



NKIA 5905

Popular item

Needle roller / angular contact ball bearings

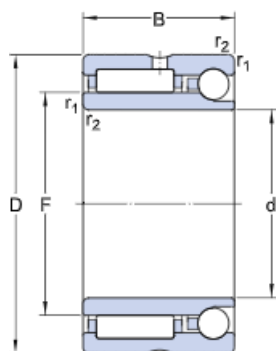
Bearing data

[Tolerances](#),
Normal,
[Radial internal clearance](#),
table

Design considerations

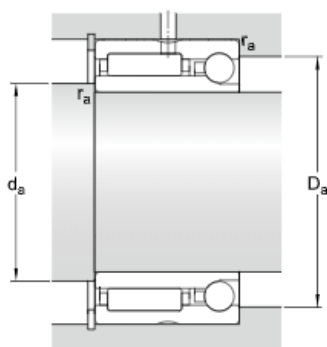
[Shaft and housing tolerances](#),
table

Technical specification



DIMENSIONS

d	25 mm
D	42 mm
B	23 mm
F	30 mm
$r_{1,2}$	min. 0.3 mm



ABUTMENT DIMENSIONS

d_a	min. 27 mm
D_a	max. 40 mm
r_a	max. 0.3 mm

CALCULATION DATA

Basic dynamic load rating, radial direction	C	24.2 kN
Basic static load rating, radial direction	C ₀	34.5 kN
Basic dynamic load rating, axial direction	C	4.24 kN
Basic static load rating, axial direction	C ₀	5.26 kN
Fatigue load limit, radial direction	P _u	4.15 kN
Fatigue load limit, axial direction	P _u	0.224 kN
Reference speed		13 000 r/min
Limiting speed		15 000 r/min

MASS

Mass bearing		0.13 kg
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More information

Product details	Engineering information	Tools
Needle roller / angular contact ball bearings	Principles of rolling bearing selection	SimPro Quick
Needle roller / thrust ball bearings	General bearing knowledge	Bearing Select
Needle roller / cylindrical roller thrust bearings	Bearing selection process	Engineering Calculator
Bearing data	Bearing failure and how to prevent it	LubeSelect for SKF greases
Loads		Heater Selection Tool
Temperature limits		skf.com/mount
Permissible speed		
Design considerations		
Designation system		

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