



The Timken Company

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Part Number 22310KEJW33C3, 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](#) | [Factors](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Basic Load Ratings](#)

Specifications

UPC Code	087796023802
Design Unit	Metric
d - Bore	50 mm
Lubrication Type	Standard Grease
Bore_Taper	1/12
Cage Type	EJ
Cage Material	Steel
Superseded Part	22310KCJW33C3



e - ISO Factor¹	0.36
Y0 - ISO Factor²	1.85
Y1 - ISO Factor³	1.89
Y2 - ISO Factor⁴	2.81
Reference Thermal Speed Rating (Grease)	4600 rpm
Reference Thermal Speed Rating (Oil)⁵	5500 rpm
Cg - Geometry Factor⁶	0.0549

Dimensions

D - Outer Diameter	110 mm 4.3307 in
B' - Inner Ring Width	40 mm 1.5748 in
B - Outer Ring Width	40 mm 1.5748 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	2 mm 0.080 in
r - Outer Ring "To Clear" Radius⁸	2 mm 0.080 in
da - Inner Ring Backing Diameter	65.00 mm 2.600 in
Da - Outer Ring Backing Diameter	98.000 mm 3.900 in

Basic Load Ratings

C0 - Static Radial Rating	241000 N 54200 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	238000 N 53500 lbf

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.

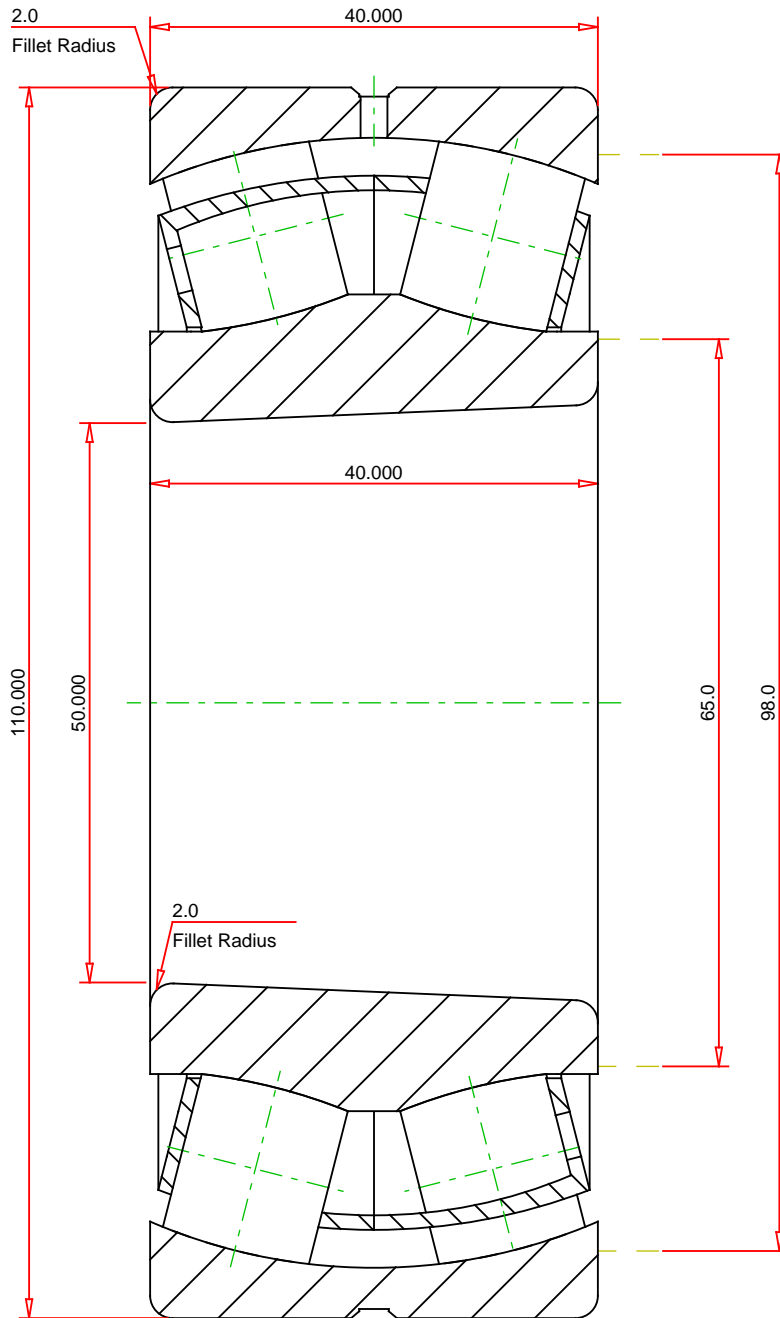
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor a_3 .

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	15
ISO Factor e	0.36
ISO Factor Y0	1.85
ISO Factor Y1	1.89
ISO Factor Y2	2.81
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel
Bore Taper	1/12

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22310KEJW33C3
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	238000	N
Static Radial Rating	241000	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