



The Timken Company

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Part Number 23224KEJW33C4, 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](#) | [Factors](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Basic Load Ratings](#)

Specifications

UPC Code	087796359185
Design Unit	Metric
d - Bore	120 mm
Lubrication Type	Standard Grease
Bore_Taper	1/12
Cage Type	EJ
Cage Material	Steel
Superseded Part	23224KCJW33C4



e - ISO Factor¹	0.32
Y0 - ISO Factor²	2.05
Y1 - ISO Factor³	2.1
Y2 - ISO Factor⁴	3.13
Reference Thermal Speed Rating (Grease)	1800 rpm
Reference Thermal Speed Rating (Oil)⁵	2100 rpm
Cg - Geometry Factor⁶	0.078

Dimensions

D - Outer Diameter	215 mm 8.4646 in
B' - Inner Ring Width	76 mm 2.9921 in
B - Outer Ring Width	76 mm 2.9921 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	142 mm 5.6000 in
Da - Outer Ring Backing Diameter	197 mm 7.700 in

Basic Load Ratings

C0 - Static Radial Rating	1040000 N 234000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	824000 N 185000 lbf
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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.

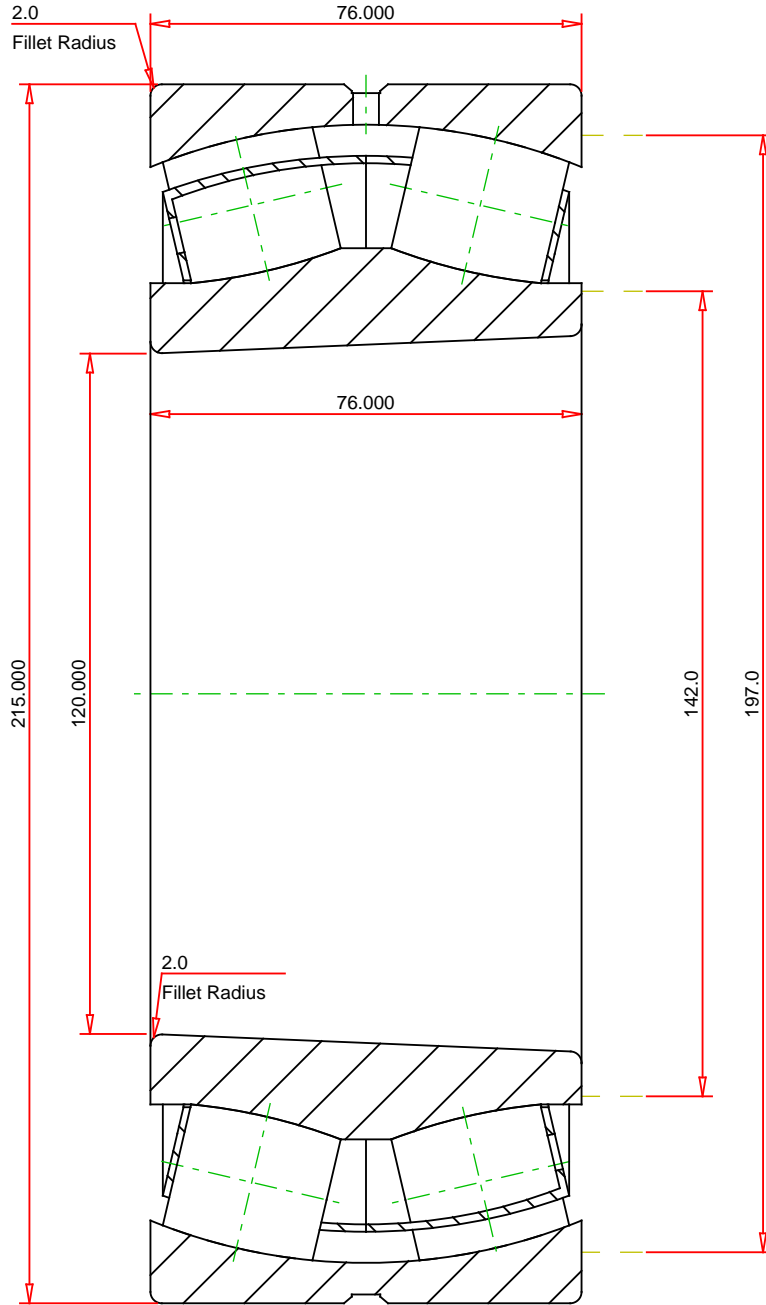
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor a3l.

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	19
ISO Factor e	0.32
ISO Factor Y0	2.05
ISO Factor Y1	2.10
ISO Factor Y2	3.13
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel
Bore Taper	1/12

TIMKEN®

23224KEJW33C4
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	824000	N
Static Radial Rating	1040000	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