


The Timken Company

4500 Mt Pleasant St. NW

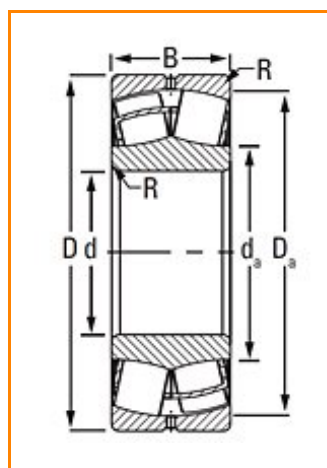
N. Canton, OH 44720

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Timken Part Number 22218KEJW33, 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	3.500 Kg 7.70 lb
Cage Type	EJ
UPC Code	87796023529
Cage Material	Steel
Superseded Part	22218KCJW33

Dimensions

d - Bore	90.000 mm 3.5433 in
D - Outer Diameter	160.000 mm 6.2992 in
B' - Inner Ring Width	40 mm 1.5748 in
B - Outer Ring Width	40.000 mm 1.5748 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	105.000 mm 4.200 in
Da - Outer Ring Backing Diameter	146.000 mm 5.800 in

Basic Load Ratings

C0 - Static Radial Rating	388000 N 87200 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	355000 N 79700 lbf

Factors

e - ISO Factor³	0.23
Y0 - ISO Factor⁴	2.9

Y1 - ISO Factor⁵	4.31
Y2 - ISO Factor⁶	2.83
Reference Thermal Speed Rating (Grease)	3500
Reference Thermal Speed Rating (Oil)⁷	4300
Cg - Geometry Factor⁸	0.0638

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.

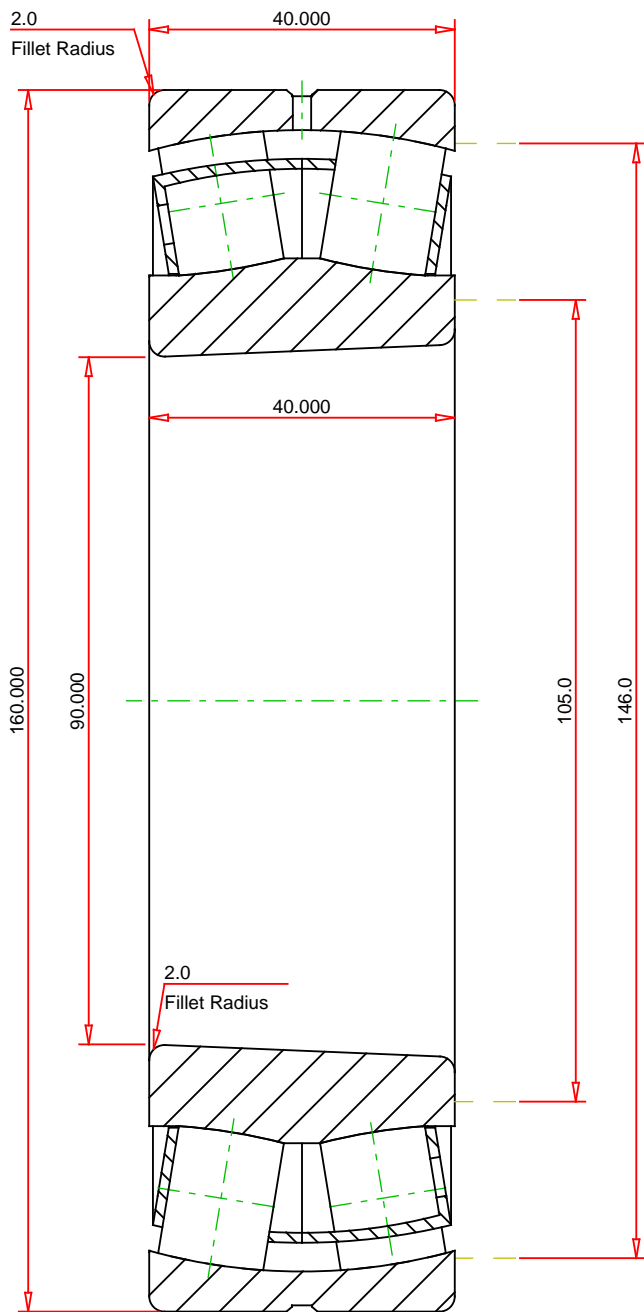
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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row	18
ISO Factor e	0.23
ISO Factor Y0	2.90
ISO Factor Y1	4.31
ISO Factor Y2	2.83
Bearing Weight	3.5 kg
Cage Type	EJ
Cage Material	Steel
Bore Taper	1/12



THE TIMKEN COMPANY

NORTH CANTON, OHIO USA

22218KEJW33
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	355000	N
Static Radial Rating	388000	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