


The Timken Company

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Part Number 24038EJW33C3, 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 | 087796152700 |
| Design Unit | Metric |
| d - Bore | 190 mm |
| Lubrication Type | Standard Grease |
| Cage Type | EJ |
| Cage Material | Steel |
| Superseded Part | 24038CJW33C3 |

Factors


| | |
|-----------------------------------|------|
| e - ISO Factor¹ | 0.31 |
|-----------------------------------|------|

| | |
|---|----------|
| Y0 - ISO Factor² | 2.15 |
| Y1 - ISO Factor³ | 2.2 |
| Y2 - ISO Factor⁴ | 3.27 |
| Reference Thermal Speed Rating (Grease) | 1200 rpm |
| Reference Thermal Speed Rating (Oil)⁵ | 1400 rpm |
| Cg - Geometry Factor⁶ | 0.0995 |

Dimensions

| | |
|------------------------------|----------------------|
| D - Outer Diameter | 290 mm 11.4173 in |
| B' - Inner Ring Width | 100 mm 3.937 in |
| B - Outer Ring Width | 100 mm 3.937 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 | 210 mm 8.3000 in |
| Da - Outer Ring Backing Diameter | 268.000 mm 10.600 in |

Basic Load Ratings

| | |
|---|-------------------------|
| C0 - Static Radial Rating | 2100000 N 473000 lbf |
| C1(2) - Dynamic Radial Rating (Two-Rows) | 1330000 N 300000 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.

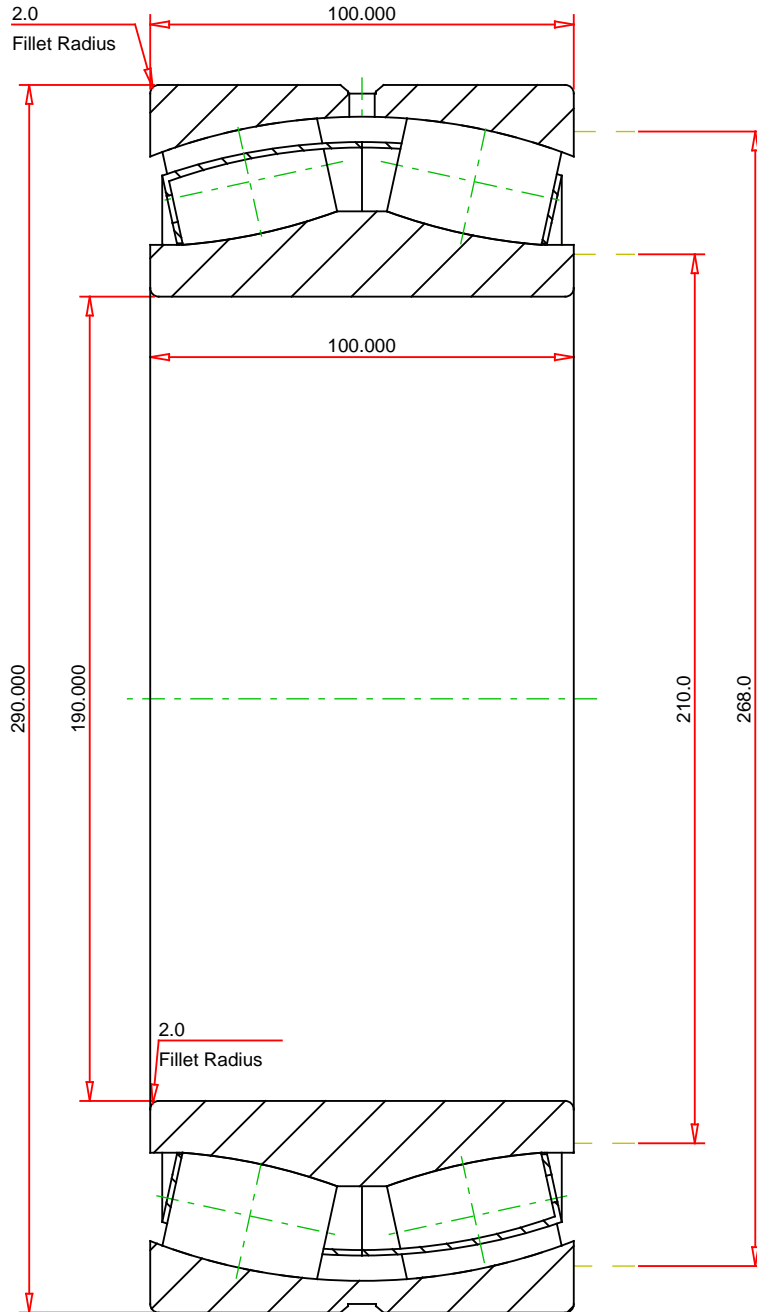
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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 | 26 |
| ISO Factor e | 0.31 |
| ISO Factor Y0 | 2.15 |
| ISO Factor Y1 | 2.20 |
| ISO Factor Y2 | 3.27 |
| Bearing Weight | kg |
| Cage Type | EJ |
| Cage Material | Steel |

TIMKEN®

24038EJW33C3
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

| | | |
|----------------------------------|---------|---|
| Dynamic Radial Rating (Two Rows) | 1330000 | N |
| Static Radial Rating | 2100000 | 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