


The Timken Company

4500 Mt Pleasant St. NW

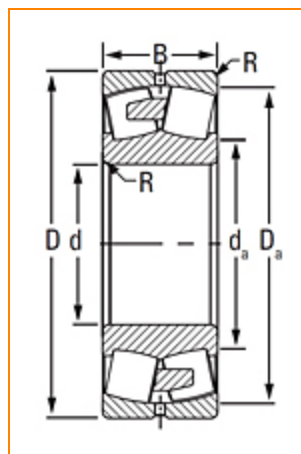
N. Canton, OH 44720

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Part Number 239/600YMBW33W45A, 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	600 mm
Cage Type	YMB
Cage Material	Brass

Dimensions

D - Outer Diameter	800 mm 31.496 in
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B' - Inner Ring Width 150 mm
5.906 in

B - Outer Ring Width 150 mm
5.906 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹ 4 mm
0.160 in

r - Outer Ring "To Clear" Radius² 4 mm
0.16 in

da - Inner Ring Backing Diameter 650.000 mm
25.6000 in

Da - Outer Ring Backing Diameter 757 mm
29.8000 in

Basic Load Ratings

C0 - Static Radial Rating 8600000 N
1930000 lbf

C1(2) - Dynamic Radial Rating (Two-Rows) 3970000 N
892000 lbf

Factors

e - ISO Factor³ 0.16

Y0 - ISO Factor⁴ 4.11

Y1 - ISO Factor⁵ 4.2

Y2 - ISO Factor⁶ 6.25

Reference Thermal Speed Rating (Grease) 410 rpm

Reference Thermal Speed Rating (Oil)⁷	480 rpm
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Cg - Geometry Factor⁸	0.1153
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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.

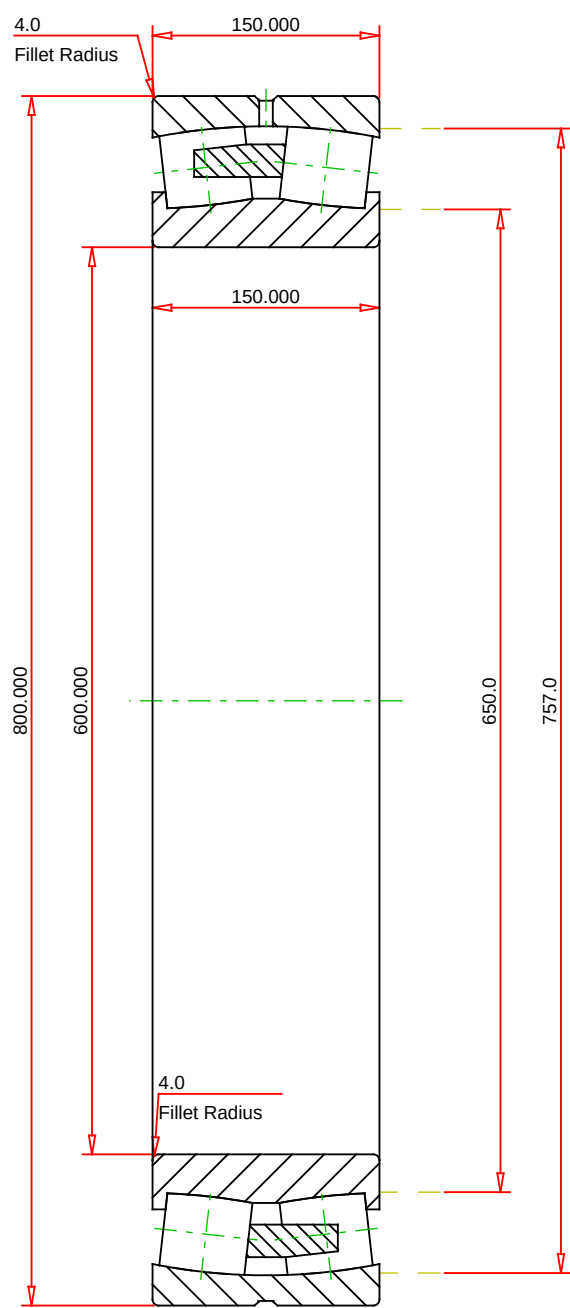
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row	38
ISO Factor e	0.16
ISO Factor Y0	4.11
ISO Factor Y1	4.20
ISO Factor Y2	6.25
Bearing Weight	209.6 kg
Cage Type	YMB
Cage Material	Brass



THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

239/600YMBW33W45A SRB ASSEMBLY		
Dynamic Radial Rating (Two Rows)	3970000	N
Static Radial Rating	8600000	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