

## 209-ZNR

### Deep groove ball bearings

#### Bearing data

##### Tolerances,

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

##### Radial internal clearance,

Matched bearing pairs, Stainless steel

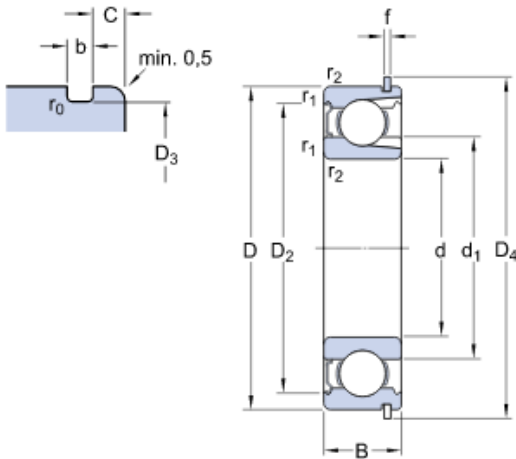
$d < 10$  mm, Other bearings

#### Bearing interfaces

##### Seat tolerances for standard conditions,

##### Tolerances and resultant fits

### Technical specification

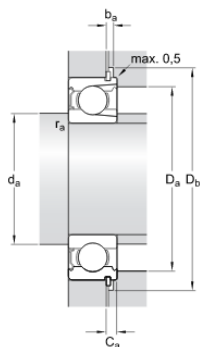


#### DIMENSIONS

$d$	45 mm
$D$	85 mm
$B$	19 mm
$d_1$	≈ 57.6 mm
$D_2$	≈ 75.19 mm
$D_3$	81.81 mm
$D_4$	91.6 mm
$b$	1.9 mm
$C$	3.28 mm
$f$	1.7 mm
$r_0$	max. 0.6 mm
$r_{1,2}$	min. 1.1 mm

#### ABUTMENT DIMENSIONS

$d_a$	min. 52 mm
$d_a$	max. 57.5 mm
$D_a$	max. 78 mm
$D_b$	min. 93 mm
$b_a$	min. 2.2 mm



$C_a$	max. 4.98 mm
$r_a$	max. 1 mm

### CALCULATION DATA

Basic dynamic load rating	C	35.2 kN
Basic static load rating	$C_0$	30 kN
Fatigue load limit	$P_u$	1.27 kN
Reference speed		14000 r/min
Limiting speed		8500 r/min
Calculation factor	$k_r$	0.04

### MASS

Mass bearing	0.44 kg
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### INCLUDED PRODUCTS

Snap ring	SP 85
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More information

Product details	Product details	Engineering information	Engineering information	Tools	Tools
<a href="#">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</a>	<a href="#">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</a>	<a href="#">Principles of rolling bearing selection General bearing knowledge</a>	<a href="#">Principles of rolling bearing selection General bearing knowledge</a>	<a href="#">Bearing Select</a>	<a href="#">Bearing Select</a>
		<a href="#">Bearing selection process</a>	<a href="#">Bearing selection process</a>	<a href="#">SimPro Quick</a>	<a href="#">SimPro Quick</a>
		<a href="#">Bearing interfaces</a>	<a href="#">Bearing interfaces</a>	<a href="#">Engineering Calculator</a>	<a href="#">Engineering Calculator</a>
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<a href="#">Permissible speed</a>	<a href="#">Permissible speed</a>	<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Bearing failure and how to prevent it</a>		
<a href="#">Designation system</a>	<a href="#">Designation system</a>				

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