


The Timken Company

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Part Number 23960EMBW507C08, 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	300 mm
Cage Type	EMB
Cage Material	Brass
Superseded Part	23960YMBW507C08

Dimensions

D - Outer Diameter	420 mm 16.535 in
 - Inner Ring Width	90 mm 3.543 in

B - Outer Ring Width	90 mm 3.543 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	2.5 mm 0.100 in
r - Outer Ring "To Clear" Radius²	2.5 mm 0.1 in
da - Inner Ring Backing Diameter	328.000 mm 12.900 in
Da - Outer Ring Backing Diameter	394.000 mm 15.500 in

Basic Load Ratings

C0 - Static Radial Rating	2630000 N 592000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1570000 N 352000 lbf

Factors

e - ISO Factor³	0.19
Y0 - ISO Factor⁴	3.51
Y1 - ISO Factor⁵	3.59
Y2 - ISO Factor⁶	5.34
Reference Thermal Speed Rating (Grease)	970 rpm

Reference Thermal Speed Rating (Oil)⁷	1200 rpm
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C_g - Geometry Factor⁸	0.1211
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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.

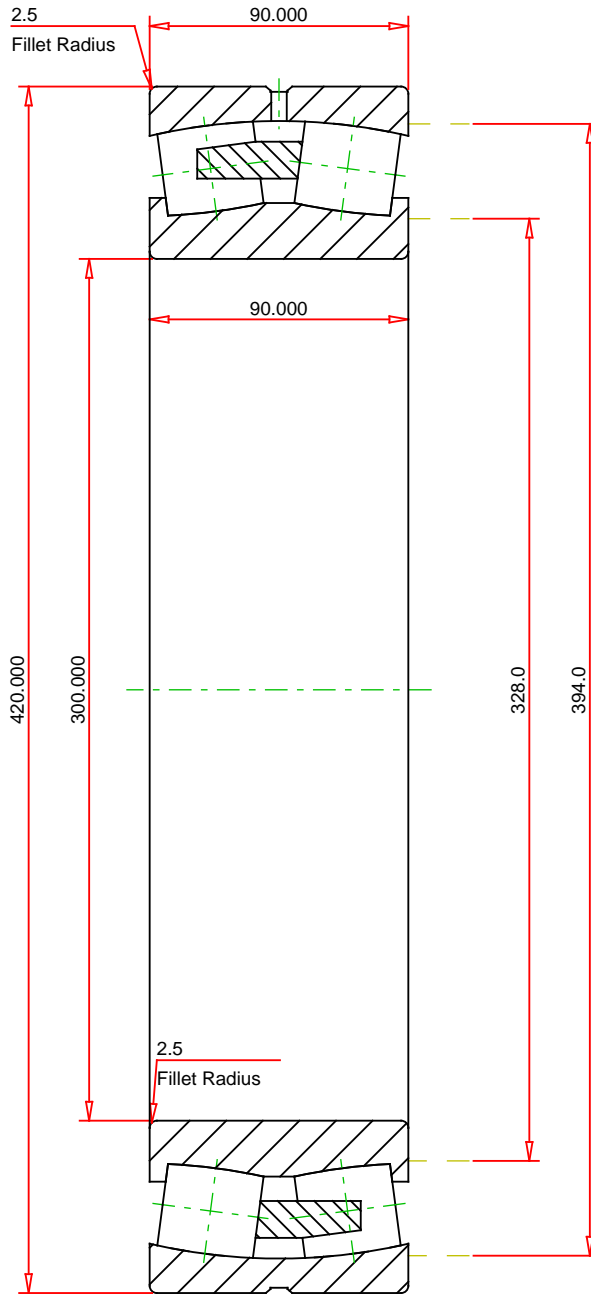
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row	32
ISO Factor e	0.19
ISO Factor Y0	3.51
ISO Factor Y1	3.59
ISO Factor Y2	5.34
Bearing Weight	38.4 kg
Cage Type	EMB
Cage Material	Brass



23960EMBW507C08
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	1570000	N
Static Radial Rating	2630000	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