


The Timken Company

4500 Mt Pleasant St. NW

N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com
Part Number 239/750YMBW509C08, 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	750 mm
Cage Type	YMB
Cage Material	Brass

Dimensions

D - Outer Diameter	1000 mm 39.3700 in
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B' - Inner Ring Width	185 mm 7.284 in
B - Outer Ring Width	185 mm 7.2840 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	813.000 mm 32.000 in
Da - Outer Ring Backing Diameter	946.000 mm 37.300 in

Basic Load Ratings

C0 - Static Radial Rating	13400000 N 3000000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	6010000 N 1350000 lbf

Factors

e - ISO Factor³	0.16
Y0 - ISO Factor⁴	4.14
Y1 - ISO Factor⁵	4.23
Y2 - ISO Factor⁶	6.3
Reference Thermal Speed Rating (Grease)	310 rpm

Reference Thermal Speed Rating (Oil)⁷	350 rpm
C_g - Geometry Factor⁸	0.1329

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.

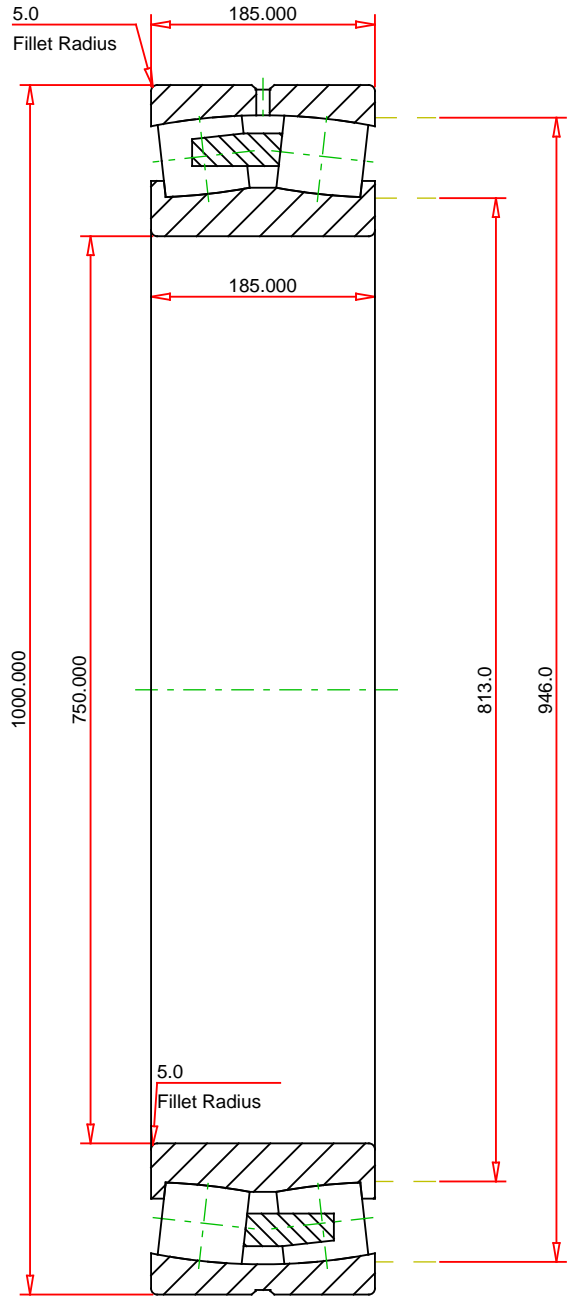
⁴ These factors apply for both inch and metric calculations. See engineering

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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	38
ISO Factor e	0.16
ISO Factor Y0	4.14
ISO Factor Y1	4.23
ISO Factor Y2	6.30
Bearing Weight	405.7 kg
Cage Type	YMB
Cage Material	Brass



239/750YMBW509C08
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	6010000	N
Static Radial Rating	13400000	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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