


The Timken Company

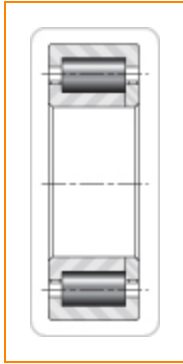
4500 Mt Pleasant St. NW

N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number NUP230EMA, Cylindrical Roller Radial Bearings - Single Row ISO


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

Specifications

Design Units	Metric
d - Bore	150 mm
Type	NUP

Dimensions

D - Outer Diameter	270 mm 10.6299 in
C - Inner Ring Width	37.545 mm 1.4781 in
B - Outer Ring Width	45 mm 1.7717 in

Basic Load Ratings



C0 - Static Radial Rating	607000 N 136000 lbf
----------------------------------	------------------------

C - Dynamic Radial Rating¹	506000 N 114000 lbf
--	------------------------

Factors

Reference Thermal Speed Rating (Grease)	1800 rpm
--	----------

Reference Thermal Speed Rating (Oil)²	2100 rpm
---	----------

Cg - Geometry Factor³	0.1076
---	--------

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁴	2.5 mm 0.100 in
---	--------------------

r - Outer Ring "To Clear" Radius⁵	2.5 mm 0.1 in
---	------------------

da - Inner Ring Backing Diameter	182 mm 7.2000 in
---	---------------------

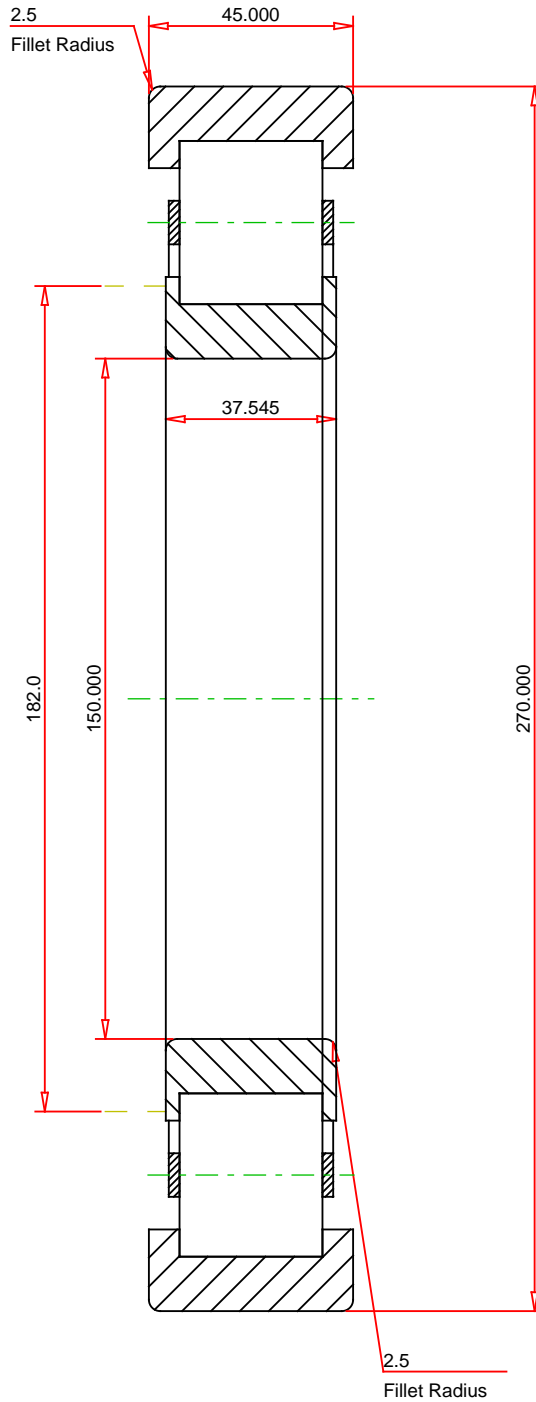
¹ Based on 1×10^6 L₁₀ life for the ISO life calculation method.

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 19
 Bearing Weight 12.1 kg



NUP230EMA
 CYLINDRICAL ROLLER BEARING

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

Dynamic Radial Rating 506000 N
 Static Radial Rating 607000 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