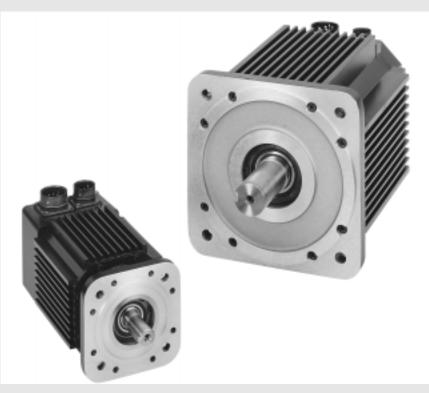
1326AS Series 460V, Low Inertia, Brushless Servo Motors



Product Data



This publication provides product information for the 0.49 to 49.3 N-m (4.33 to 436 lb-in.) 1326AS Series 460V, Low Inertia, Brushless Servo Motors. This publication includes:

- Detailed lists of the features and options available for 1326AS Series 460V, Low Inertia, Brushless Servo Motors
- Tables that show how to determine the catalog numbers for the motors and options you need
- Performance data and speed-torque curves for the entire 1326AS Series servo motor family
- Servo motor dimensions
- Details on holding brakes, shaft oil seal kits and junction boxes

Servo Motor Description

The 1326AS Series rare earth servo motors feature neodymium-iron-boron permanent magnet rotors that provide low inertias, high accelerations and high peak torques. These compact, environmentally-rugged, brushless, 460V servo motors are intended to be used with the Allen-Bradley 1394 Motion Control System. Each 1326AS Series servo motor features:

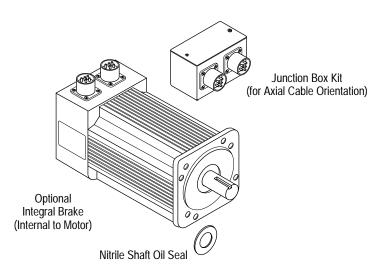
- An economical, compact design that can function in harsh environments.
- Neodymium-iron-boron magnet rotors that provide a high torque-to-inertia rating for faster light machinery acceleration.
- A three-phase, sinusoidally wound stator field for smooth operation at slow speeds.
- TENV construction. IP65 is standard.
- An extruded aluminum housing for improved heat transfer.
- A UL Listed insulation system (file #E149700).
- A CEI/IEC 72-1: 1991 metric flange mount with metric shafts.
- A normally closed thermal switch in the motor winding (maximum current rating of 2.5A at 250V AC) for thermal overload indication.
- A rugged, 2-pole brushless resolver that provides accurate position feedback, eliminates the need for on-board electronics and can withstand harsh shock, high operating temperatures and vibration. Resolver feedback generates 1024 ppr (4096 counts/rev) A Quad B encoder output.
- IP65 rated, quick release (bayonet release) connectors for easy installation and maintenance. IP67 is an option.
- The ability to be vertically mounted at any angle with the shaft up or down.
- Precision balance of 0.0127 mm (0.0005 in.) total peak-to-peak displacement.

Servo Motor Options

Options available for the 1326AS Series include (the option code or catalog number is in parenthesis):

- Integral spring-set holding brakes with 24V DC coils (-K3, -K4, -K6, and -K8).
- Shaft Oil Seal Kits for installing a Nitrile shaft seal in the field. Motor disassembly is not required. When the shaft seal is installed, the motor is dust tight, able to withstand pulsating water jets and meets the IP65 requirements of the IEC 529 standard.
- A field insatiable Junction Box Kit (1326AS-RJxx) that allows the existing motor connectors to be mounted axially (rather the radially) without further wiring is available with either front or rear exit connections.
- Right-angle connector cables (1326-xxx-RA-xxx, -RAL-xxx, -RB-xxx, and -RBL-xxx). Refer to the 1326 Cables for 460V AC Servo Motors Product Data (publication 1326A-2.11) for cable options.

Figure 1 1326AS Series Servo Motor Options



Servo Motor Cables

Servo motor cable information can be found at the end of this publication and in the 1326 Cables for 460V AC Servo Motors Product Data (publication 1326A-2.11).

Motor Mounting Bolt Specifications

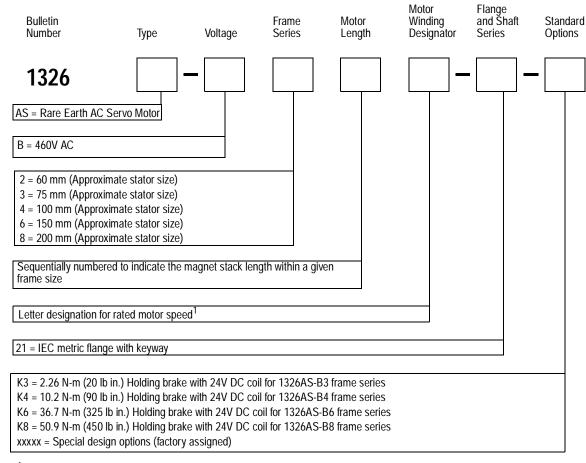
Refer to the following table to determine the correct bolt type to use with your motor.

| Motor | Bolt Size | Pitch | Flange Thickness | Screw Length | Torque |
|---------------|-----------|---------------------|---------------------|-------------------|----------------------------------|
| B2 <i>xxx</i> | M5 | 0.8 mm (0.031 in.) | 12.3 mm (0.484 in.) | 20 mm (0.787 in.) | 3.36-6.72 N-m (30-60 inlb) |
| B3 <i>xxx</i> | M6 | 1.00 mm (0.039 in.) | 10.9 mm (0.429 in.) | 20 mm (0.787 in.) | 20.16-24.19 N-m (180-216 inlb) |
| B4 <i>xxx</i> | M8 | 1.25 mm (0.049 in.) | 11.2 mm (0.440 in.) | 25 mm (0.984 in.) | 37.63-47.04 N-m (336-420 inlb) |
| B6 <i>xxx</i> | M12 | 1.75 mm (0.068 in.) | 21.0 mm (0.826 in.) | 40 mm (1.57 in.) | 107.52-134.4 N-m (960-1200 inlb) |
| B8 <i>xxx</i> | M12 | 1.75 mm (0.068 in.) | 22.4 mm (0.881 in.) | 40 mm (1.57 in.) | 107.52-134.4 N-m (960-1200 inlb) |

Determining Catalog Numbers

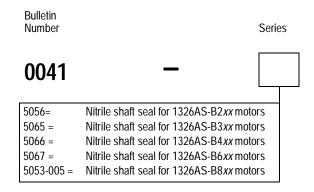
1326AS Series catalog numbers are made of various components. Each character of the catalog number identifies a specific version or option for that component. Use the selection tables below to assemble the catalog numbers for the motors and options you need.

1326AS Series Servo Motor

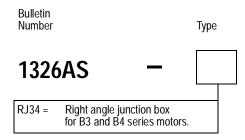


¹ See the table in the Servo Motor Performance Data section for the rated speeds of the entire 1326AS Series family of motors.

1326 Shaft Oil Seal Kit for 1326AS Motors



Motor Junction Box Kit¹ for 1326AS Motors



The motor comes standard with IP65 plug style connectors mounted radially to the motor. This kit allows the connectors to be brought out axially to the motor without further wiring. Kit includes a motor junction box and mounting hardware.

Servo Motor Performance Data

This section contains 1326AS performance data. Included is a selection list detailing the performance data of selected amplifier/motor combinations, general speed-torque curve definitions and typical speed-torque curves.

| Motor Catalog Number ¹ | Rated rpm | Speed | Motor Rated | Motor Rated | Rotor Inertia | System Continuous | System Peak Stall Torque | System Continuous | System Peak Stall | 1394 Axis |
|--------------------------------------|-----------|-------|------------------------|----------------|---|-------------------------|-----------------------------|--------------------------|----------------------|--------------|
| | 460V | 380V | Torque N-m (lb-in.) | Output kW | kg-m ² (lb-ins ²) | Torque N-m (lb-in.) | N-m (lb-in.) | Stall Current Amperes | Current Amperes | Module |
| 1326AS-B220H | 5500 | 5000 | 0.49 (4.3) | 0.17 | 0.00003 (0.0003) | 0.49 (4.3) | 1.24 (11.0) | 0.57 | 1.7 | AM03 |
| 1326AS-B310H | 6200 | 5120 | 0.7 (6.1) | 0.3 | 0.000045 (0.0004) | 0.7 (6.1) | 2.1 (18) | 0.8 | 2.4 | AM03 |
| 1326AS-B330H | 6500 | 5370 | 2.0 (18.0) | 0.9 | 0.00009 (0.0008) | 2.1 (18) | 5.6 (50) | 2.1 | 6.0 | AM03 AM04 |
| 1326AS-B420G | 5250 | 4340 | 3.2 (28.0) | 1.2 | 0.0003 | 3.2 (28) | 7.3 (65) ³ | 2.6 | 6.0 ³ | AM03 |
| | | | | | (0.0027) | | 9.6 (84) | | 7.8 | AM04 |
| | | | | | | | | | | AM07 |
| 1326AS-B440G | 5250 | 4340 | 6.4 (56.0) | 2.0 | 0.0005 | 5.3 (47) ² | 10.5 (93) ³ | 4.5 ² | 9.03 | AM04 |
| | | | | | (0.0046) | 6.4 (56) | 17.6 (156) | 5.4 | 15.0 | AM07 |
| | | | | | | | 19.0 (168) | | 16.2 | AM50 |
| 1326AS-B460F | 4300 | 3550 | 9.0 (80.0) | 2.8 | 0.00075 | 6.6 (58) ² | 13.1 (116) ³ | 4.5 ² | 9.03 | AM04 |
| | | | | | (0.0066) | 9.0 (80) | 21.9 (194) | 6.2 | 15.0 | AM07 |
| | | | | | | | 27.1 (240) | | 18.6 | AM50 |
| 1326AS-B630F | 4500 | 3720 | 10.7 (95.0) | 2.4 | 0.0014 | 10.3 (91) ² | 20.6 (182) ³ | 7.5 ² | 15.0 ³ | AM07 |
| | | | | | (0.012) | 10.7 (95) | 25.4 (225) | 7.8 | 18.5 | AM50 |
| 1326AS-B660E | 3000 | 2480 | 21.5 (190) | 3.4 | 0.0025 | 13.7 (121) ² | 27.3 (242) ³ | 7.5 ² | 15.0 ³ | AM07 |
| | | | | | (0.022) | 21.5 (190) | 54.2 (480) | 11.8 | 29.8 | AM50 |
| | | | | | | | 54.2 (480) | | 29.8 | AM75 |
| 1326AS-B690E | 3000 | 2480 | 36.4 (322) | 5.0 | 0.0036 | 36.4 (322) | 63.6 (563) ³ | 19.0 | 33.2 ³ | AM50 |
| | | | | | (0.032) | | 79.1 (700) | | 41.3 | AM75 |
| 1326AS-B840E | 3000 | 2480 | 37.6 (333) | 4.7 | 0.0063 | 37.6 (333) | 59.0 (522) ³ | 21.2 | 33.2 ³ | AM50 |
| | | | | | (0.056) | | 70.0 (620) | | 39.5 | AM75 |
| 1326AS-B860C | 2000 | 1650 | 49.3 (436) | 6.0 | 0.0094 | 49.3 (436) | 93.0 (823) ³ | 17.6 | 33.2 ³ | AM50 |
| | | | | | (0.083) | | 124.0 (1100) | | 44.4 | AM75 |

All ratings are for 40° C (104° F) motor ambient, 100° C (212° F) case and 50° C (122° F) amplifier ambient. For extended ratings at lower ambient temperatures, contact Allen-Bradley.

² Limited by the axis module continuous current.

³ Limited by axis module peak current.

General Speed-Torque Curve Definitions

The typical speed-torque curves show the operational envelope of different 1326AS Series/1394 combinations. General definitions for the 1326AS Series servo motors are given starting below.

Rated Speed - The operating speed of the drive and motor combination at which approximately 70% of continuous rated torque (To) can be developed. This point is defined with the motor at 25° C (77° F).

Rated Operation Area - The boundary of the speed-torque curve where the motor and controller combination may operate on a servo basis without exceeding the RMS rating of either.

Intermittent Operation Area - The boundary of the speed-torque curve where the motor and controller combination may operate in acceleration/deceleration mode without exceeding peak rating of either, provided that the duty cycle RMS continuous torque limit is not exceeded.

RMSTorque =
$$\sqrt{\frac{(Tpa^2)(t_1) + (Tss^2)(t_2) + (Tpd^2)(t_3) + (Tr^2)(t_4)}{t_1 + t_2 + t_3 + t_4}}$$

Continuous Current - The rated current of a motor with windings at a rated temperature and an ambient temperature of 40° C (104° F).

Peak Current - The amount of current that can be applied to the motor without causing damage to the motor.

Mechanical Time Constant - The time required for the motor to reach 63% of its final speed when a step voltage is applied.

Electrical Time Constant - The time required for the motor to reach 63% of its rated current.

Max. Ambient Temperature - The maximum environmental temperature in which the motor can be operated at rated loads without exceeding its insulation-type temperature rise limits.

Insulation Class - The designation of the operating temperature limits for motor insulation materials.

Thermal Time Constant - The time required for the motor windings to reach 63% of continuous temperature rise with constant watts loss.

Torque Constant - The amount of torque developed for one ampere of motor current at the stated motor temperature.

Voltage Constant - The value of the generated voltage at a specified speed when the rotor is moved mechanically in the magnetic field.

Terminal Resistance - The winding resistance.

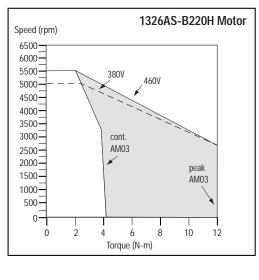
Inductance - The winding inductance measured by a step input of zero impedance voltage applied to the locked rotor.

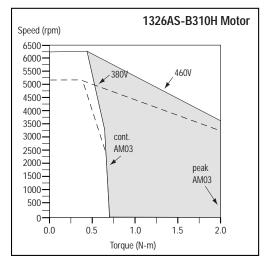
Rotor Polar Moment of Inertia - The moment of inertia about the axis of rotation.

Motor Weight - The weight of the complete motor (including brake, if supplied) less the weight of options.

Balance - The compensation of rotor weight distribution to reduce vibrational resonance. Motors are factory balanced under running speeds.

Figure 2 1326AS-B220H and 1326AS-B310H Speed-Torque Curves





Intermittent Operation Rated Operation Rated speed at 380V

Important: The Servo Motor Performance Data section provides system ratings for specific motor/amplifier combinations.

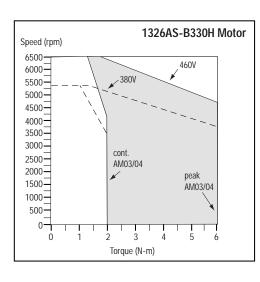
The motor was tested at a line voltage of 460V AC, in an environment where the ambient temperature was 40° C (104° F). The case temperature was approximately 100° C (212° F) with the motor windings at an 85° C (185° F) rise over ambient. Torque ratings were determined when the motor was mounted to a 304.8 mm x 304.8 mm x 25.4 mm (12 in. x 12 in. x 1 in.) steel mounting bracket. The motor contains a normally closed thermal switch that opens when the internal motor temperature reaches 140° C (284° F) \pm 5° C (\pm 9° F). The thermal switch has a maximum current rating of 2.5A at 250V AC. All values shown below have a tolerance of \pm 10%.

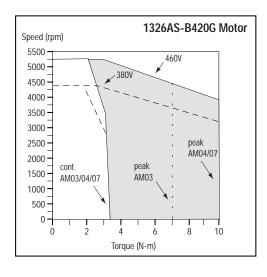
| Category | Parameter | Ambient Temperature | Units | 1326AS-B220H | 1326AS-B310H |
|------------|------------------------------------|-----------------------------|--|-------------------|-------------------|
| General | Continuous Stall Torque - AM03/04 | at 40° C (104° F) | N-m (lb-in.) | 0.49 (4.3)/NA | 0.7 (6)/NA |
| | Rated Output | | kW | 0.17 | 0.3 |
| | Peak Stall Torque - AM03/04 | at 40° C (104° F) | N-m (lb-in.) | 1.24 (11.)/NA | 2.1 (18)/NA |
| | Continuous Stall Current - AM03/04 | at 40° C (104° F) | amperes | 0.57/NA | 0.8/NA |
| | Peak Stall Current - AM03/04 | at 40° C (104° F) | amperes | 1.7/NA | 2.4/NA |
| | Mechanical Time Constant | at 40° C (104° F) | milliseconds | 5.2 | 3.3 |
| | Electrical Time Constant | at 40° C (104° F) | milliseconds | 0.91 | 1.4 |
| | Rated Speed - 460V/380V | at 40° C (104° F) | rpm | 5500/5000 | 6200/5120 |
| Thermal | Maximum Ambient Temperature (with | out derating) | degrees C | 40 | 40 |
| | Insulation Class | | | В | В |
| | Thermal Time Constant | | minutes | 11 | 11 |
| Winding | Torque Constant | at 25° C (77° F) | N-m (lb-in.)/A | 1.04 (9.2) | 1.04 (9.2) |
| | Voltage Constant | RMS (L-L) at 25° C (77° F) | volts/1000 rpm | 63 | 63 |
| | Terminal Resistance | ohms (L-L) at 25° C (77° F) | ohms | 110 | 52.4 |
| | Inductance | mH (L-L) at 25° C (77° F) | millihenry | 100 | 72.0 |
| Mechanical | Rotor Polar Moment of Inertia | | kg-m ² (lb-ins ²) | 0.000033 (0.0003) | 0.000045 (0.0004) |
| | Motor Weight | | kg (lb) | 2.2 (4.8) | 2.8 (6.2) |
| | Balance ¹ | | mm (in.) | 0.0127 (0.0005) | 0.0127 (0.0005) |

To obtain vibration velocity in inches (mm)/second, use the following formula: Vv = Dp-p x rpm/27.01 where:

 $V_{\rm v} = {\rm Vibration}$ velocity in mm (in.)/second ${\rm D_{\rm p-p}} = {\rm Peak\text{-}peak}$ displacement in mm (in.) rpm = Motor speed

Figure 3 1326AS-B330H and 1326AS-B420G Speed-Torque Curves





Rated Operation Intermittent Operation — Rated speed at 380V

Important: The Servo Motor Performance Data section provides system ratings for specific motor/amplifier combinations.

The motor was tested at a line voltage of 460V AC, in an environment where the ambient temperature was 40° C $(104^{\circ}$ F). The case temperature was approximately 100° C $(212^{\circ}$ F) with the motor windings at an 85° C $(185^{\circ}$ F) rise over ambient. Torque ratings were determined when the motor was mounted to a 304.8 mm x 304.8 mm x 25.4 mm (12 in. x 12 in. x 11 in.) steel mounting bracket. The motor contains a normally closed thermal switch that opens when the internal motor temperature reaches 140° C $(284^{\circ}$ F) \pm 5° C $(\pm$ 9° F). The thermal switch has a maximum current rating of 2.5A at 250V AC. All values shown below have a tolerance of \pm 10%.

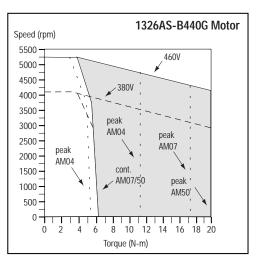
| Category | Parameter | Ambient Temperature | Units | 1326AS-B330H | 1326AS-B420G |
|------------|--|-----------------------------|--|----------------------|-------------------------------|
| General | Continuous Stall Torque - AM03/04/07 | at 40° C (104° F) | N-m (lb-in.) | 2.1 (18)/2.1 (18)/NA | 3.2 (28)/3.2 (28)/3.2 (28) |
| | Rated Output | | kW | 0.9 | 1.2 |
| | Peak Stall Torque - AM03/04/07 | at 40° C (104° F) | N-m (lb-in.) | 5.6 (50)/5.6 (50)/NA | 7.3 (65)/9.6 (84)/9.6 (84) |
| | Continuous Stall Current - AM03/04/07 | at 40° C (104° F) | amperes | 2.1/2.1/NA | 2.6/2.6/2.6 |
| | Peak Stall Current - AM03/04/07 | at 40° C (104° F) | amperes | 6.0/6.0/NA | 6.0/7.8/7.8 |
| | Mechanical Time Constant | at 40° C (104° F) | milliseconds | 1.3 | 2.0 |
| | Electrical Time Constant | at 40° C (104° F) | milliseconds | 2.4 | 3.9 |
| | Rated Speed - 460V/380V | at 40° C (104° F) | rpm | 6500/5370 | 5250/4340 |
| Thermal | Maximum Ambient Temperature (with | nout derating) | degrees C | 40 | 40 |
| | Insulation Class | | | В | В |
| | Thermal Time Constant | | minutes | 21 | 18 |
| Winding | Torque Constant | at 25° C (77° F) | N-m (lb-in.)/A | 1.04 (9.2) | 1.25 (11.1) |
| | Voltage Constant | RMS (L-L) at 25° C (77° F) | volts/1000 rpm | 63 | 76 |
| | Terminal Resistance | ohms (L-L) at 25° C (77° F) | ohms | 10.2 | 6.9 |
| | Inductance | mH (L-L) at 25° C (77° F) | millihenry | 24.0 | 27.0 |
| Mechanical | Rotor Polar Moment of Inertia | | kg-m ² (lb-ins ²) | 0.00009 (0.0008) | 0.0003 (0.0027) |
| | Motor Weight | | kg (lb) | 4.3 (9.4) | 8.1 (17.86) |
| | Balance ¹ | | mm (in.) | 0.0127 (0.0005) | 0.0127 (0.0005) |

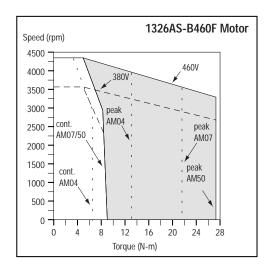
To obtain vibration velocity in inches (mm)/second, use the following formula: Vv = Dp-p x rpm/27.01

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where: $V_v = \text{Vibration velocity in mm (in.)/second}$ $D_{p-p} = \text{Peak-peak displacement in mm (in.)}$ rpm = Motor speed

Figure 4 1326AS-B440G and 1326AS-B460F Speed-Torque Curves





Rated Operation Intermittent Operation Rated speed at 380V

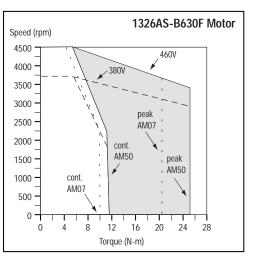
Important: The Servo Motor Performance Data section provides system ratings for specific motor/amplifier combinations.

The motor was tested at a line voltage of 460V AC, in an environment where the ambient temperature was 40° C (104° F). The case temperature was approximately 100° C (212° F) with the motor windings at an 85° C (185° F) rise over ambient. Torque ratings were determined when the motor was mounted to a 304.8 mm x 304.8 mm x 25.4 mm (12 in. x 12 in. x 1 in.) steel mounting bracket. The motor contains a normally closed thermal switch that opens when the internal motor temperature reaches 140° C (284 °F) \pm 5° C (\pm 9° F). The thermal switch has a maximum current rating of 2.5A at 250V AC. All values shown below have a tolerance of \pm 10%.

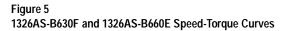
| Category | Parameter | Ambient Temperature | Units | 1326AS-B440G | 1326AS-B460F |
|------------|--------------------------------------|-----------------------------|--|------------------------------------|-------------------------------------|
| General | Continuous Stall Torque - AM04/07/50 | at 40° C (104° F) | N-m (lb-in.) | 5.3 (47)/6.4 (56)/6.4 (56) | 6.6 (58)/9.0 (80)/9.0 (80) |
| | Rated Output | | kW | 2.0 | 2.8 |
| | Peak Stall Torque - AM04/07/50 | at 40° C (104° F) | N-m (lb-in.) | 10.6 (94)/17.6 (156)/19.0 (168) | 13.1 (116)/21.9 (194)/27.1 (240) |
| | Continuous Stall Current- AM04/07/50 | at 40° C (104° F) | amperes | 4.5/5.4/5.4 | 4.5/6.2/6.2 |
| | Peak Stall Current - AM04/07/50 | at 40° C (104° F) | amperes | 9.0/15.0/16.2 | 9.0/15.0/18.6 |
| | Mechanical Time Constant | at 40° C (104° F) | milliseconds | 1.3 | 0.98 |
| | Electrical Time Constant | at 40° C (104° F) | milliseconds | 4.0 | 5.5 |
| | Rated Speed - 460V/380V | at 40° C (104° F) | rpm | 5250/4340 | 4300/3550 |
| Thermal | Maximum Ambient Temperature (without | derating) | degrees C | 40 | 40 |
| | Insulation Class | | | В | В |
| | Thermal Time Constant | | minutes | 35 | 41 |
| Winding | Torque Constant | at 25° C (77° F) | N-m (lb-in.)/A | 1.25 (11.1) | 1.58 (14.0) |
| | Voltage Constant | RMS (L-L) at 25° C (77° F) | volts/1000 rpm | 76 | 96 |
| | Terminal Resistance | ohms (L-L) at 25° C (77° F) | ohms | 2.5 | 2.2 |
| | Inductance | mH (L-L) at 25° C (77° F) | millihenry | 10.0 | 12.0 |
| Mechanical | Rotor Polar Moment of Inertia | | kg-m ² (lb-ins ²) | 0.0005 (0.0046) | 0.00075 (0.0066) |
| | Motor Weight | | kg (lb) | 11.7 (25.79) | 13.8 (30.4) |
| | Balance ¹ | | mm (in.) | 0.0127 (0.0005) | 0.0127 (0.0005) |

To obtain vibration velocity in inches (mm)/second, use the following formula: Vv = Dp-p x rpm/27.01 where: V_v = Vibration velocity in mm (in.)/second

D_{p-p} = Peak-peak displacement in mm (in.) rpm = Motor speed



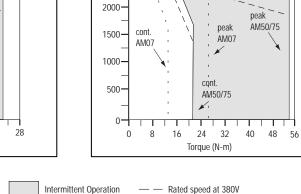
Rated Operation



Speed (rpm)

3000

2500



1326AS-B660E Motor

√ 460V

380V

Important: The Servo Motor Performance Data section provides system ratings for specific motor/amplifier combinations.

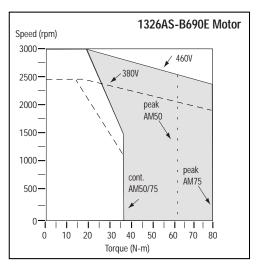
The motor was tested at a line voltage of 460V AC, in an environment where the ambient temperature was 40° C (104° F). The case temperature was approximately 100° C (212° F) with the motor windings at an 85° C (185° F) rise over ambient. Torque ratings were determined when the motor was mounted to a 304.8 mm x 304.8 mm x 25.4 mm (12 in. x 12 in. x 1 in.) steel mounting bracket. The motor contains a normally closed thermal switch that opens when the internal motor temperature reaches 140° C (284° F) ± 5° C (± 9° F). The thermal switch has a maximum current rating of 2.5A at 250V AC. All values shown below have a tolerance of \pm 10%.

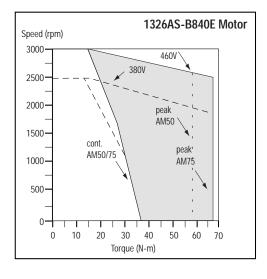
| Category | Parameter | Ambient Temperature | Units | 1326AS-B630F | 1326AS-B660E |
|------------|-------------------------------------|-----------------------------|--|---------------------------------|--------------------------------------|
| General | Continuous Stall Torque-AM07/50/75 | at 40° C (104° F) | N-m (lb-in.) | NA/10.3 (91)/ 10.7 (95)/NA | 13.7 (121)/21.5 (190)/ 21.5 (190) |
| | Rated Output | | kW | 2.4 | 3.4 |
| | Peak Stall Torque-AM07/50/75 | at 40° C (104° F) | N-m (lb-in.) | NA/20.6 (182)/ 25.4 (225)/NA | 27.3 (242)/54.2 (480)/ 54.2 (480) |
| | Continuous Stall Current AM07/50/75 | at 40° C (104° F) | amperes | NA/7.5/7.8/NA | 7.5/11.8/11.8 |
| | Peak Stall Current-AM07/50/75 | at 40° C (104° F) | amperes | NA/15.0/18.5/NA | 15.0/29.8/29.8 |
| | Mechanical Time Constant | at 40° C (104° F) | milliseconds | 0.89 | 0.65 |
| | Electrical Time Constant | at 40° C (104° F) | milliseconds | 8.7 | 11.3 |
| | Rated Speed - 460V/380V | at 40° C (104° F) | rpm | 4500/3720 | 3000/2480 |
| Thermal | Maximum Ambient Temperature (with | out derating) | degrees C | 40 | 40 |
| | Insulation Class | | | В | В |
| | Thermal Time Constant | | minutes | 50 | 60 |
| Winding | Torque Constant | at 25° C (77° F) | N-m (lb-in.)/A | 1.58 (14.0) | 2.09 (18.5) |
| | Voltage Constant | RMS (L-L) at 25° C (77° F) | volts/1000 rpm | 96 | 127 |
| | Terminal Resistance | ohms (L-L) at 25° C (77° F) | ohms | 1.1 | 0.76 |
| | Inductance | mH (L-L) at 25° C (77° F) | millihenry | 9.5 | 8.6 |
| Mechanical | Rotor Polar Moment of Inertia | | kg-m ² (lb-ins ²) | 0.0014 (0.012) | 0.0025 (0.022) |
| | Motor Weight | | kg (lb) | 18.3 (40.4) | 26.9 (59.4) |
| | Balance ¹ | | mm (in.) | 0.0178 (0.0007) | 0.0178 (0.0007) |

¹ To obtain vibration velocity in inches (mm)/second, use the following formula: Vv = Dp-p x rpm/27.01 where:

 $V_v = V$ ibration velocity in mm (in.)/second $D_{\rm p-p} = {\rm Peak-peak}$ displacement in mm (in.) rpm = Motor speed

Figure 6 1326AS-B690E and 1326AS-B840E Speed-Torque Curves





Rated Operation Intermittent Operation Rated speed at 380V

Important: The Servo Motor Performance section provides system ratings for specific motor/amplifier combinations.

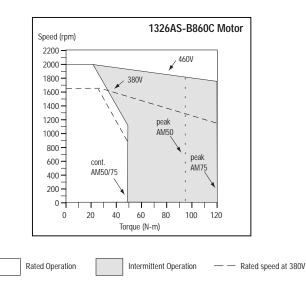
The motor was tested at a line voltage of 460V AC, in an environment where the ambient temperature was 40° C (104° F). The case temperature was approximately 100° C (212° F) with the motor was mounted to a 304.8 mm x 304.8 mm (12 in. x 1 in.) steel mounting bracket. The motor contains a normally closed thermal switch that opens when the internal motor temperature reaches 140° C (284° F) ± 5° C (± 9° F). The thermal switch has a maximum current rating of 2.5A at 250V AC. All values shown below have a tolerance of \pm 10%.

| Category | Parameter | Ambient Temperature | Units | 1326AS-B690E | 1326AS-B840E |
|------------|-----------------------------------|-----------------------------|---|-----------------------|-----------------------|
| General | Continuous Stall Torque-AM50/75 | at 40° C (104° F) | N-m (lb-in.) | 36.4 (322)/36.4 (322) | 37.6 (333)/37.6 (333) |
| | Rated Output | | kW | 5.0 | 4.7 |
| | Peak Stall Torque-AM50/75 | at 40° C (104° F) | N-m (lb-in.) | 63.6 (563)/79.1 (700) | 59.0 (522)/70.0 (620) |
| | Continuous Stall Current-AM50/75 | at 40° C (104° F) | amperes | 19.0/19.0 | 21.2/21.2 |
| | Peak Stall Current-AM50/75 | at 40° C (104° F) | amperes | 33.2/41.3 | 33.2/39.5 |
| | Mechanical Time Constant | at 40° C (104° F) | milliseconds | 0.65 | 0.85 |
| | Electrical Time Constant | at 40° C (104° F) | milliseconds | 10.4 | 20.9 |
| | Rated Speed - 460V/380V | at 40° C (104° F) | rpm | 3000/2480 | 3000/2480 |
| Thermal | Maximum Ambient Temperature (with | nout derating) | degrees C | 40 | 40 |
| | Insulation Class | | | В | В |
| | Thermal Time Constant | | minutes | 90 | 74 |
| Winding | Torque Constant | at 25° C (77° F) | N-m (lb-in.)/A | 2.16 (19.1) | 1.94 (17.2) |
| | Voltage Constant | RMS (L-L) at 25° C (77° F) | volts/1000 rpm | 131 | 118 |
| | Terminal Resistance | ohms (L-L) at 25° C (77° F) | ohms | 0.56 | 0.34 |
| | Inductance | mH (L-L) at 25° C (77° F) | millihenry | 5.8 | 7.1 |
| Mechanical | Rotor Polar Moment of Inertia | | kg-m ² (lb-ins ²) | 0.0036 (0.032) | 0.0063 (0.056) |
| | Motor Weight | | kg (lb) | 34.8 (76.8) | 46.7 (103.0) |
| | Balance ¹ | | mm (in.) | 0.0178 (0.0007) | 0.0178 (0.0007) |

To obtain vibration velocity in inches (mm)/second, use the following formula: Vv = Dp-p x rpm/27.01 where:

 $V_{\rm V}$ = Vibration velocity in mm (in.)/second ${\rm D_{p-p}}$ = Peak-peak displacement in mm (in.) rpm = Motor speed

Figure 7 1326AS-B860C Speed-Torque Curve



Important: The Servo Motor Performance Data section provides system ratings for specific motor/amplifier combinations.

The motor was tested at a line voltage of 460V AC, in an environment where the ambient temperature was 40° C (104° F). The case temperature was approximately 100° C (212° F) with the motor windings at an 85° C (185° F) rise over ambient. Torque ratings were determined when the motor was mounted to a 304.8 mm x 304.8 mm x 25.4 mm (12 in. x 12 in. x 1 in.) steel mounting bracket. The motor contains a normally closed thermal switch that opens when the internal motor temperature reaches 140° C (284° F) ± 5° C (± 9° F). The thermal switch has a maximum current rating of 2.5A at 250V AC. All values shown below have a tolerance of \pm 10%.

| Category | Parameter | Ambient Temperature | Units | 1326AS-B860C |
|------------|-----------------------------------|-----------------------------|--|-------------------------|
| General | Continuous Stall Torque-AM50/75 | at 40° C (104° F) | N-m (lb-in.) | 49.3 (436)/49.3 (436) |
| | Rated Output | | kW | 6.0 |
| | Peak Stall Torque-AM50/75 | at 40° C (104° F) | N-m (lb-in.) | 93.0 (823)/124.0 (1100) |
| | Continuous Stall Current-AM50/75 | at 40° C (104° F) | amperes | 17.6/17.6 |
| | Peak Stall Current-AM50/75 | at 40° C (104° F) | amperes | 33.2/44.4 |
| | Mechanical Time Constant | at 40° C (104° F) | milliseconds | 0.76 |
| | Electrical Time Constant | at 40° C (104° F) | milliseconds | 23.1 |
| | Rated Speed - 460V/380V | at 40° C (104° F) | rpm | 2000/1650 |
| Thermal | Maximum Ambient Temperature (with | nout derating) | degrees C | 40 |
| | Insulation Class | | | В |
| | Thermal Time Constant | | minutes | 80 |
| Winding | Torque Constant | at 25° C (77° F) | N-m (lb-in.)/A | 3.10 (27.4) |
| | Voltage Constant | RMS (L-L) at 25° C (77° F) | volts/1000 rpm | 188 |
| | Terminal Resistance | ohms (L-L) at 25° C (77° F) | ohms | 0.52 |
| | Inductance | mH (L-L) at 25° C (77° F) | millihenry | 12 |
| Mechanical | Rotor Polar Moment of Inertia | | kg-m ² (lb-ins ²) | 0.0094 (0.083) |
| | Motor Weight | | kg (lb) | 56.1 (123.6) |
| | Balance ¹ | | mm (in.) | 0.0178 (0.0007) |

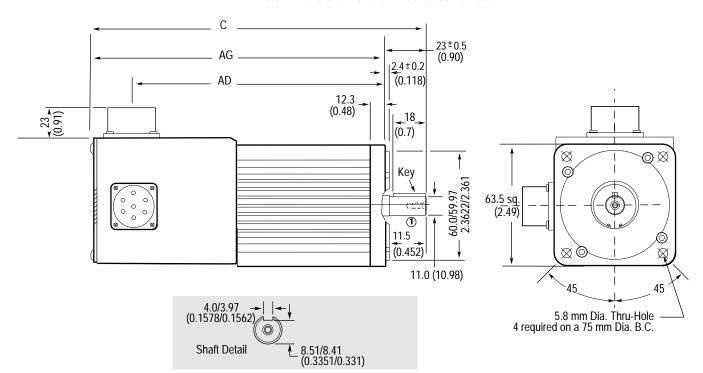
To obtain vibration velocity in inches (mm)/second, use the following formula: Vv = Dp-p x rpm/27.01 where:

 $V_{\rm v}$ = Vibration velocity in mm (in.)/second $D_{\rm p-p}$ = Peak-peak displacement in mm (in.) rpm = Motor speed

Servo Motor Dimensions

The following figures provide approximate dimensions for the 1326AS Series servo motors.

Figure 8 Motor Dimensions - 1326AS-B2 Series Servo Motor



①Shaft and Pilot Tolerances

 Shaft Runout
 0.025 (0.001) T.I.R.

 Shaft Endplay
 0.025 (0.001)

 Pilot Eccentricity
 0.08 (0.0032) T.I.R.

 Maximum Face Runout
 0.08 (0.0032) T.I.R.

Motor Name Plate



| Flange Mount in millimeters and (inches) | | | | | | |
|--|----------------------------|---------------|---------------|---------------|--------------------------------------|-----------------------------------|
| Catalog number | Description | AD | AG | С | Key | End milled keyway (full depth) |
| 1326AS-B220x | without brake ¹ | 190 (7.48) | 218 (8.58) | 241 (9.48) | 4 x 4x 18 (0.157 x 0.157 x 0.708) | 18 (0.708) |

¹ A brake is not available for the the 1326AS-B2 motor.

Dimensions are per NEMA Standards MG 7-2.4.1.3 and IEC 72-1. Shaft and pilot tolerances are per DIN 42955, N tolerance.

Shaft Detail

Commutation 30 ± 0.5 AG . Resolver Output (1.181)3 ±0.2 ΑD (0.118)Power Input 10.9 (0.429)23× (0.91) _20 (0.787) \boxtimes $\bigcirc \boxtimes$ Key 80.012/79.993 89 sq. (3.50)1 27±0.3 (1.063) \boxtimes \bigcirc 1.53 (0.060) 14.008/13.997 (0.5515/0.5511) 45 9.525/9.500 Dia. 5.00/4.97 (0.197/0.196) M4 x 0.7 Tapped hole 10 (0.39) Deep min.

11.00/10.90 (0.433/0.429)

Figure 9 Motor Dimensions - 1326AS-B3 Series Servo Motor

①Shaft and Pilot Tolerances

(0.375/0.374)

Shaft Runout 0.025 (0.001) T.I.R Shaft Endplay 0.025 (0.001) Pilot Eccentricity 0.08 (0.0032) T.I.R Maximum Face Runout 0.08 (0.0032) T.I.R



7 mm Dia. Thru-Hole 4 required on a 100 mm Dia. B.C.

| Flange Mount in millimeters and (inches) | | | | | | |
|--|----------------------------|---------------|---------------|---------------|--------------------------------------|-----------------------------------|
| Catalog number | Description | AD | AG | С | Key | End milled keyway (full depth) |
| 1326AS-B310 <i>x</i> -21 | without brake ¹ | 135 (5.32) | 165 (6.50) | 195 (7.68) | 5 x 5 x 20 (0.197 x 0.197 x 0.79) | 20 (0.79) |
| 1326AS-B330 <i>x</i> -21 | without brake ¹ | 186 (7.32) | 216 (8.50) | 246 (9.68) | 5 x 5 x 20 (0.197 x 0.197 x 0.79) | 20 (0.79) |

If you are ordering a 1326AS-B3xxx-21-K3 with an optional 24V DC 2.26 N-m (20 lb-in.) brake, add 39 mm (1.54 in.) to AD, AG and C. Dimensions are per NEMA Standards MG 7-2.4.1.3 and IEC 72-1. Shaft and pilot tolerances are per DIN 42955, N tolerance.

40±0.5 Commutation (1.575) Resolver Output AD Power Input 3 ±0.2 (0.118)**~**23**~** (0.91) 30 (1.181)0 \boxtimes Key 0 95.013/94.991 (3.741/3.740) 121 sq. (4.76) 1 0 0 37 ± 0.3 \boxtimes (1.460)0 O 1.53 (0.060) 89 Dia. 45 (0.441)(3.504)9.525/9.500Dia. (0.375/0.374) 19.009/18.996 (0.7480/0.7475) 6.00/5.97 (0.236/0.235) 10 mm Dia. Thru-Hole M6 x 1 Tapped hole 16 (0.64) Deep min. 4 required on a 115 mm Dia. B.C. 15.49/15.39 (0.610/0.606) Shaft Detail

Figure 10 Motor Dimensions - 1326AS-B4 Series Servo Motor

OShaft and Pilot Tolerances

 Shaft Runout
 0.04 (0.0016) T.I.R

 Shaft Endplay
 0.025 (0.001)

 Pilot Eccentricity
 0.08 (0.0032) T.I.R

 Maximum Face Runout
 0.08 (0.0032) T.I.R



| Flange Mount in millimeters and (inches) | | | | | | |
|--|----------------------------|----------------|----------------|----------------|--------------------------------------|-----------------------------------|
| Catalog number | Description | AD | AG | С | Key | End milled keyway (full depth) |
| 1326AS-B420 <i>x</i> -21 | without brake ¹ | 208 (8.19) | 238 (9.38) | 278 (10.95) | 6 x 6 x 30 (0.236 x 0.236 x 1.18) | 30.0 (1.18) |
| 1326AS-B440 <i>x</i> -21 | without brake ¹ | 259 (10.19) | 289 (11.38) | 329 (12.95) | 6 x 6 x 30 (0.236 x 0.236 x 1.18) | 30.0 (1.18) |
| 1326AS-B460 <i>x</i> -21 | without brake ¹ | 310 (12.19) | 340 (13.38) | 380 (14.95) | 6 x 6 x 30 (0.236 x 0.236 x 1.18) | 30.0 (1.18) |

¹ If you are ordering a 1326AS-B4xxx-21-K4 with an optional 24V DC 10.2 N-m (90 lb-in.) brake, add 46 mm (1.81 in.) to AD, AG and C. Dimensions are per NEMA Standards MG 7-2.4.1.3 and IEC 72-1. Shaft and pilot tolerances are per DIN 42955, N tolerance.

AG 60.0±0.5 AD1 AD2 23 (0.91) 18 26 72.13 (2.84) (0.7)(1.02) \boxtimes 0 (1.57)0 Key \ 190 s (7.48 1 0 0 \boxtimes 21 (0.83) 12.6924/12.6746 (0.4997/0.4990) 20.45/18.92 (0.805/0.745) 32.018/32.002 (1.261/1.260) Ø 35 (1.38) 10.00/9.96 (0.394/0.392) M8 x 1.25 Tapped hole 19 (0.75) Deep min. $\,$ 15 mm Dia. Thru-hole 4 required on a 215 mm Dia. B.C. 56±0.3 (2.20) 27.00/26.80 (1.063/1.055) Shaft Detail

Figure 11 Motor Dimensions - 1326AS-B6 Series Servo Motor

①Shaft and Pilot Tolerances

 Shaft Runout
 0.05 (0.002) T.I.R

 Shaft Endplay
 0.025 (0.001)

 Pilot Eccentricity
 0.10 (0.004) T.I.R

 Maximum Face Runout
 0.10 (0.004) T.I.R

Motor Name Plate

| XXXXXXXXXXXXXXXX | | |
|----------------------------|------------------|---------------|
| CAT. NO. XXXXXXXXX | XXXXXXXXXX | SERIES) |
| PART NO. XXXXXXXXX | XX DATE COL | DE XXXX |
| MAX. SPEED XXXX F | RPM RES. XXX | OHMS 25" |
| MAX. CONT. OUTPUT PO | OWER XXXX | KW 40° (|
| MAX. CONT. STALL TORQUE XX | XXXXXXXXXXX | Nm/LB.IN. 40° |
| MAX. CONT. RMS AMPER | RES XXXXXXX | AMPS 40'C |
| BRAKE XXXXXXXXXXXXXXXX | NOW LE XXXXXX NO | XXXXXX |
| BRAKE COIL XXXX OH | MS 25°C. XXXX | RATED 40" (|
| XXXXXXXXXXXXXXX | XXXX | |
| | 91 , E14 | 6578 c. 7 |

| Flange Mount in millimeters and (inches) | | | | | | | | |
|--|----------------------------|---------------|----------------|----------------|----------------|----------------|---------------------------------------|--------------------------------------|
| Catalog number | Description | AL | AD1 | AD2 | AG | С | Key | End milled keyway (full depth) |
| 1326AS-B630 <i>x</i> -21 | without brake ¹ | 69 (2.71) | 255 (10.03) | 231 (9.09) | 291 (11.45) | 351 (13.81) | 10 x 8 x 40 (0.394 x 0.315 x 1.57) | 40 (1.57) |
| 1326AS-B660 <i>x</i> -21 | without brake ¹ | 145 (5.71) | 331 (13.03) | 307 (12.09) | 367 (14.45) | 427 (16.81) | 10 x 8 x 40 (0.394 x 0.315 x 1.57) | 40 (1.57) |
| 1326AS-B690 <i>x</i> -21 | without brake ¹ | 221 (8.71) | 407 (16.03) | 383 (15.09) | 443 (17.45) | 503 (19.81) | 10 x 8 x 40 (0.394 x 0.315 x 1.57) | 40 (1.57) |

¹ If you are ordering a 1326AS-B6xxx-21-K6 with an optional 24V DC 36.7 N-m (325 lb-in.) brake, add 54 mm (2.13 in.) to AL, AD1, AD2, AG and C. Dimensions are per NEMA Standards MG 7-2.4.1.3 and IEC 72-1. Shaft and pilot tolerances are per DIN 42955, N tolerance. The eye bolt diameter is 30.48 mm (1.20 in) O.D. x 19.05 mm (0.75 in) I.D.

AG 85.0±0.5 (3.35)AD 4.0 ±0.2 (0.157) 25 73.15 (2.88) 23 (0.91) (0.98)(1.3) 60 (2.36)Key 🔪 241 sq (9.49) 81.0 ± 0.3 (3.19)7.7/6.2 > 0.305/0.245 \boxtimes 0.4997/0.4990 42.000/41.984 (0.882)12.692/12.675 (1.654/1.653)12.00/11.96 (0.472/0.471) M8 x 1.25 Tapped hole 20 (0.79) Deep min. 15 mm Dia. Thru-hole 4 required on a 265 mm Dia. B.C. 37.00/36.80 (1.457/1.449) Shaft Detail

Figure 12 Motor Dimensions - 1326AS-B8 Series Servo Motor

OShaft and Pilot Tolerances

 Shaft Runout
 0.05 (0.002) T.I.R

 Shaft Endplay
 0.025 (0.001)

 Pilot Eccentricity
 0.10 (0.004) T.I.R

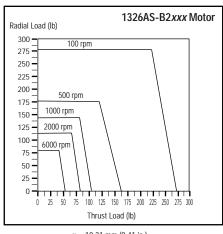
 Maximum Face Runout
 0.10 (0.004) T.I.R

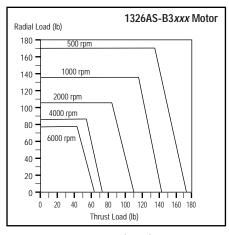


| Flange Mount in millimeters and (inches) | | | | | | | |
|--|----------------------------|---------------|----------------|----------------|----------------|---------------------------------------|--------------------------------------|
| Catalog number | Description | AL | AD | AG | С | Key | End milled keyway (full depth) |
| 1326AS-B840 <i>x</i> -21 | without brake ¹ | 131 (5.15) | 308 (12.13) | 346 (13.63) | 431 (16.97) | 12 x 8 x 60 (0.472 x 0.315 x 2.36) | 60 (2.36) |
| 1326AS-B860 <i>x</i> -21 | without brake ¹ | 235 (9.25) | 359 (14.13) | 397 (15.63) | 482 (18.97) | 12 x 8 x 60 (0.472 x 0.315 x 2.36) | 60 (2.36) |

If you are ordering a 1326AS-B8xxx-21-K8 with an optional 24V DC 50.9 N-m (450lb-in.) brake, add 103 mm (4.05 in.) to AD, AG and C. Add 51 mm (2.0 in) to AL. Dimensions are per NEMA Standards MG 7-2.4.1.3 and IEC 72-1. Shaft and pilot tolerances are per DIN 42955, N tolerance. The eye bolt diameter is 38.1 mm (1.50 in) O.D. x 22.35 mm (0.88 in) I.D.

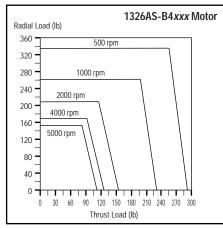
Figure 13 Motor Output Shaft Radial Load vs. Thrust Load



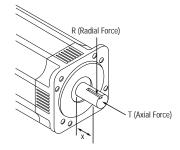


x = 10.31 mm (0.41 in.)



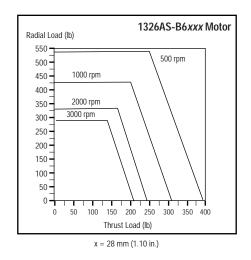


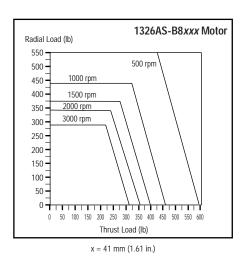
1326AS AC Servomotor 15,000 hour B10 bearing life vertical or horizontal mounting



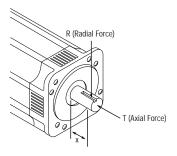
x = 18.5 mm (0.73 in.)

Figure 14 Motor Output Shaft Radial Load vs. Thrust Load





1326AS AC Servomotor 15,000 hour B10 bearing life - vertical or horizontal mounting



Servo Motor Options

This section provides detailed information on the various options available for the 1326AS Series servo motors.

Integral Holding Brake

The disc-type brake is spring-set upon removal of power. It is designed to hold a load at rest and provide limited braking torque for emergency stopping. The brake is not intended to be used as a positioning brake or continuously cycled to assist in stopping a load. The brake must not be energized/de-energized more than 90 times an hour when used as a parking brake. A parking brake is only meant to hold a stationary load and is not intended to stop motor movement unless a power interruption occurs. For further information, refer to the table below.

Note: A brake is not available for the 1326AS-B2 motor.

| Option | Holding | Current draw | Brake response | Weight added to | Inertia added to | Cold Resista | nce (Ohms) | Mechanical |
|------------|------------------------|----------------------------------|-----------------------------|-------------------------|---|--------------------|---------------------|------------------------------|
| Designator | torque N-m (lb-in.) | when energized (24V DC input) | time (ms) Pickup/Dropout | motor weight kg (lb) | motor inertia kg-m ² (lb-ins ²) | @ 25° C (77° F) | @ 40° C (104° F) | Backlash Degrees, minutes |
| -K3 | 2.26 (20) | 0.50A DC | 38/10 | 0.8 (1.8) | 0.000008 (0.00007) | 48 | 63 | 1,30 |
| -K4 | 10.2 (90) | 0.69A DC | 44/13 | 2.1 (4.6) | 0.00008 (0.0007) | 35 | 45 | 0,44 |
| -K6 | 36.7 (325) | 1.22A DC | 114/11 | 6.3 (14) | 0.00035 (0.0031) | 19 | 25 | 0,18 |
| -K8 | 50.8 (450) | 2.0A DC | 200/12 | 15 (33) | 0.0020 (0.018) | 12 | 15 | 1,18 |

Shaft Oil Seal

Allen-Bradley offers a Nitrile shaft oil seal kit that you can install on the motor shaft in the field. Use the seal in applications where the motor shaft may be subjected to occasional oil splashes or low pressure water jetting (For example: If the motor is exposed to splashing from coolant nozzles).

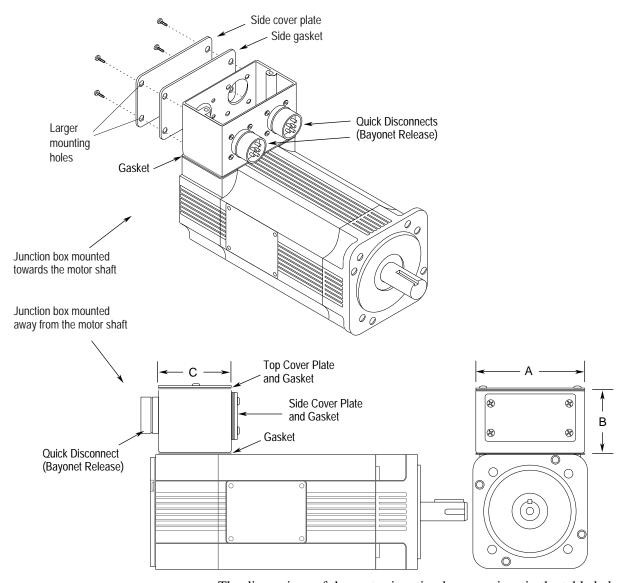
Important: The kit is not intended to be used in applications where the motor shaft is partially or fully submerged in oil.

Motor Junction Box Kit

The Motor Junction Box Kit allows the existing motor connectors to be mounted axially (rather the radially) without further wiring. Motors with IP65 protection maintain their rating when using this option.

Note: The connector may be mounted to the face or rear of the motor.

Figure 15 Motor Junction Box Dimensions



The dimensions of the motor junction box are given in the table below.

| Dimension: | ls: |
|------------|---------------------|
| Α | 92.07 mm (3.62 in.) |
| В | 69.85 mm (2.75 in.) |
| С | 63.50 mm (2.50 in.) |

1326-CCU-xxx Standard Commutation Cable for Motor Resolver

| Wire Color | Gauge mm ² (AWG) | Connector Pin | System Module Terminal # |
|-------------------|--------------------------------|---------------|-----------------------------|
| Black (Axis_0_R1) | 0.519 (20) | Α | 1 |
| White (Axis_0_R2) | 0.519 (20) | В | 6 |
| Shield - Drain | 0.519 (20) | no connection | 2 |
| Black (Axis_0_S1) | 0.519 (20) | D | 3 |
| Red (Axis_0_S3) | 0.519 (20) | E | 8 |
| Shield - Drain | 0.519 (20) | no connection | 7 |
| Black (Axis_0_S4) | 0.519 (20) | Н | 9 |
| Green (Axis_0_S2) | 0.519 (20) | G | 4 |
| Shield - Drain | 0.519 (20) | no connection | 5 |
| Overall Shield | N/A | no connection | 10 |

1326-CCUT-xxx Flex Rated Commutation Feedback Cable for Motor Resolver

| Wire Color | Gauge mm ² (AWG) | Connector Pin | System Module Terminal # |
|-------------------------|--------------------------------|---------------|-----------------------------|
| White/Black (Axis_0_R1) | 0.519 (20) | Α | 1 |
| White (Axis_0_R2) | 0.519 (20) | В | 6 |
| Shield | 0.519 (20) | no connection | 2 |
| White/Black (Axis_0_S1) | 0.519 (20) | D | 3 |
| White/Red (Axis_0_S3) | 0.519 (20) | E | 8 |
| Shield | 0.519 (20) | no connection | 7 |
| White/Black (Axis_0_S4) | 0.519 (20) | Н | 9 |
| White/Green (Axis_0_S2) | 0.519 (20) | G | 4 |
| Shield | 0.519 (20) | no connection | 5 |
| Green/Yellow | N/A | no connection | 10 |

1326-CPB1-xxx Standard Motor Power Cable for 1326AS-B3xxx and 1326AS-B4xxx Servo Motors

| Wire Number | Wire Color | Gauge mm ² (AWG) | Connector Pin | 1394 Terminal |
|----------------|----------------|--------------------------------|------------------|------------------|
| 1 (Power) | Black | 1.30 (16) | 1 | U1 |
| 2 (Power) | Black | 1.30 (16) | 2 | V1 |
| 3 (Power) | Black | 1.30 (16) | 3 | W1 |
| 4 (Brake) | Black | 1.30 (16) | 4 | TB1-3 |
| 5 (Thermostat) | Black | 1.30 (16) | 5 | TB1-2 |
| 6 (Brake) | Black | 1.30 (16) | 6 | TB1-4 |
| Braided shield | Braided shield | N/A | 7 | PE3 |
| (GND) | Green/Yellow | 1.30 (16) | 8 | PE2 |
| 9 (Thermostat) | Black | 1.30 (16) | 9 | TB1-1 |

1326-CPC1-xxx Standard Power Cable for the 1326AS-B6xxx and 1326AS-B8xxx Servo Motors

| Wire Number | Wire Color | Gauge mm ² (AWG) | Connector Pin | 1394 Terminal |
|----------------|----------------|--------------------------------|------------------|------------------|
| 1 (Power) | Black | 5.3 (10) | 1 | U1 |
| 2 (Power) | Black | 5.3 (10) | 2 | V1 |
| 3 (Power) | Black | 5.3 (10) | 3 | W1 |
| 4 (Brake) | Black | 1.3 (16) | 4 | TB1-3 |
| 5 (Thermostat) | Black | 1.3 (16) | 5 | TB1-2 |
| 6 (Brake) | Black | 1.3 (16) | 6 | TB1-4 |
| Braided shield | Braided shield | N/A | 7 | PE3 |
| (GND) | Green/Yellow | 3.3 (12) | 8 | PE2 |
| 9 (Thermostat) | Black | 1.3 (16) | 9 | TB1-1 |

1326-CPB1T-xxx Flex Rated Power Cable for 1326AS-B3xxx and 1326AS-B4xxx Servo Motors

| Wire Number | Wire Color | Gauge mm ² (AWG) | Connector Pin | 1394 Terminal |
|----------------|----------------|--------------------------------|------------------|------------------|
| 1 (Power) | White | 1.3 (16) | 1 | U1 |
| 2 (Power) | White | 1.3 (16) | 2 | V1 |
| 3 (Power) | White | 1.3 (16) | 3 | W1 |
| 4 (Brake) | White | 1.3 (16) | 4 | TB1-3 |
| 5 (Thermostat) | White | 1.3 (16) | 5 | TB1-2 |
| 6 (Brake) | White | 1.3 (16) | 6 | TB1-4 |
| Braided Shield | Braided Shield | N/A | 7 | PE3 |
| (GND) | Green/Yellow | 1.3 (16) | 8 | PE2 |
| 9(Thermostat) | White | 1.3 (16) | 9 | TB1-1 |

1326-CPC1T-xxx Flex Rated Power Cable for the 1326AS-B6xxx 1326AS-B8xxx Servo Motors

| Wire Number | Wire Color | Gauge mm ² (AWG) | Connector Pin | 1394 Terminal |
|----------------|----------------|--------------------------------|------------------|------------------|
| 1 (Power) | White | 5.3 (10) | 1 | U1 |
| 2 (Power) | White | 5.3 (10) | 2 | V1 |
| 3 (Power) | White | 5.3 (10) | 3 | W1 |
| 4 (Brake) | White | 1.3 (16) | 4 | TB1-3 |
| 5 (Thermostat) | White | 1.3 (16) | 5 | TB1-2 |
| 6 (Brake) | White | 1.3 (16) | 6 | TB1-4 |
| Braided Shield | Braided Shield | N/A | 7 | PE3 |
| (GND) | Green/Yellow | 3.3 (12) | 8 | PE2 |
| 9 (Thermostat) | White | 1.3 (16) | 9 | TB1-1 |

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