


**The Timken Company**

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**Part Number 230/850YMBW45W805C6, 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>	850 mm
<b>Cage Type</b>	YMB
<b>Cage Material</b>	Brass

**Dimensions**

<b>D - Outer Diameter</b>	1220 mm 48.032 in
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<b>B' - Inner Ring Width</b>	295 mm 11.614 in
<b>B - Outer Ring Width</b>	295 mm 11.6140 in

## Abutment and Fillet Dimensions

<b>R - Inner Ring "To Clear" Radius<sup>1</sup></b>	6 mm 0.24 in
<b>r - Outer Ring "To Clear" Radius<sup>2</sup></b>	6 mm 0.24 in
<b>da - Inner Ring Backing Diameter</b>	938.000 mm 36.900 in
<b>Da - Outer Ring Backing Diameter</b>	1139.000 mm 44.800 in

## Basic Load Ratings

<b>C0 - Static Radial Rating</b>	23000000 N 5180000 lbf
<b>C1(2) - Dynamic Radial Rating (Two-Rows)</b>	11100000 N 2500000 lbf

## Factors

<b>e - ISO Factor<sup>3</sup></b>	0.2
<b>Y0 - ISO Factor<sup>4</sup></b>	3.3
<b>Y1 - ISO Factor<sup>5</sup></b>	3.37
<b>Y2 - ISO Factor<sup>6</sup></b>	5.02
<b>Reference Thermal Speed Rating (Grease)</b>	250 rpm

<b>Reference Thermal Speed Rating (Oil)<sup>7</sup></b>	280 rpm
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<b>C<sub>g</sub> - Geometry Factor<sup>8</sup></b>	0.1384
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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.

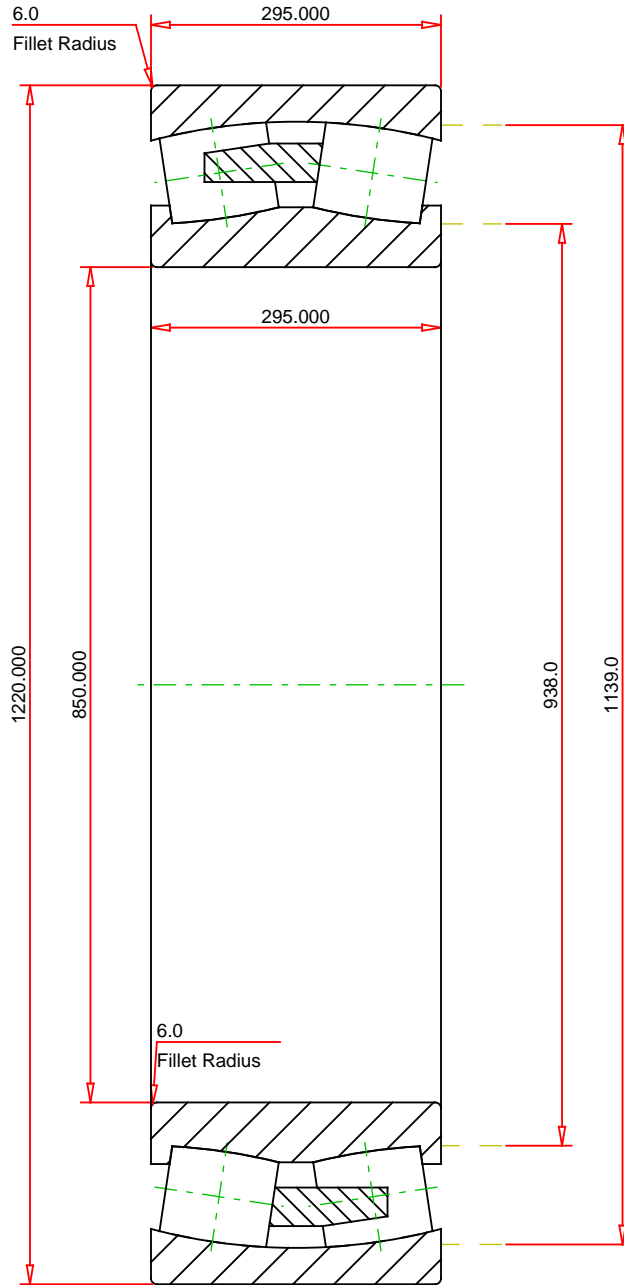
<sup>4</sup> These factors apply for both inch and metric calculations. See engineering

<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 a<sub>3l</sub>.



METRIC UNITS

Number of Rollers Per Row	30
ISO Factor e	0.20
ISO Factor Y0	3.30
ISO Factor Y1	3.37
ISO Factor Y2	5.02
Bearing Weight	1048.0 kg
Cage Type	YMB
Cage Material	Brass

**TIMKEN**®

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

<b>230/850YMBW45W805C6</b> SRB ASSEMBLY		
Dynamic Radial Rating (Two Rows)	11100000	N
Static Radial Rating	23000000	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**