


The Timken Company

4500 Mt Pleasant St. NW

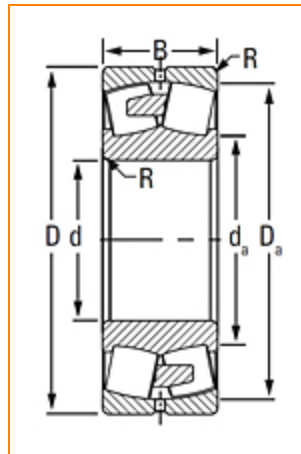
N. Canton, OH 44720

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Part Number 22330EMBW33W800C4, 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	150 mm
Cage Type	EMB
Cage Material	Brass
Superseded Part	22330YMBW33W800C4

Dimensions

D - Outer Diameter	319.993 mm 12.5981 in
 - Inner Ring Width	108 mm 4.252 in

B - Outer Ring Width	108 mm 4.2520 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	3 mm 0.120 in
r - Outer Ring "To Clear" Radius²	3 mm 0.12 in
da - Inner Ring Backing Diameter	194 mm 7.6000 in
Da - Outer Ring Backing Diameter	288 mm 11.3000 in

Basic Load Ratings

C0 - Static Radial Rating	1890000 N 424000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1620000 N 365000 lbf

Factors

e - ISO Factor³	0.33
Y0 - ISO Factor⁴	2.03
Y1 - ISO Factor⁵	2.08
Y2 - ISO Factor⁶	3.09
Reference Thermal Speed Rating (Grease)	1500 rpm
Reference Thermal Speed Rating (Oil)⁷	1600 rpm

Cg - Geometry Factor⁸

0.0884

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.

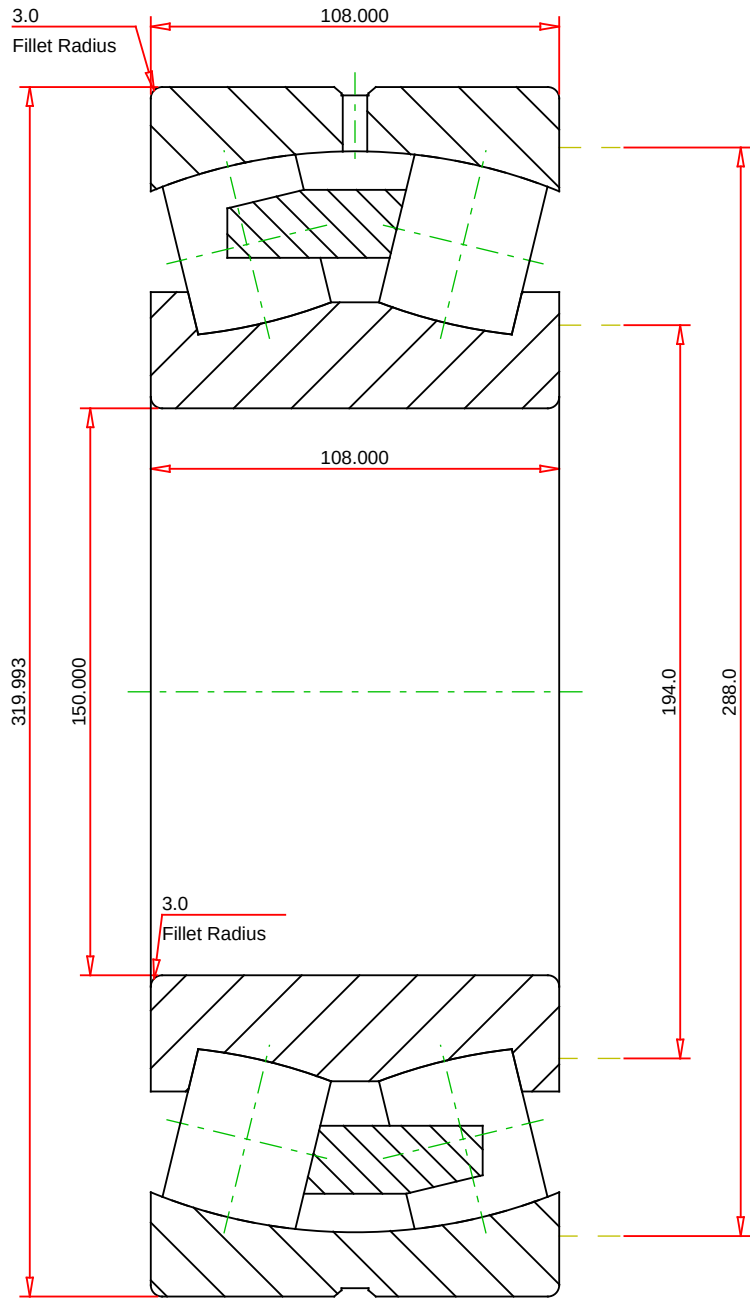
⁴ These factors apply for both inch and metric calculations. See engineering

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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	15
ISO Factor e	0.33
ISO Factor Y0	2.03
ISO Factor Y1	2.08
ISO Factor Y2	3.09
Bearing Weight	43.0 kg
Cage Type	EMB
Cage Material	Brass



THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22330EMBW33W800C4
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	1620000	N
Static Radial Rating	1890000	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