


The Timken Company

4500 Mt Pleasant St. NW

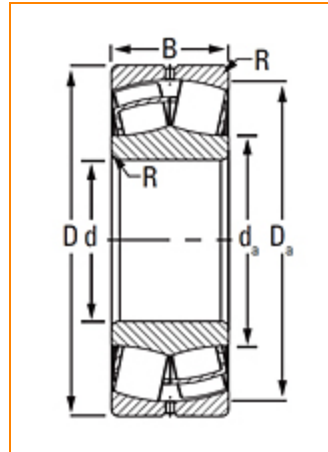
N. Canton, OH 44720

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Part Number 24148EJW33W45A, 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	087796359192
Design Unit	Metric
d - Bore	240 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	24148CJW33W45A

Factors


e - ISO Factor¹

0.37

Y0 - ISO Factor²	1.76
Y1 - ISO Factor³	1.8
Y2 - ISO Factor⁴	2.68
Reference Thermal Speed Rating (Grease)	610 rpm
Reference Thermal Speed Rating (Oil)⁵	650 rpm
Cg - Geometry Factor⁶	0.1086

Dimensions

D - Outer Diameter	400 mm 15.748 in
B' - Inner Ring Width	160 mm 6.2992 in
B - Outer Ring Width	160 mm 6.2992 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	3 mm 0.120 in
r - Outer Ring "To Clear" Radius⁸	3 mm 0.12 in
da - Inner Ring Backing Diameter	270.000 mm 10.700 in
Da - Outer Ring Backing Diameter	364 mm 14.3000 in

Basic Load Ratings

C0 - Static Radial Rating	4050000 N 912000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	2690000 N 606000 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.

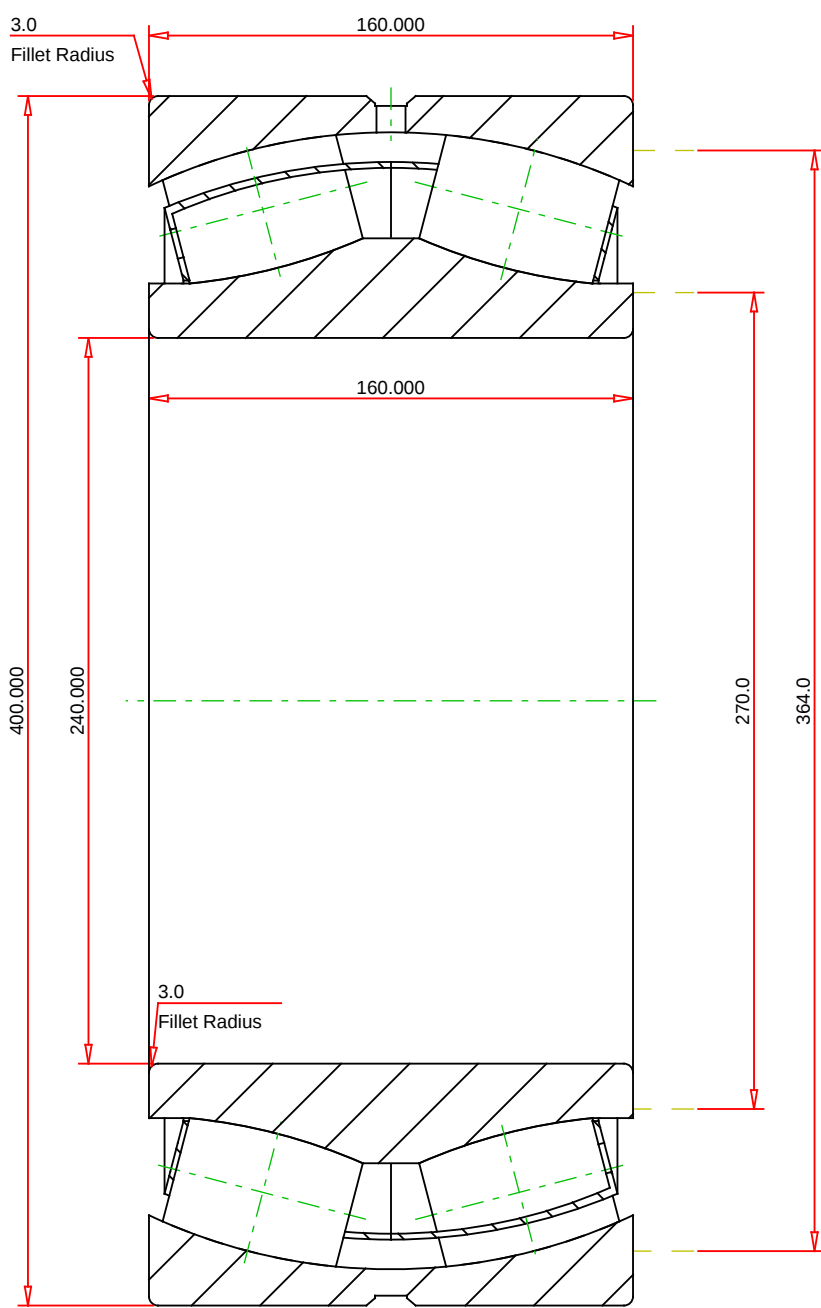
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor a_3 .

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	21
ISO Factor e	0.37
ISO Factor Y0	1.76
ISO Factor Y1	1.80
ISO Factor Y2	2.68
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel



THE TIMKEN COMPANY

NORTH CANTON, OHIO USA

24148EJW33W45A
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	2690000	N
Static Radial Rating	4050000	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