

61844

- Popular item

Deep groove ball bearings

Bearing data

Tolerances,

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

Radial internal clearance,

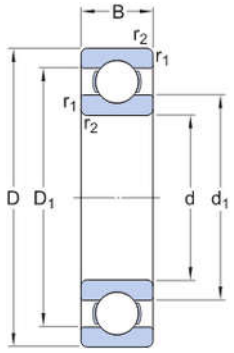
Matched bearing pairs, Stainless steel
d < 10 mm, Other bearings

Bearing interfaces

Seat tolerances for standard conditions,

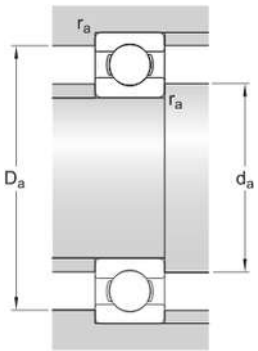
Tolerances and resultant fits

Technical specification



DIMENSIONS

d	220 mm	Bore diameter
D	270 mm	Outside diameter
B	24 mm	Width
d1	≈236 mm	Shoulder diameter
D1	≈254 mm	Shoulder diameter
r1,2	min.1.5 mm	Chamfer dimension



ABUTMENT DIMENSIONS

da	min.227 mm	Diameter of shaft abutment
Da	max.263 mm	Diameter of housing abutment
ra	max.1.5 mm	Radius of shaft or housing fillet

CALCULATION DATA

Basic dynamic load rating	C	78 kN
Basic static load rating	C_0	110 kN
Fatigue load limit	P_u	3 kN
Reference speed		4 500 r/min
Limiting speed		2 800 r/min
Minimum load factor	k_r	0.015
Calculation factor	f_0	17.4

MASS

Mass bearing	2.54 kg

TOLERANCE CLASS

Dimensional tolerances	Normal
Radial run-out	Normal

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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