

W 6301-2Z

Deep groove ball bearings

Bearing data

Tolerances,

Normal (metric), P6, P5, Normal (inch), Radial internal clearance,

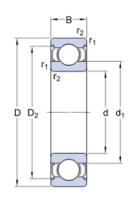
Matched bearing pairs, Stainless steel d < 10 mm, Other bearings

Bearing interfaces

Seat tolerances for standard conditions,

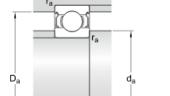
Tolerances and resultant fits

Technical specification



DIMENSIONS

d	12 mm
D	37 mm
В	12 mm
d_1	≈ 19.3 mm
d_2	≈ 19.3 mm
D_2	≈ 31.92 mm
r _{1,2}	min. 1 mm



ABUTMENT DIMENSIONS

d_a	min. 17 mm
d_a	max. 19 mm
D _a	max. 32.5 mm
r _a	max. 1 mm





CALCULATION DATA

Basic dynamic load rating	С	8.32 kN
Basic static load rating	C_0	4.15 kN
Fatigue load limit	P_{u}	0.176 kN
Reference speed		48000 r/min
Limiting speed		24000 r/min
Calculation factor	k _r	0.035
Calculation factor	f_0	11.1

MASS

Mass bearing	0.059 kg
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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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