



## W 6301

### Deep groove ball bearings

#### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

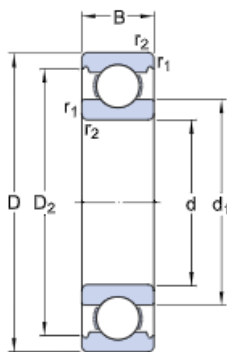
Matched bearing pairs, Stainless steel  
d < 10 mm, Other bearings

#### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

### Technical specification

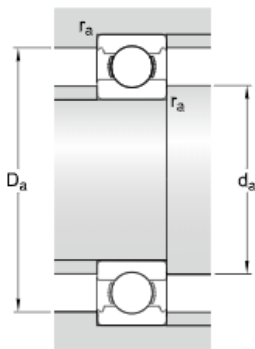


#### DIMENSIONS

d	12 mm
D	37 mm
B	12 mm
d <sub>1</sub>	≈ 19.3 mm
D <sub>2</sub>	≈ 31.92 mm
r <sub>1,2</sub>	min. 1 mm

#### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 17 mm
D <sub>a</sub>	max. 32.5 mm
r <sub>a</sub>	max. 1 mm



## CALCULATION DATA

Basic dynamic load rating	C	8.32 kN
Basic static load rating	$C_0$	4.15 kN
Fatigue load limit	$P_u$	0.176 kN
Reference speed		48 000 r/min
Limiting speed		30 000 r/min
Calculation factor	$k_r$	0.035
Calculation factor	$f_0$	11.1

## MASS

Mass bearing		0.055 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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