



The Timken Company

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Part Number 3MM9311WI, Fafnir® Spindle Angular Contact Ball Bearings (9300WI, 9100WI, 200WI, 300WI)

Timken® angular contact ball bearings are designed for combination radial and axial loading. Single-row bearings have high thrust capacity in one direction. Some single-row bearings are specifically designed for duplex mounting in sets for maximum performance.



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Specifications

Note

CAD Model Shown is for a single bearing

Product is sold set of:

- 1 (SU = Single)
- 2 (DU = Duplex)
- 3 (TU = Triplex)
- 4 (QU = Quadruplex)

3MM9311WI DUL
 3MM9311WI DUM
 3MM9311WI QUL
 3MM9311WI TUL
 3MM9311WI TUM
 3MM9311WICRDUL
 3MM9311WICRDUM
 3MM9311WICRDUX
 3MM9311WICRQUH
 3MM9311WICRQUH

Full Timken Part Number	3MM9311WICRQUL 3MM9311WICRQUM 3MM9311WICRQUX 3MM9311WICRSUH 3MM9311WICRSUL 3MM9311WICRSUM 3MM9311WICRSUX 3MM9311WICRTUH 3MM9311WICRTUL 3MM9311WICRTUM 3MM9311WICRTUX
Disclaimer	Product preload will have a suffix of: H = Heavy, M = Medium, L = Light
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage
Bearing Weight	0.19 Kg 0.41 lb
Design Units	METRIC
Precision Class	ISO P4S (ABEC 7/9)
Manufacturing Part Number	3MM9311WICRDUL 3MM9311WICRDUM 3MM9311WICRQUL 3MM9311WICRTUL 3MM9311WICRTUM

Dimensions

d - Bore	55.00 mm 2.1654 in
D - Outer Diameter	80.00 mm 3.1496 in
Bearing Width	13.00 mm 0.5118 in
Contact Angle	25 °
do - Ball Diameter	7.143750 mm 0.2813 in

9/32 in

Basic Load Ratings

C0 - Static Radial Rating 17400 N
3920 lbf

Ce - Dynamic Radial Rating¹ 20600 N
4620 lbf

Factors

Limiting Speed (Grease) 14900 rpm

Limiting Speed (Oil) 29800 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius² 1.00 mm
0.039 in

r - Outer Ring "To Clear" Radius³ 1.00 mm
0.039 in

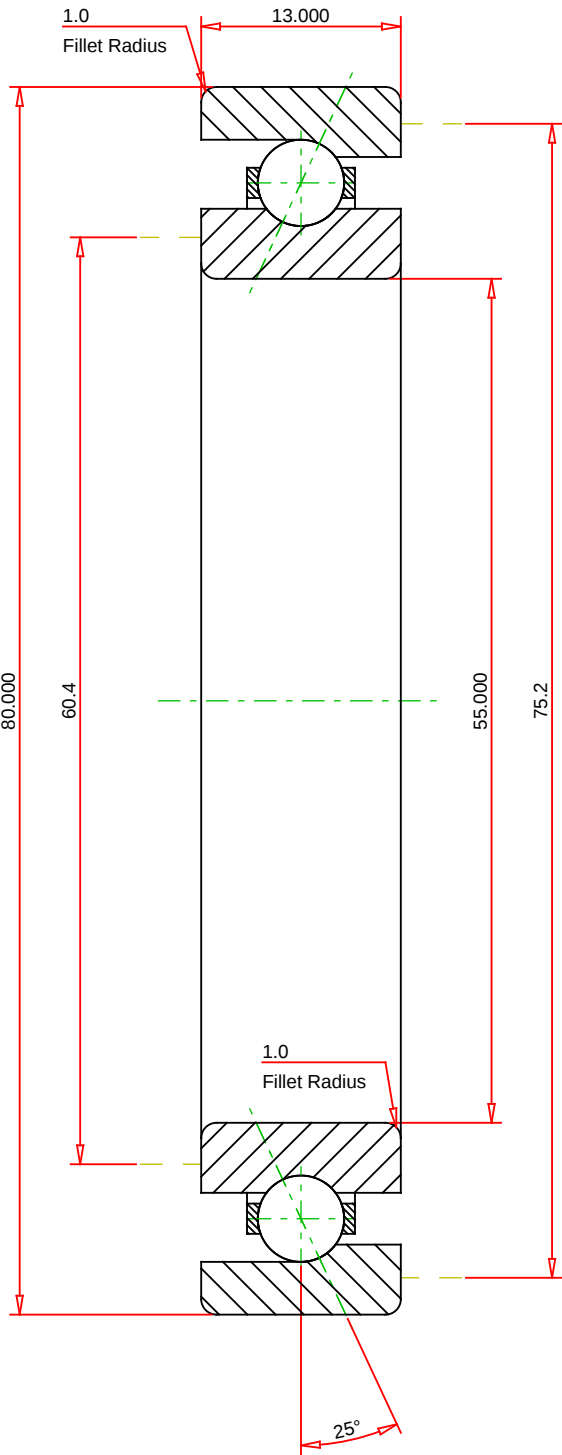
da - Inner Ring Backing Diameter 60.400 mm
2.380 in

Da - Outer Ring Backing Diameter 75.200 mm
2.960 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 23
Bearing Weight 0.190 kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

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Fafnir® Spindle Angular Contact Ball Bearings
(9300WI, 9100WI, 200WI, 300WI)

Dynamic Radial Rating 20600 N
Static Radial Rating 17400 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