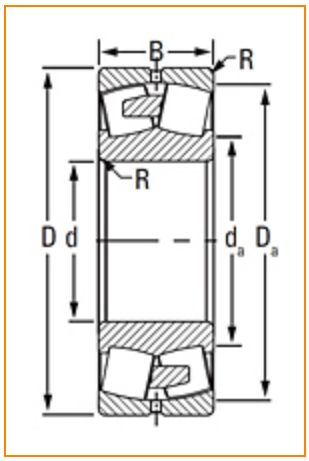
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 23072KEMBW507C08C3, 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	360.000 mm
Bore_Taper	1/12
Cage Type	EMB
Cage Material	Brass
Superseded Part	23072KYMBW507C08C3

Dimensions

D - Outer Diameter	540 mm 21.2600 in

B' - Inner Ring Width	134 mm 5.276 in
B - Outer Ring Width	134 mm 5.2760 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[1]	4 mm 0.160 in
r - Outer Ring "To Clear" Radius[2]	4 mm 0.16 in
da - Inner Ring Backing Diameter	400 mm 15.7000 in
Da - Outer Ring Backing Diameter	499.000 mm 19.700 in

Basic Load Ratings

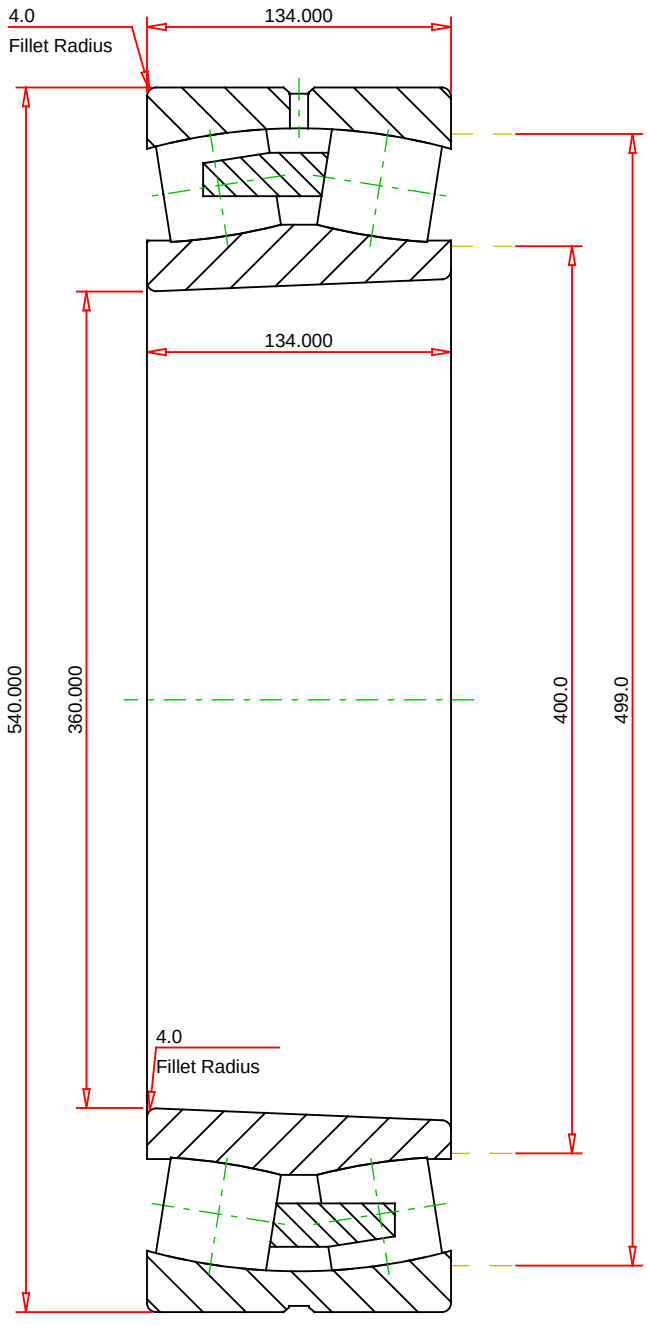
C0 - Static Radial Rating	4610000 N 1040000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	2840000 N 638000 lbf

Factors

e - ISO Factor[3]	0.23
Y0 - ISO Factor[4]	2.88
Y1 - ISO Factor[5]	2.94
Y2 - ISO Factor[6]	4.38
Reference Thermal Speed Rating (Grease)	770 rpm

Reference Thermal Speed Rating (Oil)[7]	900 rpm
Cg - Geometry Factor[8]	0.1391

[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	27	
ISO Factor e	0.23	
ISO Factor Y0	2.88	
ISO Factor Y1	2.94	
ISO Factor Y2	4.38	
Bearing Weight	108.3	kg
Cage Type	EMB	
Cage Material	Brass	
Bore Taper	1/12	

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

23072KEMBW507C08C3
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	2840000	N
Static Radial Rating	4610000	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