


The Timken Company

4500 Mt Pleasant St. NW

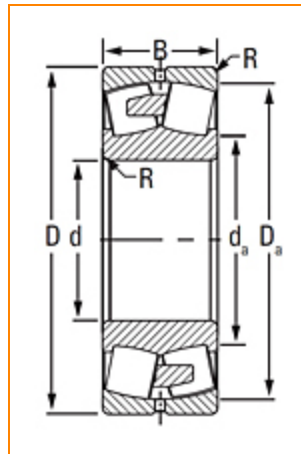
N. Canton, OH 44720

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Part Number 24052EMBW33C2, 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	260 mm
Cage Type	EMB
Cage Material	Brass
Superseded Part	24052YMBW33C2

Dimensions

D - Outer Diameter	400 mm 15.748 in
 - Inner Ring Width	140 mm 5.5118 in

B - Outer Ring Width	140 mm 5.5118 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	288.000 mm 11.3000 in
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Da - Outer Ring Backing Diameter	369.000 mm 14.5000 in
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Basic Load Ratings

C0 - Static Radial Rating	3840000 N 864000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	2380000 N 535000 lbf
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Factors

e - ISO Factor³	0.32
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Y0 - ISO Factor⁴	2.07
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Y1 - ISO Factor⁵	2.12
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Y2 - ISO Factor⁶	3.15
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Reference Thermal Speed Rating (Grease)	830 rpm
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Reference Thermal Speed Rating (Oil)⁷	940 rpm
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Cg - Geometry Factor⁸

0.1125

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.

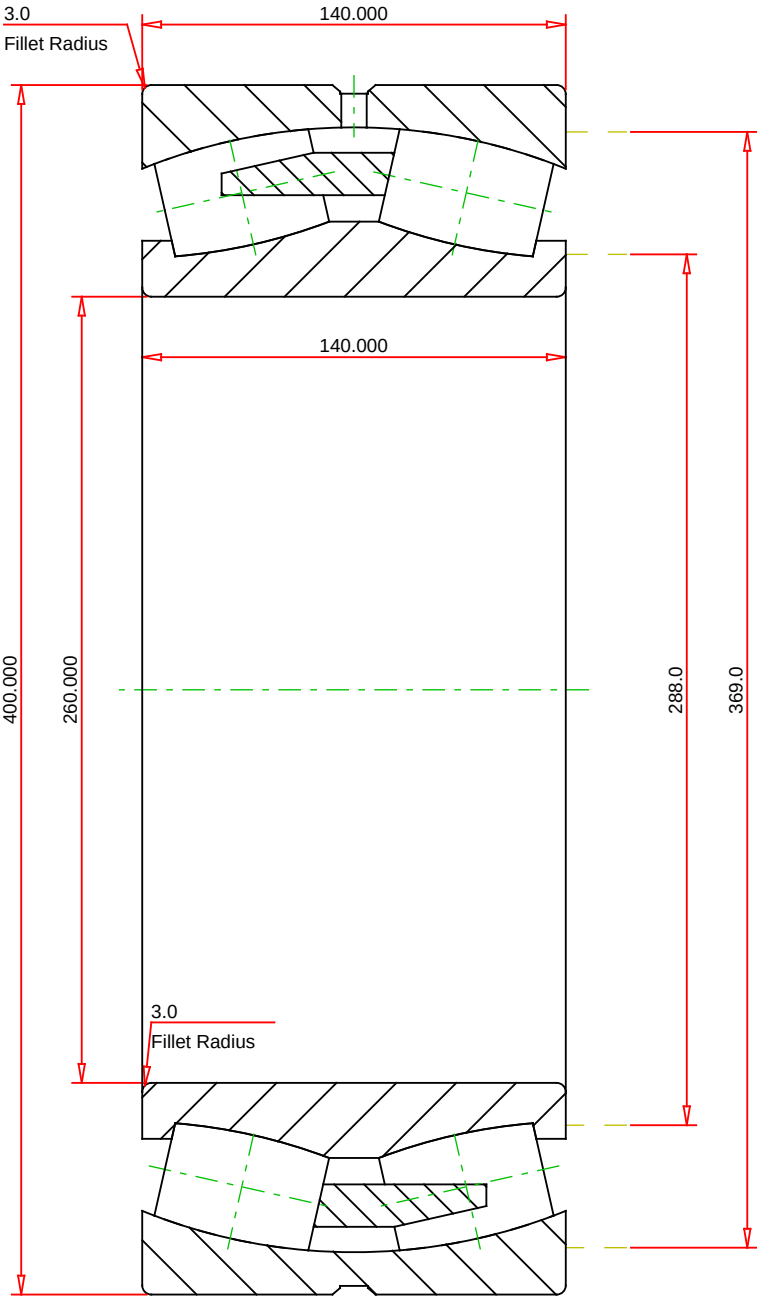
⁴ These factors apply for both inch and metric calculations. See engineering

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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	0.32
ISO Factor Y0	2.07
ISO Factor Y1	2.12
ISO Factor Y2	3.15
Bearing Weight	63.9 kg
Cage Type	EMB
Cage Material	Brass



THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

24052EMBW33C2
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	2380000	N
Static Radial Rating	3840000	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