


**The Timken Company**

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**Part Number 23926EMW33C3, 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**

<b>Design Unit</b>	Metric
<b>d - Bore</b>	130 mm
<b>Cage Type</b>	EM
<b>Cage Material</b>	Brass
<b>Superseded Part</b>	23926YMW33C3

**Dimensions**

<b>D - Outer Diameter</b>	180 mm 7.0866 in
 <b>- Inner Ring Width</b>	37 mm 1.4567 in

<b>B - Outer Ring Width</b>	37 mm 1.4567 in
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## Abutment and Fillet Dimensions

<b>R - Inner Ring "To Clear" Radius<sup>1</sup></b>	1 mm 0.040 in
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<b>r - Outer Ring "To Clear" Radius<sup>2</sup></b>	1 mm 0.04 in
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<b>da - Inner Ring Backing Diameter</b>	142 mm 5.6000 in
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<b>Da - Outer Ring Backing Diameter</b>	169.000 mm 6.7000 in
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## Basic Load Ratings

<b>C0 - Static Radial Rating</b>	453000 N 102000 lbf
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<b>C1(2) - Dynamic Radial Rating (Two-Rows)</b>	302000 N 67900 lbf
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## Factors

<b>e - ISO Factor<sup>3</sup></b>	0.18
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<b>Y0 - ISO Factor<sup>4</sup></b>	3.75
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<b>Y1 - ISO Factor<sup>5</sup></b>	3.83
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<b>Y2 - ISO Factor<sup>6</sup></b>	5.7
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<b>Reference Thermal Speed Rating (Grease)</b>	2400 rpm
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<b>Reference Thermal Speed Rating (Oil)<sup>7</sup></b>	300 rpm
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<b>Cg - Geometry Factor<sup>8</sup></b>	0.0758
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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.

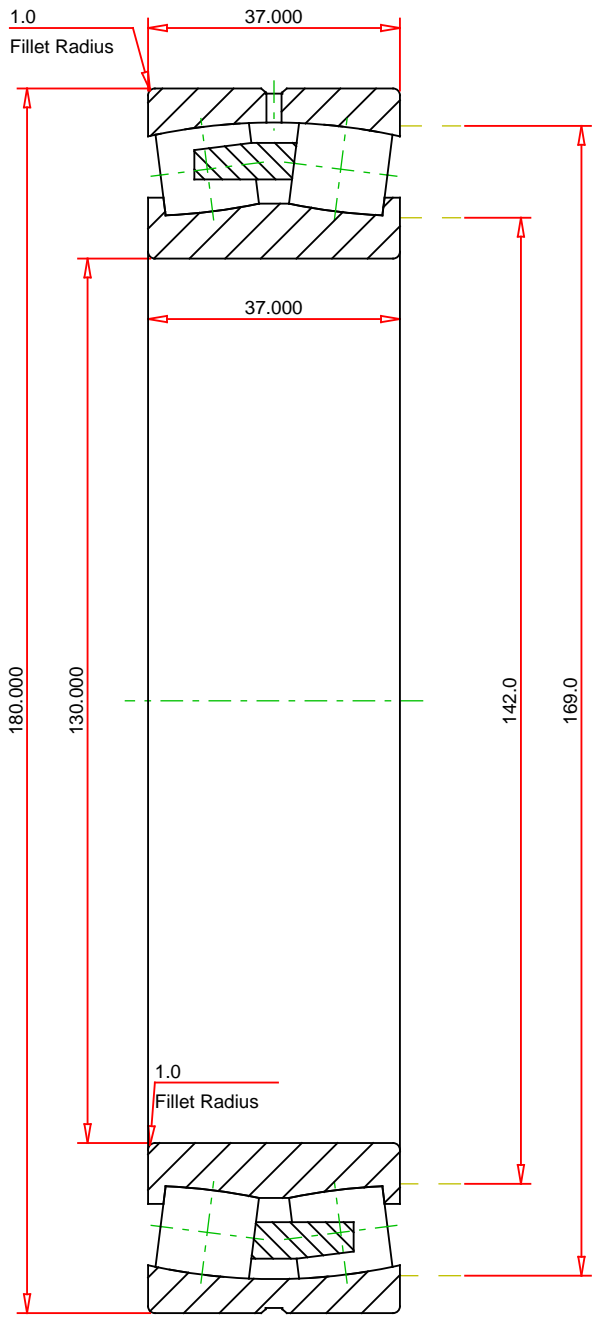
<sup>4</sup> These factors apply for both inch and metric calculations. See engineering

<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	31
ISO Factor e	0.18
ISO Factor Y0	3.75
ISO Factor Y1	3.83
ISO Factor Y2	5.70
Bearing Weight	2.8 kg
Cage Type	EM
Cage Material	Brass



23926EMW33C3  
SRB ASSEMBLY

THE TIMKEN COMPANY  
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	302000	N
Static Radial Rating	453000	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