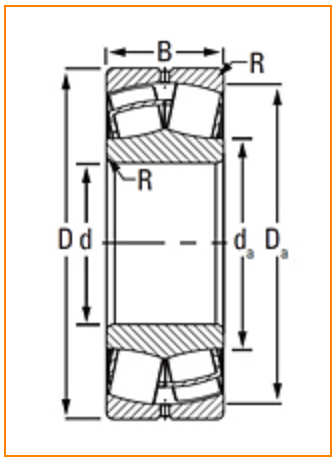
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 22222KEJW33, 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	087796025295
Design Unit	Metric
d - Bore	110 mm
Lubrication Type	Standard Grease
Bore_Taper	1/12
Cage Type	EJ
Cage Material	Steel
Superseded Part	22222KCJW33

s

e - ISO Factor[1]	0.25
Y0 - ISO Factor[2]	2.67
Y1 - ISO Factor[3]	2.73
Y2 - ISO Factor[4]	4.06
Reference Thermal Speed Rating (Grease)	2900 rpm
Reference Thermal Speed Rating (Oil)[5]	3500 rpm
Cg - Geometry Factor[6]	0.0742

Dimensions

D - Outer Diameter	200 mm
B' - Inner Ring Width	53 mm
B - Outer Ring Width	53 mm

Abutment and Fillet Dimensions

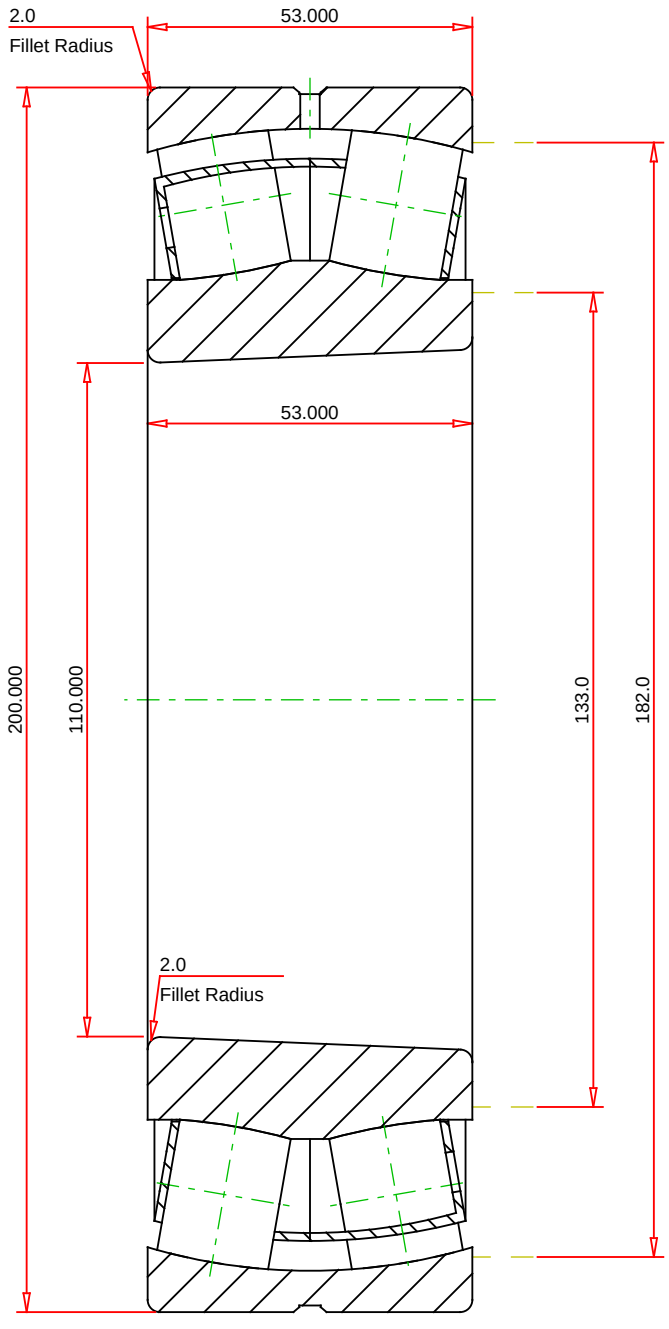
R - Inner Ring "To Clear" Radius[7]	2 mm
r - Outer Ring "To Clear" Radius[8]	2 mm
da - Inner Ring Backing Diameter	133.000 mm
Da - Outer Ring Backing Diameter	182 mm

Basic Load Ratings

C0 - Static Radial Rating	653000 N

C1(2) - Dynamic Radial Rating (Two-Rows)	555000 N

[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	0.25	
ISO Factor Y0	2.67	
ISO Factor Y1	2.73	
ISO Factor Y2	4.06	
Bearing Weight		kg
Cage Type	EJ	
Cage Material	Steel	
Bore Taper	1/12	

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22222KEJW33
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	555000	N
Static Radial Rating	653000	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