

NNF 5018 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	90 mm
Outside diameter	140 mm
Width	67 mm

Performance

Basic dynamic load rating	319 kN
Basic static load rating	550 kN
Limiting speed	900 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
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact

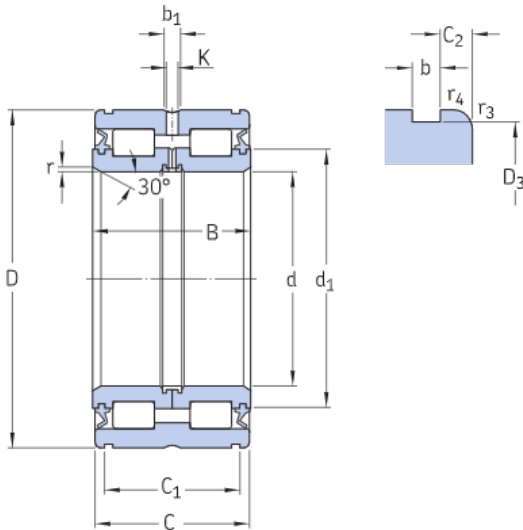
Lubricant

Grease

Relubrication feature

With

Technical Specification

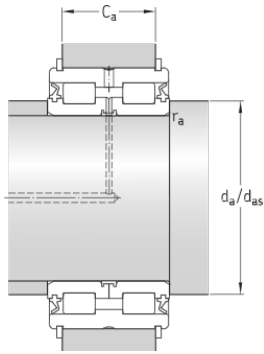


Dimensions

d	90 mm	Bore diameter
D	140 mm	Outside diameter
B	67 mm	Width
C	66 mm	Outer ring width (sealed bearing)
d ₁	≈ 109.5 mm	Shoulder diameter inner ring
D ₃	137 mm	Snap ring groove diameter at outer ring
E	127.5 mm	Raceway diameter outer ring
C ₁	59.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C ₁
C ₂	3.4 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. 1.5 mm	Chamfer dimension (sealed bearing)
r _{3,4}	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d _a	min. 96 mm	Abutment diameter shaft
d _a	106 mm	Abutment diameter shaft
C _e	54 mm	Abutment width applying for SW snap rings



		(sealed brg.)
- 0.2 mm	Tolerance for abutment C_a	
C_a 51 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
- 0.2 mm	Tolerance for abutment C_a	
r_a max. 1 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	319 kN
Basic static load rating	C_0	550 kN
Fatigue load limit	P_u	69.5 kN
Limiting speed		900 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	3.71 kg
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Associated products

Snap ring Seeger	SW 140
Snap ring in accordance with DIN 471	140x4

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