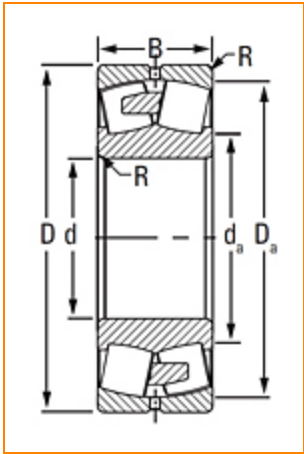




The Timken Company
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Part Number 22317EMW33W800C4, Spherical Roller Bearings - Brass Cage

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	
Design Unit	Metric
d - Bore	85 mm
Cage Type	EM
Cage Material	Brass
Superseded Part	22317YMW33W800C4

Dimensions	
D - Outer Diameter	179.993 mm 7.0863 in
 - Inner Ring Width	60 mm 2.3622 in

B - Outer Ring Width

60 mm
2.3622 in

Abutment and Fillet Dimensions**R - Inner Ring "To Clear" Radius¹**

2.5 mm
0.100 in

r - Outer Ring "To Clear" Radius²

2.5 mm
0.1 in

da - Inner Ring Backing Diameter

110.000 mm
4.3000 in

Da - Outer Ring Backing Diameter

162.000 mm
6.400 in

Basic Load Ratings**C0 - Static Radial Rating**

584000 N
131000 lbf

C1(2) - Dynamic Radial Rating (Two-Rows)

543000 N
122000 lbf

Factors**e - ISO Factor³**

0.32

Y0 - ISO Factor⁴

2.06

Y1 - ISO Factor⁵

2.11

Y2 - ISO Factor⁶

3.14

Reference Thermal Speed Rating (Grease)

3000 rpm

Reference Thermal Speed Rating (Oil)⁷	3500 rpm
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Cg - Geometry Factor⁸	0.0662
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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.

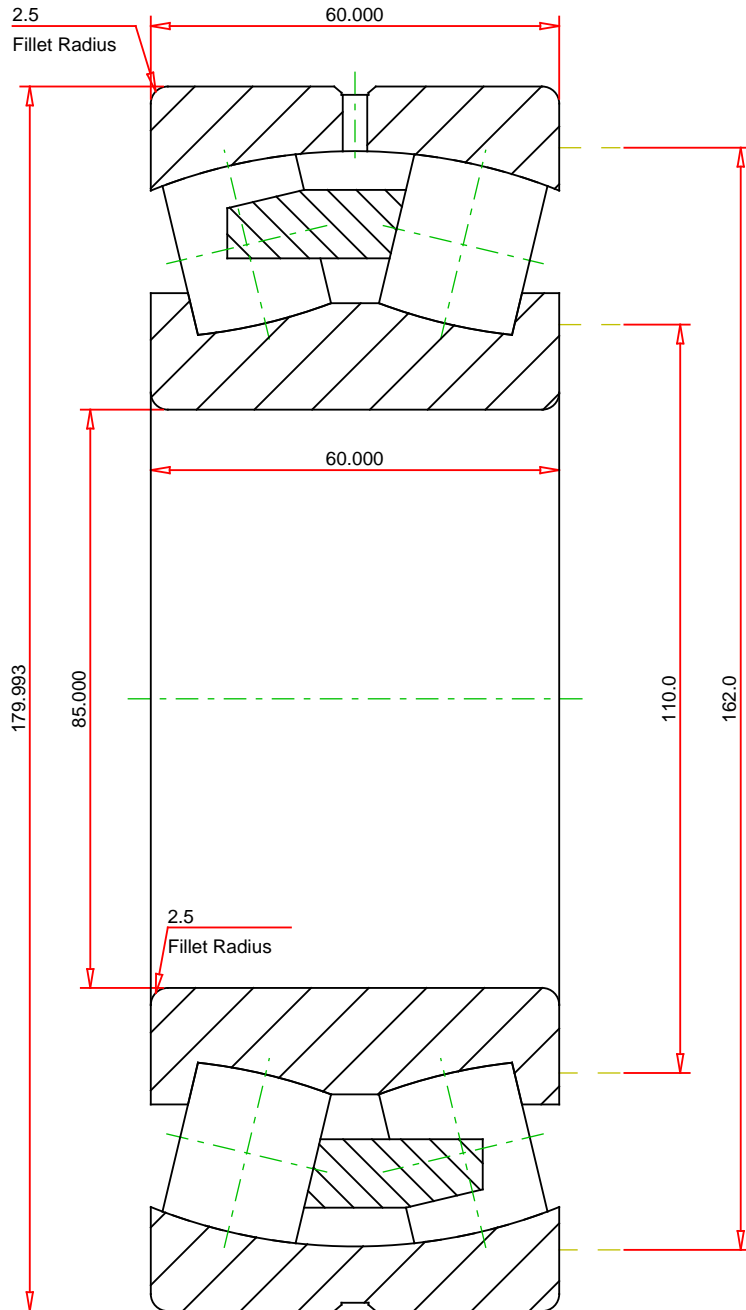
⁴ These factors apply for both inch and metric calculations. See engineering

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

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

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	16
ISO Factor e	0.32
ISO Factor Y0	2.06
ISO Factor Y1	2.11
ISO Factor Y2	3.14
Bearing Weight	7.5 kg
Cage Type	EM
Cage Material	Brass

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22317EMW33W800C4
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	543000	N
Static Radial Rating	584000	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