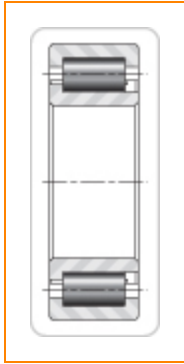




The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number NJ219EMA, Cylindrical Roller Radial Bearings - Single Row ISO



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

Specifications

Design Units	Metric
d - Bore	95 mm
Type	NJ

Dimensions

D - Outer Diameter	170 mm 6.6929 in
C - Inner Ring Width	32 mm 1.2598 in
B - Outer Ring Width	32 mm 1.2598 in

Basic Load Ratings



C0 - Static Radial Rating 271000 N
60900 lbf

C - Dynamic Radial Rating¹ 248000 N
55800 lbf

Factors

Reference Thermal Speed Rating (Grease) 3100 rpm

Reference Thermal Speed Rating (Oil)² 3600 rpm

Cg - Geometry Factor³ 0.090

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁴ 2 mm
0.100 in

r - Outer Ring "To Clear" Radius⁵ 2 mm
0.1 in

da - Inner Ring Backing Diameter 109 mm
4.3000 in

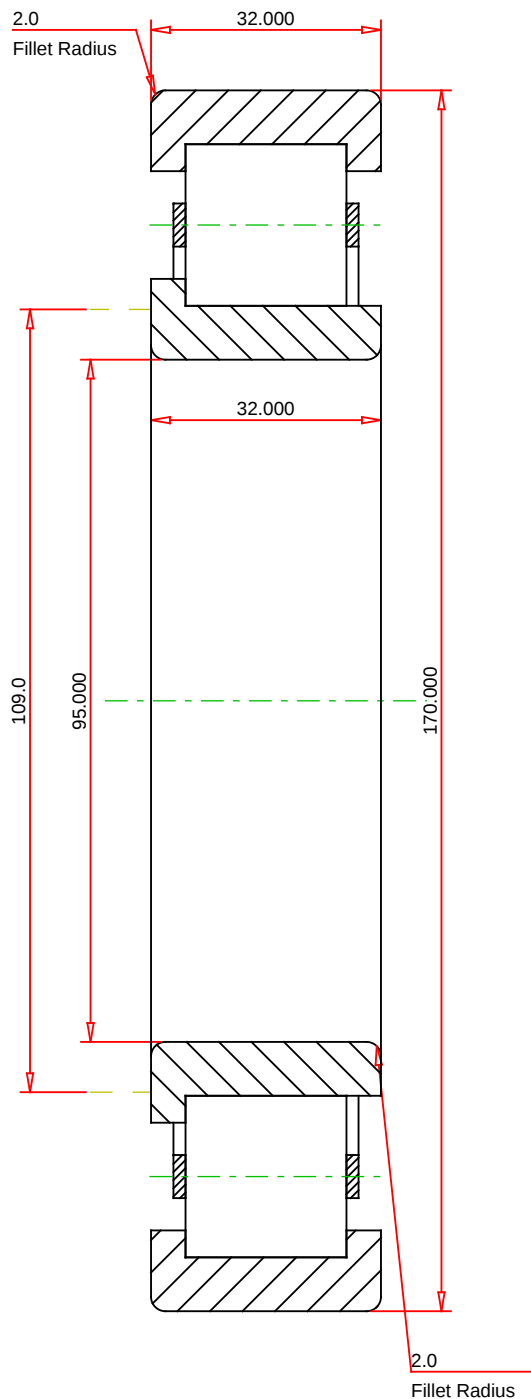
¹ Based on 1×10^6 L₁₀ life for the ISO life calculation method.

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 17
Bearing Weight 3.2 kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

NJ219EMA
CYLINDRICAL ROLLER BEARING

Dynamic Radial Rating 248000 N
Static Radial Rating 271000 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