


The Timken Company

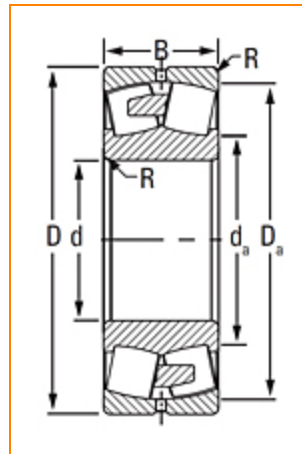
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Part Number 23060EMBW33, Spherical Roller Bearings - Brass Cage

Spherical bearings are designed to manage high radial loads even when misalignment, poor lubrication, contamination, extreme speeds or critical application stresses are present.




[Specifications](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Basic Load Ratings](#) | [Factors](#)

Specifications

Design Unit	Metric
d - Bore	300 mm
Cage Type	EMB
Cage Material	Brass
Superseded Part	23060YMBW33

Dimensions

D - Outer Diameter	460 mm 18.1100 in
 - Inner Ring Width	118 mm 4.646 in

B - Outer Ring Width	118 mm 4.6460 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	3 mm 0.120 in
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r - Outer Ring "To Clear" Radius²	3 mm 0.12 in
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da - Inner Ring Backing Diameter	334.000 mm 13.100 in
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Da - Outer Ring Backing Diameter	425.000 mm 16.8000 in
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Basic Load Ratings

C0 - Static Radial Rating	3570000 N 803000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	2330000 N 525000 lbf
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Factors

e - ISO Factor³	0.24
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Y0 - ISO Factor⁴	2.8
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Y1 - ISO Factor⁵	2.87
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Y2 - ISO Factor⁶	4.27
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Reference Thermal Speed Rating (Grease)	940 rpm
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Reference Thermal Speed Rating (Oil)⁷	1100 rpm
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Cg - Geometry Factor⁸

0.1231

¹ Maximum housing fillet radius that bearing corners will clear.

² Maximum shaft fillet radius that bearing corners will clear.

³ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

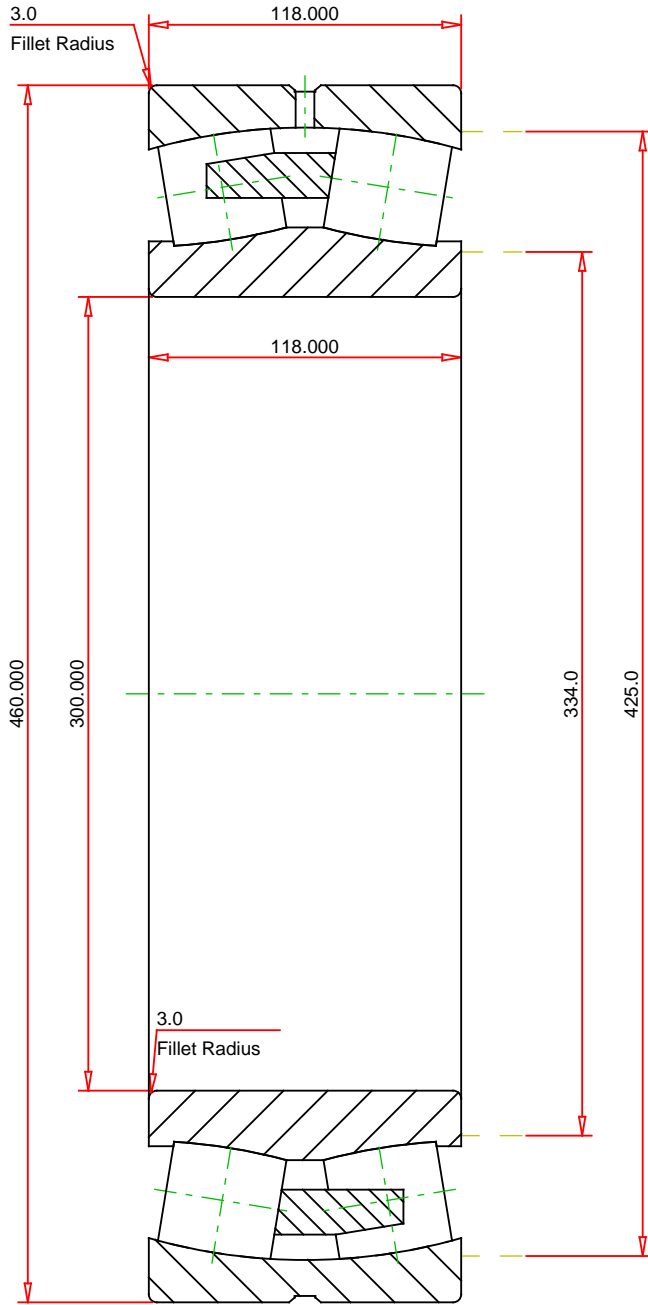
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a_3 .



METRIC UNITS

Number of Rollers Per Row	25
ISO Factor e	0.24
ISO Factor Y0	2.80
ISO Factor Y1	2.87
ISO Factor Y2	4.27
Bearing Weight	71.2 kg
Cage Type	EMB
Cage Material	Brass

TIMKEN®

23060EMBW33
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	2330000	N
Static Radial Rating	3570000	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