


The Timken Company

4500 Mt Pleasant St. NW

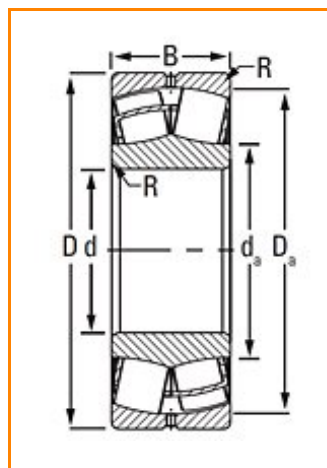
N. Canton, OH 44720

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Timken Part Number 22236KEJW33C3, 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](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Basic Load Ratings](#) | [Factors](#)

Specifications

Design Unit	METRIC
Bore Taper	1/12
Bearing Weight	29.10 Kg 64.000 lb
Cage Type	EJ
UPC Code	87796025875
Cage Material	Steel
Superseded Part	22236KCJW33C3

Dimensions

d - Bore	180.000 mm 7.0866 in
D - Outer Diameter	320.000 mm 12.5984 in
B' - Inner Ring Width	86 mm 3.3858 in
B - Outer Ring Width	86.000 mm 3.3858 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	3.000 mm 0.120 in
r - Outer Ring "To Clear" Radius²	3.000 mm 0.120 in
da - Inner Ring Backing Diameter	215.000 mm 8.500 in
Da - Outer Ring Backing Diameter	292.000 mm 11.500 in

Basic Load Ratings

C0 - Static Radial Rating	1700000 N 382000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1340000 N 301000 lbf

Factors

e - ISO Factor³	0.25
Y0 - ISO Factor⁴	2.72

Y1 - ISO Factor⁵	4.05
Y2 - ISO Factor⁶	2.66
Reference Thermal Speed Rating (Grease)	1600
Reference Thermal Speed Rating (Oil)⁷	1900
Cg - Geometry Factor⁸	0.0937

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.

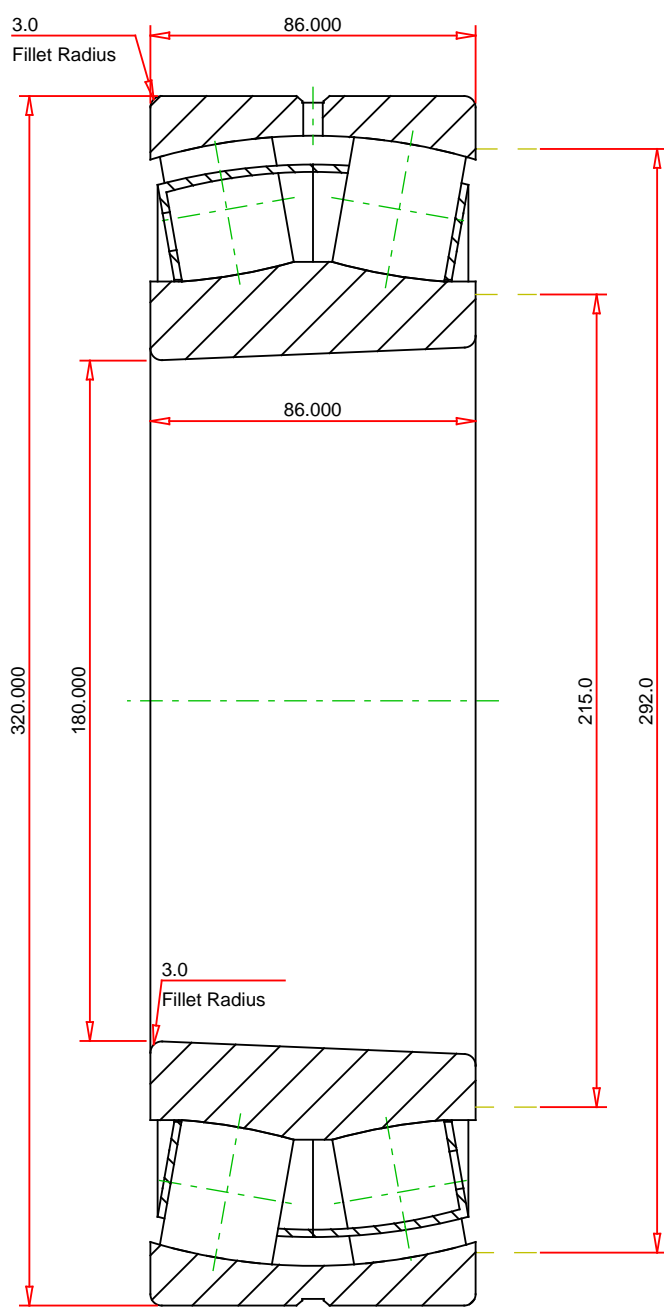
⁴ These factors apply for both inch and metric calculations. See engineering

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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	19
ISO Factor e	0.25
ISO Factor Y0	2.72
ISO Factor Y1	4.05
ISO Factor Y2	2.66
Bearing Weight	29.1 kg
Cage Type	EJ
Cage Material	Steel
Bore Taper	1/12



THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22236KEJW33C3
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	1340000	N
Static Radial Rating	1700000	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