

# W 6003

## Deep groove ball bearings

Bearing data

Tolerances,

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

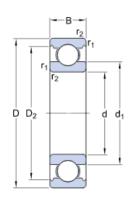
 $\label{eq:matched_pairs} \begin{tabular}{ll} Matched bearing pairs, Stainless steel \\ d < 10 mm, Other bearings \end{tabular}$ 

Bearing interfaces

Seat tolerances for standard conditions,

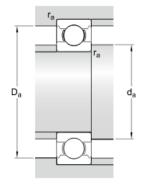
Tolerances and resultant fits

## Technical specification



### **DIMENSIONS**

d	17 mm
D	35 mm
В	10 mm
$d_1$	≈ 23.5 mm
D <sub>2</sub>	≈ 31.85 mm
r <sub>1,2</sub>	min. 0.3 mm



### ABUTMENT DIMENSIONS

$d_a$	min. 19 mm
$D_a$	max. 33 mm
r <sub>a</sub>	max. 0.3 mm



## CALCULATION DATA

Basic dynamic load rating	С	4.94 kN
Basic static load rating	$C_0$	3.15 kN
Fatigue load limit	$P_{u}$	0.137 kN
Reference speed		45000 r/min
Limiting speed		28000 r/min
Calculation factor	k <sub>r</sub>	0.03
Calculation factor	$f_0$	14.1

## MASS

Mass bearing	0.036 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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