


The Timken Company

4500 Mt Pleasant St. NW

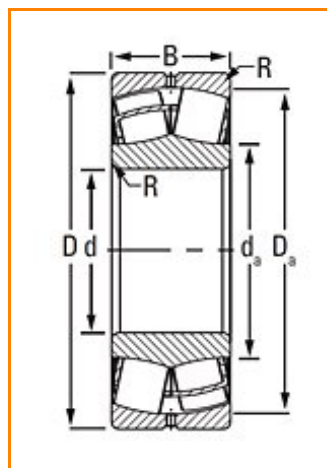
N. Canton, OH 44720

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Timken Part Number 22222KEJW33C3, 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
Bore Taper	1/12
Bearing Weight	7.200 Kg 15.800 lb
Cage Type	EJ
UPC Code	87796025318
Cage Material	Steel
Superseded Part	22222KCJW33C3

Dimensions

d - Bore	110.000 mm 4.3307 in
D - Outer Diameter	200.000 mm 7.8740 in
B' - Inner Ring Width	53 mm 2.0866 in
B - Outer Ring Width	53.000 mm 2.0866 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	133.000 mm 5.200 in
Da - Outer Ring Backing Diameter	182.000 mm 7.200 in

Basic Load Ratings

C0 - Static Radial Rating	653000 N 147000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	555000 N 125000 lbf

Factors

e - ISO Factor³	0.25
Y0 - ISO Factor⁴	2.73

Y1 - ISO Factor⁵	4.06
Y2 - ISO Factor⁶	2.67
Reference Thermal Speed Rating (Grease)	2900
Reference Thermal Speed Rating (Oil)⁷	3500
Cg - Geometry Factor⁸	0.0742

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.

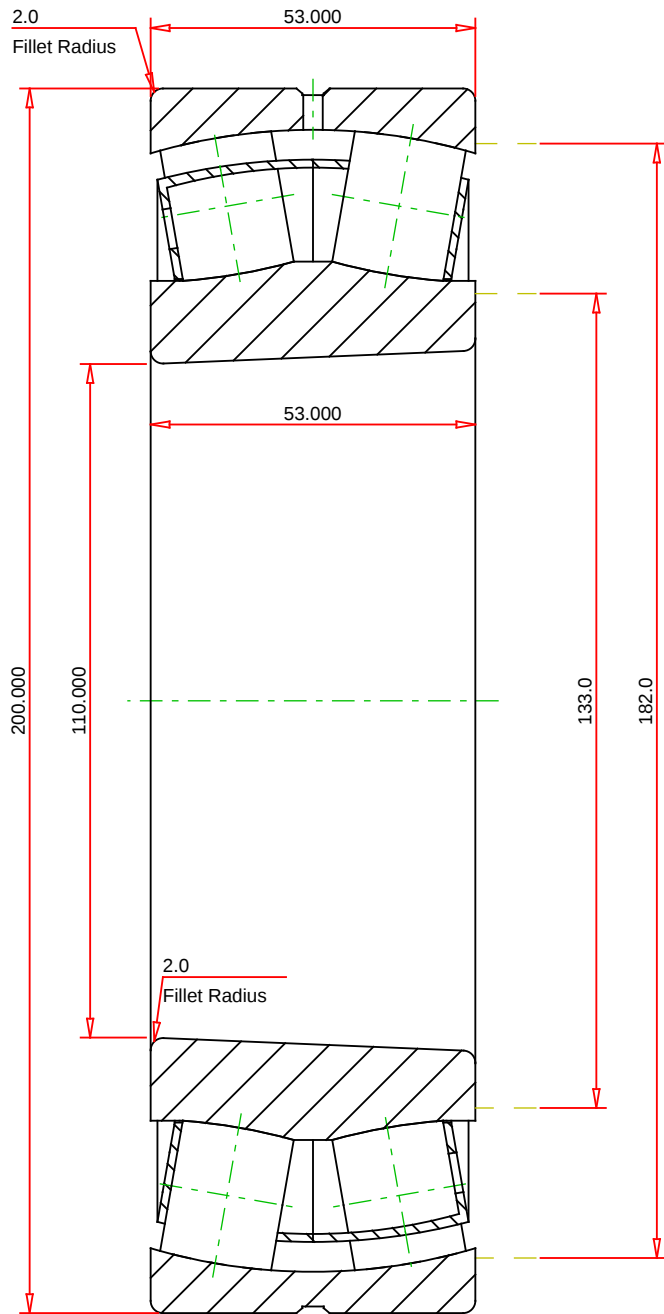
⁴ These factors apply for both inch and metric calculations. See engineering

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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 Row19 ISO Factor e0.25 ISO Factor Y02.73 ISO Factor Y14.06 ISO Factor Y22.67 Bearing Weight7.2 kg Cage TypeEJ Cage MaterialSteel Bore Taper1/12	TIMKEN®		22222KEJW33C3 SRB ASSEMBLY	
	THE TIMKEN COMPANY NORTH CANTON, OHIO USA		Dynamic Radial Rating (Two Rows)555000 N Static Radial Rating653000 N	