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Timken Part Number MM210K, 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	0.425 Kg 0.94 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	50.000 mm 1.9685 in
D - Outer Diameter	90.000 mm 3.5433 in
Bearing Width	20.000 mm 0.7874 in
do - Ball Diameter	12.70000 mm 0.50000 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	38900 N 8740 lbf
C0 - Static Radial Rating	23100 N 5200 lbf

Factors

Limiting Speed (Grease)	14600 rpm
Limiting Speed (Oil)	29200 rpm

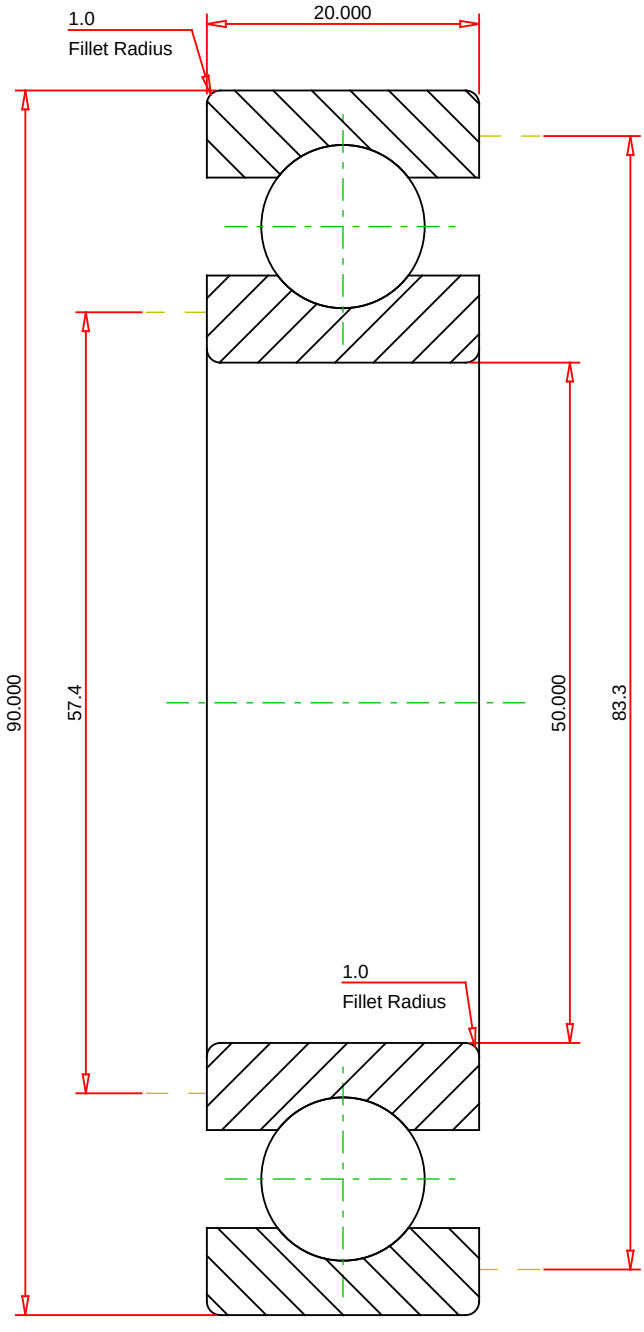
Abutment and Fillet Dimensions

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	57.400 mm 2.260 in
Da - Outer Ring Backing Diameter	83.300 mm 3.280 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	10	
Bearing Weight	0.425	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM210K

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Dynamic Radial Rating	38900	N
		N
Static Radial Rating	23100	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