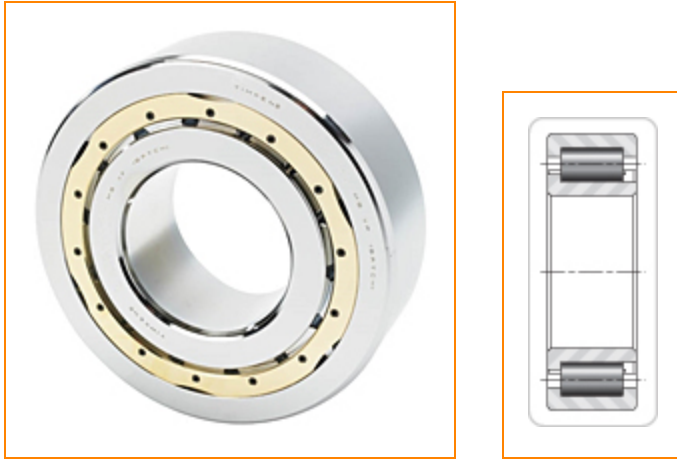




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Timken Part Number NJ218EMA, Cylindrical Roller Radial Bearings - Single Row ISO



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

Specifications

Design Units	METRIC
Bearing Weight	2.7 Kg 6 lb
Type	NJ
Tapered Bore	N

Dimensions

d - Bore	90 mm 3.5433 in
D - Outer Diameter	160 mm 6.2992 in
C - Inner Ring Width	30 mm 1.1811 in

B - Outer Ring Width	30 mm 1.1811 in
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Basic Load Ratings

C0 - Static Radial Rating	225000 N 50600 lbf
C - Dynamic Radial Rating¹	206000 N 46300 lbf

Factors

Reference Thermal Speed Rating (Grease)	3300
Reference Thermal Speed Rating (Oil)²	3900
Cg - Geometry Factor³	0.0851

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁴	2.0 mm 0.100 in
r - Outer Ring "To Clear" Radius⁵	2.0 mm 0.100 in
da - Inner Ring Backing Diameter	104.0 mm 4.100 in
Da - Outer Ring Backing Diameter	0.000 mm 0.000 in

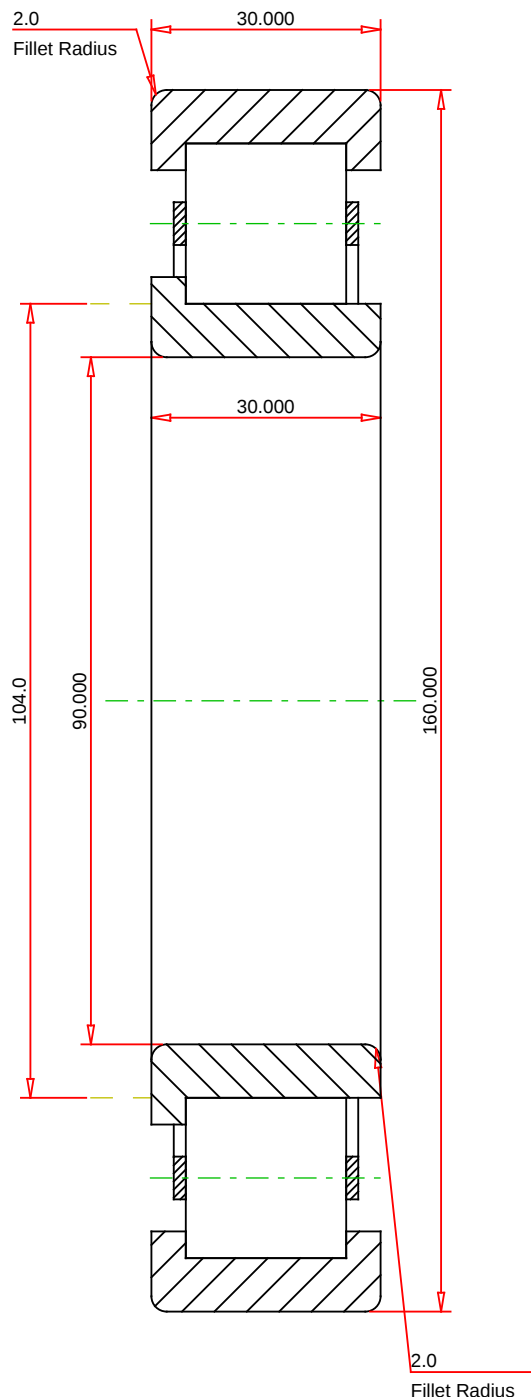
¹ Based on 1×10^6 L₁₀ life for the ISO life calculation method.

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 2.7 kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

NJ218EMA
CYLINDRICAL ROLLER BEARING

Dynamic Radial Rating 206000 N
Static Radial Rating 225000 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