



SKF NNF 5024 ADA-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	120 mm
Outside diameter	180 mm
Width	80 mm

Performance

Basic dynamic load rating	429 kN
Basic static load rating	750 kN
Limiting speed	700 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

Technical Specification

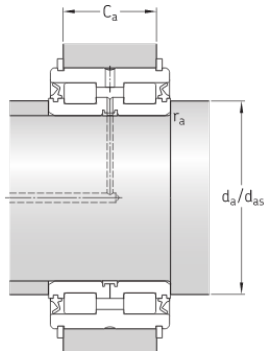


Dimensions

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 141.5 mm	Shoulder diameter inner ring
D_3	176 mm	Snap ring groove diameter at outer ring
E	164 mm	Raceway diameter outer ring
C_1	71.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	3.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 127 mm	Abutment diameter shaft
d_{ae}	138	Abutment diameter shaft



	mm	
C_{a1}	65 mm	Abutment width applying for SW snap rings (sealed brg.)
	- 0.2 mm	Tolerance for abutment C_a
C_{a2}	63 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	- 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	429 kN
Basic static load rating	C_0	750 kN
Fatigue load limit	P_u	86.5 kN
Limiting speed		700 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	6.9 kg
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Associated products

Snap ring Seeger	SW 180
Snap ring in accordance with DIN 471	180x4

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