



The Timken Company

4500 Mt Pleasant St. NW

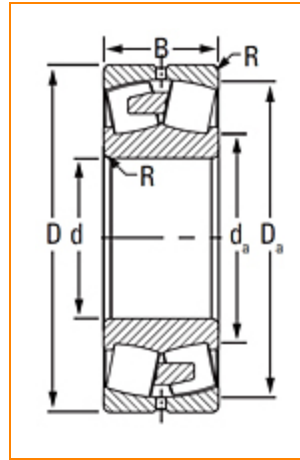
N. Canton, OH 44720

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Part Number 230/850YMBW45AW876AC2, 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.



[Specifications](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Basic Load Ratings](#) | [Factors](#)

Specifications

Design Unit	METRIC
Bearing Weight	1048.000 Kg 2305.60 lb
Cage Type	YMB
UPC Code	087796141254
Cage Material	Brass

Dimensions

d - Bore	850.000 mm 33.4650 in
D - Outer Diameter	1220.000 mm 48.0315 in

48.0320 in

B' - Inner Ring Width
295 mm
11.614 in

B - Outer Ring Width
295.000 mm
11.6140 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹
6.000 mm
0.240 in

r - Outer Ring "To Clear" Radius²
6.000 mm
0.240 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
250

(Grease)	250
Reference Thermal Speed Rating (Oil) ⁷	280
Cg - Geometry Factor ⁸	0.1384

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.

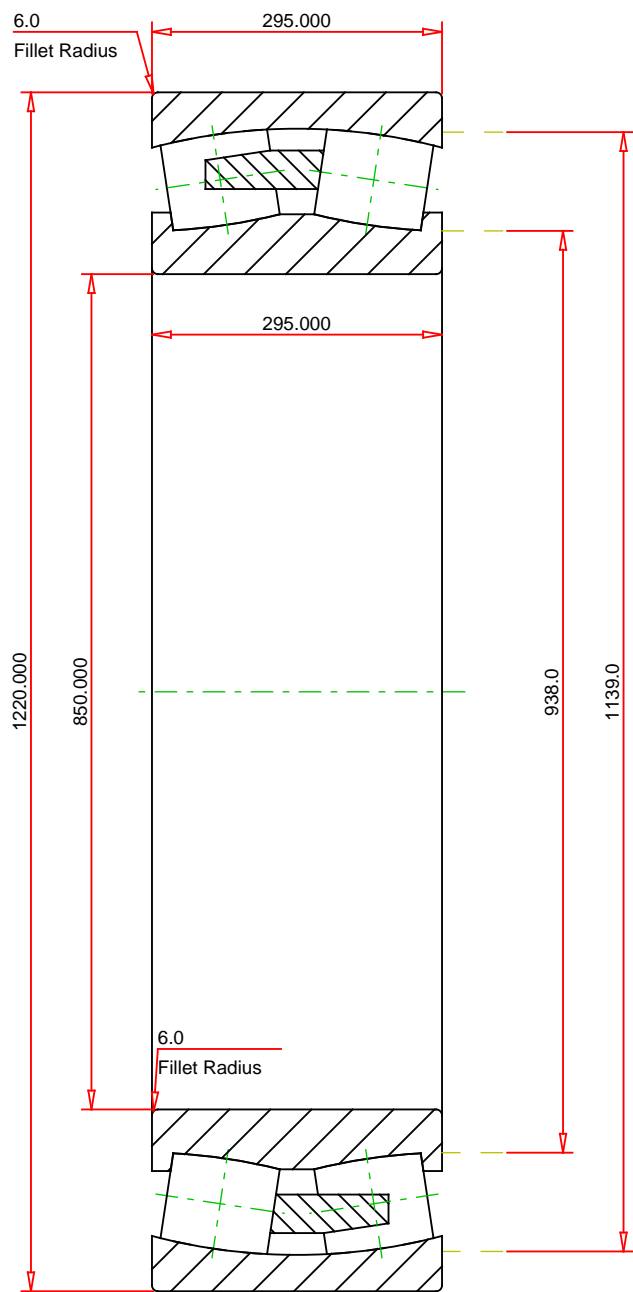
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

<div>Number of Rollers Per Row30</div> <div>ISO Factor e0.20</div> <div>ISO Factor Y03.30</div> <div>ISO Factor Y13.37</div> <div>ISO Factor Y25.02</div> <div>Bearing Weight1048.0 kg</div> <div>Cage TypeYMB</div> <div>Cage MaterialBrass</div>	<div>TIMKEN®</div>		<div>230/850YMBW45AW876AC2</div> <div>SRB ASSEMBLY</div>	
	<div>THE TIMKEN COMPANY</div> <div>NORTH CANTON, OHIO USA</div>		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.

FOR DISCUSSION ONLY