


The Timken Company

4500 Mt Pleasant St. NW

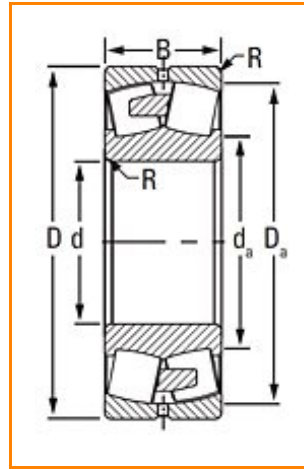
N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Timken Part Number 22332EMBW33W800C4, 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
Bearing Weight	51.00 Kg 112.20 lb
Cage Type	EMB
UPC Code	87796262645
Cage Material	BRASS
Superseded Part	22332YMBW33W800C4

Dimensions

d - Bore	160.000 mm 6.2992 in
-----------------	-------------------------

D - Outer Diameter	339.993 mm 13.3856 in
---------------------------	--------------------------

B' - Inner Ring Width	114 mm 4.4882 in
------------------------------	---------------------

B - Outer Ring Width	114.000 mm 4.4882 in
-----------------------------	-------------------------

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	3.000 mm 0.120 in
---	----------------------

r - Outer Ring "To Clear" Radius²	3.000 mm 0.120 in
---	----------------------

da - Inner Ring Backing Diameter	207.000 mm 8.100 in
---	------------------------

Da - Outer Ring Backing Diameter	306.000 mm 12.000 in
---	-------------------------

Basic Load Ratings

C0 - Static Radial Rating	2110000 N 475000 lbf
----------------------------------	-------------------------

C1(2) - Dynamic Radial Rating (Two-Rows)	1800000 N 405000 lbf
---	-------------------------

Factors

e - ISO Factor³	0.32
-----------------------------------	------

Y0 - ISO Factor⁴	2.09
------------------------------------	------

Y1 - ISO Factor⁵	3.11
Y2 - ISO Factor⁶	2.04
Reference Thermal Speed Rating (Grease)	1300
Reference Thermal Speed Rating (Oil)⁷	1500
Cg - Geometry Factor⁸	0.092

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.

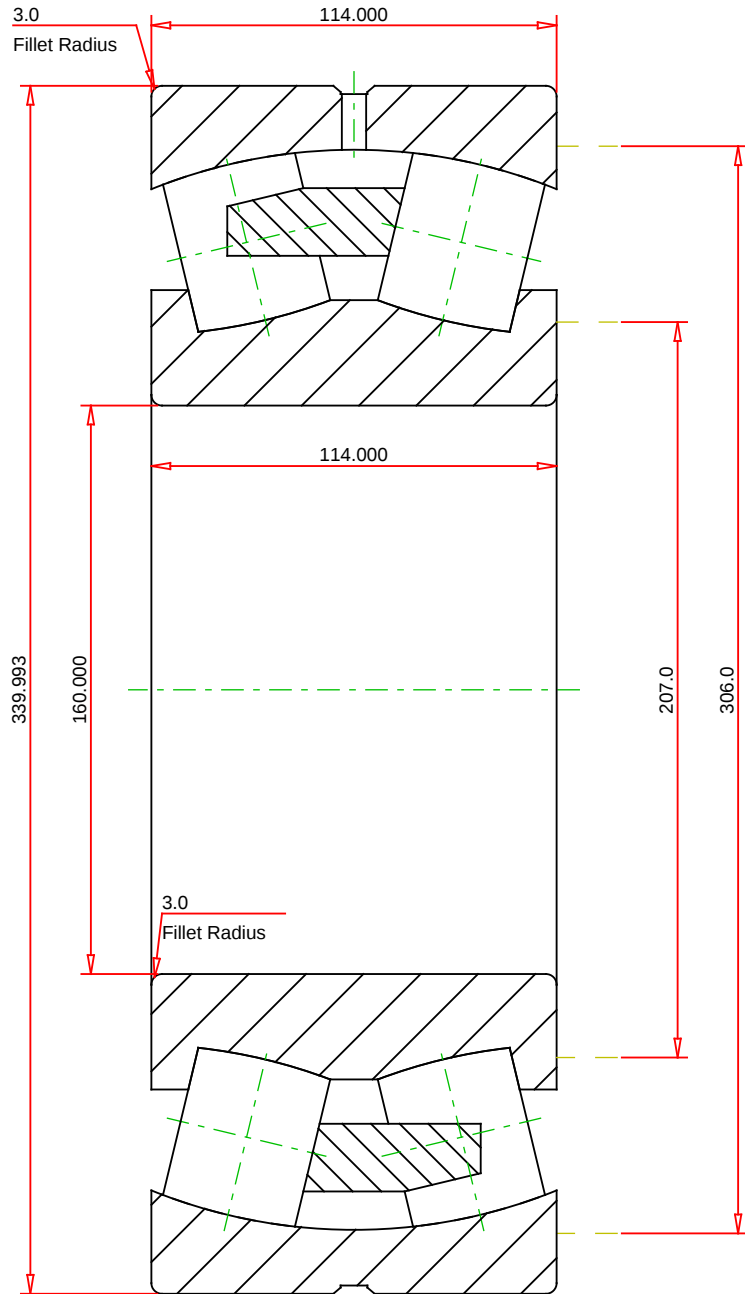
⁴ These factors apply for both inch and metric calculations. See engineering

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 Row16 ISO Factor e0.32 ISO Factor Y02.09 ISO Factor Y13.11 ISO Factor Y22.04 Bearing Weight51.0 Cage TypeEMB Cage MaterialBRASS kg	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	22332EMBW33W800C4 SRB ASSEMBLY Dynamic Radial Rating (Two Rows)1800000 Static Radial Rating2110000 N N
---	---	--