


The Timken Company

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Part Number 23028EJW33C5, 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	087796244511
Design Unit	Metric
d - Bore	140 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	23028CJW33C5

Factors



e - ISO Factor¹	0.22
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Y0 - ISO Factor²	3.03
Y1 - ISO Factor³	3.1
Y2 - ISO Factor⁴	4.61
Reference Thermal Speed Rating (Grease)	2300 rpm
Reference Thermal Speed Rating (Oil)⁵	2800 rpm
Cg - Geometry Factor⁶	0.0819

Dimensions

D - Outer Diameter	210 mm 8.2677 in
B' - Inner Ring Width	53 mm 2.0866 in
B - Outer Ring Width	53 mm 2.0866 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	158 mm 6.2000 in
Da - Outer Ring Backing Diameter	196.000 mm 7.700 in

Basic Load Ratings

C0 - Static Radial Rating	802000 N 180000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	551000 N 124000 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.

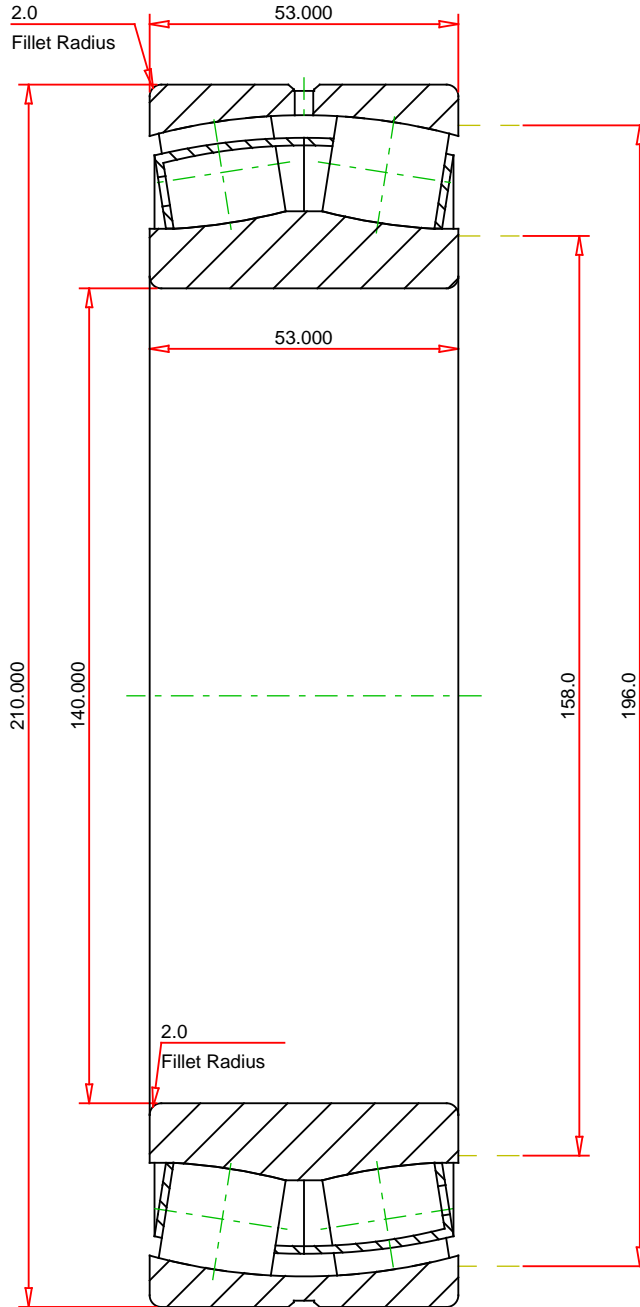
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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	27
ISO Factor e	0.22
ISO Factor Y0	3.03
ISO Factor Y1	3.10
ISO Factor Y2	4.61
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

23028EJW33C5 SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	551000 N
Static Radial Rating	802000 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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