Image may differ from product. See technical specification for details.

NU 213 ECP

Single row cylindrical roller bearing, NU 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 no flanges on the inner ring, NU 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	2.559 in
Outside diameter	4.724 in
Width	0.906 in

Performance

Basic dynamic load rating	27 427 lbf
Basic static load rating	26 527 lbf
Reference speed	6 300 r/min
Limiting speed	6 700 r/min
SKF performance class	SKF Explorer

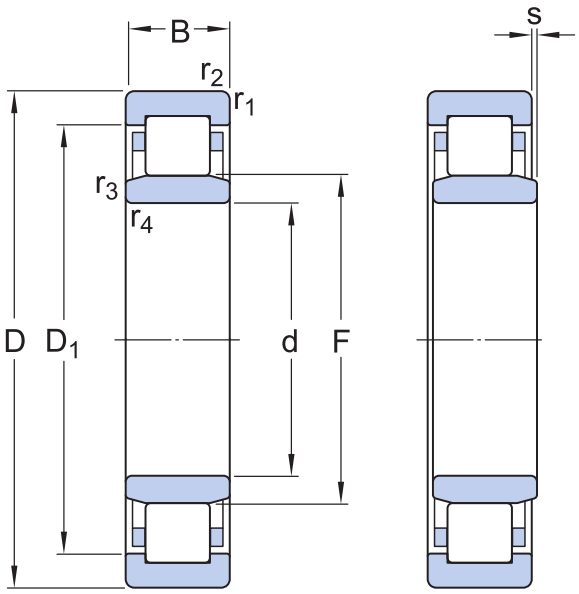
Properties

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	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

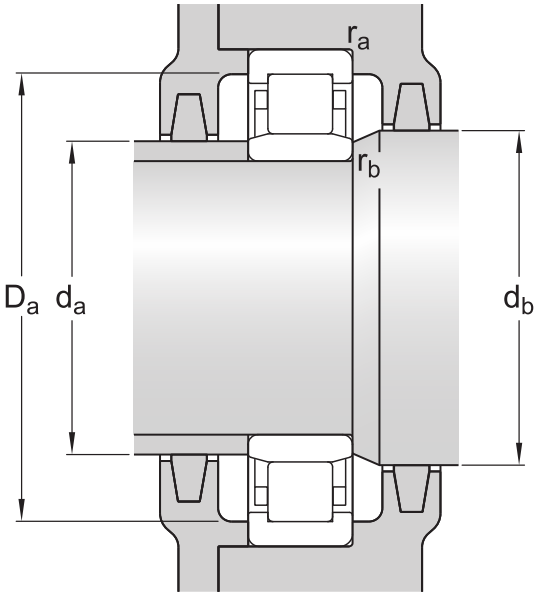
Product net weight	2.233 lb
UNSPSC code	31171505

Technical specification



Dimensions

d	2.559 in	Bore diameter
D	4.724 in	Outside diameter
B	0.906 in	Width
D_1	≈ 4.063 in	Shoulder diameter of outer ring
F	3.091 in	Raceway diameter of inner ring
$r_{1,2}$	min. 0.059 in	Chamfer dimension
$r_{3,4}$	min. 0.059 in	Chamfer dimension
s	max. 0.055 in	Permissible axial displacement



Abutment dimensions

d_a	min. 2.913 in	Diameter of spacer sleeve
d_a	max. 2.992 in	Diameter of spacer sleeve
d_b	min. 3.189 in	Diameter of shaft abutment
D_a	max. 4.354 in	Diameter of housing abutment
r_a	max. 0.059 in	Radius of fillet
r_b	max. 0.059 in	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	27 427 lbf
Basic static load rating	C_0	26 527 lbf
Fatigue load limit	P_u	3 507 lbf
Reference speed		6 300 r/min
Limiting speed		6 700 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Associated products

Angle ring	HJ 213 EC

Compatible products

Recommended product

Angle ring (L-shaped thrust collar) for single row cylindrical roller bearings, NU or NJ design	HJ 213 EC

More Information

Product details

- Designs and variants
- General bearing specifications
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing failure and how to prevent it

Tools

- SimPro Quick
- SKF Product select
- Bearing Frequency Calculator
- LubeSelect for SKF greases
- Heater selection tool
- Oil Injection Method Program

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