The Timken Company
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Timken Part Number MM204K, 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	0.100 Kg 0.22 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	20.000 mm 0.7874 in
D - Outer Diameter	47.000 mm 1.8504 in
Bearing Width	14.000 mm 0.5512 in
do - Ball Diameter	7.937500 mm 0.312500 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	14200 N 3190 lbf
C0 - Static Radial Rating	6500 N 1460 lbf

Factors

Limiting Speed (Grease)	32800 rpm
Limiting Speed (Oil)	65600 rpm

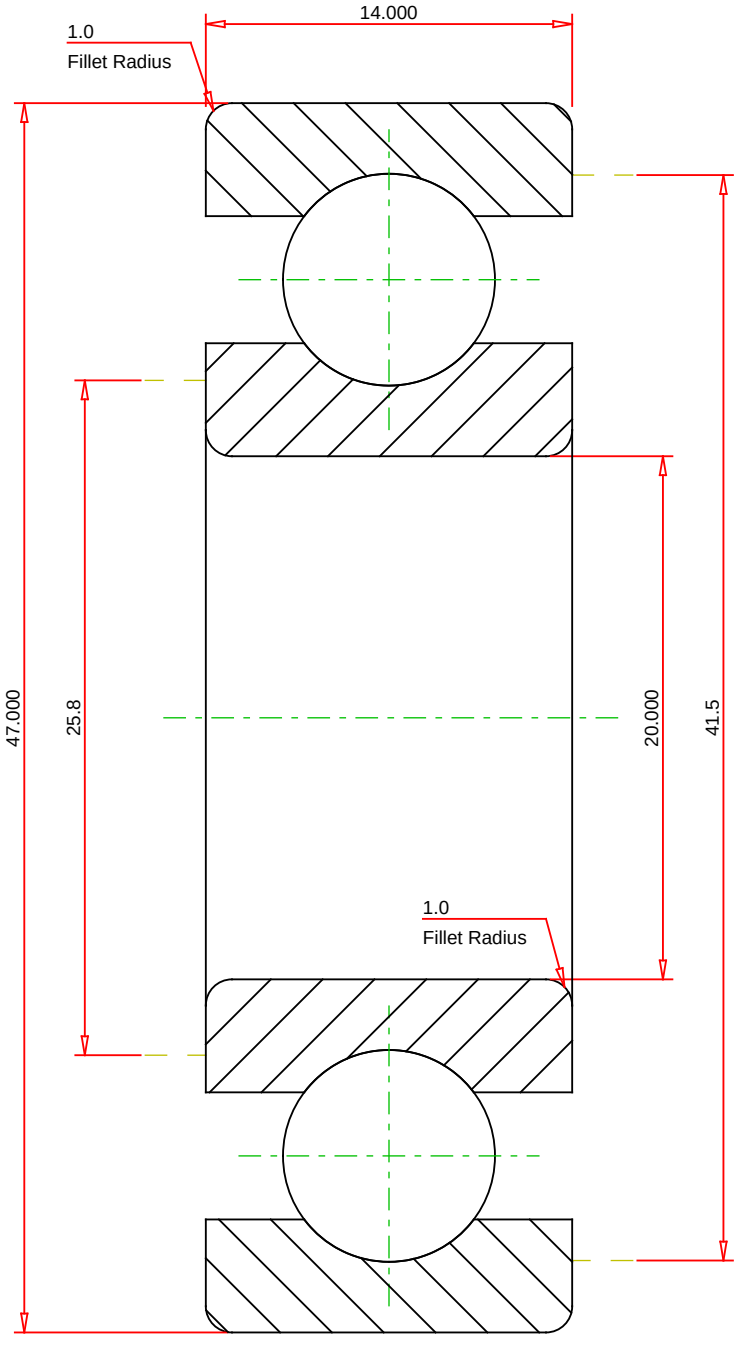
Abutment and Fillet Dimensions

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	25.800 mm 1.020 in
Da - Outer Ring Backing Diameter	41.500 mm 1.640 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	0.100	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM204K

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Dynamic Radial Rating	14200	N
		N
Static Radial Rating	6500	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