



NNF 5022 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	110 mm
Outside diameter	170 mm
Width	80 mm

Performance

Basic dynamic load rating	413 kN
Basic static load rating	695 kN
Limiting speed	750 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

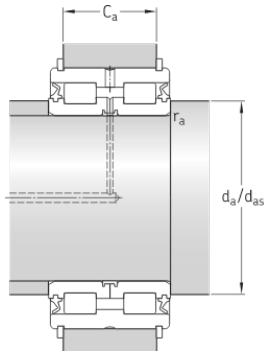


Dimensions

d	110 mm	Bore diameter
D	170 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d ₁	≈ 132 mm	Shoulder diameter inner ring
D ₃	167 mm	Snap ring groove diameter at outer ring
E	154.5 mm	Raceway diameter outer ring
C ₁	70.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C ₁
C ₂	4.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b ₁	6 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. 117 mm	Abutment diameter shaft
d _{as}	128	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}	62 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	413 kN
Basic static load rating	C_0	695 kN
Fatigue load limit	P_u	81.5 kN
Limiting speed		750 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	6.45 kg
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Associated products

Snap ring Seeger	SW 170
Snap ring in accordance with DIN 471	170x4

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