

# N 308 ECP



## Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

## Overview

### Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

## Performance

Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Reference speed	8 000 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

### Properties

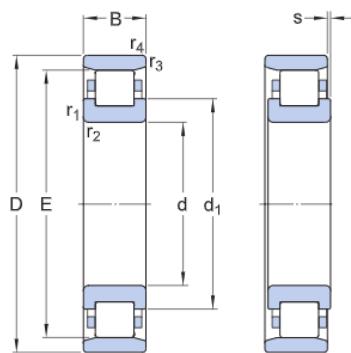
Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	0
Number of flanges, inner ring	2
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

# Technical Specification

SKF performance class

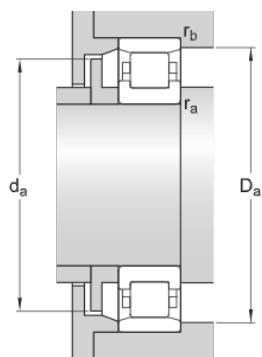
SKF Explorer

## Dimensions



d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
$d_1$	$\approx 57.5$ mm	Shoulder diameter of inner ring
E	80 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement

## Abutment dimensions



$d_a$	min. 48 mm	Diameter of spacer sleeve
$d_a$	max. 78 mm	Diameter of spacer sleeve
$D_a$	min. 82 mm	Diameter of housing abutment
$D_a$	max. 83.2 mm	Diameter of housing abutment
$r_a$	max. 1.5 mm	Radius of fillet
$r_b$	max. 1.5 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	$C_0$	78 kN
Fatigue load limit	$P_u$	10.2 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	$k_r$	0.12
Limiting value	$e$	0.2
Calculation factor	$\gamma$	0.6

## Mass

Mass	0.63 kg
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