

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

NNF 5005 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	47 mm
Width	30 mm

Performance

Basic dynamic load rating	50.1 kN
Basic static load rating	65.5 kN
Limiting speed	3 000 r/min

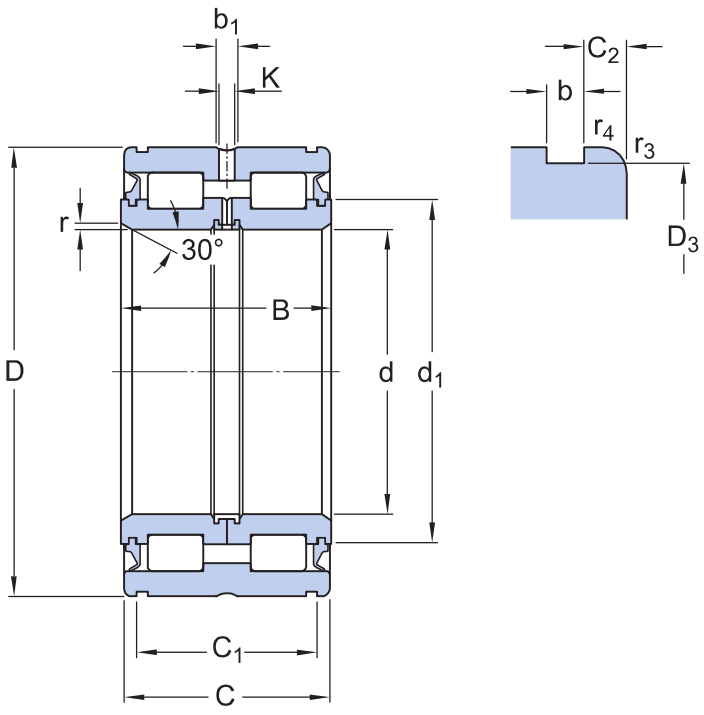
Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	2
Locating feature, bearing outer ring	Snap ring groove
Bore type	Cylindrical
Cage	Without
Number of flanges, outer ring	1
Number of flanges, inner ring	2
Loose flange	None
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With

Logistics

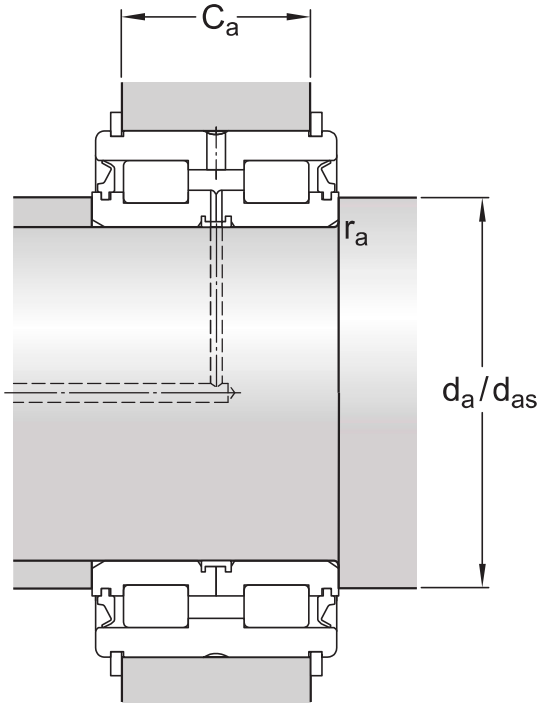
Product net weight	0.224 kg
UNSPSC code	31171505

Technical specification



Dimensions

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	30 mm	Width
C	29 mm	Outer ring width (sealed bearing)
d_1	≈ 35.4 mm	Shoulder diameter inner ring
D_3	45.2 mm	Snap ring groove diameter at outer ring
C_1	24.7 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.15 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	1.8 mm	Width snap ring groove outer ring
b_1	6.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 0.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 29 mm	Abutment diameter shaft
d_{as}	33.6 mm	Abutment diameter shaft
C_{a1}	21.5 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a (SW snap rings)
C_{a2}	21 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a (DIN 471 snap rings)
r_a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	50.1 kN
Basic static load rating	C_0	65.5 kN
Fatigue load limit	P_u	6.8 kN
Limiting speed		3 000 r/min
Minimum load factor	k_r	0.4

Associated products

Snap ring Seeger	SW 47
Snap ring in accordance with DIN 471	47x1.75

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal
- Radial internal clearance: table
- Axial internal clearance

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

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
- LubeSelect for SKF greases
- Heater selection tool
- Oil Injection Method Program

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