


The Timken Company

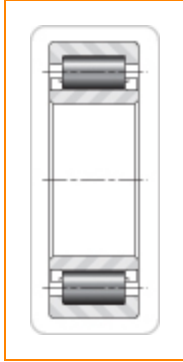
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Part Number NU319EMA, Cylindrical Roller Radial Bearings - Single Row ISO


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Specifications

Design Units	Metric
d - Bore	95 mm
Type	NU

Dimensions

D - Outer Diameter	200 mm 7.874 in
C - Inner Ring Width	45 mm 1.7717 in
B - Outer Ring Width	45 mm 1.7717 in

Basic Load Ratings



C0 - Static Radial Rating	395000 N 88800 lbf
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C - Dynamic Radial Rating¹	379000 N 85200 lbf
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Factors

Reference Thermal Speed Rating (Grease)	3100 rpm
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Reference Thermal Speed Rating (Oil)²	3500 rpm
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Cg - Geometry Factor³	0.099
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁴	2.5 mm 0.100 in
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r - Outer Ring "To Clear" Radius⁵	2.5 mm 0.1 in
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da - Inner Ring Backing Diameter	115 mm 4.5000 in
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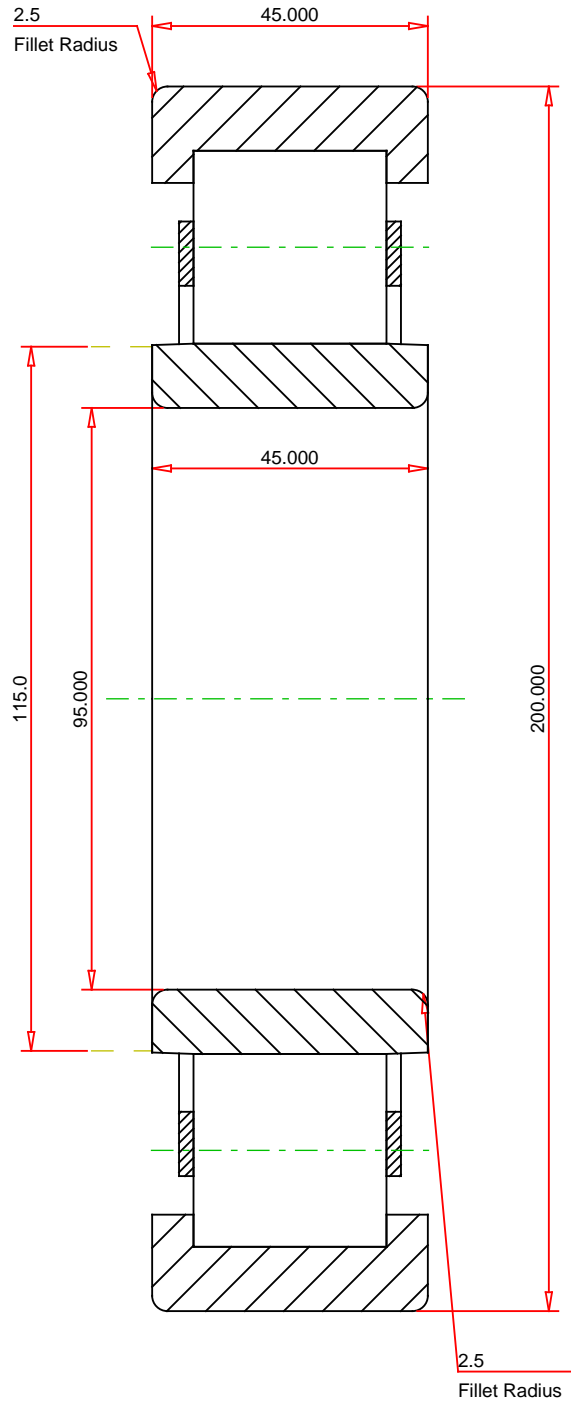
¹ Based on 1×10^6 L₁₀ life for the ISO life calculation method.

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	14
Bearing Weight	7.1 kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

NU319EMA CYLINDRICAL ROLLER BEARING	
Dynamic Radial Rating	379000 N
Static Radial Rating	395000 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