


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
Part Number 23068KEMBW507C08C3, 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	340.000 mm
Bore_Taper	1/12
Cage Type	EMB
Cage Material	Brass
Superseded Part	23068KYMBW507C08C3

Dimensions

D - Outer Diameter

 520 mm
 20.472 in

B' - Inner Ring Width	133 mm 5.236 in
------------------------------	--------------------

B - Outer Ring Width	133 mm 5.2360 in
-----------------------------	---------------------

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	4 mm 0.160 in
---	------------------

r - Outer Ring "To Clear" Radius²	4 mm 0.16 in
---	-----------------

da - Inner Ring Backing Diameter	381.000 mm 15.000 in
---	-------------------------

Da - Outer Ring Backing Diameter	481.000 mm 18.9000 in
---	--------------------------

Basic Load Ratings

C0 - Static Radial Rating	4630000 N 1040000 lbf
----------------------------------	--------------------------

C1(2) - Dynamic Radial Rating (Two-Rows)	2890000 N 650000 lbf
---	-------------------------

Factors

e - ISO Factor³	0.23
-----------------------------------	------

Y0 - ISO Factor⁴	2.89
------------------------------------	------

Y1 - ISO Factor⁵	2.96
------------------------------------	------

Y2 - ISO Factor⁶	4.4
------------------------------------	-----

Reference Thermal Speed Rating (Grease)	800 rpm
--	---------

Reference Thermal Speed Rating (Oil)⁷	930 rpm
---	---------

Cg - Geometry Factor⁸	0.135
---	-------

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.

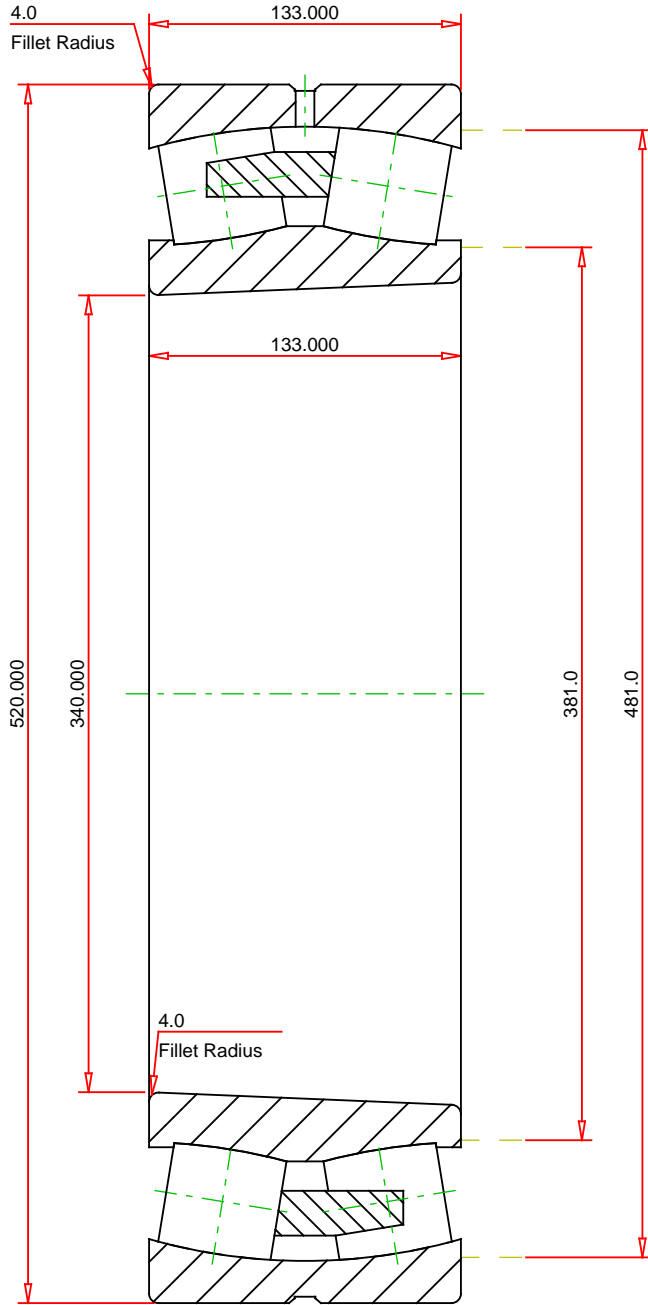
⁴ These factors apply for both inch and metric calculations. See engineering

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	26
ISO Factor e	0.23
ISO Factor Y0	2.89
ISO Factor Y1	2.96
ISO Factor Y2	4.40
Bearing Weight	102.7 kg
Cage Type	EMB
Cage Material	Brass
Bore Taper	1/12

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

23068KEMBW507C08C3	
SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	2890000 N
Static Radial Rating	4630000 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