


The Timken Company

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Part Number 24020EJW841C3, 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	087796267688
Design Unit	Metric
d - Bore	100 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	24020CJW841C3

Factors


e - ISO Factor¹	0.29
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Y0 - ISO Factor²	2.26
Y1 - ISO Factor³	2.32
Y2 - ISO Factor⁴	3.45
Reference Thermal Speed Rating (Grease)	2700 rpm
Reference Thermal Speed Rating (Oil)⁵	3200 rpm
Cg - Geometry Factor⁶	0.065

Dimensions

D - Outer Diameter	150 mm 5.9055 in
B' - Inner Ring Width	50 mm 1.9685 in
B - Outer Ring Width	50 mm 1.9685 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	1.5 mm 0.060 in
r - Outer Ring "To Clear" Radius⁸	1.5 mm 0.06 in
da - Inner Ring Backing Diameter	111 mm 4.400 in
Da - Outer Ring Backing Diameter	139.000 mm 5.500 in

Basic Load Ratings

C0 - Static Radial Rating	506000 N 114000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	352000 N 79100 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.

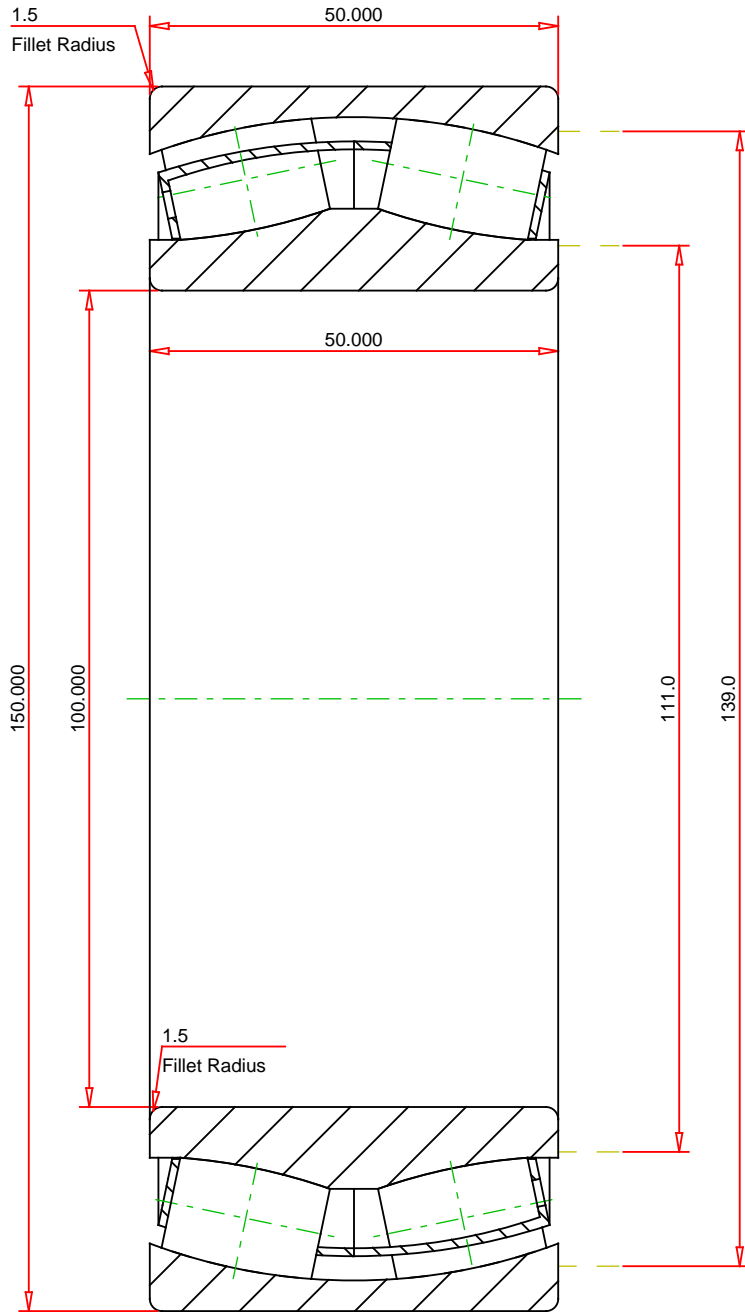
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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	23
ISO Factor e	0.29
ISO Factor Y0	2.26
ISO Factor Y1	2.32
ISO Factor Y2	3.45
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

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NORTH CANTON, OHIO USA

24020EJW841C3	
SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	352000 N
Static Radial Rating	506000 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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