


The Timken Company

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Part Number 22316EJW33C3, 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.



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Specifications

UPC Code	087796026582
Design Unit	Metric
d - Bore	80 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22316CJW33C3

Factors


e - ISO Factor¹	0.33
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Y0 - ISO Factor²	2.01
Y1 - ISO Factor³	2.06
Y2 - ISO Factor⁴	3.06
Reference Thermal Speed Rating (Grease)	3200 rpm
Reference Thermal Speed Rating (Oil)⁵	3700 rpm
Cg - Geometry Factor⁶	0.0638

Dimensions

D - Outer Diameter	170 mm 6.6929 in
B' - Inner Ring Width	58 mm 2.2835 in
B - Outer Ring Width	58 mm 2.2835 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	2 mm 0.080 in
r - Outer Ring "To Clear" Radius⁸	2 mm 0.080 in
da - Inner Ring Backing Diameter	103 mm 4.1000 in
Da - Outer Ring Backing Diameter	153.000 mm 6.000 in

Basic Load Ratings

C0 - Static Radial Rating	534000 N 120000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	499000 N 112000 lbf

¹ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

² These factors apply for both inch and metric calculations. See engineering

³ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

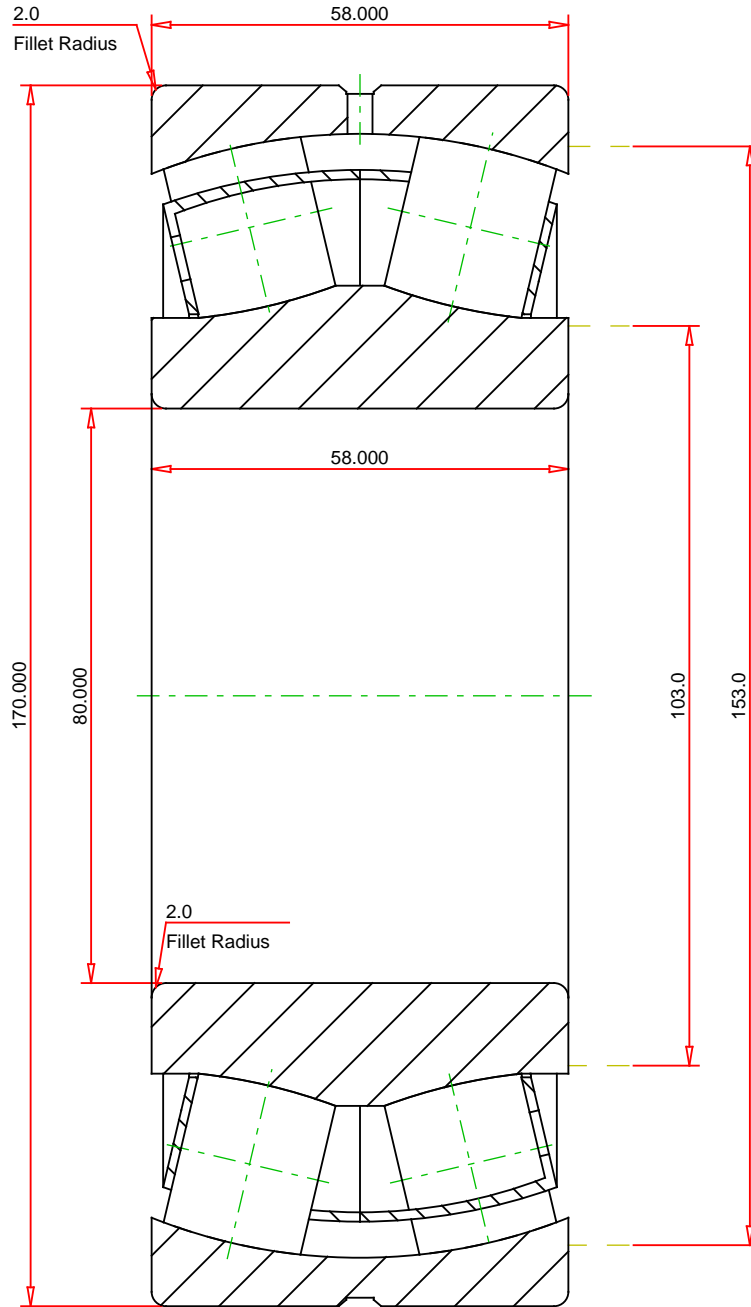
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor a_3 .

⁷ Maximum housing fillet radius that bearing corners will clear.

⁸ These maximum fillet radii will be cleared by the bearing corners.



METRIC UNITS

Number of Rollers Per Row	15
ISO Factor e	0.33
ISO Factor Y0	2.01
ISO Factor Y1	2.06
ISO Factor Y2	3.06
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

22316EJW33C3
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	499000	N
Static Radial Rating	534000	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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