



The Timken Company

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Part Number 22208KEJW33, 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	087796022737
Design Unit	Metric
d - Bore	40 mm
Lubrication Type	Standard Grease
Bore_Taper	1/12
Cage Type	EJ
Cage Material	Steel
Superseded Part	22208KCJW33



e - ISO Factor¹	0.27
Y0 - ISO Factor²	2.41
Y1 - ISO Factor³	2.47
Y2 - ISO Factor⁴	3.67
Reference Thermal Speed Rating (Grease)	6000 rpm
Reference Thermal Speed Rating (Oil)⁵	7500 rpm
Cg - Geometry Factor⁶	0.0439

Dimensions

D - Outer Diameter	80 mm 3.1496 in
B' - Inner Ring Width	23 mm 0.9055 in
B - Outer Ring Width	23 mm 0.9055 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	1 mm 0.040 in
r - Outer Ring "To Clear" Radius⁸	1 mm 0.04 in
da - Inner Ring Backing Diameter	50.000 mm 2.000 in
Da - Outer Ring Backing Diameter	73.0 mm 2.900 in

Basic Load Ratings

C0 - Static Radial Rating	104000 N 23400 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	99700 N 22400 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.

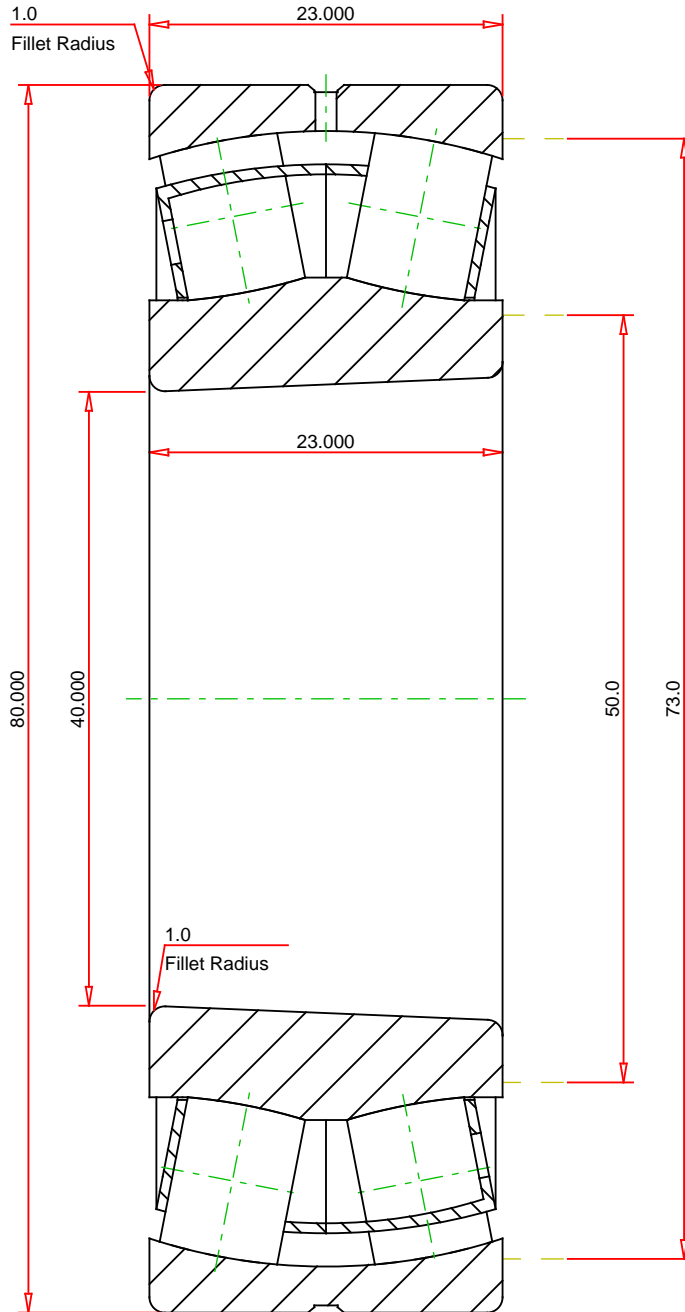
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor 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	16
ISO Factor e	0.27
ISO Factor Y0	2.41
ISO Factor Y1	2.47
ISO Factor Y2	3.67
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel
Bore Taper	1/12

TIMKEN®

22208KEJW33
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	99700	N
Static Radial Rating	104000	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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