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 MM208K, 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	0.337 Kg 0.74 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	40.000 mm 1.5748 in
D - Outer Diameter	80.000 mm 3.1496 in
Bearing Width	18.000 mm 0.7087 in
do - Ball Diameter	12.70000 mm 0.50000 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	36200 N 8130 lbf
C0 - Static Radial Rating	20000 N 4500 lbf

Factors

Limiting Speed (Grease)	17700 rpm
Limiting Speed (Oil)	35400 rpm

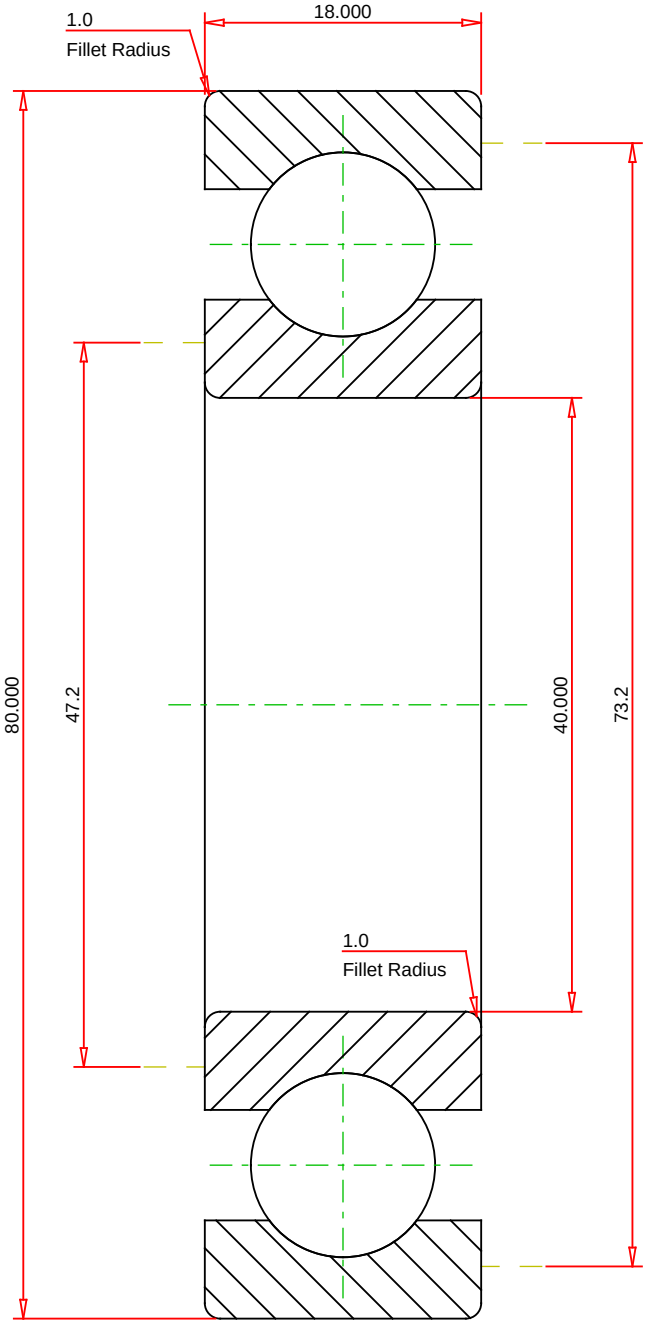
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.000 mm 0.039 in
r - Outer Ring "To Clear" Radius[3]	1.000 mm 0.039 in
da - Inner Ring Backing Diameter	47.200 mm 1.860 in
Da - Outer Ring Backing Diameter	73.200 mm 2.880 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	9	
Bearing Weight	0.337	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM208K

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

Dynamic Radial Rating	36200	N
		N
Static Radial Rating	20000	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