



## 310-ZNR

### Deep groove ball bearings

#### Bearing data

##### Tolerances,

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

##### Radial internal clearance,

Matched bearing pairs, Stainless steel

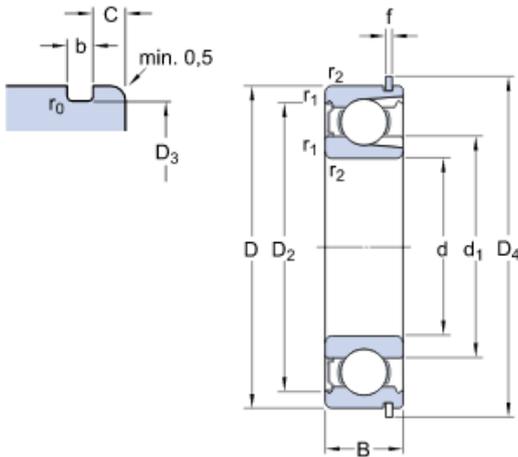
$d < 10$  mm, Other bearings

#### Bearing interfaces

##### Seat tolerances for standard conditions,

##### Tolerances and resultant fits

### Technical specification

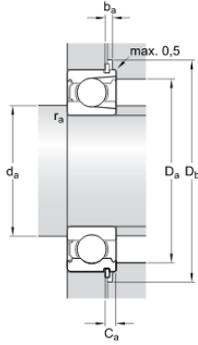


#### DIMENSIONS

$d$	50 mm
$D$	110 mm
$B$	27 mm
$d_1$	$\approx 68.76$ mm
$D_2$	$\approx 95.2$ mm
$D_3$	106.81 mm
$D_4$	116.6 mm
$b$	2.7 mm
$C$	3.28 mm
$f$	2.46 mm
$r_0$	max. 0.6 mm
$r_{1,2}$	min. 2 mm

#### ABUTMENT DIMENSIONS

$d_a$	min. 61 mm
$d_a$	max. 68.6 mm
$D_a$	max. 99 mm
$D_b$	min. 118 mm
$b_a$	min. 3 mm



$C_a$	max. 5.74 mm
$r_a$	max. 2 mm

## CALCULATION DATA

Basic dynamic load rating	$C$	64.4 kN
Basic static load rating	$C_0$	52 kN
Fatigue load limit	$P_u$	2.2 kN
Reference speed		11000 r/min
Limiting speed		7000 r/min
Calculation factor	$k_r$	0.05

## MASS

Mass bearing	1.15 kg
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## INCLUDED PRODUCTS

Snap ring	SP 110
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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="#">Selecting internal clearance</a>	<a href="#">Selecting internal clearance</a>	<a href="#">Heater selection tool</a>	<a href="#">Heater selection tool</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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