



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

NUP 2305 ECP

Single row cylindrical roller bearing, NUP 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 integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially 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
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	0.984 in
Outside diameter	2.441 in
Width	0.945 in

Performance

Basic dynamic load rating	14 388 lbf
Basic static load rating	12 364 lbf
Reference speed	12 000 r/min
Limiting speed	15 000 r/min
SKF performance class	SKF Explorer

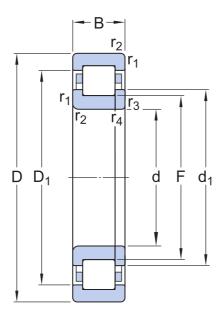
Properties

Bearing part	Complete bearing
Axial displacement capability	None
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	Inner ring loose flange
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

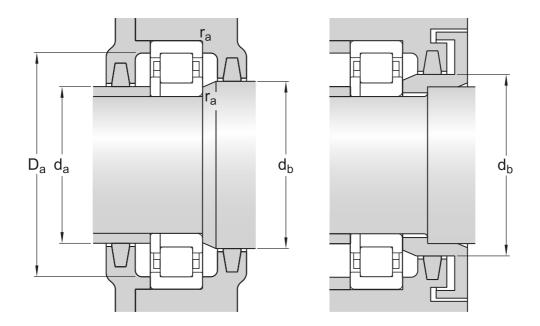
Product net weight	0.7855 lb
UNSPSC code	31171505

Technical specification



Dimensions

d	0.984 in	Bore diameter
D	2.441 in	Outside diameter
В	0.945 in	Width
d_1	≈ 1.5 in	Shoulder diameter of inner ring
D_1	≈ 1.974 in	Shoulder diameter of outer ring
F	1.339 in	Raceway diameter of inner ring
r _{1,2}	min. 0.043 in	Chamfer dimension
r _{3,4}	min. 0.043 in	Chamfer dimension of loose flange ring



Abutment dimensions

d _a	min. 1.22 in	Diameter of spacer sleeve
d_b	min. 1.575 in	Diameter of shaft abutment
D _a	max. 2.161 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	14 388 lbf
Basic static load rating	C_0	12 364 lbf
Fatigue load limit	P_{u}	1 562 lbf
Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k _r	0.25
Limiting value	е	0.3
Calculation factor	Υ	0.4

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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