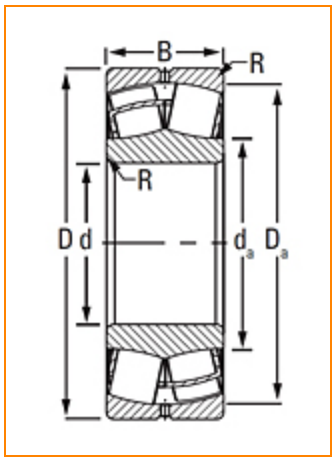
The Timken Company
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E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 24160EJW33W45AC3, 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	087796357006
Design Unit	Metric
d - Bore	300 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	24160CJW33W45AC3

Factors

e - ISO Factor[1]	0.37

Y0 - ISO Factor[2]	1.78
Y1 - ISO Factor[3]	1.82
Y2 - ISO Factor[4]	2.71
Reference Thermal Speed Rating (Grease)	440 rpm
Reference Thermal Speed Rating (Oil)[5]	470 rpm
Cg - Geometry Factor[6]	0.1252

Dimensions

D - Outer Diameter	500 mm 19.685 in
B' - Inner Ring Width	200 mm 7.874 in
B - Outer Ring Width	200 mm 7.874 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[7]	4 mm 0.160 in
r - Outer Ring "To Clear" Radius[8]	4 mm 0.16 in
da - Inner Ring Backing Diameter	336.000 mm 13.200 in
Da - Outer Ring Backing Diameter	455 mm 17.9000 in

Basic Load Ratings

C0 - Static Radial Rating	6270000 N 1410000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	4060000 N 913000 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.

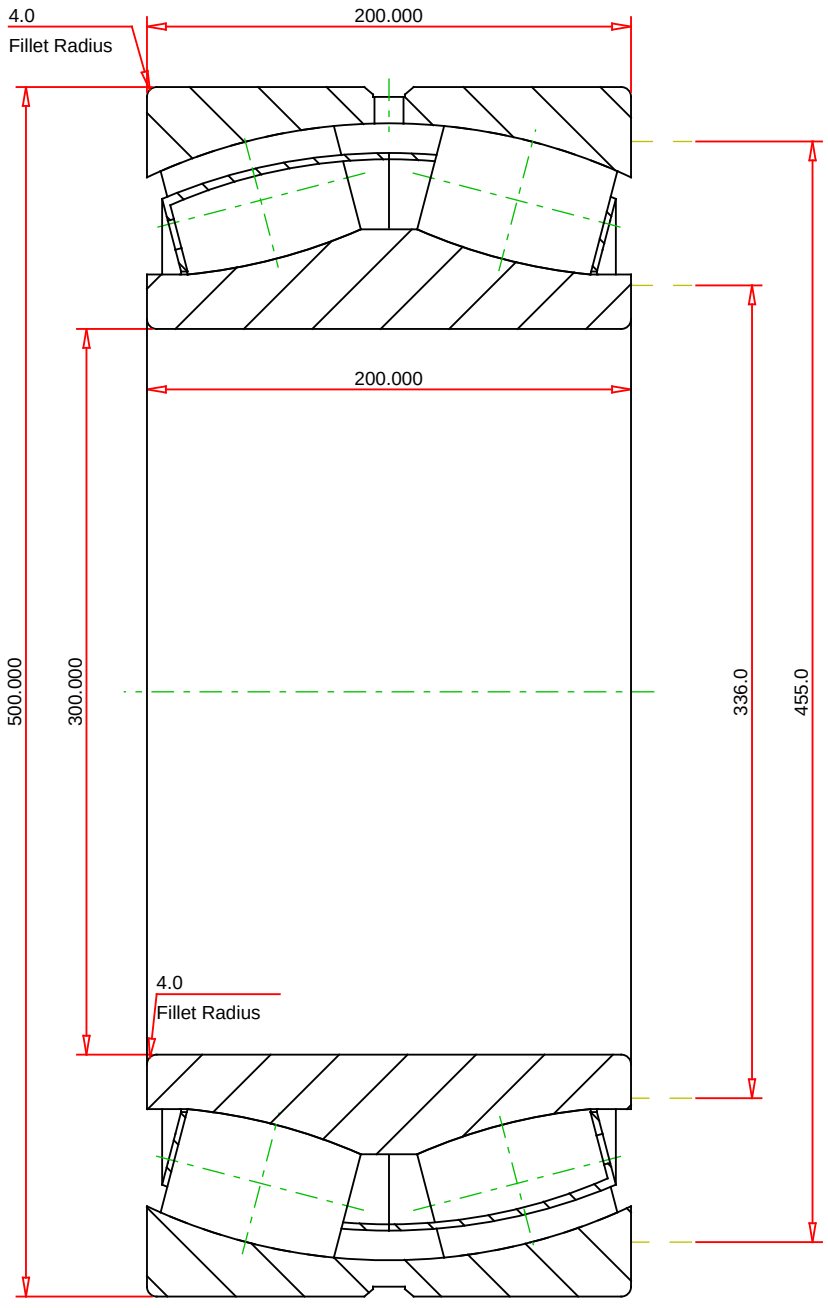
[4] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[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	2.71	
Bearing Weight		kg
Cage Type	EJ	
Cage Material	Steel	

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

24160EJW33W45AC3
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	4060000	N
Static Radial Rating	6270000	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