


The Timken Company

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Part Number 241/560YMBW33W45AC3, 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	560 mm
Cage Type	YMB
Cage Material	Brass

Dimensions

D - Outer Diameter	920 mm 36.221 in
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B' - Inner Ring Width	355 mm 13.976 in
B - Outer Ring Width	355 mm 13.9760 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	630.000 mm 24.800 in
Da - Outer Ring Backing Diameter	839.000 mm 33.000 in

Basic Load Ratings

C0 - Static Radial Rating	21800000 N 4900000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	11700000 N 2630000 lbf

Factors

e - ISO Factor³	0.36
Y0 - ISO Factor⁴	1.83
Y1 - ISO Factor⁵	1.87
Y2 - ISO Factor⁶	2.78
Reference Thermal Speed Rating (Grease)	160 rpm

Reference Thermal Speed Rating (Oil)⁷	170 rpm
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C_g - Geometry Factor⁸	0.1149
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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.

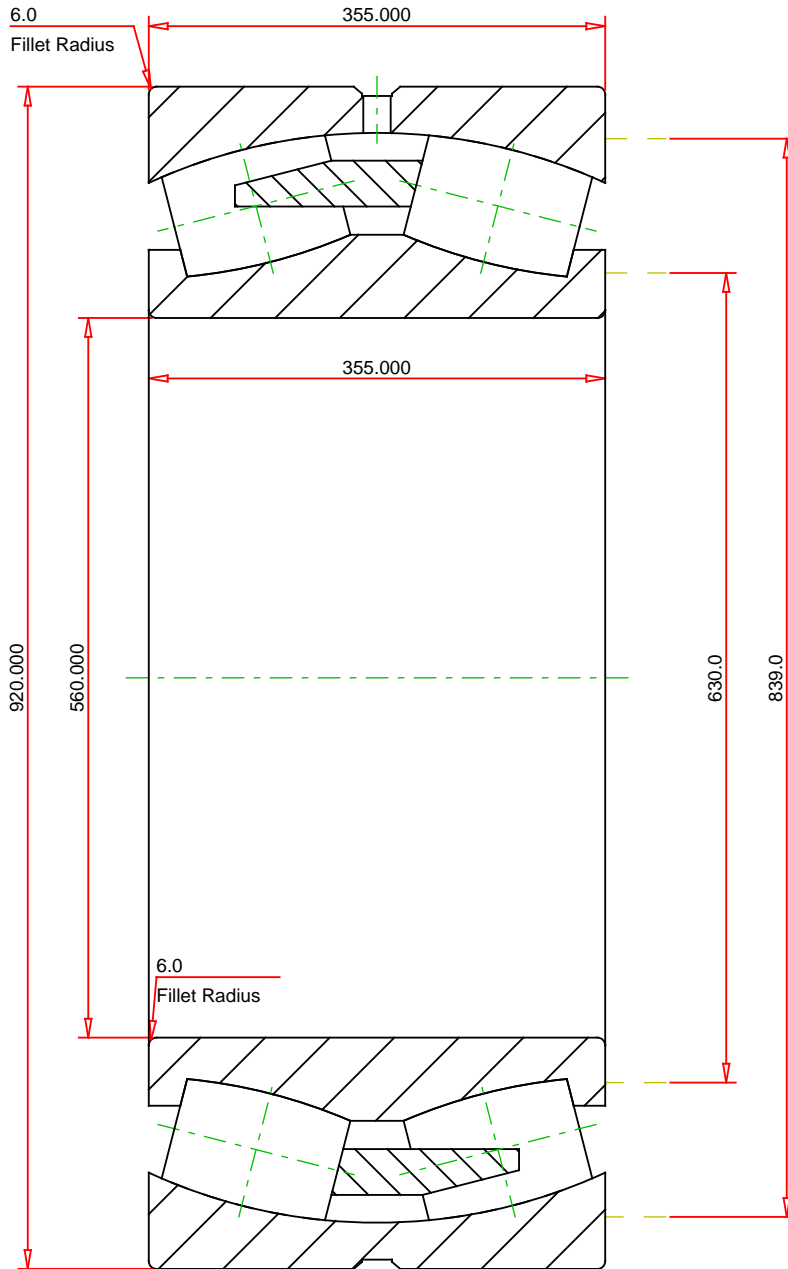
⁴ These factors apply for both inch and metric calculations. See engineering

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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	22
ISO Factor e	0.36
ISO Factor Y0	1.83
ISO Factor Y1	1.87
ISO Factor Y2	2.78
Bearing Weight	941.7 kg
Cage Type	YMB
Cage Material	Brass



241/560YMBW33W45AC3
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	1170000	N
Static Radial Rating	2180000	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