



6311-2Z

- Popular item
- SKF Explorer

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](#),

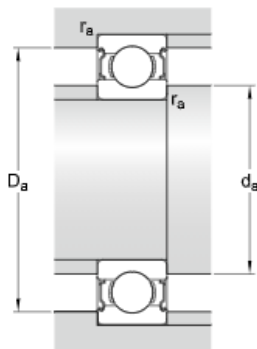
[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d1	≈75.34 mm	Shoulder diameter
D2	≈103.7 mm	Recess diameter
r1,2	min.2 mm	Chamfer dimension



ABUTMENT DIMENSIONS

da	min.66 mm	Diameter of shaft abutment
da	max.75.2 mm	Diameter of shaft abutment
Da	max.109 mm	Diameter of housing abutment
ra	max.2 mm	Radius of shaft or housing fillet

CALCULATION DATA

Basic dynamic load rating	C	74.1 kN
Basic static load rating	C_0	45 kN
Fatigue load limit	P_u	1.9 kN
Reference speed		12 000 r/min
Limiting speed		6 300 r/min
Minimum load factor	k_r	0.03
Calculation factor	f_0	13.1

MASS

Mass bearing	1.42 kg
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TOLERANCE CLASS

Dimensional tolerances	P6
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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