

6309 Deep groove ball bearings

Popular item SKF Explorer

Deep groove ball bearings

Bearing data

Tolerances,

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

Radial internal clearance,

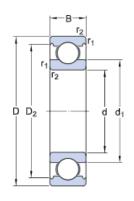
 $\label{eq:matched_pairs} \begin{tabular}{ll} Matched bearing pairs, Stainless steel \\ d < 10 mm, Other bearings \end{tabular}$

Bearing interfaces

Seat tolerances for standard conditions,

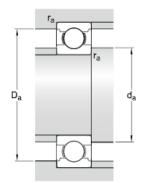
Tolerances and resultant fits

Technical specification



DIMENSIONS

d	45 mm
D	100 mm
В	25 mm
d_1	≈ 62.18 mm
D_2	≈ 86.7 mm
r _{1,2}	min. 1.5 mm



ABUTMENT DIMENSIONS

d _a	min. 54 mm
D_a	max. 91 mm
r _a	max. 1.5 mm





CALCULATION DATA

Basic dynamic load rating	С	55.3 kN
Basic static load rating	C_0	31.5 kN
Fatigue load limit	$P_{\rm u}$	1.34 kN
Reference speed		15 000 r/min
Limiting speed		9 500 r/min
Calculation factor	k_r	0.03
Calculation factor	f_0	13

MASS

Mass bearing	0.84 kg
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More information

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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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