



The Timken Company

4500 Mt Pleasant St. NW

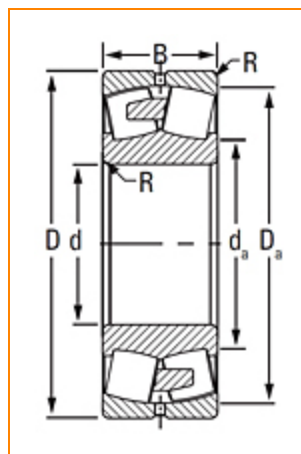
N. Canton, OH 44720

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Part Number 24048EMBW33, 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	240 mm
Cage Type	EMB
Cage Material	Brass
Superseded Part	24048YMBW33

Dimensions

D - Outer Diameter	360 mm 14.1732 in
 - Inner Ring Width	118 mm 4.6457 in

B - Outer Ring Width	118 mm 4.6457 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	2.5 mm 0.100 in
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r - Outer Ring "To Clear" Radius²	2.5 mm 0.100 in
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da - Inner Ring Backing Diameter	265 mm 10.4000 in
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Da - Outer Ring Backing Diameter	334 mm 13.100 in
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Basic Load Ratings

C0 - Static Radial Rating	2900000 N 652000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	1790000 N 403000 lbf
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Factors

e - ISO Factor³	0.29
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Y0 - ISO Factor⁴	2.26
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Y1 - ISO Factor⁵	2.31
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Y2 - ISO Factor⁶	3.44
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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	0.1059
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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.

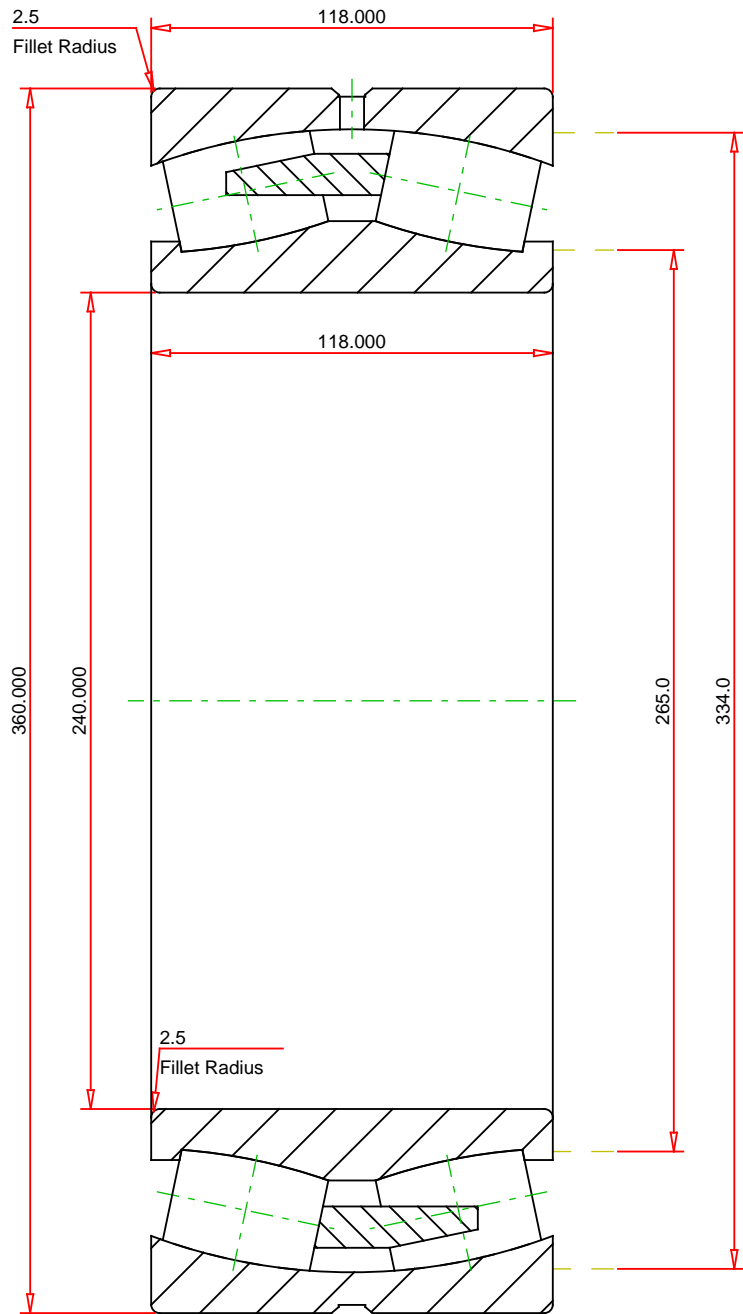
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row	26
ISO Factor e	0.29
ISO Factor Y0	2.26
ISO Factor Y1	2.31
ISO Factor Y2	3.44
Bearing Weight	41.8 kg
Cage Type	EMB
Cage Material	Brass



THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

24048EMBW33
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	1790000	N
Static Radial Rating	2900000	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