



The Timken Company

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Part Number 24044EMBW33C2, 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.




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Specifications

Design Unit	Metric
d - Bore	220 mm
Cage Type	EMB
Cage Material	Brass
Superseded Part	24044YMBW33C2

Dimensions

D - Outer Diameter	340 mm 13.3858 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 0.1 in
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da - Inner Ring Backing Diameter	245 mm 9.6000 in
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Da - Outer Ring Backing Diameter	313.000 mm 12.3000 in
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Basic Load Ratings

C0 - Static Radial Rating	2720000 N 612000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	1720000 N 388000 lbf
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Factors

e - ISO Factor³	0.32
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Y0 - ISO Factor⁴	2.09
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Y1 - ISO Factor⁵	2.14
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Y2 - ISO Factor⁶	3.18
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Reference Thermal Speed Rating (Grease)	1000 rpm
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Reference Thermal Speed Rating (Oil)⁷	1200 rpm
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Cg - Geometry Factor⁸	0.1013
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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.

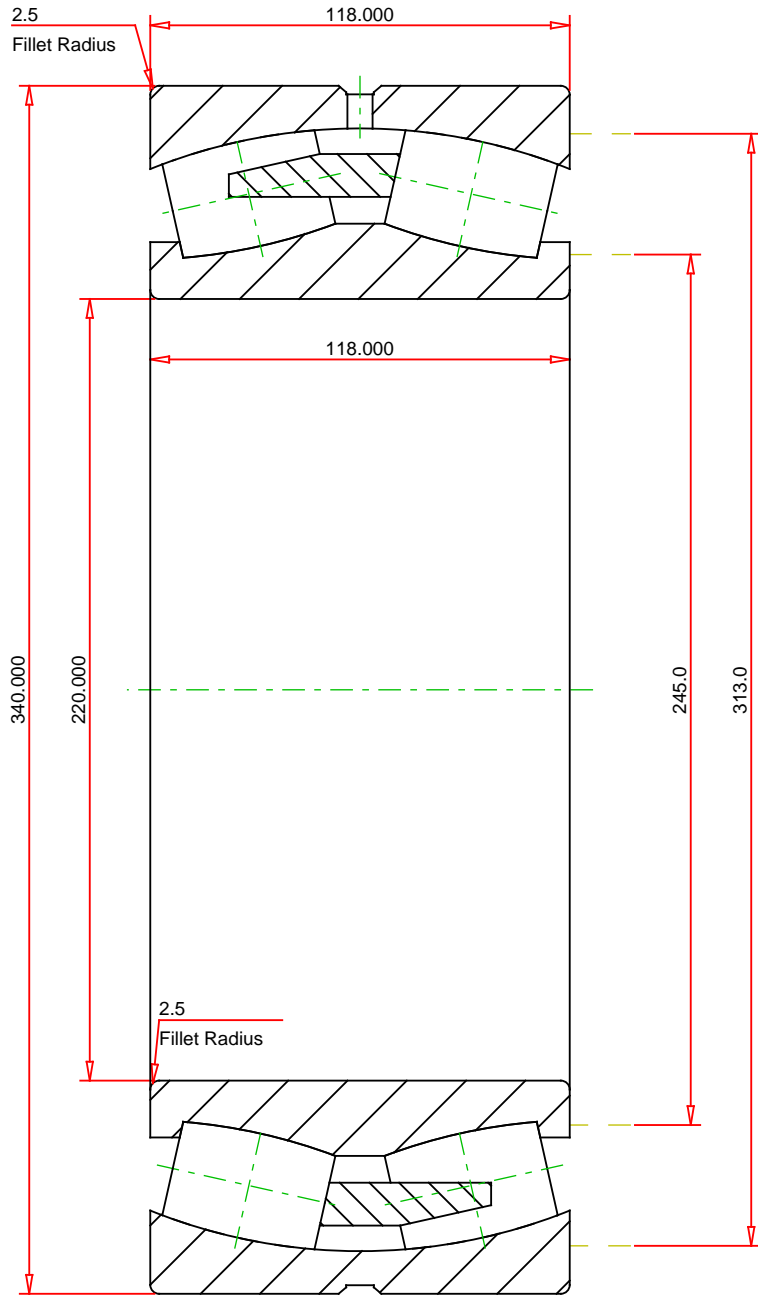
⁴ These factors apply for both inch and metric calculations. See engineering

⁵ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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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	25
ISO Factor e	0.32
ISO Factor Y0	2.09
ISO Factor Y1	2.14
ISO Factor Y2	3.18
Bearing Weight	39.3 kg
Cage Type	EMB
Cage Material	Brass



24044EMBW33C2
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	1720000	N
Static Radial Rating	2720000	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