


The Timken Company

4500 Mt Pleasant St. NW

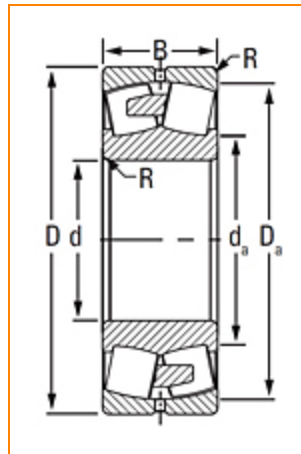
N. Canton, OH 44720

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Part Number 22332EMBW33C3, 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	160 mm
Cage Type	EMB
Cage Material	Brass
Superseded Part	22332YMBW33C3

Dimensions

D - Outer Diameter	340 mm 13.3858 in
 - Inner Ring Width	114 mm 4.4882 in

B - Outer Ring Width	114 mm 4.4882 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	207 mm 8.1000 in
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Da - Outer Ring Backing Diameter	306 mm 12.000 in
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Basic Load Ratings

C0 - Static Radial Rating	2110000 N 475000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	1800000 N 405000 lbf
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Factors

e - ISO Factor³	0.32
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Y0 - ISO Factor⁴	2.04
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Y1 - ISO Factor⁵	2.09
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Y2 - ISO Factor⁶	3.11
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Reference Thermal Speed Rating (Grease)	1300 rpm
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Reference Thermal Speed Rating (Oil)⁷	1500 rpm
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Cg - Geometry Factor⁸

0.0920

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.

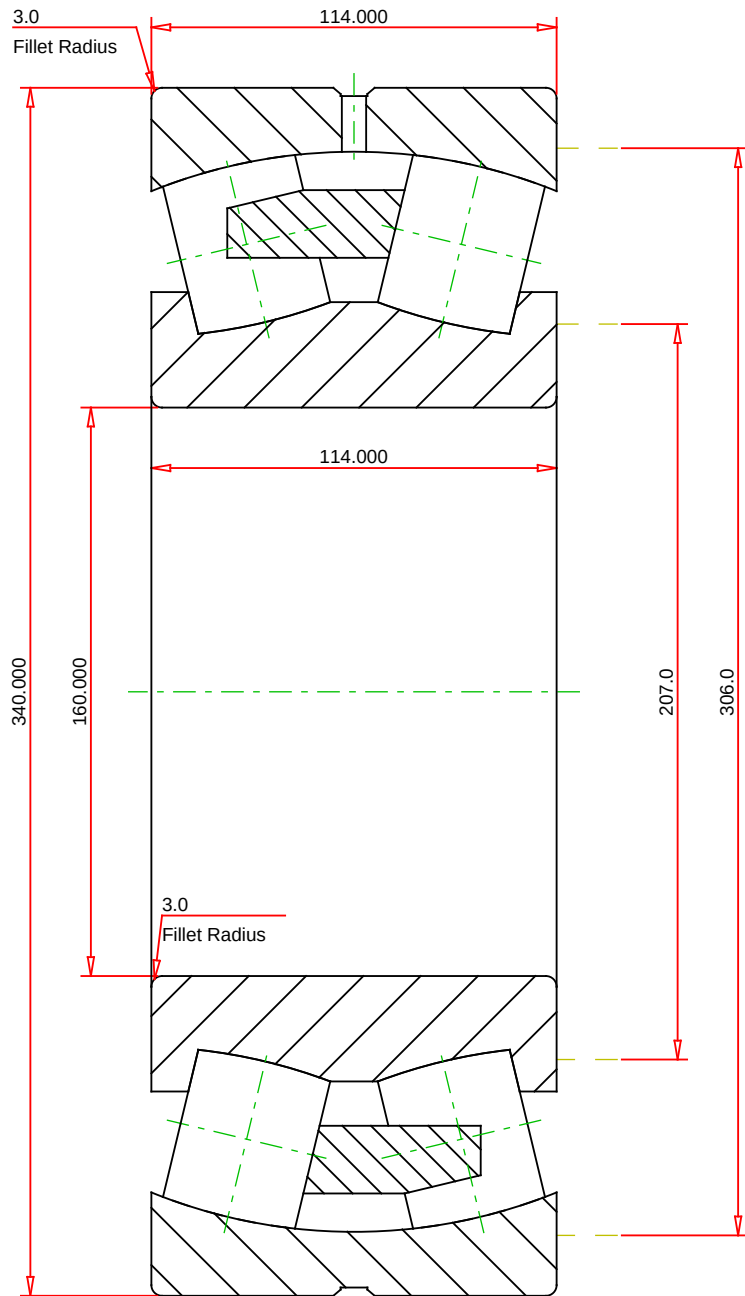
⁴ These factors apply for both inch and metric calculations. See engineering

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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	16	kg TIMKEN®	22332EMBW33C3		
ISO Factor e	0.32		SRB ASSEMBLY		
ISO Factor Y0	2.04				
ISO Factor Y1	2.09				
ISO Factor Y2	3.11				
Bearing Weight	51.0				
Cage Type	EMB				
Cage Material	Brass	THE TIMKEN COMPANY NORTH CANTON, OHIO USA	Dynamic Radial Rating (Two Rows)	1800000	N
			Static Radial Rating	2110000	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