


The Timken Company

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Part Number 23172EJW509C08C2, 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	087796165007
Design Unit	Metric
d - Bore	360.000 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	23172CJW509C08C2

Factors


e - ISO Factor¹ 0.29

Y0 - ISO Factor²	2.24
Y1 - ISO Factor³	2.29
Y2 - ISO Factor⁴	3.42
Reference Thermal Speed Rating (Grease)	530 rpm
Reference Thermal Speed Rating (Oil)⁵	590 rpm
Cg - Geometry Factor⁶	0.1427

Dimensions

D - Outer Diameter	600 mm 23.6220 in
B' - Inner Ring Width	192 mm 7.559 in
B - Outer Ring Width	192 mm 7.5590 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	416 mm 16.4000 in
Da - Outer Ring Backing Diameter	546.000 mm 21.500 in

Basic Load Ratings

C0 - Static Radial Rating	7300000 N 1640000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	4660000 N 1050000 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.

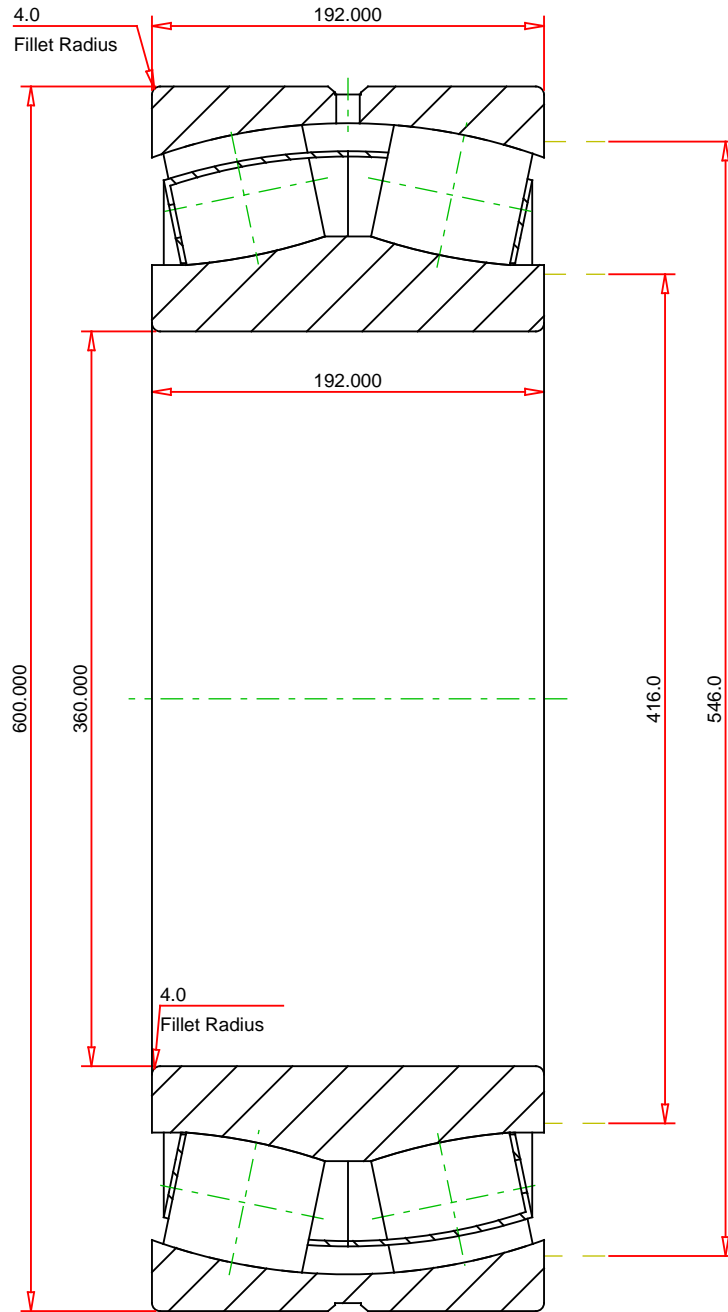
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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	0.29
ISO Factor Y0	2.24
ISO Factor Y1	2.29
ISO Factor Y2	3.42
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel



23172EJW509C08C2
SRB ASSEMBLY

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

Dynamic Radial Rating (Two Rows)	4660000	N
Static Radial Rating	7300000	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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