


The Timken Company

4500 Mt Pleasant St. NW

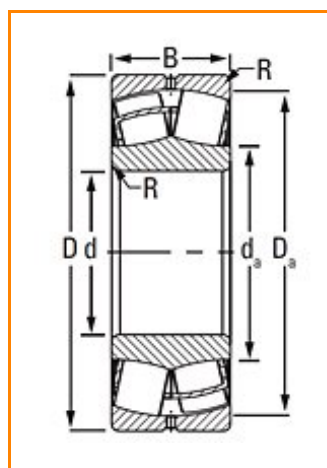
N. Canton, OH 44720

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Timken Part Number 22234EJW33C3, 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
Bearing Weight	27.30 Kg 62.700 lb
Cage Type	EJ
UPC Code	87796025769
Cage Material	Steel
Superseded Part	22234CJW33C3

Dimensions

d - Bore	170.000 mm 6.6929 in
D - Outer Diameter	310.000 mm 12.2047 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	204.000 mm 8.000 in
Da - Outer Ring Backing Diameter	281.000 mm 11.100 in

Basic Load Ratings

C0 - Static Radial Rating	1590000 N 359000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1290000 N 290000 lbf

Factors

e - ISO Factor³	0.26
Y0 - ISO Factor⁴	2.61

Y1 - ISO Factor⁵	3.89
Y2 - ISO Factor⁶	2.55
Reference Thermal Speed Rating (Grease)	1700
Reference Thermal Speed Rating (Oil)⁷	2000
Cg - Geometry Factor⁸	0.0901

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.

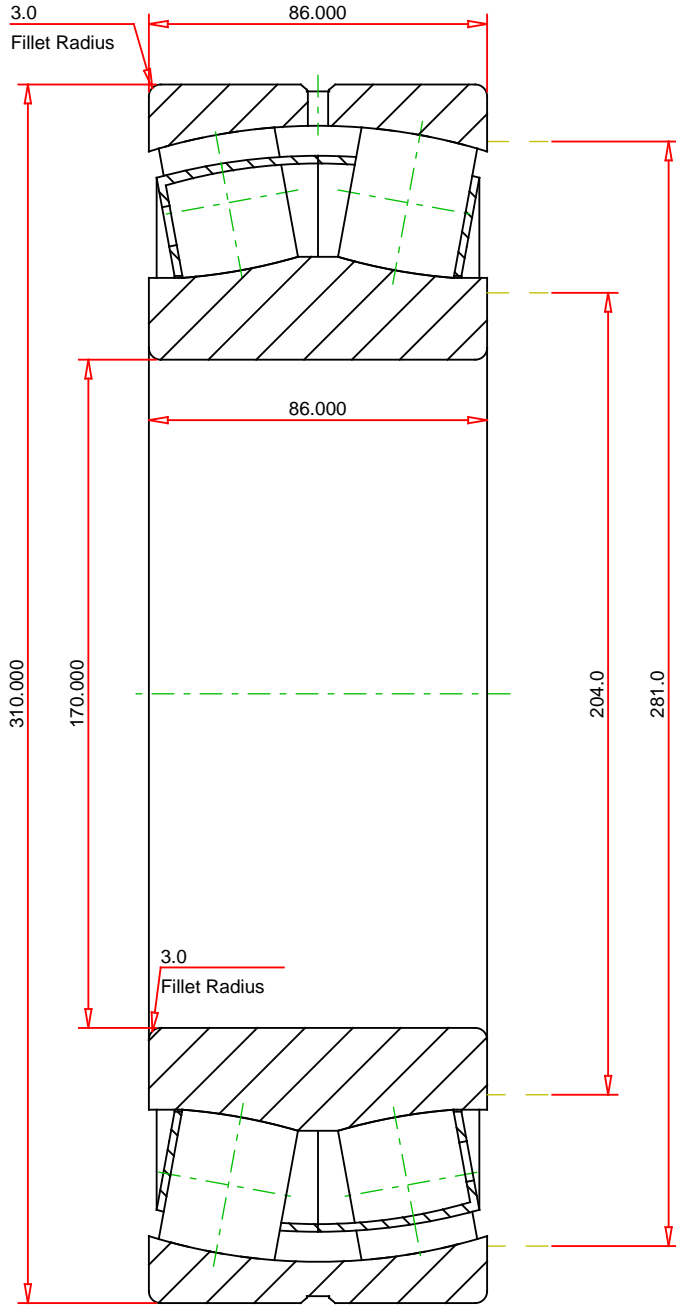
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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row	18
ISO Factor e	0.26
ISO Factor Y0	2.61
ISO Factor Y1	3.89
ISO Factor Y2	2.55
Bearing Weight	27.3 kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22234EJW33C3
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	1290000	N
Static Radial Rating	1590000	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