



The Timken Company

4500 Mt Pleasant St. NW

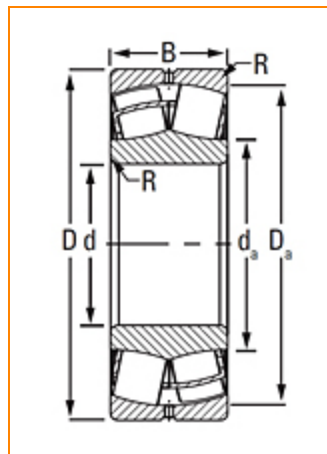
N. Canton, OH 44720

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Part Number 23144KEJW33C3, 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	087796358935
Design Unit	Metric
d - Bore	220 mm
Lubrication Type	Standard Grease
Bore_Taper	1/12
Cage Type	EJ
Cage Material	Steel
Superseded Part	23144KCJW33C3



e - ISO Factor¹	0.31
Y0 - ISO Factor²	2.12
Y1 - ISO Factor³	2.17
Y2 - ISO Factor⁴	3.24
Reference Thermal Speed Rating (Grease)	1000 rpm
Reference Thermal Speed Rating (Oil)⁵	1200 rpm
Cg - Geometry Factor⁶	0.1033

Dimensions

D - Outer Diameter	370 mm 14.5669 in
B' - Inner Ring Width	120 mm 4.7244 in
B - Outer Ring Width	120 mm 4.7244 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	3 mm 0.120 in
r - Outer Ring "To Clear" Radius⁸	3 mm 0.12 in
da - Inner Ring Backing Diameter	252 mm 9.9000 in
Da - Outer Ring Backing Diameter	336 mm 13.2000 in

Basic Load Ratings

C0 - Static Radial Rating	2740000 N 616000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	1940000 N 436000 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.

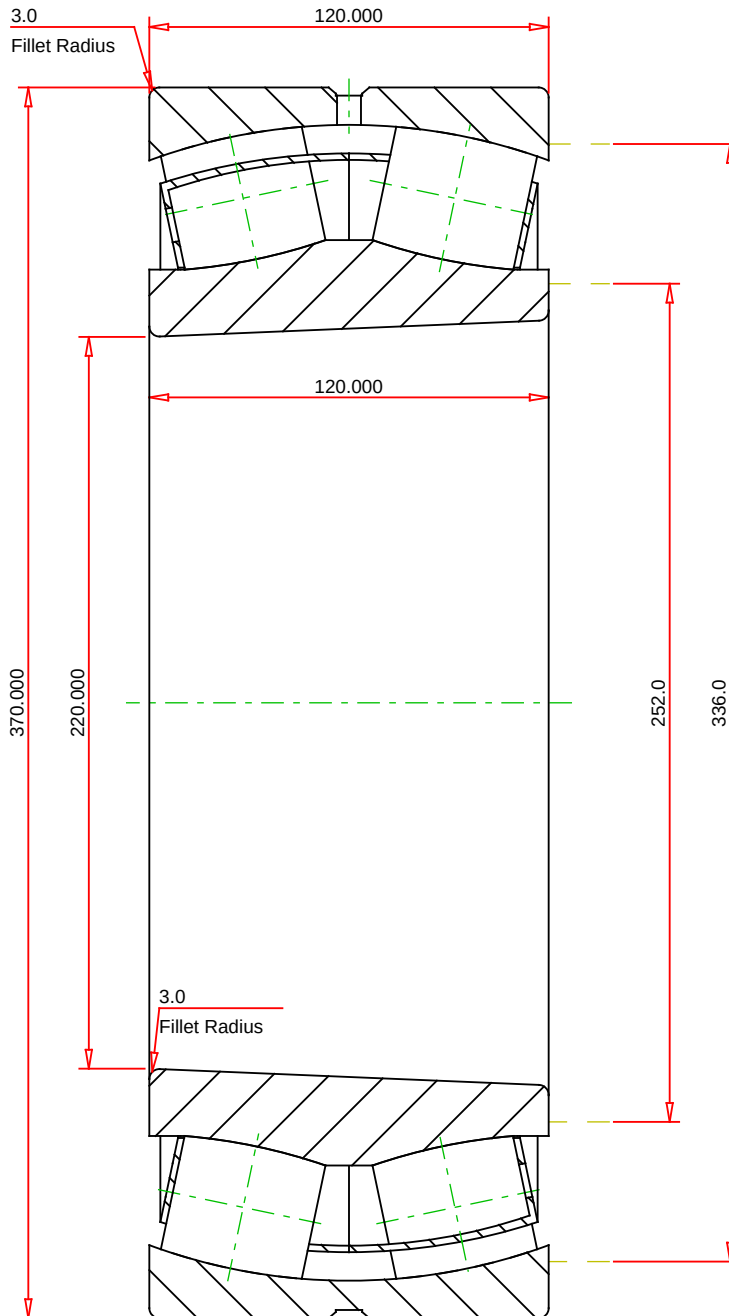
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor 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 Row21 ISO Factor e0.31 ISO Factor Y02.12 ISO Factor Y12.17 ISO Factor Y23.24 Bearing Weightkg Cage TypeEJ Cage MaterialSteel Bore Taper1/12	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	23144KEJW33C3 SRB ASSEMBLY
	Dynamic Radial Rating (Two Rows)1940000 Static Radial Rating2740000	N 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