

4311 ATN9

Deep groove ball bearings

Bearing data

Tolerances,

Normal (metric), P6, P5, Normal (inch),

Radial internal clearance,

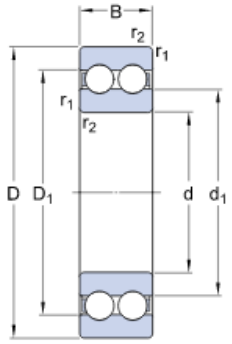
Matched bearing pairs, Stainless steel
d < 10 mm, Other bearings

Bearing interfaces

Seat tolerances for standard conditions,

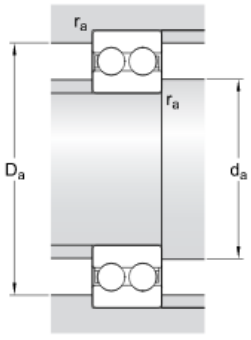
Tolerances and resultant fits

Technical specification



DIMENSIONS

d	55 mm
D	120 mm
B	43 mm
d_1	≈ 76.5 mm
D_1	≈ 98.5 mm
$r_{1,2}$	min. 2 mm



ABUTMENT DIMENSIONS

d_a	min. 66 mm
D_a	max. 109 mm
r_a	max. 2 mm

CALCULATION DATA

Basic dynamic load rating	C	97.5 kN
Basic static load rating	C_0	83 kN
Fatigue load limit	P_u	3.45 kN
Reference speed		9000 r/min
Limiting speed		5000 r/min
Calculation factor	k_r	0.06
Calculation factor	f_0	14

MASS

Mass bearing	2.15 kg

More information

Product details

- Single row deep groove ball bearings
- Stainless steel deep groove ball bearings
- Single row deep groove ball bearings with filling slots
- Double row deep groove ball bearings
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Seat tolerances for standard conditions
- Selecting internal clearance
- Lubrication
- Sealing, mounting and dismounting
- Bearing failure and how to prevent it

Tools

- Bearing Select
- SimPro Quick
- Engineering Calculator
- LubeSelect for SKF greases
- Heater selection tool
- Rolling bearings mounting and dismounting instructions

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