

TIMKEN**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 23060EMBW507C08C3, 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.



[Key Dimensions](#) | [Dimensions](#) | [Basic Load Ratings](#) | [Key Dimensions](#) | [Factors](#)

Key Dimensions

Design Unit	Metric
Bore (d)	300 mm
O.D. (D)	460 mm 18.1100 in
B' - Inner Ring Width	118 mm 4.646 in
B - Outer Ring Width	118 mm 4.6460 in
Dynamic Radial Load Rating - 1M Revs (C1)	3570000 N 803000 lbf
e Factor¹	0.24



Dimensions

R - Inner Ring "To Clear" Radius²	3 mm 0.120 in
r - Outer Ring "To Clear" Radius³	3 mm 0.12 in
Shaft Backing Shoulder Diameter	334.000 mm 13.100 in
Housing Backing Shoulder Diameter	425.000 mm 16.8000 in

Basic Load Ratings

Static Radial Load Rating (C₀)	2330000 N 525000 lbf
Thermal Reference Speed - Grease	960 rpm
Thermal Reference Speed - Oil⁴	1100 rpm

Key Dimensions

Y₀ Factor⁵	2.8
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Factors

Y₁ Factor⁶	2.87
Y₂ Factor⁷	4.27
Geometry Factor (C_g)⁸	0.1231

¹ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

² Maximum housing fillet radius that bearing corners will clear.

³ Maximum shaft fillet radius that bearing corners will clear.

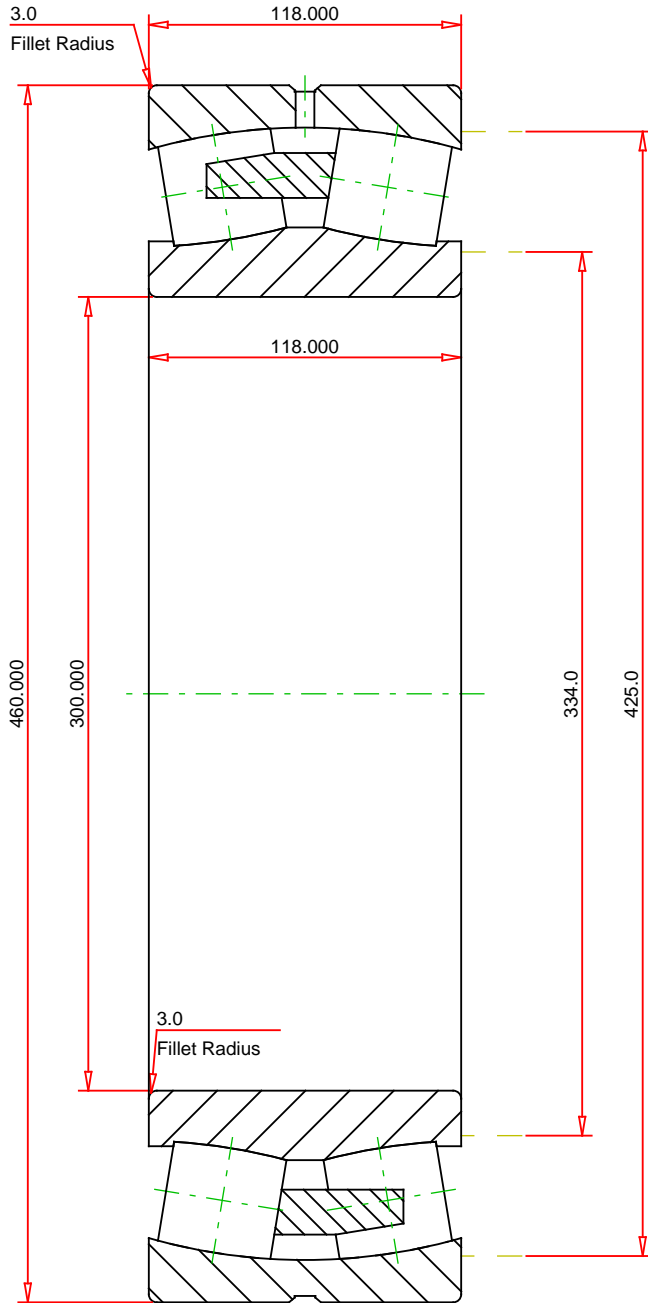
⁴ See thermal speed ratings in the engineering section.

⁵ These factors apply for both inch and metric calculations. See engineering

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

⁷ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁸ Geometry constant for Lubrication Life Adjustment Factor a_3 .



METRIC UNITS

Number of Rollers Per Row	25
ISO Factor e	0.24
ISO Factor Y0	2.80
ISO Factor Y1	2.87
ISO Factor Y2	4.27
Bearing Weight	71.2 kg
Cage Type	EMB
Cage Material	Brass

TIMKEN®

23060EMBW507C08C3
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	2330000	N
Static Radial Rating	3570000	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