The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Timken Part Number MM203K, Fafnir® Spindle Deep Grove Ball Bearings (9100K, 200K, 300K)

Radial ball bearings consist of an inner and outer ring with a cage containing a complement of precision balls. The standard Conrad-type bearing has a deep-groove construction capable of handling radial and axial loads from either direction in versatile designs that permit relatively high-speed operation.

In addition to standard single-row deep groove bearings, Timken offers special designs, including a maximum capacity series and an extra large (XLS) radial series bearing.

Size range: 3 mm

more



Specifications | Dimensions | Basic Load Ratings | Factors | Abutment and Fillet Dimensions

Specifications

Design Units	METRIC
Ball Type	Steel
Cage Type	CR - Phenolic Inner Land Riding Cage
Bearing Weight	0.062 Kg 0.14 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	17.000 mm 0.6693 in
D - Outer Diameter	40.000 mm 1.5748 in
Bearing Width	12.000 mm 0.4724 in
do - Ball Diameter	6.746900 mm 0.265625 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	10600 N 2380 lbf
C0 - Static Radial Rating	4700 N 1060 lbf

Factors

Limiting Speed (Grease)	38500 rpm
Limiting Speed (Oil)	77000 rpm

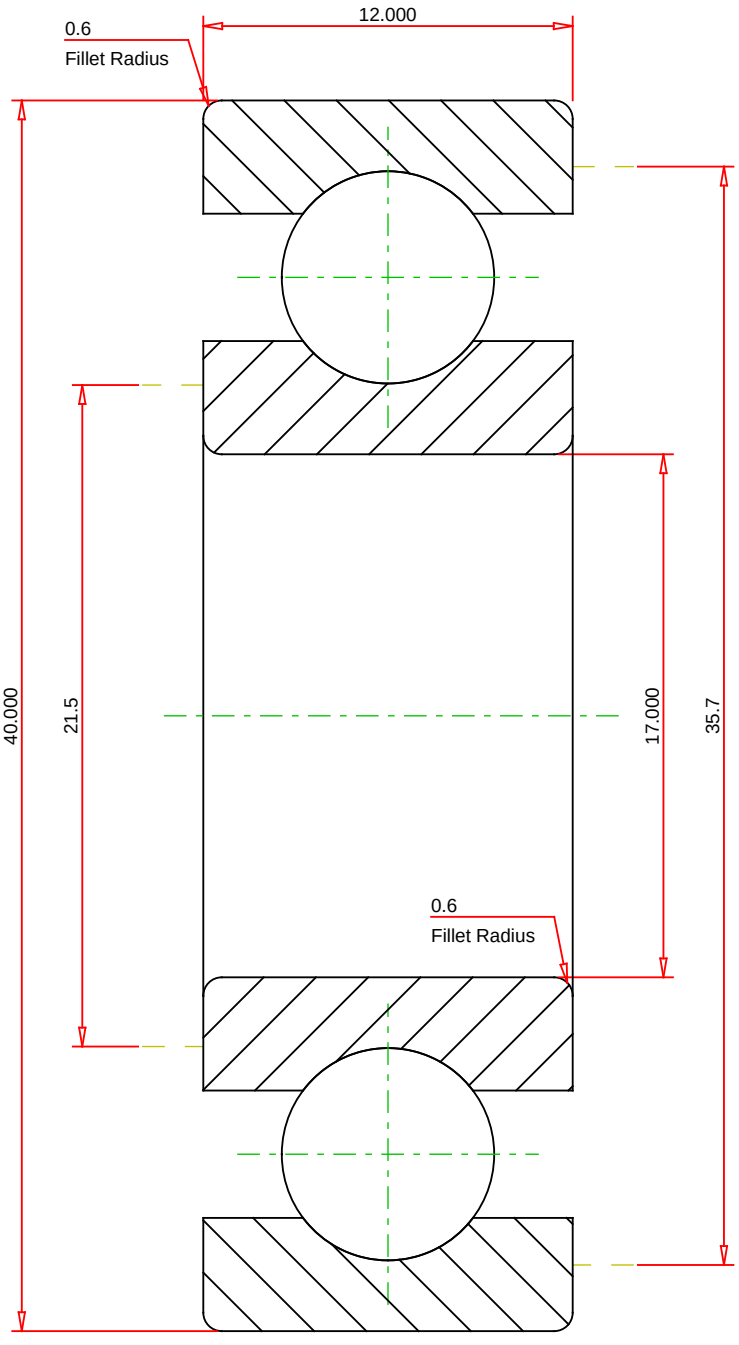
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	0.600 mm 0.024 in
r - Outer Ring "To Clear" Radius[3]	0.600 mm 0.024 in
da - Inner Ring Backing Diameter	21.500 mm 0.850 in
Da - Outer Ring Backing Diameter	35.700 mm 1.410 in

[1] Based on 10^6 revolutions of calculated fatigue life.

[2] Maximum housing fillet radius that bearing corners will clear.

[3] Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row	8	
Bearing Weight	0.062	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM203K

Fafnir® Spindle Deep Grove Ball Bearings (9100K, 200K, 300K)

Dynamic Radial Rating	10600	N
		N
Static Radial Rating	4700	N

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

FOR DISCUSSION ONLY