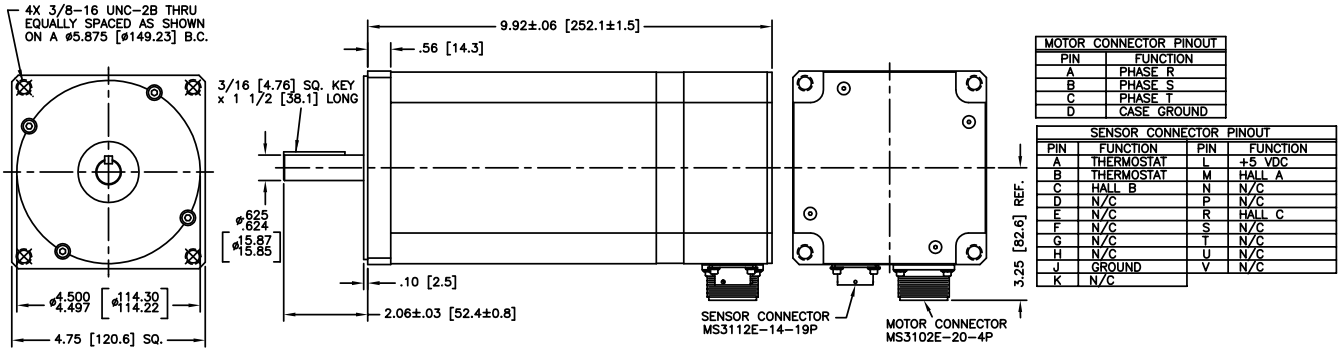
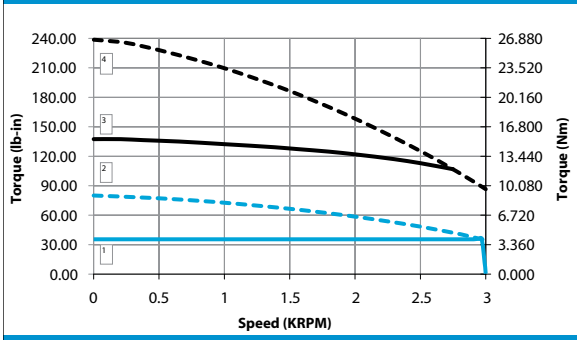


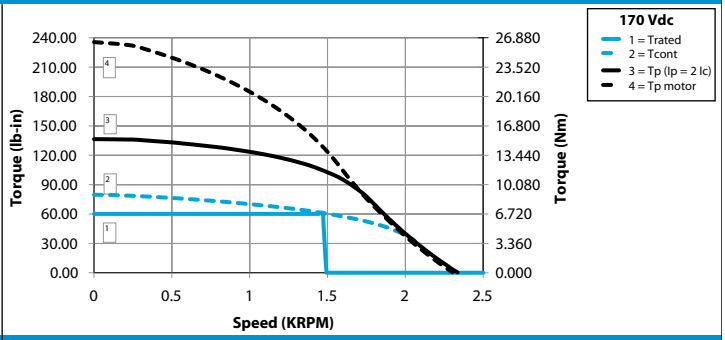
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
A	PHASE R
B	PHASE S
C	PHASE T
D	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

Specification	Units	Part/Model Number AB48002
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	92.37
	Nm	10.436
Speed @ Cont. Torque	RPM	3000
Current @ Cont. Torque	Amps (A)	15
Continuous Output Power	Watts (W)	1260
Motor Constant	lb-in/sqrt W	8.28
	Nm/sqrt W	0.94
Torque Constant	lb-in/A	6.085
	Nm/A	0.688
Voltage Constant	V/krpm	72.00
	V/rad/s	0.688
Terminal Resistance	Ohms	.54
Inductance	mH	3.64
Max. Speed	RPM	3000
Peak Current	Amps (A)	45.49
Peak Torque	lb-in	238.62
	Nm	26.96
Thermal Time Constant	min	0.00
Thermal Resistance	Celsius/W	.58
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	.007
	kg-m2	7.91E-4
Weight	Lbs	25.20
	Kg	11.4

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Cables

Notes

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2. Aluminum Heat-sink: 18.0" x 18.0" x 0.50".

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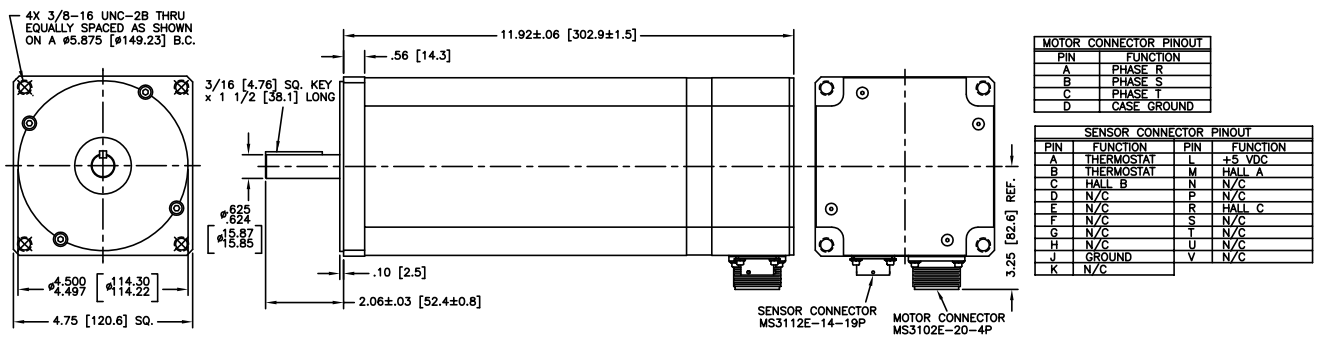
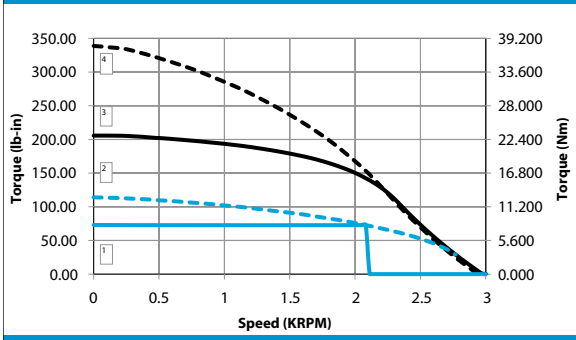


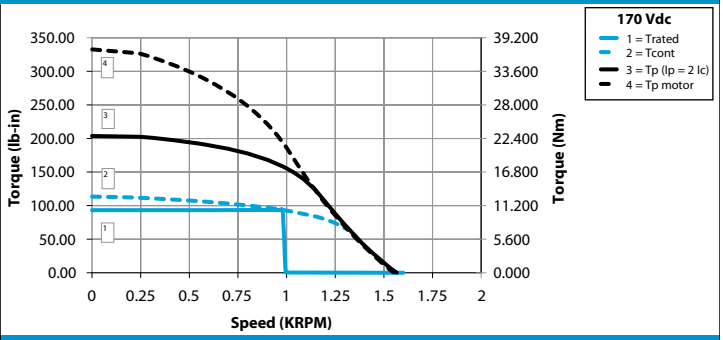
MOTOR CONNECTOR PINOUT	
PIN	FUNCTION
A	PHASE R
B	PHASE S
C	PHASE T
D	CASE GROUND

SENSOR CONNECTOR PINOUT			
PIN	FUNCTION	PIN	FUNCTION
A	THERMOSTAT	L	+5 VDC
B	THERMOSTAT	M	HALL A
C	HALL B	N	N/C
D	N/C	P	N/C
E	N/C	R	HALL C
F	N/C	S	N/C
G	N/C	T	N/C
H	N/C	U	N/C
J	GROUND	V	N/C
K	N/C		

		Part/Model Number
Specification	**Units**	**AB48003**
Supply Voltage	VDC	325
Continuous Stall Torque	lb-in	133.37
	Nm	15.069
Speed @ Cont. Torque	RPM	2100
Current @ Cont. Torque	Amps (A)	14.39
Continuous Output Power	Watts (W)	2535.89
Motor Constant	lb-in/sqrt W	10.76
	Nm/sqrt W	1.22
Torque Constant	lb-in/A	9.127
	Nm/A	1.031
Voltage Constant	V/krpm	108.00
	V/rad/s	1.031
Terminal Resistance	Ohms	.72
Inductance	mH	5.23
Max. Speed	RPM	3000
Peak Current	Amps (A)	43.18
Peak Torque	lb-in	338.65
	Nm	38.262
Thermal Time Constant	min	0.00
Thermal Resistance	Celsius/W	.48
Max. Winding Temperature	Celsius	125
Rotor Inertia	lb-in-sec2	.01
	kg-m2	0.00113
Weight	Lbs	33.68
	Kg	15.3

Motor Performance





Standard Features

- Medium to High Ke to Accomodate Various Bus Voltages
- Hall Sensor Feedback (120° elec.)
- IP65 Rated
- High Voltage Rating
- High Torque to Weight Ratio

Complementary Products

- Encoders
- Cables

Notes

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2. Aluminum Heat-sink: 18.0" x 18.0" x 0.50".

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