



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

NJ 306 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	1.181 in
Outside diameter	2.835 in
Width	0.748 in

Performance

Basic dynamic load rating	13 151 lbf
Basic static load rating	10 791 lbf
Reference speed	11 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

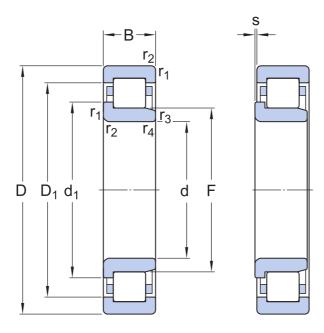
Properties

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

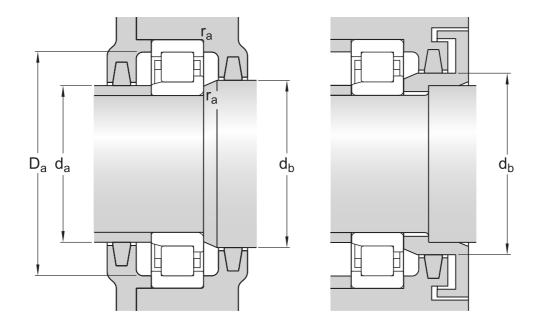
Product net weight	0.8223 lb
UNSPSC code	31171505

Technical specification



Dimensions

d	1.181 in	Bore diameter
D	2.835 in	Outside diameter
В	0.748 in	Width
d_1	≈ 1.772 in	Shoulder diameter of inner ring
D_1	≈ 2.297 in	Shoulder diameter of outer ring
F	1.594 in	Raceway diameter of inner ring
r _{1,2}	min. 0.043 in	Chamfer dimension
r _{3,4}	min. 0.043 in	Chamfer dimension
S	max. 0.055 in	Permissible axial displacement



Abutment dimensions

d _a	min. 1.457 in	Diameter of spacer sleeve
d _a	max. 1.535 in	Diameter of spacer sleeve
d _b	min. 1.85 in	Diameter of shaft abutment
D _a	max. 2.563 in	Diameter of housing abutment
r _a	max. 0.039 in	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	13 151 lbf
Basic static load rating	C_0	10 791 lbf
Fatigue load limit	P _u	1 394 lbf
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k _r	0.15
Limiting value	е	0.2
Calculation factor	Υ	0.6

Associated products

Angle ring 🖸 HJ 306 EC

Compatible products

Recommended product

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

HJ 306 EC

More Information

Engineering Tools Product details information SimPro Quick Designs and variants Principles of rolling bearing selection General bearing specifications SKF Product select General bearing knowledge Loads Bearing Frequency Calculator Bearing selection process Temperature limits LubeSelect for SKF greases Bearing failure and how to prevent it Permissible speed Heater selection tool Oil Injection Method Program Design considerations Designation system



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