



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

NKIB 5907

Combined needle roller / angular contact ball bearing for axial loads in both directions

These bearings consist of a radial needle roller bearing combined with an angular contact ball bearing. Together they can accommodate both heavy radial loads and light axial loads in both directions. In addition, they can operate at high speeds. Their low cross-sectional

height makes the bearings particularly suitable for applications where other types of locating bearing arrangements occupy too much space.

- Accommodate both radial and axial loads
- High load carrying capacity
- High-speed capability
- Low cross section
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	55 mm
Width	30 mm

Performance

Reference speed	9 500 r/min
Limiting speed	11 000 r/min

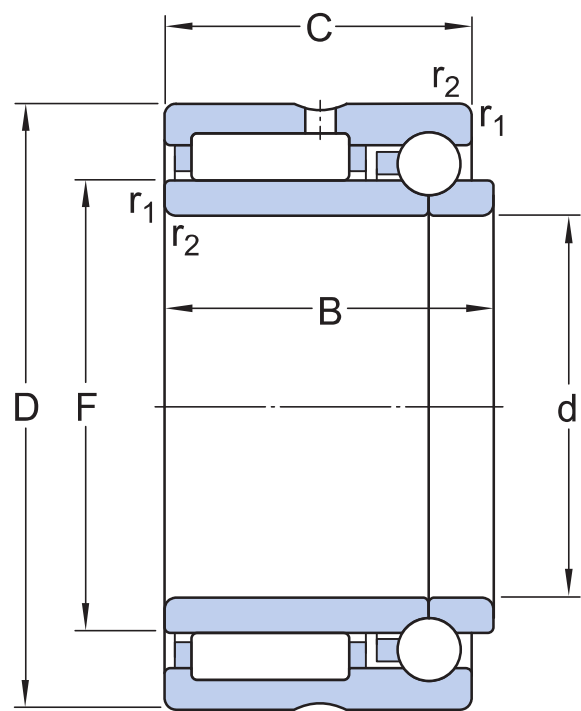
Properties

Bearing part	Complete bearing
Thrust part	With cage
Radial part	With cage
Rolling element (thrust part)	Balls
Axial load capability	Double-direction
Radial internal clearance	CN
Tolerance class	Other
Material, bearing	Bearing steel
Coating	Without
Lubricant (thrust part)	None

Logistics

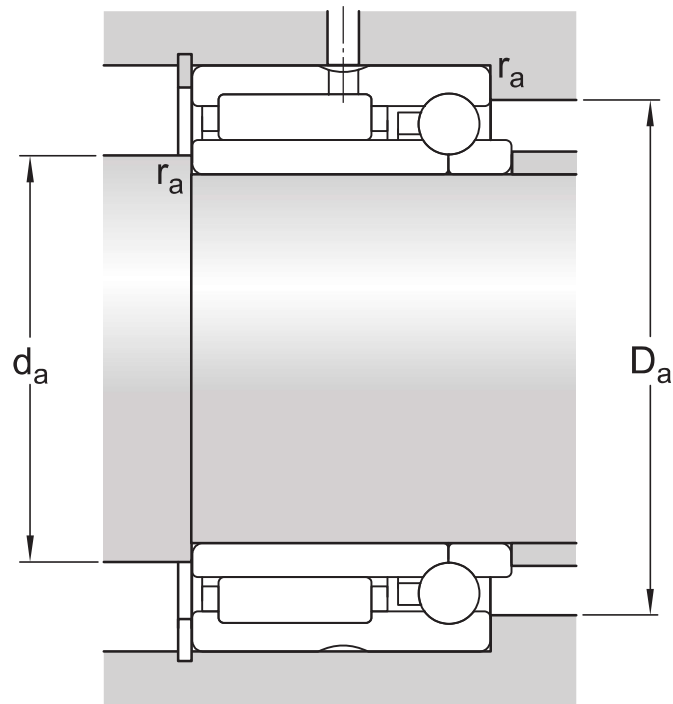
Product net weight	0.247 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

d	35 mm	Bore diameter
D	55 mm	Outside diameter
B	30 mm	Width
C	27 mm	Width of outer ring
F	42 mm	Diameter of inner ring raceway
r _{1,2}	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 39 mm	Diameter of shaft abutment
D_a	max. 51 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating, radial	C	31.9 kN
Basic static load rating, radial	C_0	54 kN
Basic dynamic load rating, axial	C	5.83 kN
Basic static load rating, axial	C_0	8.42 kN
Fatigue load limit, radial	P_u	6.7 kN
Fatigue load limit, axial	P_u	0.355 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- [Tolerances: Normal](#)
- [Radial internal clearance: table](#)

DESIGN CONSIDERATIONS

- [Shaft and housing tolerances: table](#)

More Information

 Product details Needle roller / angular contact ball bearings Needle roller / thrust ball bearings Needle roller / cylindrical roller thrust bearings 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 Bearing Select Engineering Calculator LubeSelect for SKF greases Heater Selection Tool skf.com/mount
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