


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 NU313EMA, 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	140.000 mm 5.5118 in
C - Inner Ring Width	33 mm 1.2992 in
B - Outer Ring Width	33 mm 1.2992 in

Basic Load Ratings

C0 - Static Radial Rating	196000 N 44100 lbf
C - Dynamic Radial Rating¹	204000 N 45900 lbf

Factors



Reference Thermal Speed Rating (Grease) 4100 rpm

Reference Thermal Speed Rating (Oil)² 4800 rpm

Cg - Geometry Factor³ 0.075

Abutment and Fillet Dimensions

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

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

da - Inner Ring Backing Diameter 78.2 mm
3.08 in

Da - Outer Ring Backing Diameter 124.5 mm
4.9 in

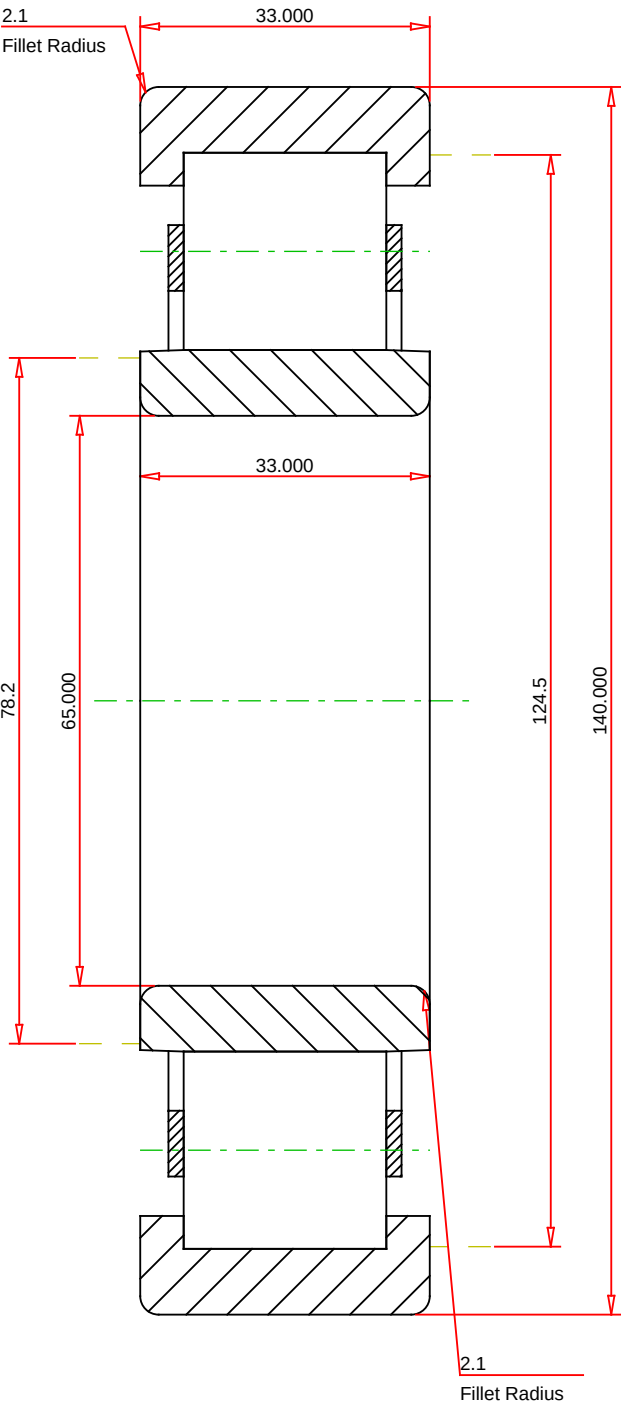
¹ Based on 1×10^6 L₁₀ life for the ISO life calculation method.

² See thermal speed ratings in the engineering section.

³ Geometry constant for Lubrication Life Adjustment Factor a3l.

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

NU313EMA
CYLINDRICAL ROLLER BEARING

Dynamic Radial Rating 204000 N
Static Radial Rating 196000 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