


The Timken Company

4500 Mt Pleasant St. NW

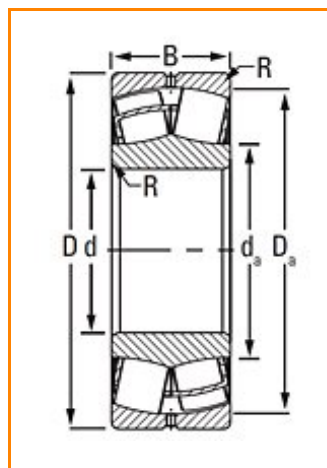
N. Canton, OH 44720

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Timken Part Number 22314EJW33C3, 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

Design Unit	METRIC
Bearing Weight	4.400 Kg 9.70 lb
Cage Type	EJ
UPC Code	87796026346
Cage Material	Steel
Superseded Part	22314CJW33C3

Dimensions

d - Bore	70.000 mm 2.7559 in
D - Outer Diameter	150.000 mm 5.9055 in
B' - Inner Ring Width	51 mm 2.0079 in
B - Outer Ring Width	51.000 mm 2.0079 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	91.000 mm 3.600 in
Da - Outer Ring Backing Diameter	135.000 mm 5.300 in

Basic Load Ratings

C0 - Static Radial Rating	414000 N 93100 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	395000 N 88800 lbf

Factors

e - ISO Factor³	0.33
Y0 - ISO Factor⁴	2.07

Y1 - ISO Factor⁵	3.08
Y2 - ISO Factor⁶	2.02
Reference Thermal Speed Rating (Grease)	3600
Reference Thermal Speed Rating (Oil)⁷	4200
Cg - Geometry Factor⁸	0.0589

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.

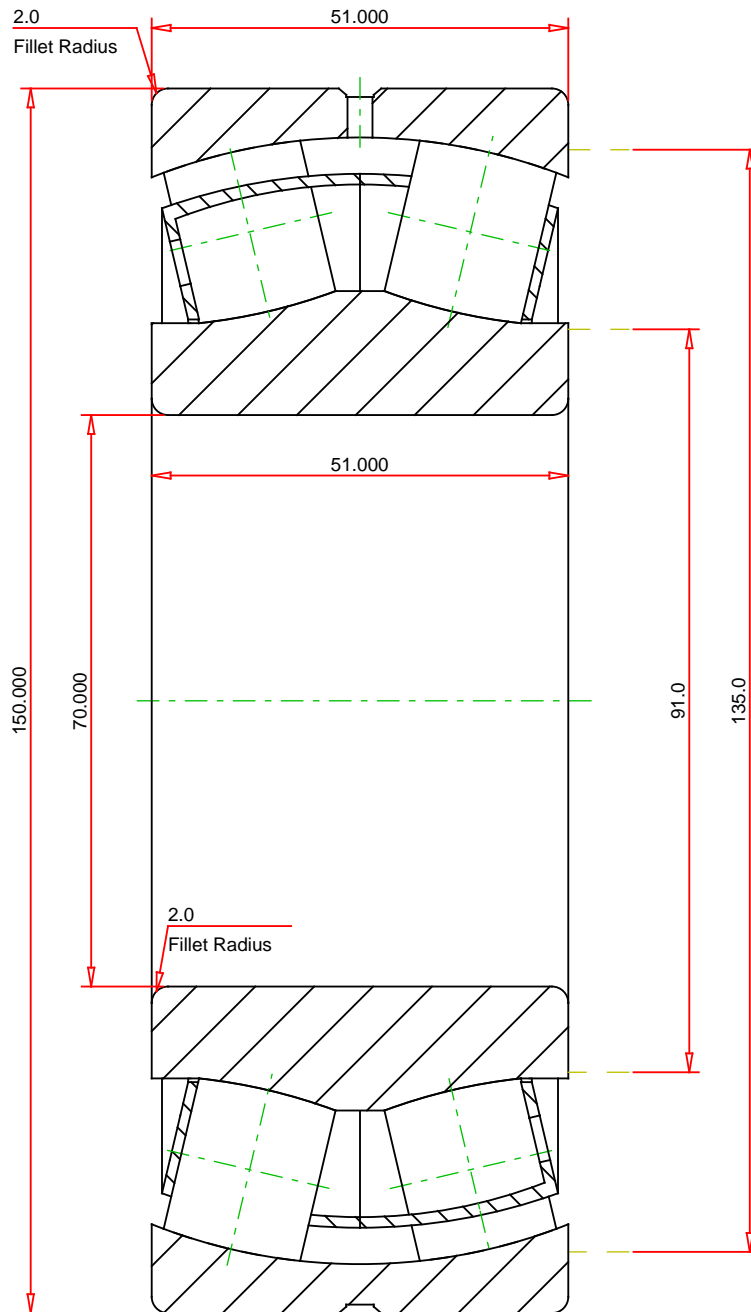
⁴ These factors apply for both inch and metric calculations. See engineering

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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	15
ISO Factor e	0.33
ISO Factor Y0	2.07
ISO Factor Y1	3.08
ISO Factor Y2	2.02
Bearing Weight	4.4 kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22314EJW33C3
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	395000	N
Static Radial Rating	414000	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