

6001

- Popular item
- SKF Explorer

Deep groove ball bearings

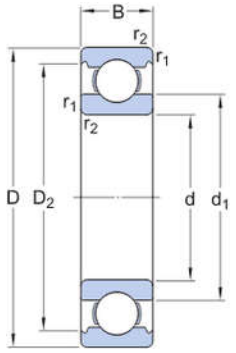
Bearing data

Tolerances,
Normal (metric), P6, P5, Normal (inch),
Radial internal clearance,
Classes C2 to C5

Bearing interfaces

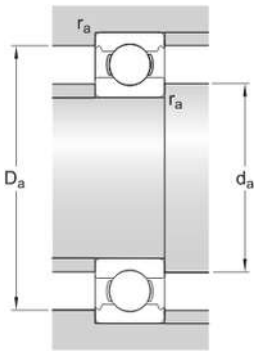
Seat tolerances for standard conditions,
Tolerances and resultant fits

Technical specification



DIMENSIONS

d	12 mm	Bore diameter
D	28 mm	Outside diameter
B	8 mm	Width
d_1	≈ 17 mm	Shoulder diameter
D_2	≈ 24.72 mm	Recess diameter
$r_{1,2}$	min. 0.3 mm	Chamfer dimension



ABUTMENT DIMENSIONS

d_a	min. 14 mm	Diameter of shaft abutment
D_a	max. 26 mm	Diameter of housing abutment
ra	max.0.3 mm	Radius of shaft or housing fillet

CALCULATION DATA

Basic dynamic load rating	C	5.4 kN
Basic static load rating	C_0	2.36 kN
Fatigue load limit	P_u	0.1 kN
Reference speed		60 000 r/min
Limiting speed		38 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	13

MASS

Mass bearing	0.021 kg

TOLERANCE CLASS

Dimensional tolerances	P6
Radial run-out	P5

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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