NCF 2952 CVSingle row full complement cylindrical roller bearing, NCF design

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Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	360 mm
Width	60 mm

Performance

Basic dynamic load rating	737 kN
Basic static load rating	1 430 kN
Reference speed	750 r/min
Limiting speed	950 r/min

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Without
Design	Non-separable
Number of flanges, outer ring	1
Number of flanges, inner ring	2
Loose flange	None

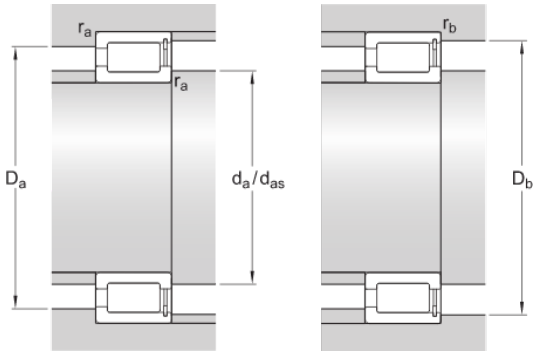
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

NOT FOUND

Dimensions

d	260 mm	Bore diameter
D	360 mm	Outside diameter
B	60 mm	Width
d_1	≈ 291 mm	Shoulder diameter inner ring
D_1	≈ 323 mm	Shoulder diameter outer ring
E	333.7 mm	Raceway diameter outer ring
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 271 mm	Abutment diameter shaft
d_{as}	287 mm	Abutment diameter shaft
D_a	max. 348 mm	Abutment diameter housing
D_b	max. 350 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	737 kN
Basic static load rating	C_0	1 430 kN
Fatigue load limit	P_u	143 kN
Reference speed		750 r/min
Limiting speed		950 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	18.6 kg

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