



The Timken Company

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Part Number 22211KEJW33C3, 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

UPC Code	087796023000
Design Unit	Metric
d - Bore	55 mm
Lubrication Type	Standard Grease
Bore_Taper	1/12
Cage Type	EJ
Cage Material	Steel
Superseded Part	22211KCJW33C3



e - ISO Factor¹	0.23
Y0 - ISO Factor²	2.89
Y1 - ISO Factor³	2.95
Y2 - ISO Factor⁴	4.4
Reference Thermal Speed Rating (Grease)	4700 rpm
Reference Thermal Speed Rating (Oil)⁵	5800 rpm
Cg - Geometry Factor⁶	0.052

Dimensions

D - Outer Diameter	100 mm 3.937 in
B' - Inner Ring Width	25 mm 0.9843 in
B - Outer Ring Width	25 mm 0.9843 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	1.5 mm 0.060 in
r - Outer Ring "To Clear" Radius⁸	1.5 mm 0.06 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
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C1(2) - Dynamic Radial Rating (Two-Rows)	140000 N 31400 lbf
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¹ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

² These factors apply for both inch and metric calculations. See engineering

³ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

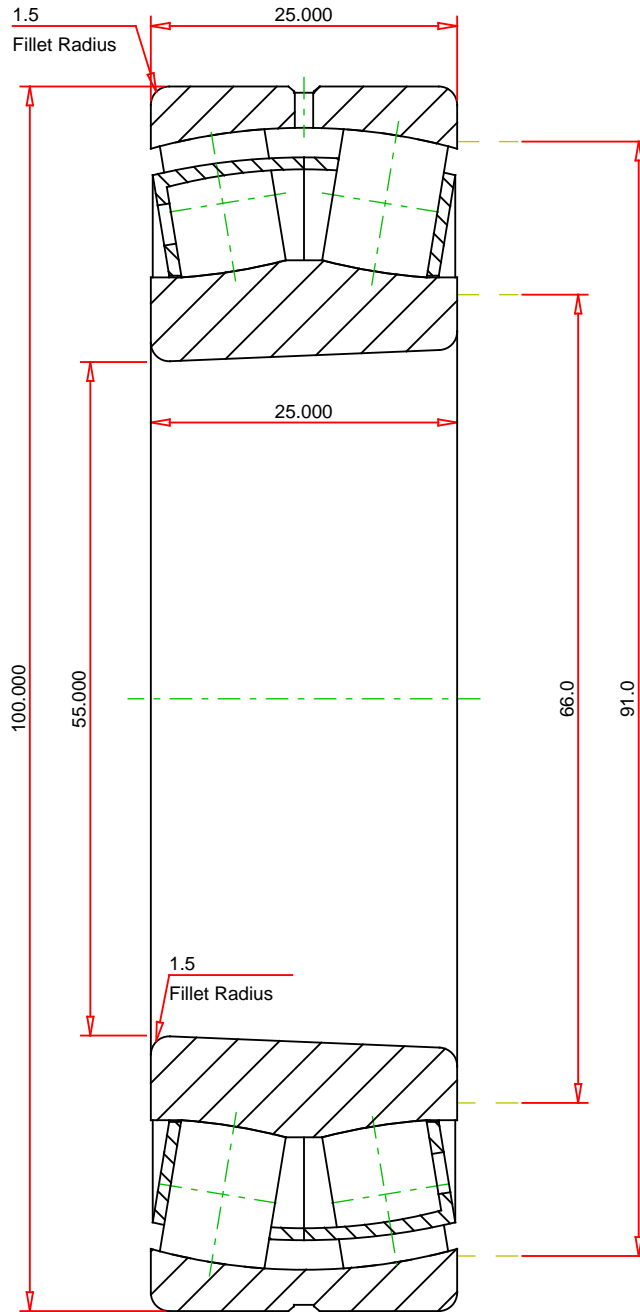
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor a3l.

⁷ Maximum housing fillet radius that bearing corners will clear.

⁸ These maximum fillet radii will be cleared by the bearing corners.



METRIC UNITS

Number of Rollers Per Row	17
ISO Factor e	0.23
ISO Factor Y0	2.89
ISO Factor Y1	2.95
ISO Factor Y2	4.40
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel
Bore Taper	1/12

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22211KEJW33C3 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.

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