


**The Timken Company**

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**Part Number 22334EMBW33C3, 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**

<b>Design Unit</b>	Metric
<b>d - Bore</b>	170 mm
<b>Cage Type</b>	EMB
<b>Cage Material</b>	Brass
<b>Superseded Part</b>	22334YMBW33C2

**Dimensions**

<b>D - Outer Diameter</b>	360 mm 14.1732 in
 <b>- Inner Ring Width</b>	120 mm 4.7244 in

<b>B - Outer Ring Width</b>	120 mm 4.7244 in
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## Abutment and Fillet Dimensions

<b>R - Inner Ring "To Clear" Radius<sup>1</sup></b>	3 mm 0.120 in
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<b>r - Outer Ring "To Clear" Radius<sup>2</sup></b>	3 mm 0.12 in
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<b>da - Inner Ring Backing Diameter</b>	219.000 mm 8.600 in
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<b>Da - Outer Ring Backing Diameter</b>	325 mm 12.8000 in
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## Basic Load Ratings

<b>C0 - Static Radial Rating</b>	2360000 N 530000 lbf
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<b>C1(2) - Dynamic Radial Rating (Two-Rows)</b>	2000000 N 450000 lbf
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## Factors

<b>e - ISO Factor<sup>3</sup></b>	0.32
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<b>Y0 - ISO Factor<sup>4</sup></b>	2.07
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<b>Y1 - ISO Factor<sup>5</sup></b>	2.11
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<b>Y2 - ISO Factor<sup>6</sup></b>	3.15
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<b>Reference Thermal Speed Rating (Grease)</b>	1200 rpm
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<b>Reference Thermal Speed Rating (Oil)<sup>7</sup></b>	1400 rpm
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<b>Cg - Geometry Factor<sup>8</sup></b>	0.0955
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<sup>1</sup> Maximum housing fillet radius that bearing corners will clear.

<sup>2</sup> Maximum shaft fillet radius that bearing corners will clear.

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

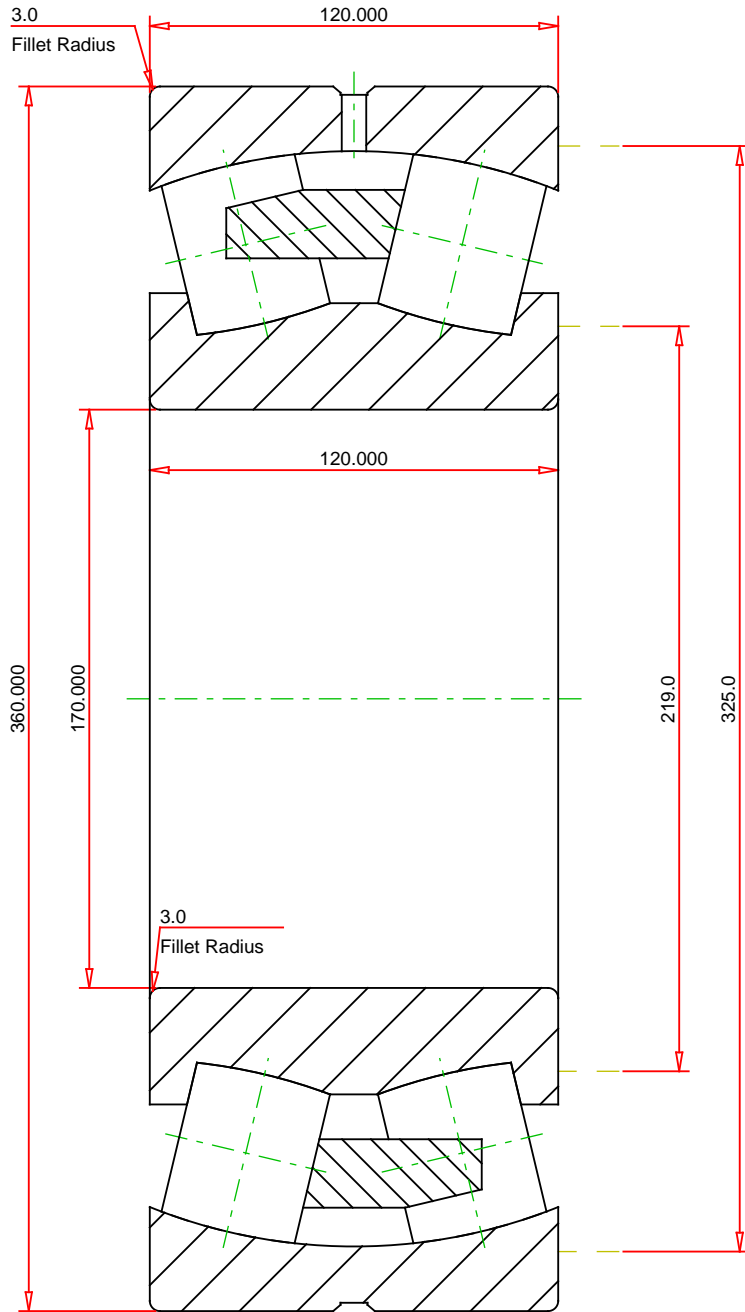
<sup>4</sup> These factors apply for both inch and metric calculations. See engineering

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

<sup>6</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>7</sup> See thermal speed ratings in the engineering section.

<sup>8</sup> Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row	16
ISO Factor e	0.32
ISO Factor Y0	2.07
ISO Factor Y1	2.11
ISO Factor Y2	3.15
Bearing Weight	kg
Cage Type	EMB
Cage Material	Brass

**TIMKEN**®

**22334EMBW33C3**  
SRB ASSEMBLY

**THE TIMKEN COMPANY**  
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	200000	N
Static Radial Rating	2360000	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**