

NCF 2934 CV



Single row full complement cylindrical roller bearing, NCF design

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	170 mm
Outside diameter	230 mm
Width	36 mm

Performance

Basic dynamic load rating	314 kN
Basic static load rating	560 kN
Reference speed	1 200 r/min
Limiting speed	1 500 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
Coating	Without
Sealing	Without

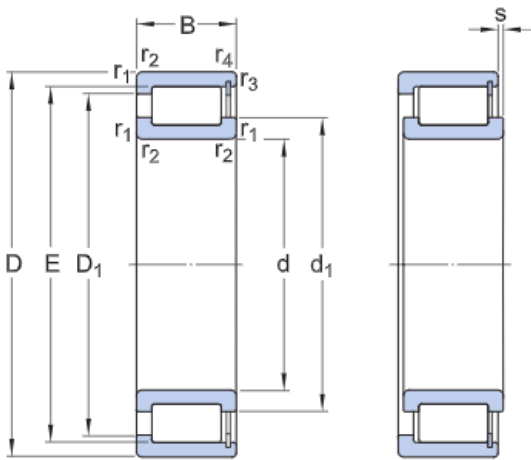
Lubricant

None

Relubrication feature

Without

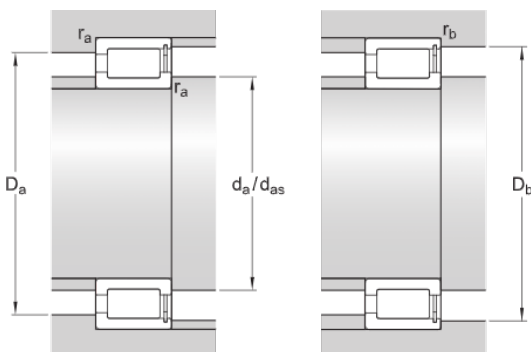
Technical Specification



Dimensions

d	170 mm	Bore diameter
D	230 mm	Outside diameter
B	36 mm	Width
d_1	≈ 191 mm	Shoulder diameter inner ring
D_1	≈ 211 mm	Shoulder diameter outer ring
E	218 mm	Raceway diameter outer ring
s	max. 2.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension

Abutment dimensions



d_a	min. 179 mm	Abutment diameter shaft
d_{as}	188 mm	Abutment diameter shaft
D_a	max. 221 mm	Abutment diameter housing
D_b	max. 223 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	314 kN
Basic static load rating	C_0	560 kN
Fatigue load limit	P_u	60 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing		4.06 kg
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