

**The Timken Company**

4500 Mt Pleasant St. NW

N. Canton, OH 44720

Phone: (234) 262-3000**E-Mail:** CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number NU2313EMA, Cylindrical Roller Radial Bearings - Single Row ISO

[Specifications](#) | [Dimensions](#) | [Basic Load Ratings](#) | [Factors](#) | [Abutment and Fillet Dimensions](#)

Specifications

Design Units	Metric
d - Bore	65 mm
Type	NU

Dimensions

D - Outer Diameter	140 mm 5.5118 in
C - Inner Ring Width	48 mm 1.8898 in
B - Outer Ring Width	48 mm 1.8898 in

Basic Load Ratings

C0 - Static Radial Rating	293000 N 65900 lbf
C - Dynamic Radial Rating¹	282000 N 63300 lbf

Factors



**Reference Thermal Speed Rating
(Grease)** 3900 rpm

**Reference Thermal Speed Rating
(Oil)²** 4500 rpm

C_g - Geometry Factor³ 0.082

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁴ 2.1 mm
0.080 in

r - Outer Ring "To Clear" Radius⁵ 2.1 mm
0.080 in

da - Inner Ring Backing Diameter 77.1 mm
3.04 in

**Da - Outer Ring Backing
Diameter** 124.5 mm
4.9 in

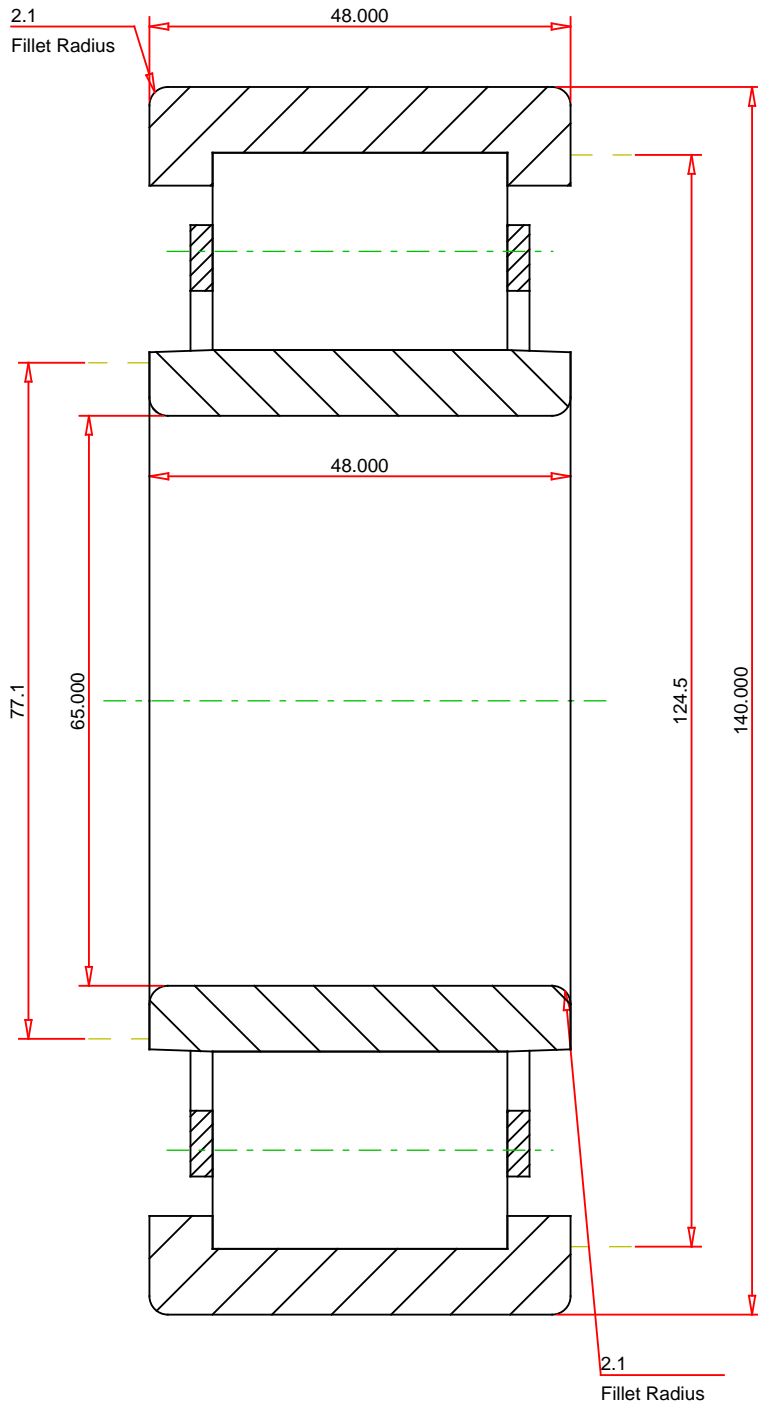
¹ Based on 1×10^6 L₁₀ life for the ISO life calculation method.

² See thermal speed ratings in the engineering section.

³ Geometry constant for Lubrication Life Adjustment Factor a_{3l}.

⁴ Maximum housing fillet radius that bearing corners will clear.

⁵ Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Rollers Per Row
 Bearing Weight 2.5 kg

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

NU2313EMA
 CYLINDRICAL ROLLER BEARING

Dynamic Radial Rating 282000 N
 Static Radial Rating 293000 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