


The Timken Company

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Part Number 23160EJW33W40W45AC2, 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	087796151048
Design Unit	Metric
d - Bore	300 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	23160CJW33W40W45AC2

Factors


e - ISO Factor¹	0.3
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Y0 - ISO Factor²	2.2
Y1 - ISO Factor³	2.25
Y2 - ISO Factor⁴	3.35
Reference Thermal Speed Rating (Grease)	680 rpm
Reference Thermal Speed Rating (Oil)⁵	760 rpm
Cg - Geometry Factor⁶	0.1267

Dimensions

D - Outer Diameter	500 mm 19.685 in
B' - Inner Ring Width	160 mm 6.299 in
B - Outer Ring Width	160 mm 6.299 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	4 mm 0.160 in
r - Outer Ring "To Clear" Radius⁸	4 mm 0.16 in
da - Inner Ring Backing Diameter	343 mm 13.5000 in
Da - Outer Ring Backing Diameter	453 mm 17.8000 in

Basic Load Ratings

C0 - Static Radial Rating	5120000 N 1150000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	3370000 N 757000 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.

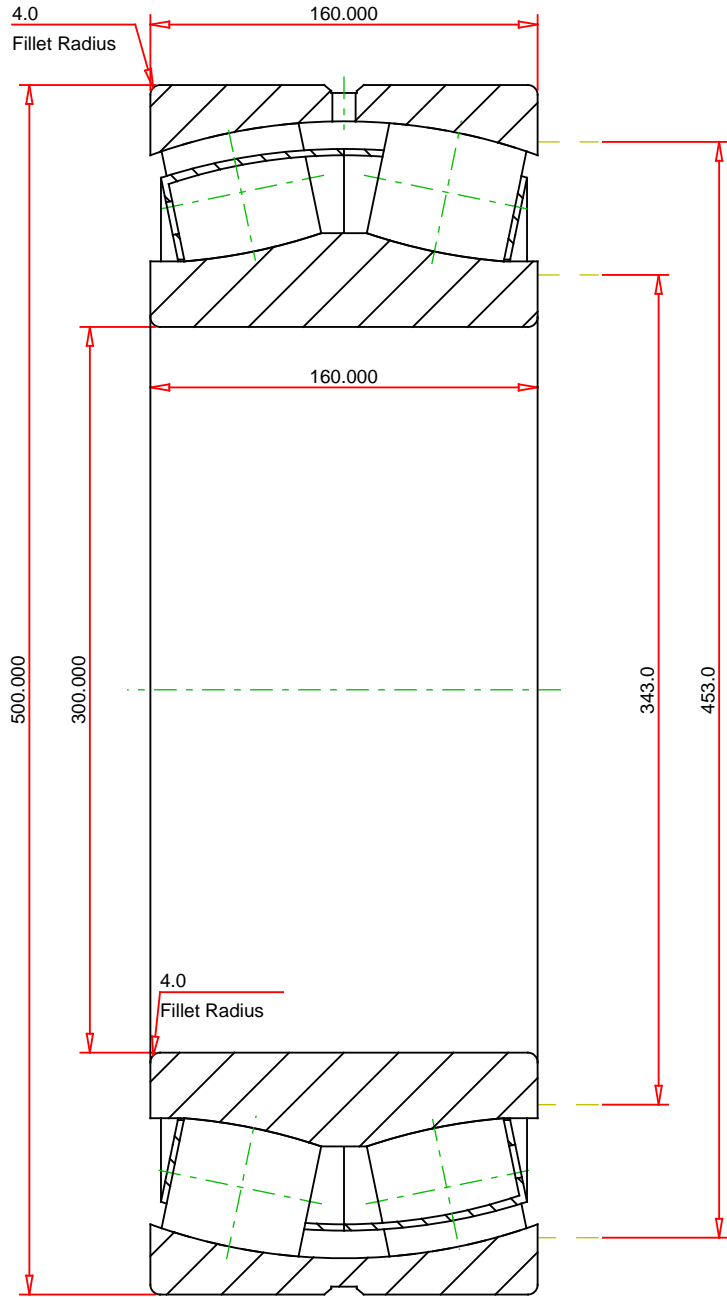
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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	22
ISO Factor e	0.30
ISO Factor Y0	2.20
ISO Factor Y1	2.25
ISO Factor Y2	3.35
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

23160EJW33W40W45AC2 SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	3370000 N
Static Radial Rating	5120000 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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