


The Timken Company

4500 Mt Pleasant St. NW

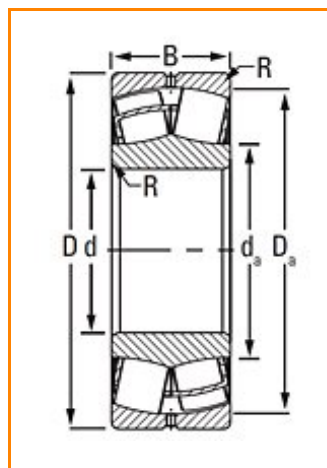
N. Canton, OH 44720

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Timken Part Number 22313EJW33, Spherical Roller Bearings - Steel 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	3.600 Kg 7.90 lb
Cage Type	EJ
UPC Code	87796023994
Cage Material	Steel
Superseded Part	22313CJW33

Dimensions

d - Bore	65.000 mm 2.5591 in
D - Outer Diameter	140.000 mm 5.5118 in
B' - Inner Ring Width	48 mm 1.8898 in
B - Outer Ring Width	48.000 mm 1.8898 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	2.000 mm 0.080 in
r - Outer Ring "To Clear" Radius²	2.000 mm 0.080 in
da - Inner Ring Backing Diameter	84.000 mm 3.300 in
Da - Outer Ring Backing Diameter	127.000 mm 5.000 in

Basic Load Ratings

C0 - Static Radial Rating	346000 N 77800 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	344000 N 77400 lbf

Factors

e - ISO Factor³	0.33
Y0 - ISO Factor⁴	2.05

Y1 - ISO Factor⁵	3.05
Y2 - ISO Factor⁶	2
Reference Thermal Speed Rating (Grease)	3800
Reference Thermal Speed Rating (Oil)⁷	4400
Cg - Geometry Factor⁸	0.0558

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.

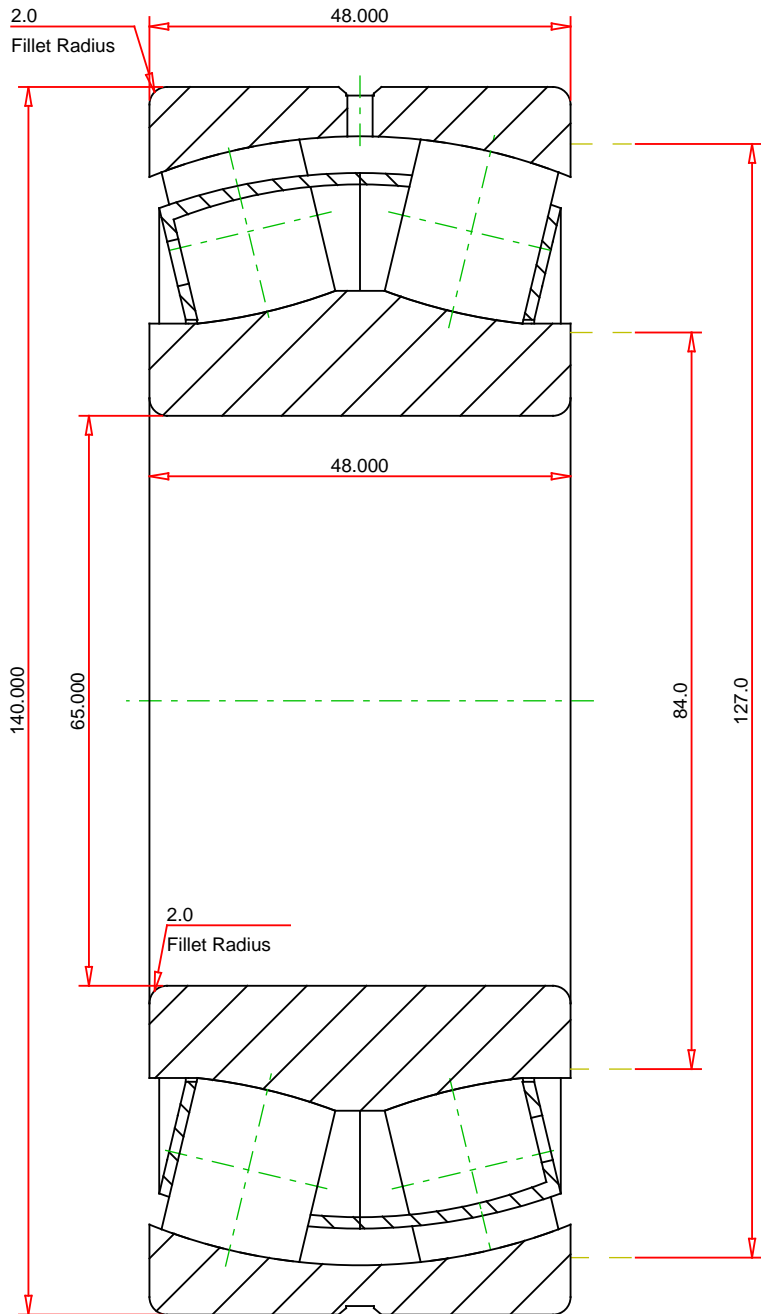
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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row	14
ISO Factor e	0.33
ISO Factor Y0	2.05
ISO Factor Y1	3.05
ISO Factor Y2	2.00
Bearing Weight	3.6 kg
Cage Type	EJ
Cage Material	Steel



THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22313EJW33
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	344000	N
Static Radial Rating	346000	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