


The Timken Company

4500 Mt Pleasant St. NW

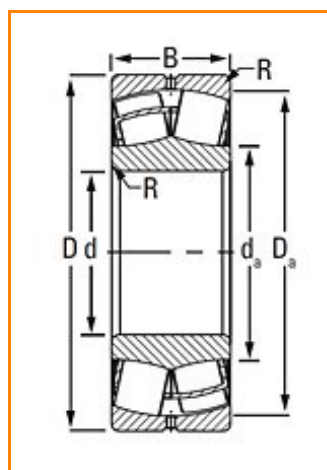
N. Canton, OH 44720

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Timken Part Number 22211EJW33C3, 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	0.800 Kg 1.80 lb
Cage Type	EJ
UPC Code	87796022966
Cage Material	Steel
Superseded Part	22211CJW33C3

Dimensions

d - Bore	55.000 mm 2.1654 in
D - Outer Diameter	100.000 mm 3.9370 in
B' - Inner Ring Width	25 mm 0.9843 in
B - Outer Ring Width	25.000 mm 0.9843 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	1.500 mm 0.060 in
r - Outer Ring "To Clear" Radius²	1.500 mm 0.060 in
da - Inner Ring Backing Diameter	66.000 mm 2.600 in
Da - Outer Ring Backing Diameter	91.000 mm 3.600 in

Basic Load Ratings

C0 - Static Radial Rating	142000 N 31900 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	140000 N 31400 lbf

Factors

e - ISO Factor³	0.23
Y0 - ISO Factor⁴	2.95

Y1 - ISO Factor⁵	4.4
Y2 - ISO Factor⁶	2.89
Reference Thermal Speed Rating (Grease)	4700
Reference Thermal Speed Rating (Oil)⁷	5800
Cg - Geometry Factor⁸	0.052

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.

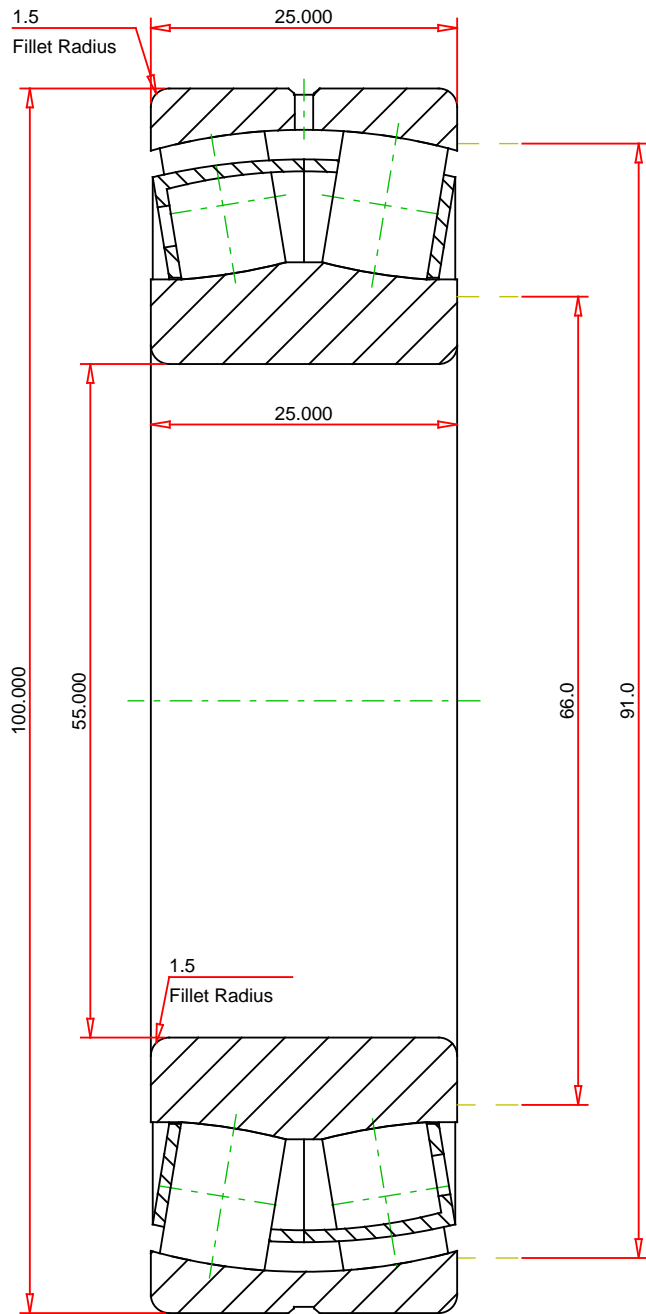
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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

Number of Rollers Per Row	17
ISO Factor e	0.23
ISO Factor Y0	2.95
ISO Factor Y1	4.40
ISO Factor Y2	2.89
Bearing Weight	0.8 kg
Cage Type	EJ
Cage Material	Steel



THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22211EJW33C3 SRB ASSEMBLY		
Dynamic Radial Rating (Two Rows)	140000	N
Static Radial Rating	142000	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