



6411 NR

Deep groove ball bearings

Bearing data

Tolerances,

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

Radial internal clearance,

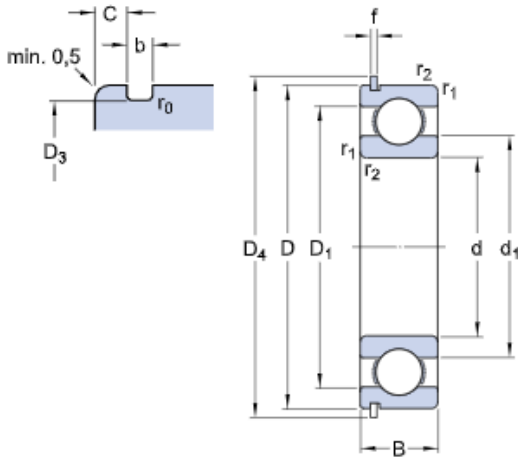
Matched bearing pairs, Stainless steel
 $d < 10$ mm, Other bearings

Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fits

Technical specification

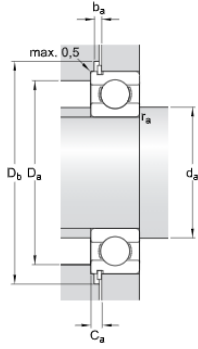


DIMENSIONS

d	55 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
d1	≈81.58 mm	Shoulder diameter
D1	≈113.15 mm	Shoulder diameter
D ₃	135.23 mm	Diameter of snap ring groove
D ₄	149.7 mm	Outside diameter of snap ring
b	3.1 mm	Width of snap ring groove
C	4.9 mm	Distance outer ring from side face to snap ring groove
f	2.82 mm	Width of snap ring
r ₀	max.0.6 mm	Bottom radius of snap ring groove
r _{1,2}	min.2.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

da	min.69 mm	Diameter of shaft abutment
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Da	max.126 mm	Diameter of housing abutment
Db	min.151 mm	Diameter of snap ring recess in the housing
ba	min.3.5 mm	Width of snap ring recess in the housing
Ca	max.7.72 mm	Distance from outer ring side face to snap ring back face
ra	max.2 mm	Radius of shaft or housing fillet

CALCULATION DATA

Basic dynamic load rating	C	99.5 kN
Basic static load rating	C_0	62 kN
Fatigue load limit	P_u	2.6 kN
Reference speed		11 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	k_r	0.035
Calculation factor	f_0	12

MASS

Mass bearing	2.4 kg
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INCLUDED PRODUCTS

Snap ring	SP 140
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TOLERANCE CLASS

Dimensional tolerances	Normal
Radial run-out	Normal

More information

Product details	Engineering information	Tools
Single row deep groove ball bearings	Principles of rolling bearing selection	Bearing Select
Stainless steel deep groove ball bearings	General bearing knowledge	SimPro Quick
Single row deep groove ball bearings with filling slots	Bearing selection process	Engineering Calculator
Double row deep groove ball bearings	Bearing interfaces	LubeSelect for SKF greases
Bearing data	Seat tolerances for standard conditions	Heater selection tool
Loads	Selecting internal clearance	Rolling bearings mounting and dismounting instructions
Temperature limits	Lubrication	
Permissible speed	Sealing, mounting and dismounting	
Designation system	Bearing failure and how to prevent it	

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