



# W 61807 R

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

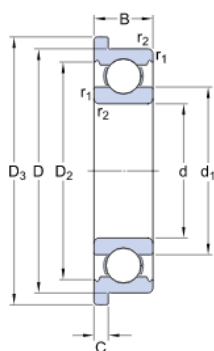
d < 10 mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

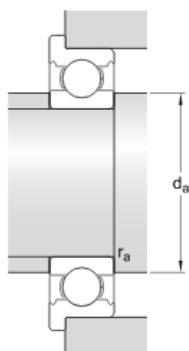


### DIMENSIONS

d	35 mm
D	47 mm
B	7 mm
d <sub>1</sub>	≈ 38.21 mm
D <sub>2</sub>	≈ 43.69 mm
D <sub>3</sub>	50 mm
C	1.5 mm
r <sub>1,2</sub>	min. 0.3 mm

### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 37 mm
r <sub>a</sub>	max. 0.3 mm



## CALCULATION DATA

Basic dynamic load rating	C	3.71 kN
Basic static load rating	C <sub>0</sub>	3.35 kN
Fatigue load limit	P <sub>u</sub>	0.14 kN
Reference speed		30000 r/min
Limiting speed		18000 r/min
Calculation factor	k <sub>r</sub>	0.02
Calculation factor	f <sub>0</sub>	14.3

## MASS

Mass bearing	kg
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## More information

Product details	Engineering information	Tools
<a href="#">Single row deep groove ball bearings</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">Bearing Select</a>
<a href="#">Stainless steel deep groove ball bearings</a>	<a href="#">General bearing knowledge</a>	<a href="#">SimPro Quick</a>
<a href="#">Single row deep groove ball bearings with filling slots</a>	<a href="#">Bearing selection process</a>	<a href="#">Engineering Calculator</a>
<a href="#">Double row deep groove ball bearings</a>	<a href="#">Bearing interfaces</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">Bearing data</a>	<a href="#">Seat tolerances for standard conditions</a>	<a href="#">Heater selection tool</a>
<a href="#">Loads</a>	<a href="#">Selecting internal clearance</a>	<a href="#">Rolling bearings mounting and dismounting instructions</a>
<a href="#">Temperature limits</a>	<a href="#">Lubrication</a>	
<a href="#">Permissible speed</a>	<a href="#">Sealing, mounting and dismounting</a>	
<a href="#">Designation system</a>	<a href="#">Bearing failure and how to prevent it</a>	

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