


The Timken Company

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Part Number 230/560YMBW507C08, 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	560 mm
Cage Type	YMB
Cage Material	Brass

Dimensions

D - Outer Diameter	820 mm 32.2840 in
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B' - Inner Ring Width 195 mm
7.677 in

B - Outer Ring Width 195 mm
7.6770 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹ 5 mm
0.200 in

r - Outer Ring "To Clear" Radius² 5 mm
0.2 in

da - Inner Ring Backing Diameter 619.000 mm
24.400 in

Da - Outer Ring Backing Diameter 764.000 mm
30.1000 in

Basic Load Ratings

C0 - Static Radial Rating 10800000 N
2430000 lbf

C1(2) - Dynamic Radial Rating (Two-Rows) 5690000 N
1280000 lbf

Factors

e - ISO Factor³ 0.22

Y0 - ISO Factor⁴ 3.07

Y1 - ISO Factor⁵ 3.14

Y2 - ISO Factor⁶ 4.67

Reference Thermal Speed Rating (Grease) 430 rpm

Reference Thermal Speed Rating (Oil)⁷	490 rpm
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C_g - Geometry Factor⁸	0.1119
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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.

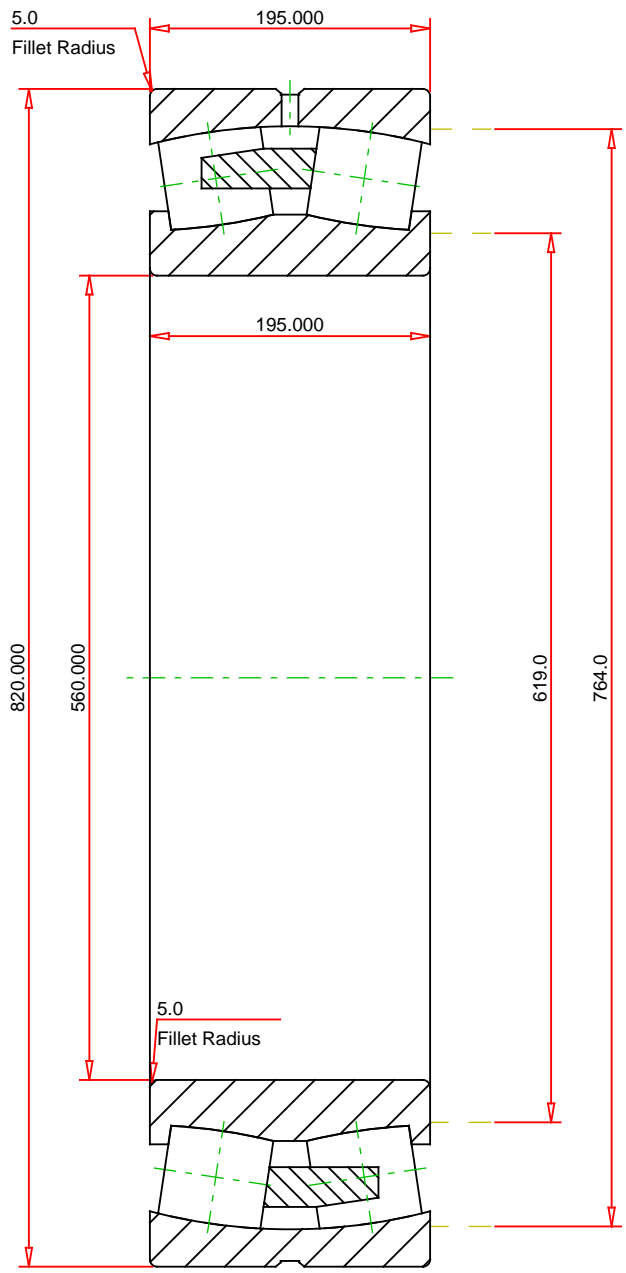
⁴ These factors apply for both inch and metric calculations. See engineering

⁵ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a_{3l}.



METRIC UNITS

Number of Rollers Per Row	28
ISO Factor e	0.22
ISO Factor Y0	3.07
ISO Factor Y1	3.14
ISO Factor Y2	4.67
Bearing Weight	349.1 kg
Cage Type	YMB
Cage Material	Brass

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

230/560YMBW507C08 SRB ASSEMBLY		
Dynamic Radial Rating (Two Rows)	5690000	N
Static Radial Rating	10800000	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