

## **NJ 310 ECP**



### Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. 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
- Locate the shaft axially in one direction
- Separable design

### Overview

### **Dimensions**

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

#### Performance

Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

### **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	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None



Relubrication feature Without

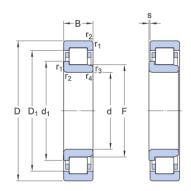
# Logistics

Product net weight	1.17 kg
UNSPSC code	31171505



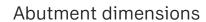
# **Technical Specification**

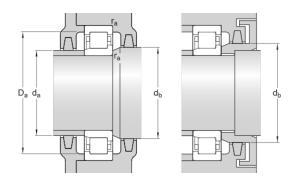
SKF performance class SKF Explorer



## Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
В	27 mm	Width
$\operatorname{d}_1$	≈ 71.2 mm	Shoulder diameter of inner ring
$D_1$	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
r <sub>1,2</sub>	min. 2 mm	Chamfer dimension
r <sub>3,4</sub>	min. 2 mm	Chamfer dimension
S	max. 1.9 mm	Permissible axial displacement





d <sub>a</sub>	min. 60 mm	Diameter of spacer sleeve
d <sub>a</sub>	max. 63 mm	Diameter of spacer sleeve
$d_b$	min. 73 mm	Diameter of shaft abutment
$D_a$	max. 99.6 mm	Diameter of housing abutment
ra	max. 2 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	С	127 kN
Basic static load rating	$C_0$	112 kN



Fatigue load limit	$P_{u}$	15 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k <sub>r</sub>	0.15
Limiting value	е	0.2
Calculation factor	Υ	0.6

## Mass

Mass 1.17 kg

# Associated products

Angle ring HJ 310 EC



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