



The Timken Company

4500 Mt Pleasant St. NW

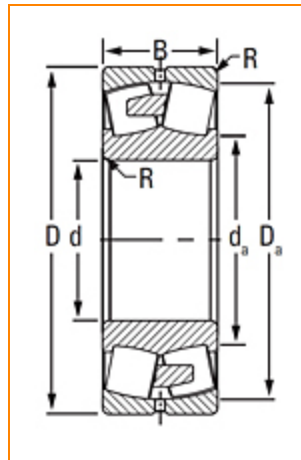
N. Canton, OH 44720

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Part Number 230/710KYMBW507C08C3, 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
Bore Taper	1/12
Bearing Weight	658.800 Kg 1449.40 lb
Cage Type	YMB
UPC Code	087796199958
Cage Material	Brass

Dimensions

d - Bore	710.000 mm 27.9530 in
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D - Outer Diameter	1030.000 mm 40.5510 in
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B' - Inner Ring Width	236 mm 9.291 in
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B - Outer Ring Width	236.000 mm 9.2910 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	6.000 mm 0.240 in
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r - Outer Ring "To Clear" Radius²	6.000 mm 0.240 in
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da - Inner Ring Backing Diameter	785.000 mm 30.900 in
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Da - Outer Ring Backing Diameter	960.000 mm 37.800 in
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Basic Load Ratings

C0 - Static Radial Rating	16700000 N 3750000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	8370000 N 1880000 lbf
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Factors

e - ISO Factor³	0.21
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Y0 - ISO Factor⁴	3.19
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Y1 - ISO Factor⁵	3.26
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Y2 - ISO Factor⁶	4.86
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Reference Thermal Speed Rating (Grease)	310
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Reference Thermal Speed Rating (Oil) ⁷	350
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Cg - Geometry Factor ⁸	0.13
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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.

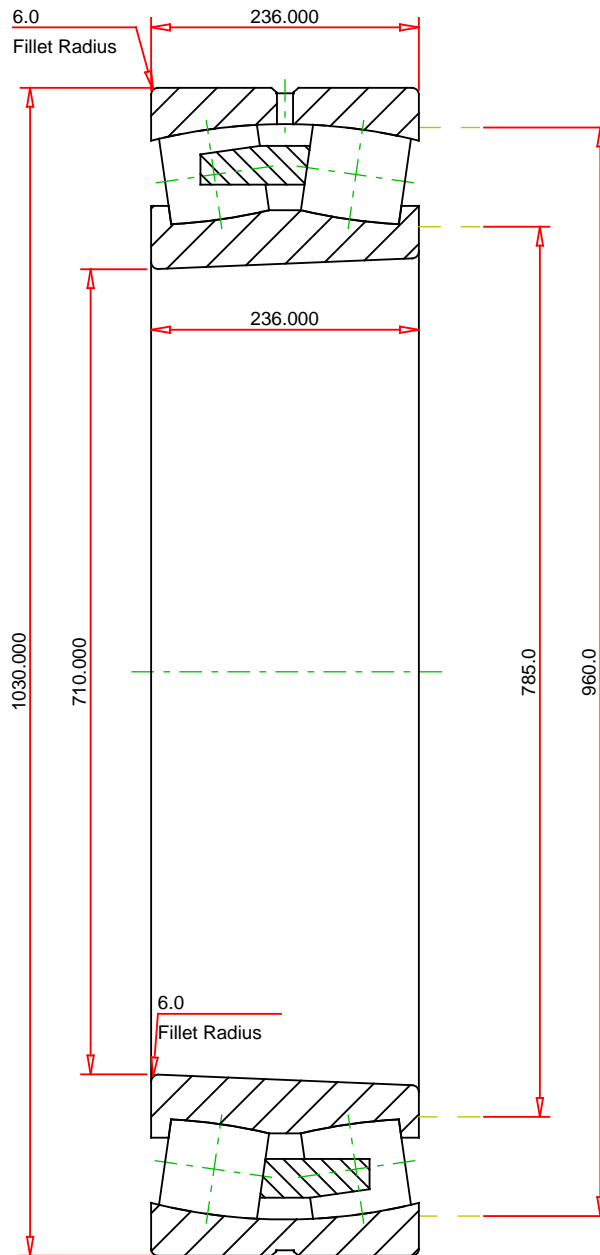
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

<div><div>Number of Rollers Per Row29</div><div>ISO Factor e0.21</div><div>ISO Factor Y03.19</div><div>ISO Factor Y13.26</div><div>ISO Factor Y24.86</div><div>Bearing Weight658.8 kg</div><div>Cage TypeYMB</div><div>Cage MaterialBrass</div><div>Bore Taper1/12</div></div>	<div><div>TIMKEN®</div><div>THE TIMKEN COMPANY</div><div>NORTH CANTON, OHIO USA</div></div>	<div><div>230/710KYMBW507C08C3</div><div>SRB ASSEMBLY</div></div> <div><div>Dynamic Radial Rating (Two Rows)8370000 N</div><div>Static Radial Rating16700000 N</div></div>
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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