

# NCF 2932 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	160 mm
Outside diameter	220 mm
Width	36 mm

## Performance

Basic dynamic load rating	303 kN
Basic static load rating	530 kN
Reference speed	1 300 r/min
Limiting speed	1 600 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

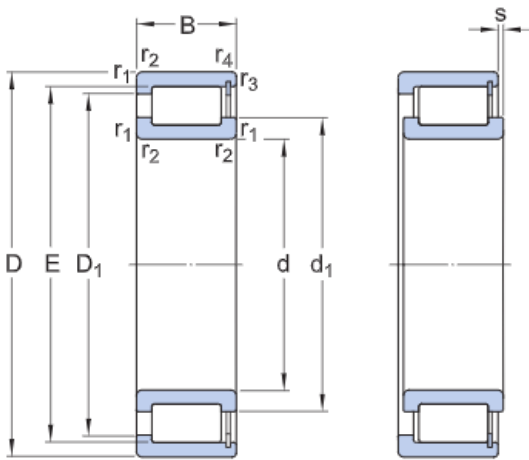
Lubricant

None

Relubrication feature

Without

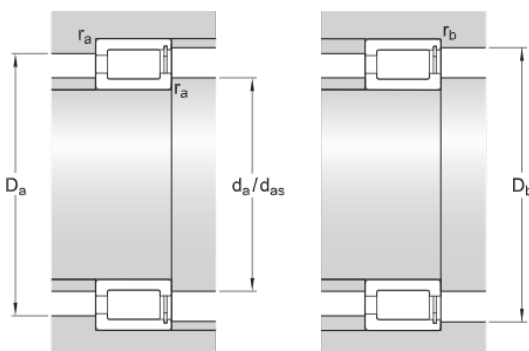
## Technical Specification



### Dimensions

d	160 mm	Bore diameter
D	220 mm	Outside diameter
B	36 mm	Width
$d_1$	$\approx 180$ mm	Shoulder diameter inner ring
$D_1$	$\approx 200$ mm	Shoulder diameter outer ring
E	207.2 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. 169 mm	Abutment diameter shaft
$d_{a\epsilon}$	177 mm	Abutment diameter shaft
$D_a$	max. 211 mm	Abutment diameter housing
$D_b$	max. 211 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	303 kN
Basic static load rating	$C_0$	530 kN
Fatigue load limit	$P_u$	58.5 kN
Reference speed		1 300 r/min
Limiting speed		1 600 r/min
Calculation factor	$k_r$	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

## Mass

Mass bearing		3.95 kg
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