


The Timken Company

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Part Number 23172KEMBW507C08, 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Superseded Part	23172KYMBW507C08

Dimensions

D - Outer Diameter

 600 mm
 23.6220 in

B' - Inner Ring Width	192 mm 7.559 in
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B - Outer Ring Width	192 mm 7.5590 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	4 mm 0.160 in
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r - Outer Ring "To Clear" Radius²	4 mm 0.16 in
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da - Inner Ring Backing Diameter	416 mm 16.4000 in
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Da - Outer Ring Backing Diameter	546.000 mm 21.500 in
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Basic Load Ratings

C0 - Static Radial Rating	7300000 N 1640000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	4660000 N 1050000 lbf
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Factors

e - ISO Factor³	0.29
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Y0 - ISO Factor⁴	2.24
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Y1 - ISO Factor⁵	2.29
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Y2 - ISO Factor⁶	3.42
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Reference Thermal Speed Rating (Grease)	530 rpm
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Reference Thermal Speed Rating (Oil)⁷	590 rpm
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C_g - Geometry Factor⁸	0.1427
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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.

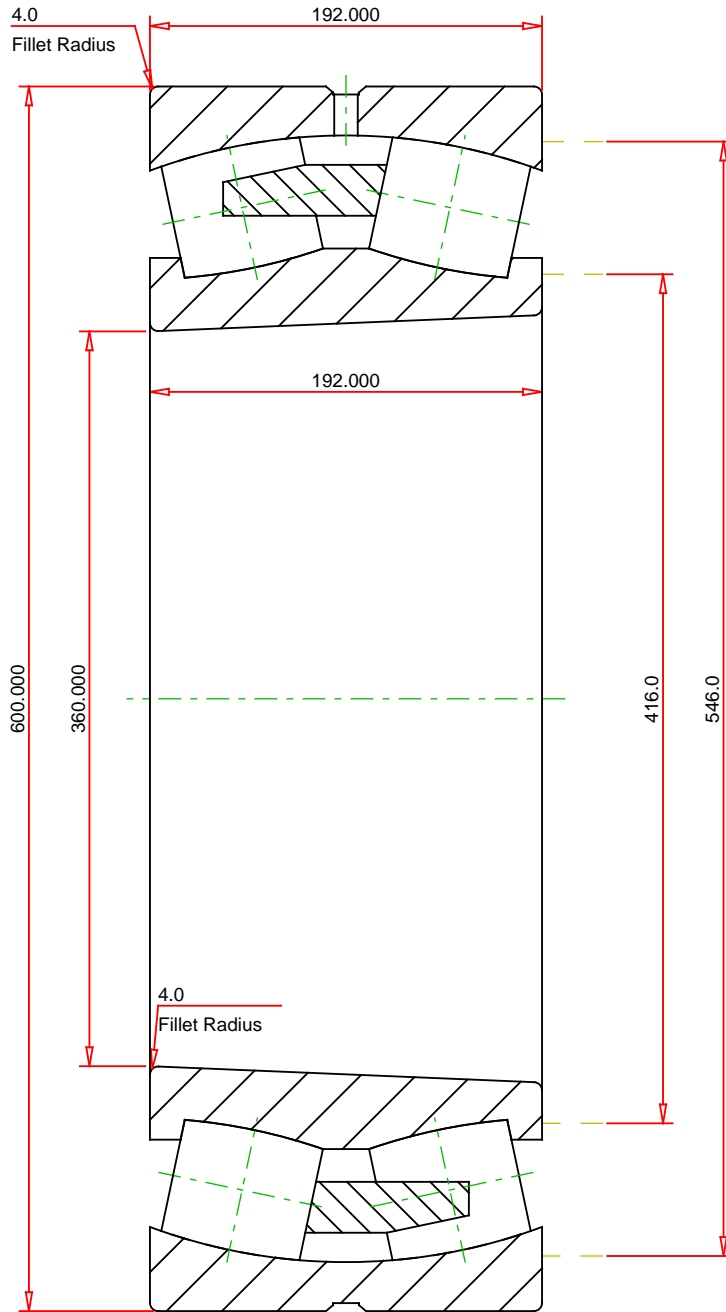
⁴ These factors apply for both inch and metric calculations. See engineering

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

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 a_{3l}.



METRIC UNITS

Number of Rollers Per Row	22
ISO Factor e	0.29
ISO Factor Y0	2.24
ISO Factor Y1	2.29
ISO Factor Y2	3.42
Bearing Weight	222.1 kg
Cage Type	EMB
Cage Material	Brass
Bore Taper	1/12

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

23172KEMBW507C08
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	4660000	N
Static Radial Rating	7300000	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