



Direct-Drive Brushless Servo Systems

Each Dynaserv system consists of a brushless servo motor, microprocessor-based drive, power supply, and a brushless resolver or encoder for position feedback. The primary benefit of the Dynaserv System is high accuracy and torque without speed reducers. Additional advantages include:

- Faster settling time than a traditional servo motor and speed reducer system
- Smooth rotation at slow speeds
- A flat speed/torque curve for high controllability
- Ability to operate in a position, speed or torque control mode
- Built-in test mode simplifies optimum tuning

DR Series — Lowest Cost!

- Brushless resolver feedback
- 20 models: 4-, 6-, 8- or 10-inch diameter
- Resolutions to 1,638,400 ppr
- Torques to 370 ft-lb (500 Nm)
- Repeatability of ± 3 arc seconds
- Speeds up to 5 rps for DR5000

DM Series — Best Accuracy and Repeatability!

- Incremental encoder feedback
- 9 models: 4-, 6- or 10-inch diameter
- Resolutions to 4,096,000 ppr
- Torques to 150 ft-lb (200 Nm)
- Repeatability of ± 1 arc seconds
- Clean room operation
- DM1004 has axial and radial run-out of 0.01mm

Digital Servo Drive Features Performance

- High resolution – up to 4,096,000 pulses/rev, four times the resolution of previous model
- Advanced control and filtering designed for direct drive
- Low pass, notch and velocity loop filters
- Small footprint

Safety and Standard

- Reduction of unexpected move at power failure
- Regeneration power monitoring
- UL, CE
- Servo disable switch on front panel

Operation

- Operation display panel (optional) for diagnostic information and parameter changes
- Windows utility software

Easy to Use

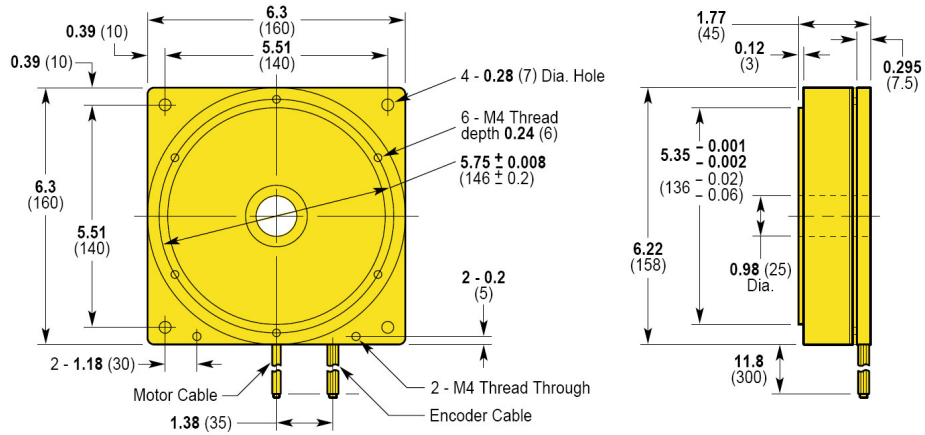
- Operates in position, velocity or torque modes
- Auto-tuning function
- Built-in index move capability
- User-configurable I/O
- RS232C/485 interface
- Screwless terminal strip connections
- Error/alarm history log
- Motorless operation for easy set-up and configuration of the drive

Integrate Direct Drive Servo Systems Into Your Next Application. Call 1-800-358-9070 Today.

DM1004B & DM1004C Motor Dimensions

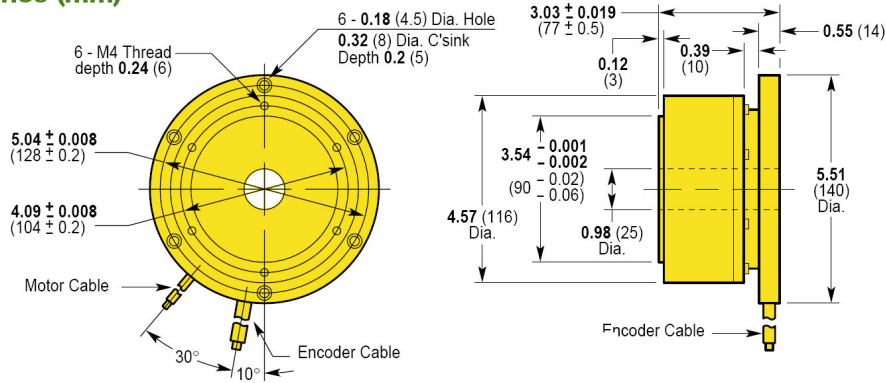
DM1004B

Dimensions in inches (mm)



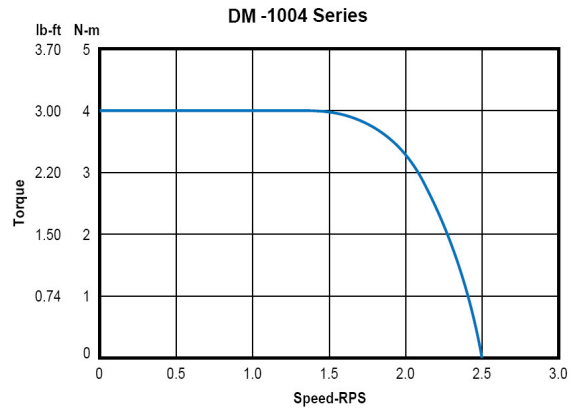
DM1004C

Dimensions in inches (mm)



Speed-Torque Curve

The speed/torque curves represent peak torque available; continuous torques are approximately 1/3 of the peak value.

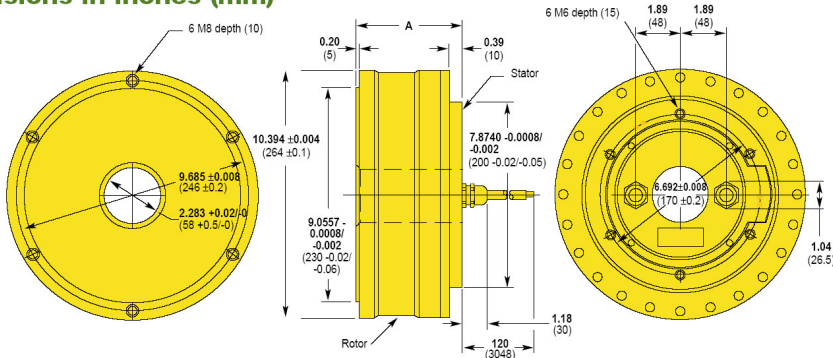


Integrate Direct Drive Servo Systems Into Your Next Application. Call 1-800-358-9070 Today.

DM Series Motor Dimensions

DM-A Series

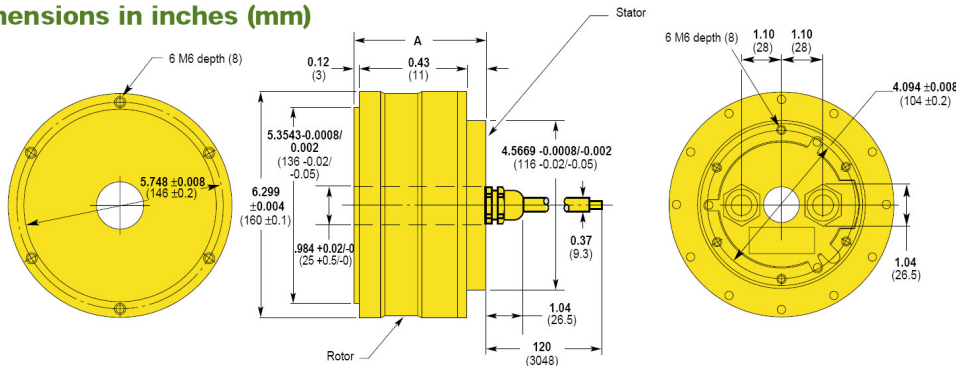
Dimensions in inches (mm)



Model	A
DM1050A	4.45 ± 0.04 (113 ± 1)
DM1100A	5.43 ± 0.04 (138 ± 1)
DM1150A	6.42 ± 0.04 (163 ± 1)
DM1200A	7.40 ± 0.04 (188 ± 1)

DM-B Series

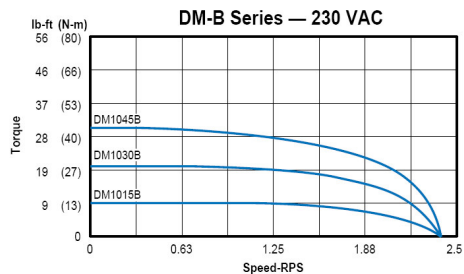
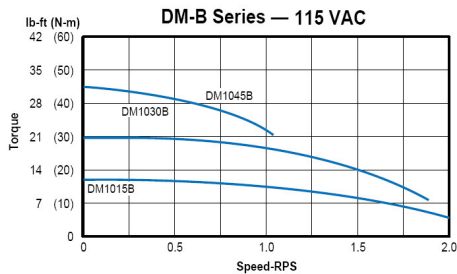
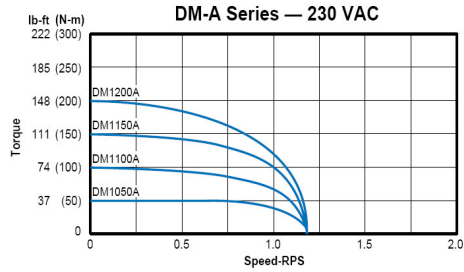
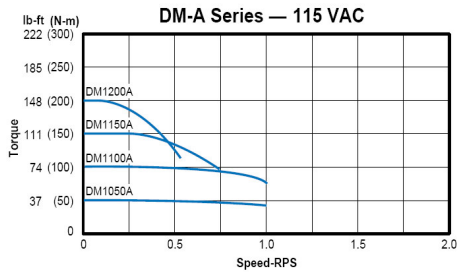
Dimensions in inches (mm)



Model	A
DM1015B	3.62 ± 0.04 (92 ± 1)
DM1030B	4.65 ± 0.04 (118 ± 1)
DM1045B	5.63 ± 0.04 (143 ± 1)

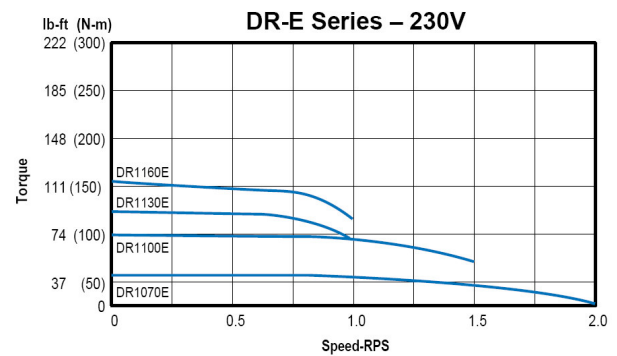
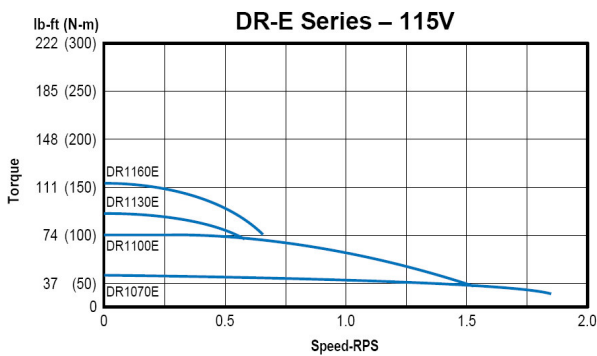
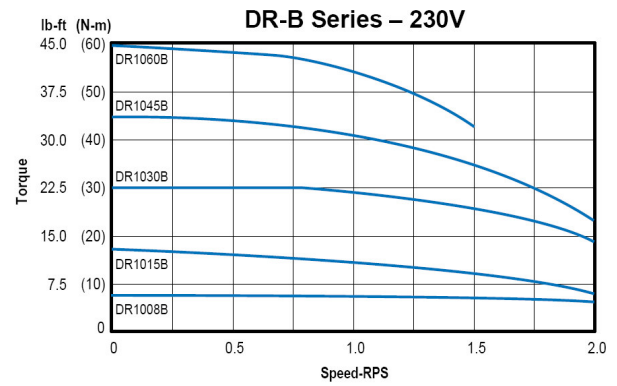
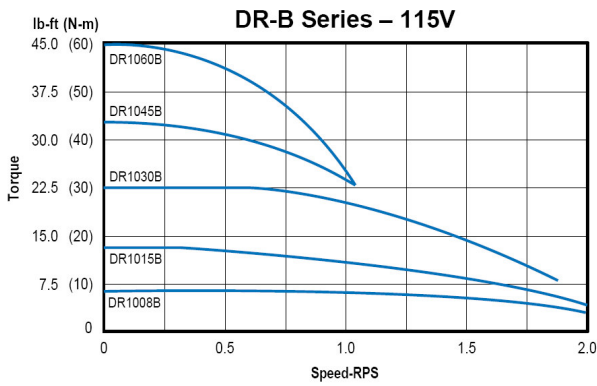
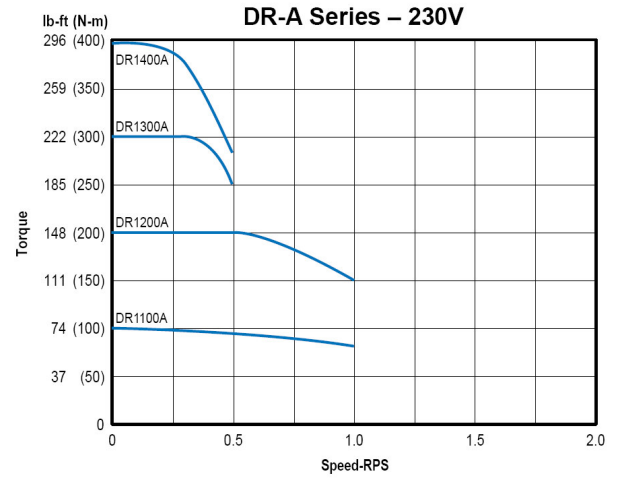
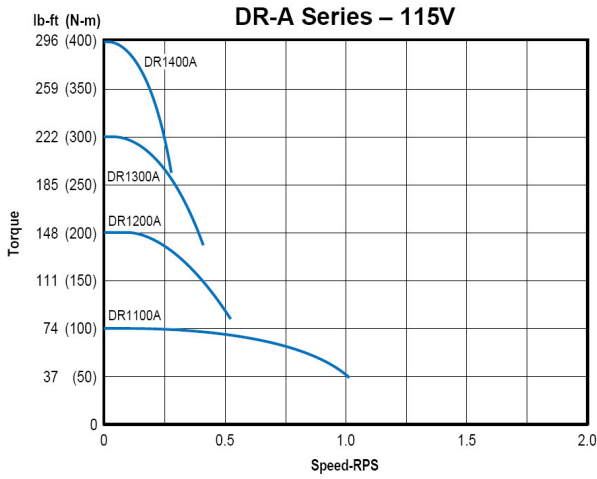
Motor Speed-Torque Performance Curves

The speed-torque curves represent peak torque available, continuous torques are approximately one-third of the peak value.



Motor Speed-Torque Performance Curves

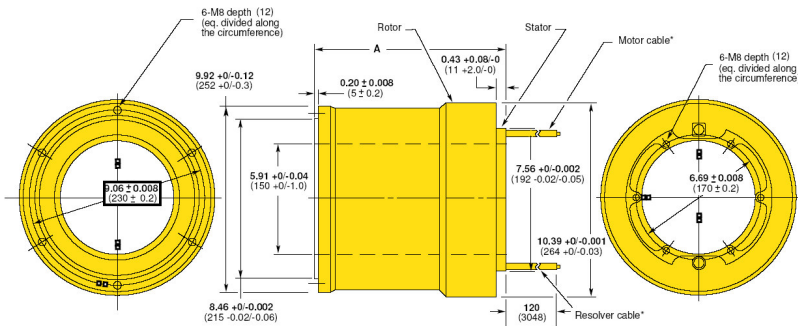
The speed-torque curves represent peak torque available, continuous torques are approximately 1/3 of the peak value.



DR Series Dimensional Drawings

DR-A Series

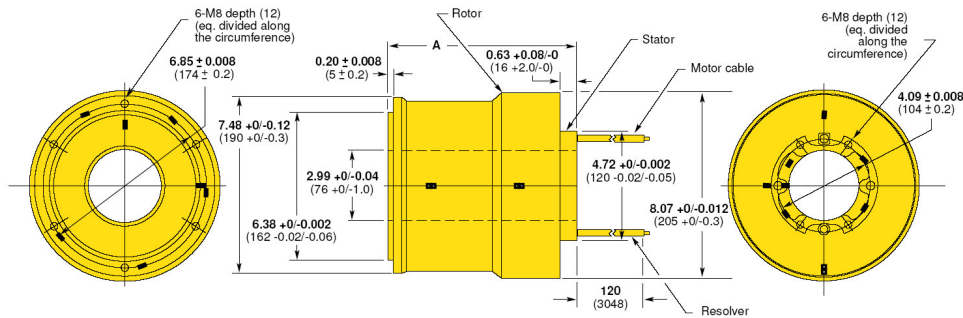
Dimensions in inches (mm)



Model	A
DR1100A	7.28 \pm 0.04 (185 \pm 1)
DR1200A	9.84 \pm 0.04 (250 \pm 1)
DR1300A	11.97 \pm 0.04 (304 \pm 1)
DR1400A	14.09 \pm 0.04 (358 \pm 1)

DR-E Series

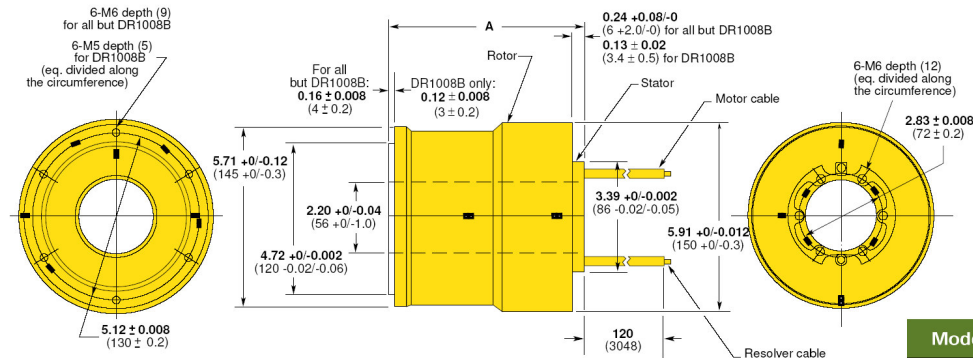
Dimensions in inches (mm)



Model	A
DR1070E	7.20 \pm 0.04 (183 \pm 1)
DR1100E	8.27 \pm 0.04 (210 \pm 1)
DR1130E	9.57 \pm 0.04 (243 \pm 1)
DR1160E	10.67 \pm 0.04 (271 \pm 1)

DR-B Series

Dimensions in inches (mm)



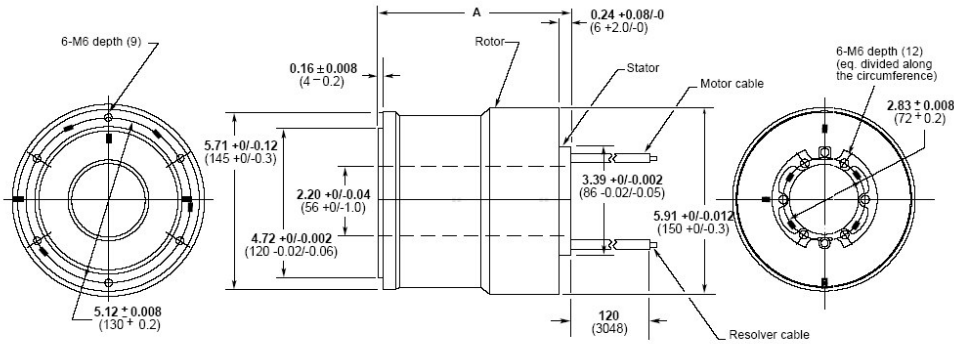
Model	A
DR1008B	3.35 \pm 0.04 (85 \pm 1)
DR1015B	4.84 \pm 0.04 (123 \pm 1)
DR1030B	5.94 \pm 0.04 (151 \pm 1)
DR1045B	7.05 \pm 0.04 (179 \pm 1)
DR1060B	8.15 \pm 0.04 (207 \pm 1)

Integrate Direct Drive Servo Systems Into Your Next Application. Call 1-800-358-9070 Today.

Dimensional Drawings

DR5000B Series

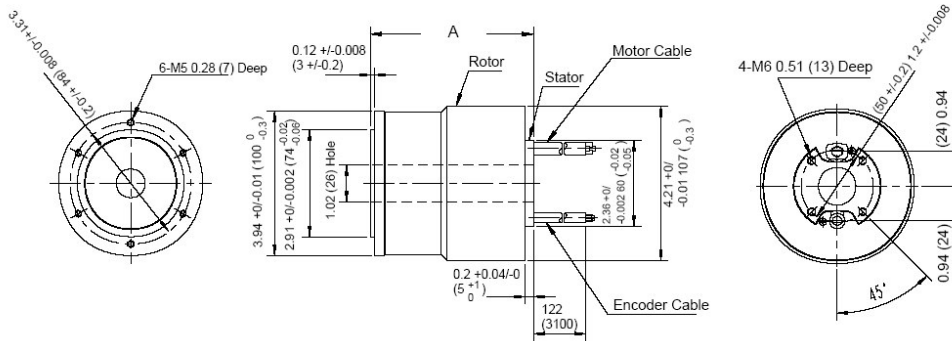
Dimensions in inches (mm)



Model	A
DR5030B	7.24 ± 0.04 (184 ± 1)
DR5070B	9.45 ± 0.04 (240 ± 1)

DR5000C Series

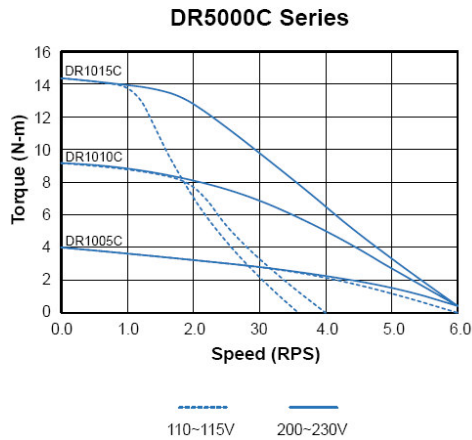
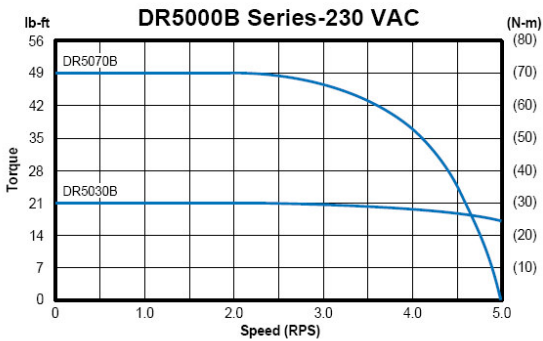
Dimensions in inches (mm)



Model	A
DR5005C	4.45 ± 0.04 (113 ± 1)
DR5010C	5.51 ± 0.04 (140 ± 1)
DR5015C	6.57 ± 0.04 (167 ± 1)

Motor Speed-Torque Performance Curves

The speed-torque curves represent peak torque available, continuous torques are approximately 1/3 of the peak value.



07180601