


The Timken Company

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Part Number 230/850YMBW896AC2, Spherical Roller Bearings - Brass 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

Design Unit	Metric
d - Bore	850 mm
Cage Type	YMB
Cage Material	Brass

Dimensions

D - Outer Diameter	1220 mm 48.032 in
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B' - Inner Ring Width	295 mm 11.614 in
B - Outer Ring Width	295 mm 11.6140 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	6 mm 0.24 in
r - Outer Ring "To Clear" Radius²	6 mm 0.24 in
da - Inner Ring Backing Diameter	938.000 mm 36.900 in
Da - Outer Ring Backing Diameter	1139.000 mm 44.800 in

Basic Load Ratings

C0 - Static Radial Rating	23000000 N 5180000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	11100000 N 2500000 lbf

Factors

e - ISO Factor³	0.2
Y0 - ISO Factor⁴	3.3
Y1 - ISO Factor⁵	3.37
Y2 - ISO Factor⁶	5.02
Reference Thermal Speed Rating (Grease)	250 rpm

Reference Thermal Speed Rating (Oil)⁷	280 rpm
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C_g - Geometry Factor⁸	0.1384
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¹ Maximum housing fillet radius that bearing corners will clear.

² Maximum shaft fillet radius that bearing corners will clear.

³ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

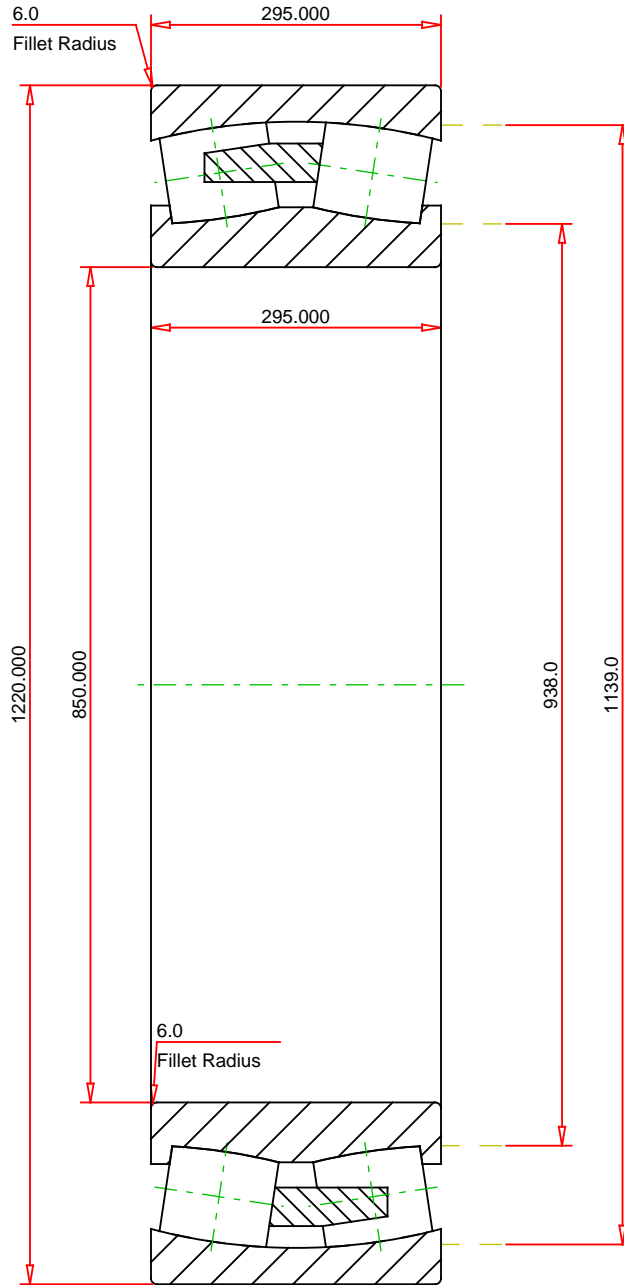
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a_{3l}.



METRIC UNITS

Number of Rollers Per Row	30
ISO Factor e	0.20
ISO Factor Y0	3.30
ISO Factor Y1	3.37
ISO Factor Y2	5.02
Bearing Weight	1048.0 kg
Cage Type	YMB
Cage Material	Brass

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

230/850YMBW896AC2 SRB ASSEMBLY		
Dynamic Radial Rating (Two Rows)	11100000	N
Static Radial Rating	23000000	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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