


The Timken Company

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Part Number 23136EMW507C08, 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	180 mm
Cage Type	EM
Cage Material	Brass
Superseded Part	23136YMW507C08

Dimensions

D - Outer Diameter	300 mm 11.811 in
 d - Inner Ring Width	96 mm 3.7795 in

B - Outer Ring Width	96 mm 3.7795 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	2.5 mm 0.100 in
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r - Outer Ring "To Clear" Radius²	2.5 mm 0.1 in
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da - Inner Ring Backing Diameter	208 mm 8.2000 in
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Da - Outer Ring Backing Diameter	275 mm 10.8000 in
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Basic Load Ratings

C0 - Static Radial Rating	2000000 N 449000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	1410000 N 317000 lbf
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Factors

e - ISO Factor³	0.29
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Y0 - ISO Factor⁴	2.27
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Y1 - ISO Factor⁵	2.32
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Y2 - ISO Factor⁶	3.45
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Reference Thermal Speed Rating (Grease)	1300 rpm
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Reference Thermal Speed Rating (Oil)⁷	1500 rpm
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Cg - Geometry Factor⁸	0.0987
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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.

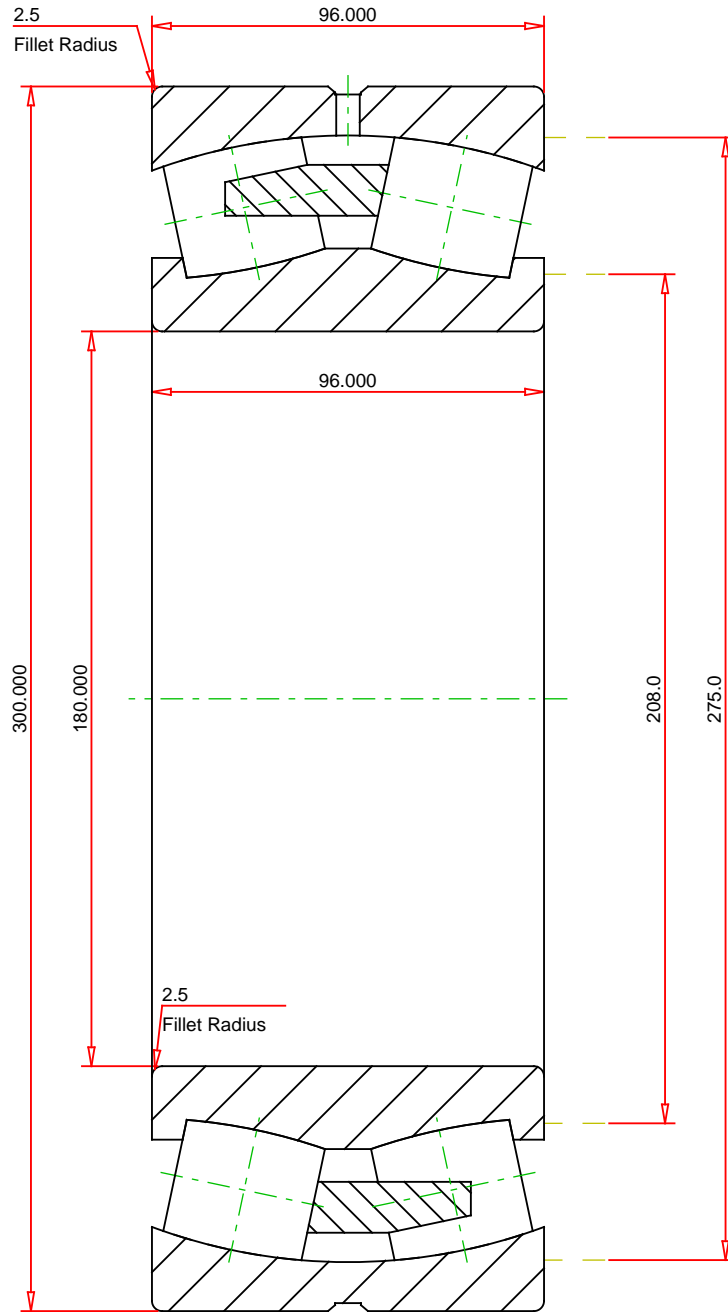
⁴ These factors apply for both inch and metric calculations. See engineering

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 a3l.



METRIC UNITS

Number of Rollers Per Row	22
ISO Factor e	0.29
ISO Factor Y0	2.27
ISO Factor Y1	2.32
ISO Factor Y2	3.45
Bearing Weight	27.6 kg
Cage Type	EM
Cage Material	Brass

TIMKEN®

23136EMW507C08
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	1410000	N
Static Radial Rating	2000000	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.

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