


The Timken Company

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Part Number 24152EJW33W45AC5, 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	087796175921
Design Unit	Metric
d - Bore	260 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	24152CJW33W45AC5

Factors


e - ISO Factor¹ 0.37

Y0 - ISO Factor²	1.78
Y1 - ISO Factor³	1.82
Y2 - ISO Factor⁴	2.7
Reference Thermal Speed Rating (Grease)	540 rpm
Reference Thermal Speed Rating (Oil)⁵	580 rpm
Cg - Geometry Factor⁶	0.115

Dimensions

D - Outer Diameter	440 mm 17.323 in
B' - Inner Ring Width	180 mm 7.087 in
B - Outer Ring Width	180 mm 7.087 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	3 mm 0.120 in
r - Outer Ring "To Clear" Radius⁸	3 mm 0.12 in
da - Inner Ring Backing Diameter	294.000 mm 11.6000 in
Da - Outer Ring Backing Diameter	398.000 mm 15.700 in

Basic Load Ratings

C0 - Static Radial Rating	4800000 N 1080000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	3160000 N 710000 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.

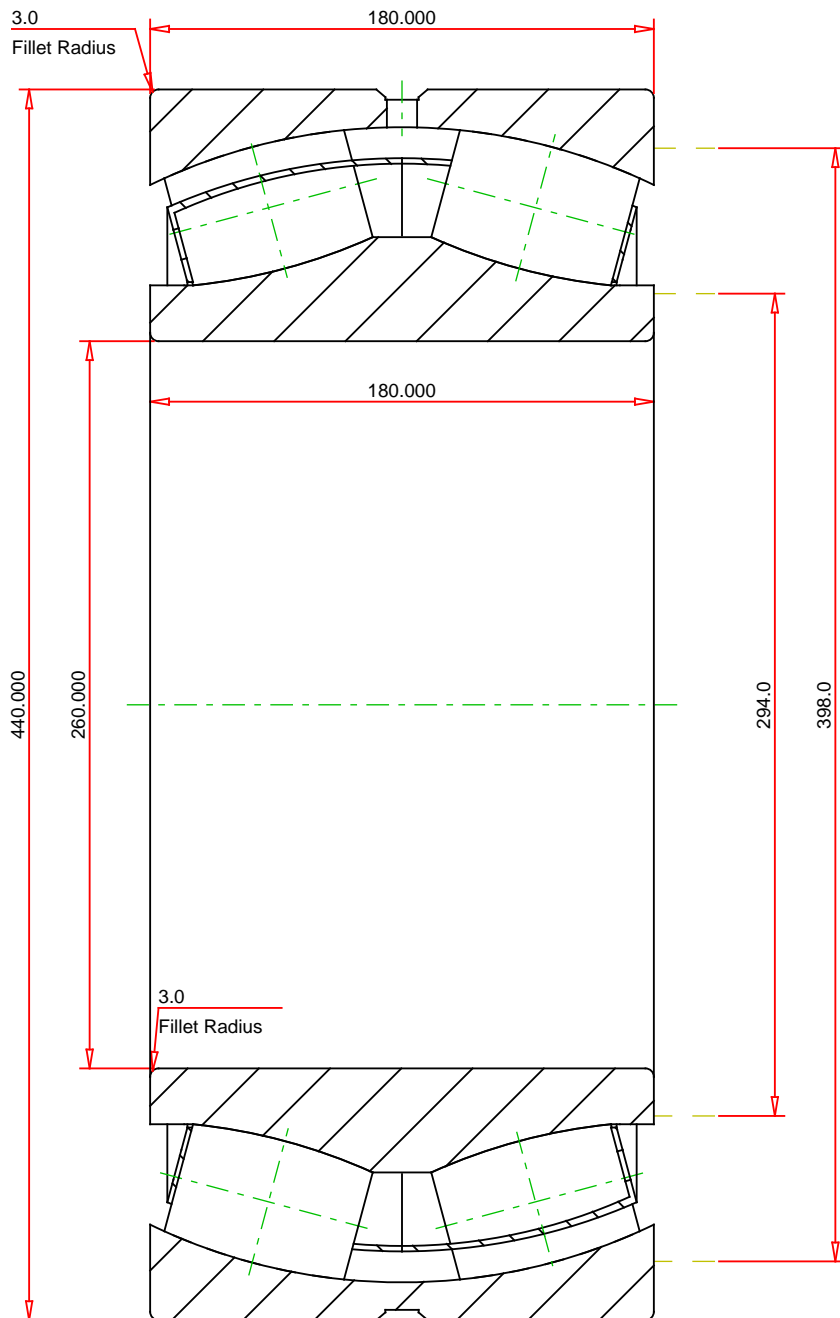
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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	21
ISO Factor e	0.37
ISO Factor Y0	1.78
ISO Factor Y1	1.82
ISO Factor Y2	2.70
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

24152EJW33W45AC5
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	3160000	N
Static Radial Rating	4800000	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