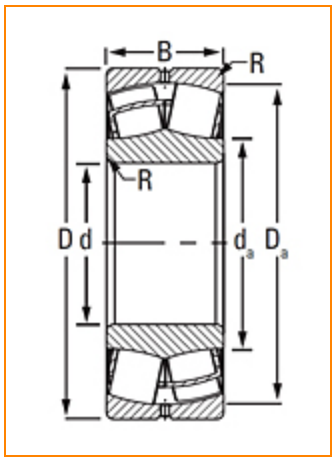
The Timken Company
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N. Canton, OH 44720
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E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 22244KEJW507C08C3, 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.





Specifications | Factors | Dimensions | Abutment and Fillet Dimensions | Basic Load Ratings

Specifications

UPC Code	087796357174
Design Unit	Metric
d - Bore	220 mm
Lubrication Type	Standard Grease
Bore_Taper	1/12
Cage Type	EJ
Cage Material	Steel
Superseded Part	22244KCJW507C08C3

s

e - ISO Factor[1]	0.27
Y0 - ISO Factor[2]	2.45
Y1 - ISO Factor[3]	2.51
Y2 - ISO Factor[4]	3.73
Reference Thermal Speed Rating (Grease)	1300 rpm
Reference Thermal Speed Rating (Oil)[5]	1500 rpm
Cg - Geometry Factor[6]	0.1057

Dimensions

D - Outer Diameter	400 mm 15.748 in
B' - Inner Ring Width	108 mm 4.252 in
B - Outer Ring Width	108 mm 4.2520 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[7]	3 mm 0.120 in
r - Outer Ring "To Clear" Radius[8]	3 mm 0.12 in
da - Inner Ring Backing Diameter	261 mm 10.3000 in
Da - Outer Ring Backing Diameter	359.000 mm 14.100 in

Basic Load Ratings

C0 - Static Radial Rating	2310000 N 520000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	1850000 N 415000 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.

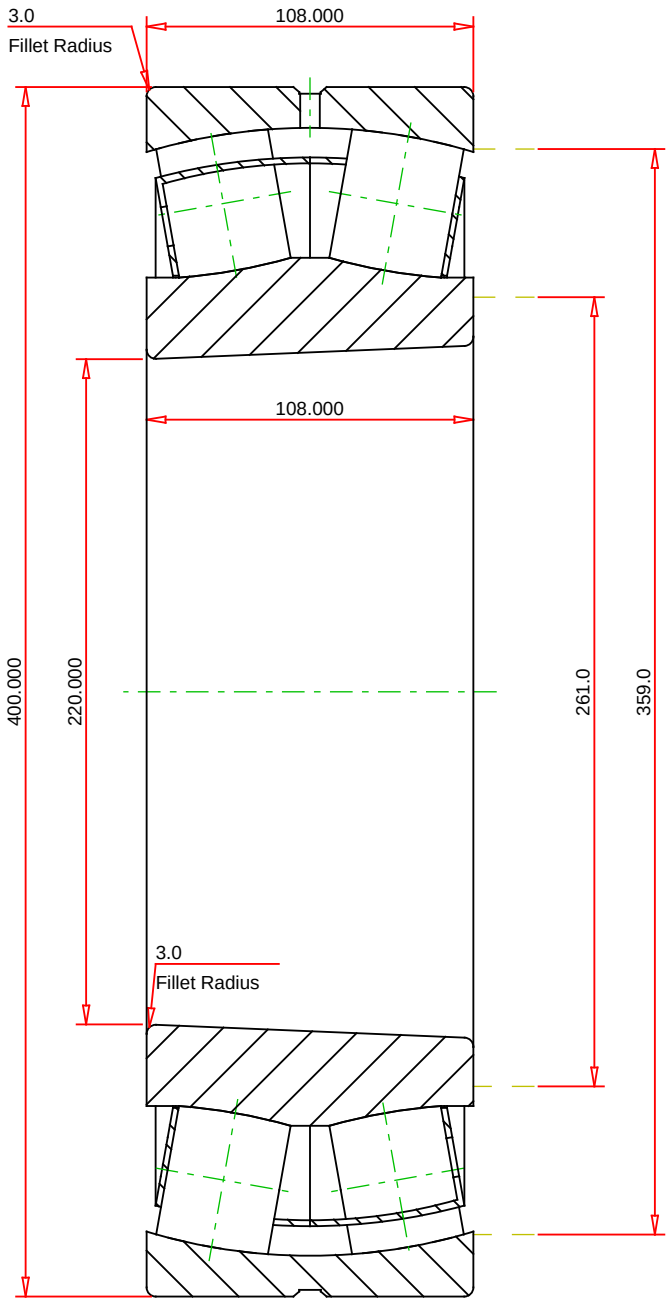
[4] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[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	18	
ISO Factor e	0.27	
ISO Factor Y0	2.45	
ISO Factor Y1	2.51	
ISO Factor Y2	3.73	
Bearing Weight		kg
Cage Type	EJ	
Cage Material	Steel	
Bore Taper	1/12	

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22244KEJW507C08C3
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	1850000	N
Static Radial Rating	2310000	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