



## W 6209

### Deep groove ball bearings

#### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

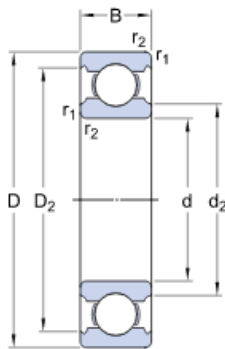
$d < 10$  mm, Other bearings

#### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

### Technical specification

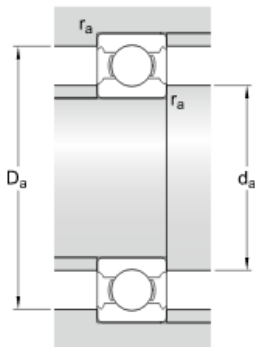


#### DIMENSIONS

$d$	45 mm
$D$	85 mm
$B$	19 mm
$d_2$	≈ 53.5 mm
$D_2$	≈ 76.35 mm
$r_{1,2}$	min. 1.1 mm

#### ABUTMENT DIMENSIONS

$d_a$	min. 51.5 mm
$D_a$	max. 78.5 mm
$r_a$	max. 1 mm



## CALCULATION DATA

Basic dynamic load rating	C	28.1 kN
Basic static load rating	$C_0$	20.4 kN
Fatigue load limit	$P_u$	0.865 kN
Reference speed		18000 r/min
Limiting speed		11000 r/min
Calculation factor	$k_f$	0.03
Calculation factor	$f_0$	14.1

## MASS

Mass bearing		0.37 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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