



The Timken Company

4500 Mt Pleasant St. NW

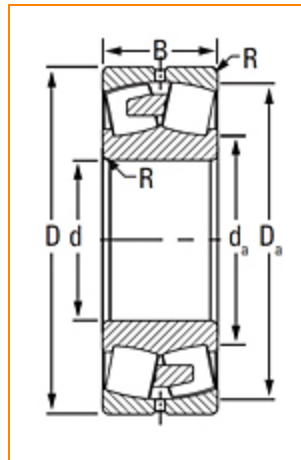
N. Canton, OH 44720

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Part Number 240/600YMBW33W45AC3, 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
Bearing Weight	538.900 Kg 1185.60 lb
Cage Type	YMB
UPC Code	087796141759
Cage Material	Brass

Dimensions

d - Bore	600.000 mm 23.6220 in
D - Outer Diameter	870.000 mm 34.2500 in

34.2520 in

B' - Inner Ring Width 272 mm
10.709 in

B - Outer Ring Width 272.000 mm
10.7090 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹ 5.000 mm
0.200 in

r - Outer Ring "To Clear" Radius² 5.000 mm
0.200 in

da - Inner Ring Backing Diameter 658.000 mm
25.900 in

Da - Outer Ring Backing Diameter 811.000 mm
31.900 in

Basic Load Ratings

C0 - Static Radial Rating 16800000 N
3780000 lbf

C1(2) - Dynamic Radial Rating (Two-Rows) 8040000 N
1810000 lbf

Factors

e - ISO Factor³ 0.28

Y0 - ISO Factor⁴ 2.39

Y1 - ISO Factor⁵ 2.44

Y2 - ISO Factor⁶ 3.64

Reference Thermal Speed Rating 270

(Grease)	270
Reference Thermal Speed Rating (Oil) ⁷	290
Cg - Geometry Factor ⁸	0.1167

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.

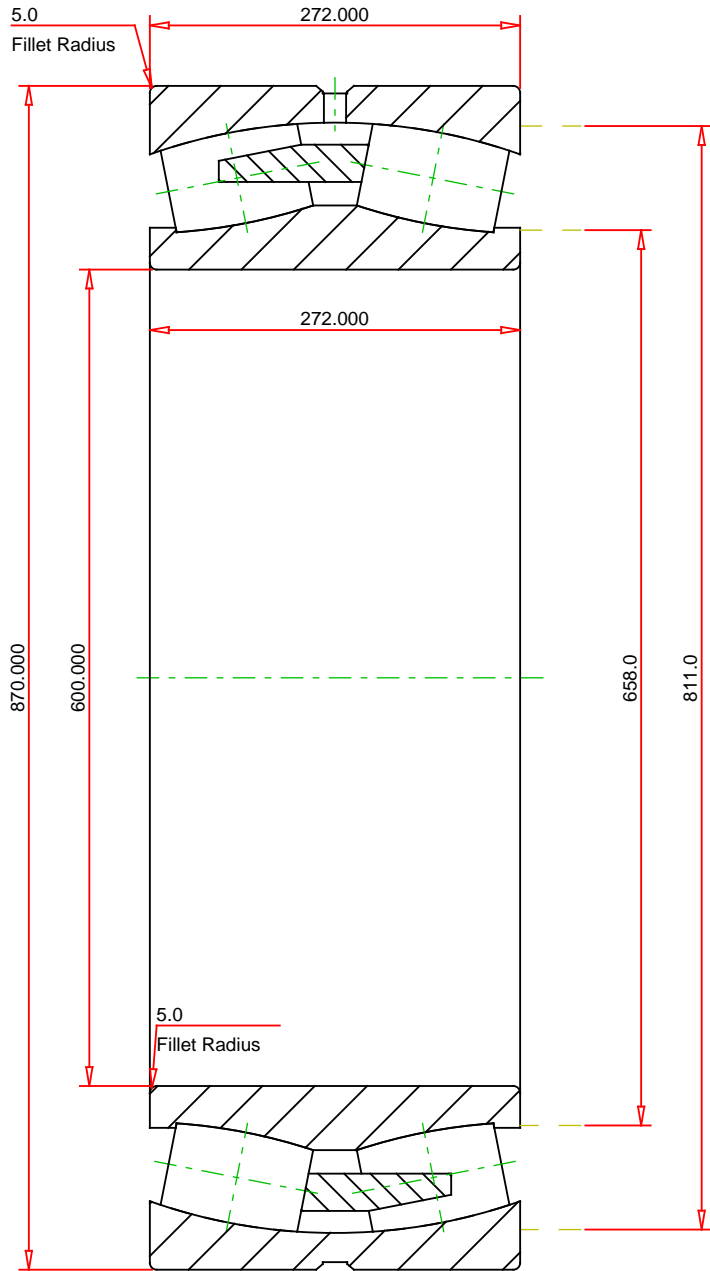
⁴ These factors apply for both inch and metric calculations. See engineering

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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	29
ISO Factor e	0.28
ISO Factor Y0	2.39
ISO Factor Y1	2.44
ISO Factor Y2	3.64
Bearing Weight	538.9 kg
Cage Type	YMB
Cage Material	Brass



THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

240/600YMBW33W45AC3 SRB ASSEMBLY		
Dynamic Radial Rating (Two Rows)	8040000	N
Static Radial Rating	16800000	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