



# 307 NR

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

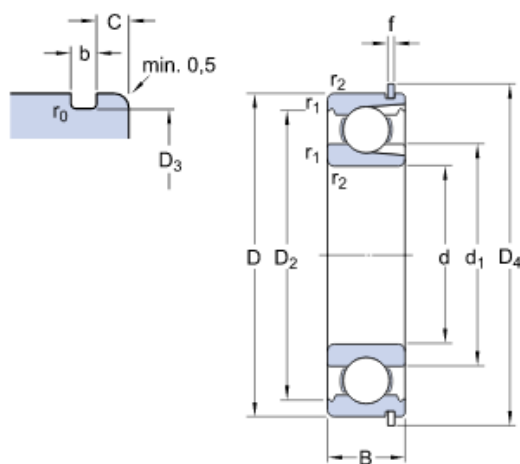
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

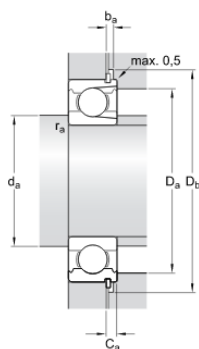


### DIMENSIONS

$d$	35 mm
$D$	80 mm
$B$	21 mm
$d_1$	$\approx 49.56$ mm
$D_2$	$\approx 69.2$ mm
$D_3$	76.81 mm
$D_4$	86.6 mm
$b$	1.9 mm
$C$	3.28 mm
$f$	1.7 mm
$r_0$	max. 0.6 mm
$r_{1,2}$	min. 1.5 mm

### ABUTMENT DIMENSIONS

$d_a$	min. 44 mm
$D_a$	max. 71 mm
$D_b$	min. 88 mm
$b_a$	min. 2.2 mm
$C_a$	max. 4.98 mm

 $r_a$ 

max. 1.5 mm

## CALCULATION DATA

Basic dynamic load rating	C	34.7 kN
Basic static load rating	$C_0$	26.5 kN
Fatigue load limit	$P_u$	1.12 kN
Reference speed		16000 r/min
Limiting speed		9500 r/min
Calculation factor	$k_r$	0.05

## MASS

Mass bearing	0.48 kg
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## INCLUDED PRODUCTS

Snap ring	SP 80
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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="#">Loads</a>	<a href="#">Loads</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="#">Temperature limits</a>	<a href="#">Temperature limits</a>	<a href="#">Bearing interfaces</a>	<a href="#">Bearing interfaces</a>	<a href="#">Engineering Calculator</a>	<a href="#">Engineering Calculator</a>
<a href="#">Permissible speed</a>	<a href="#">Permissible speed</a>	<a href="#">Seat tolerances for standard condition</a>	<a href="#">Seat tolerances for standard condition</a>	<a href="#">LubeSelect for SKF greases</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">Designation system</a>	<a href="#">Designation system</a>	<a href="#">Selecting internal clearance</a>	<a href="#">Selecting internal clearance</a>	<a href="#">Heater selection tool</a>	<a href="#">Heater selection tool</a>
		<a href="#">Lubrication</a>	<a href="#">Lubrication</a>	<a href="#">Rolling bearings mounting and dismounting instructions</a>	<a href="#">Rolling bearings mounting and dismounting instructions</a>
		<a href="#">Sealing, mounting and dismounting</a>	<a href="#">Sealing, mounting and dismounting</a>		
		<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Bearing failure and how to prevent it</a>		

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