



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

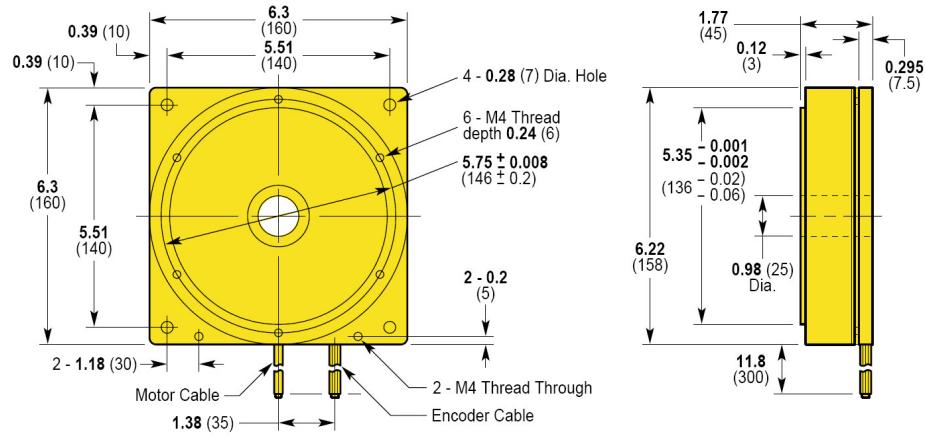
- Operates in position, velocity or torque modes
- Auto-tuning function
- Built-in index move capability
- User-configurable I/O
- RS232C/485 interface
- Screwless terminal strip connections
- Error/alarm history log
- Motorless operation for easy set-up and configuration of the drive

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

DM1004B & DM1004C Motor Dimensions

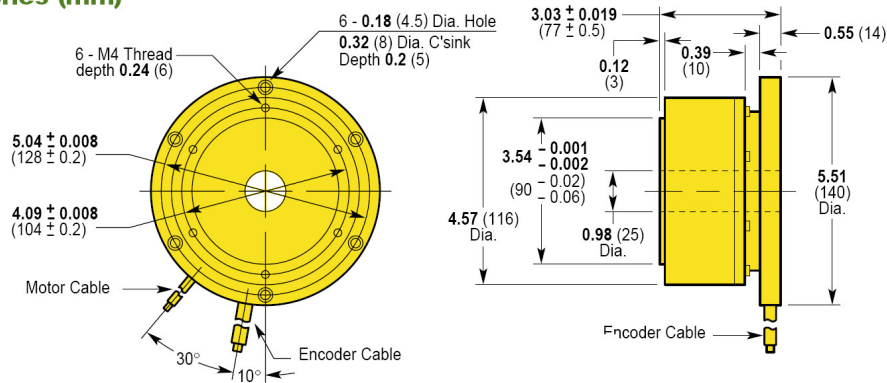
DM1004B

Dimensions in inches (mm)



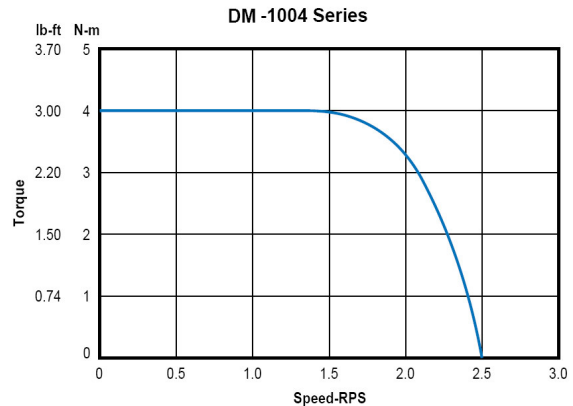
DM1004C

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.

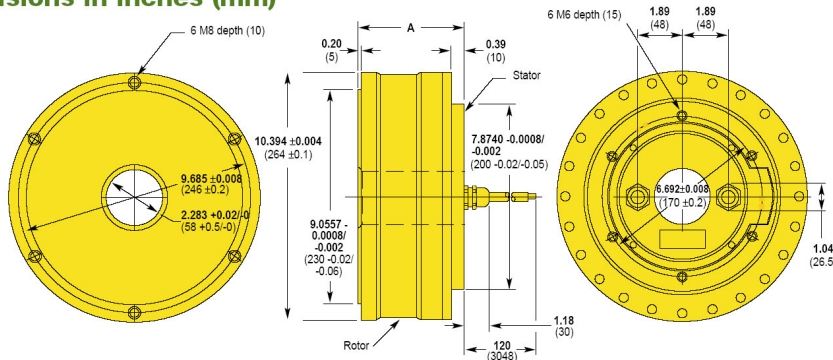


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DM Series Motor Dimensions

DM-A Series

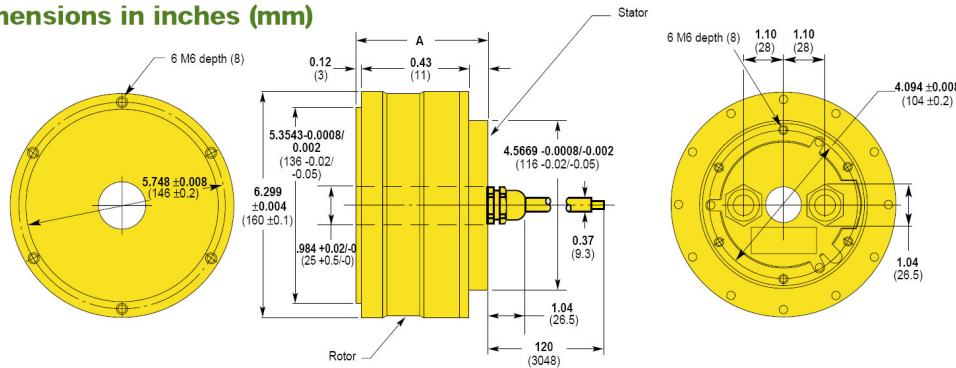
Dimensions in inches (mm)



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

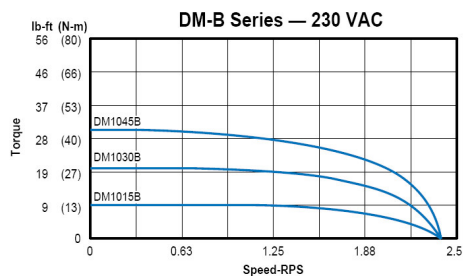
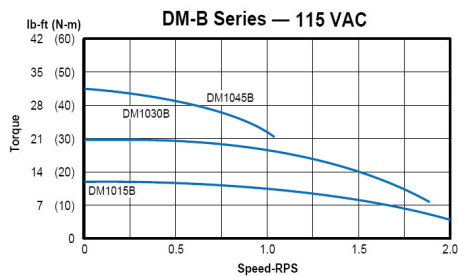
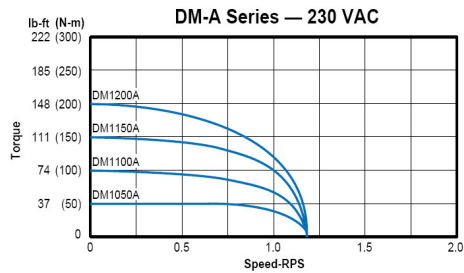
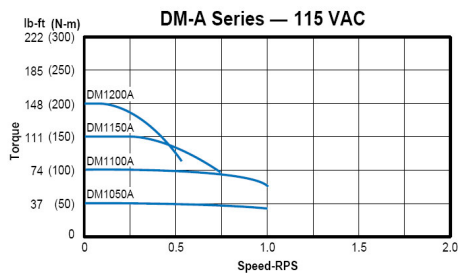
Dimensions in inches (mm)



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

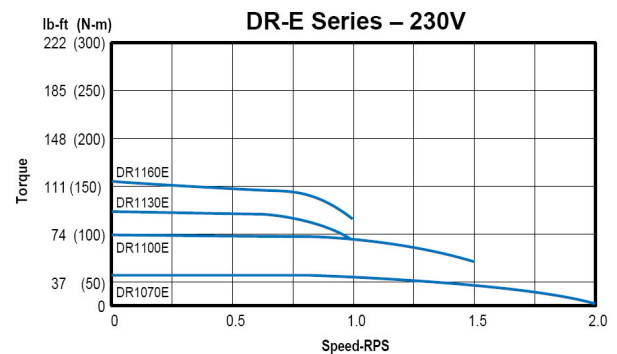
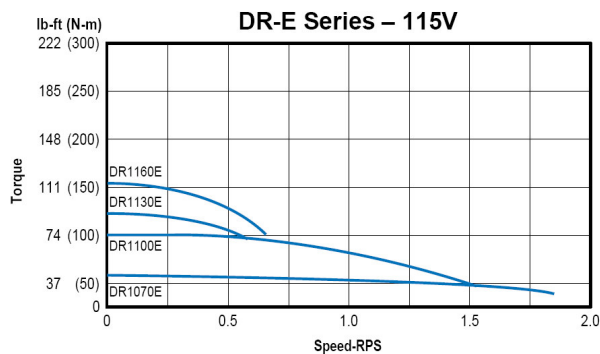
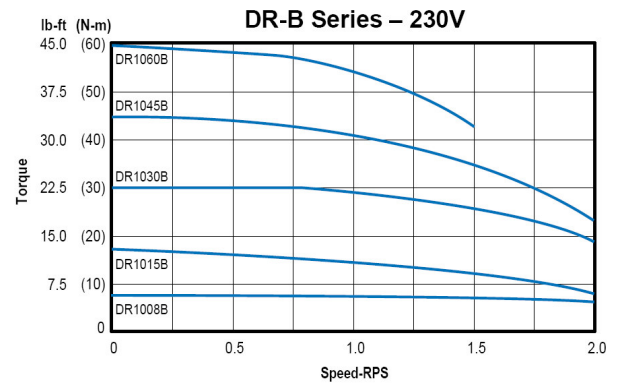
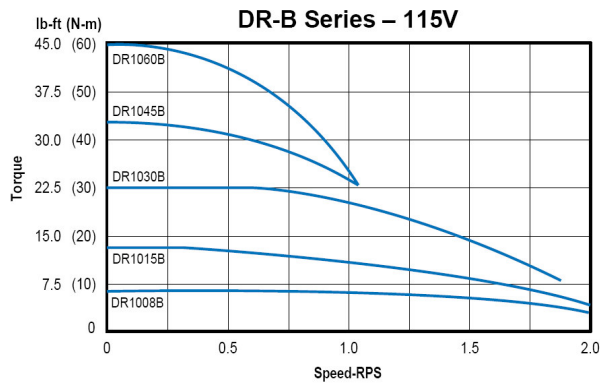
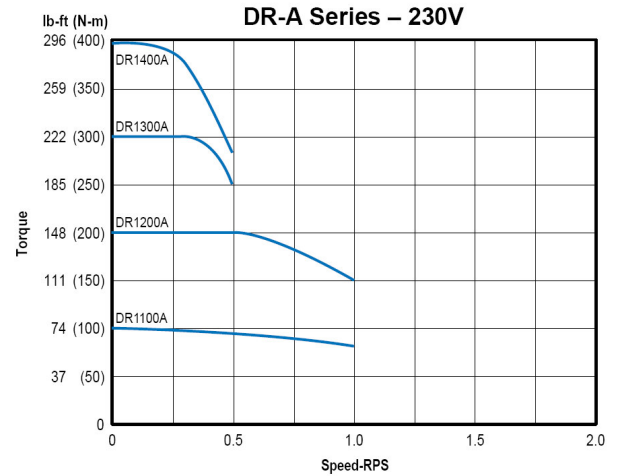
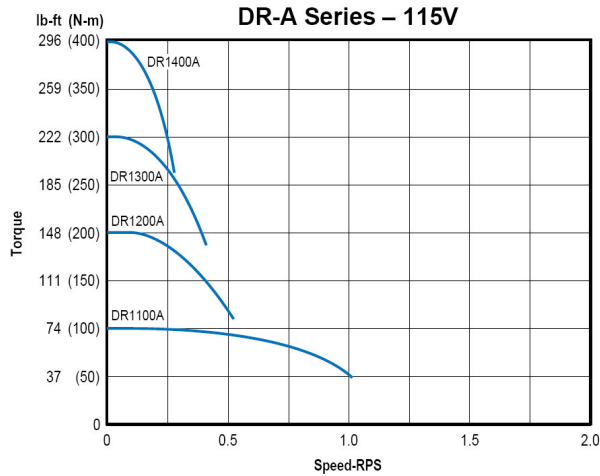
Motor Speed-Torque Performance Curves

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



Motor Speed-Torque Performance Curves

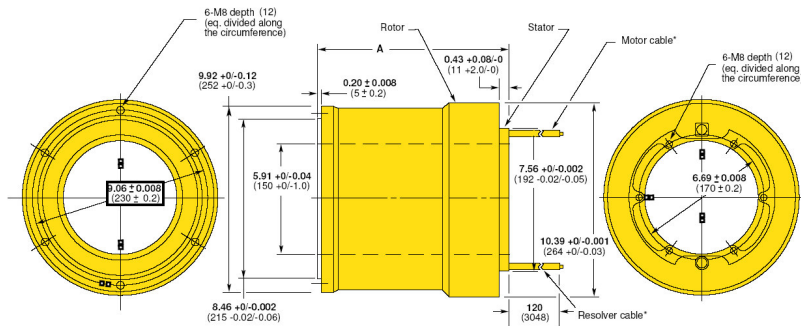
The speed-torque curves represent peak torque available, continuous torques are approximately 1/3 of the peak value.



DR Series Dimensional Drawings

DR-A Series

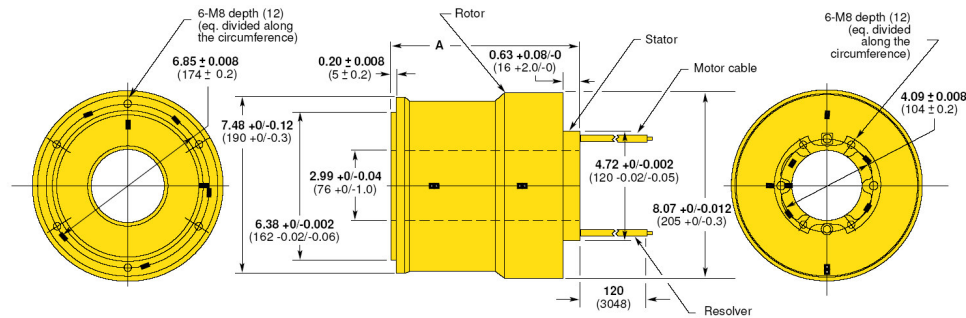
Dimensions in inches (mm)



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

DR-E Series

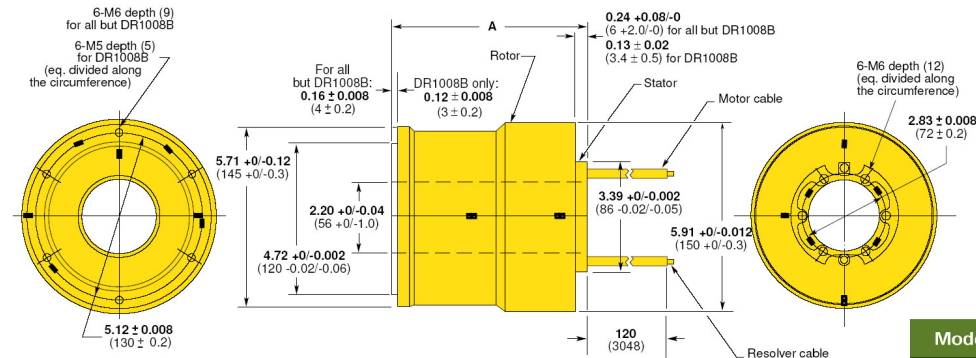
Dimensions in inches (mm)



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

DR-B Series

Dimensions in inches (mm)



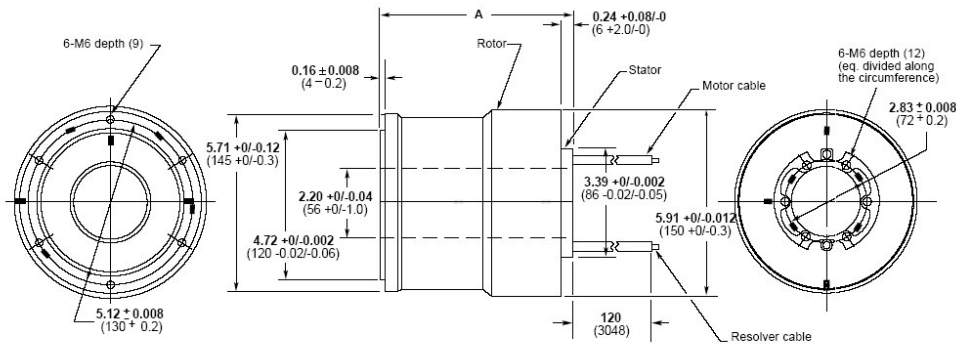
Model	A
DR1008B	3.35 ± 0.04 (85 $\pm$ 1)
DR1015B	4.84 ± 0.04 (123 $\pm$ 1)
DR1030B	5.94 ± 0.04 (151 $\pm$ 1)
DR1045B	7.05 ± 0.04 (179 $\pm$ 1)
DR1060B	8.15 ± 0.04 (207 $\pm$ 1)

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Dimensional Drawings

DR5000B Series

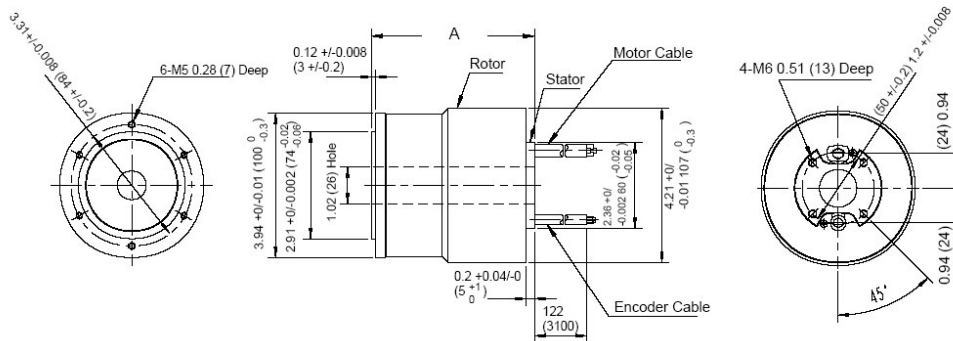
Dimensions in inches (mm)



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

DR5000C Series

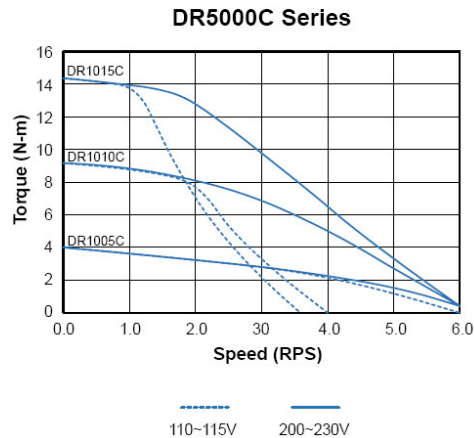
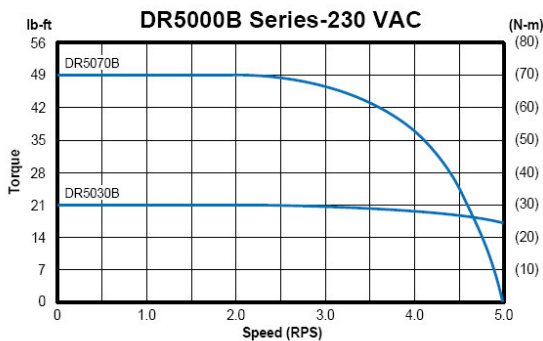
Dimensions in inches (mm)



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.



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