



309-ZNR

Deep groove ball bearings

Bearing data

Tolerances,

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

Radial internal clearance,

Matched bearing pairs, Stainless steel

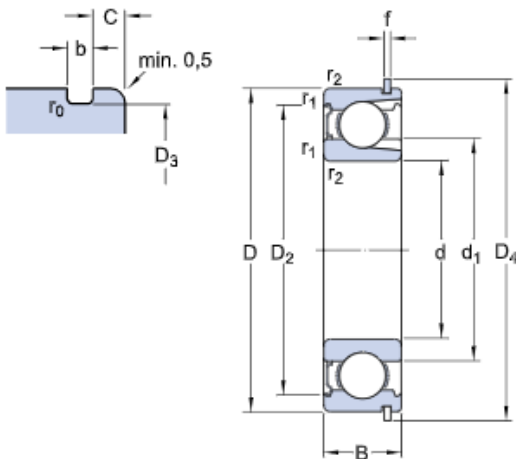
$d < 10$ mm, Other bearings

Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fits

Technical specification

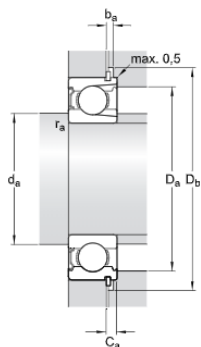


DIMENSIONS

d	45 mm
D	100 mm
B	25 mm
d_1	≈ 62.18 mm
D_2	≈ 86.7 mm
D_3	96.8 mm
D_4	106.5 mm
b	2.7 mm
C	3.28 mm
f	2.46 mm
r_0	max. 0.6 mm
$r_{1,2}$	min. 1.5 mm

ABUTMENT DIMENSIONS

d_a	min. 54 mm
d_a	max. 62 mm
D_a	max. 91 mm
D_b	min. 108 mm
b_a	min. 3 mm



C_a	max. 5.74 mm
r_a	max. 1.5 mm

CALCULATION DATA

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	44 kN
Fatigue load limit	P_u	1.86 kN
Reference speed		13 000 r/min
Limiting speed		7 500 r/min
Calculation factor	k_r	0.05

MASS

Mass bearing	0.88 kg
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INCLUDED PRODUCTS

Snap ring	SP 100
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More information

Product details	Engineering information	Tools
Single row deep groove ball bearings	Principles of rolling bearing selection	Bearing Select
Stainless steel deep groove ball bearings	General bearing knowledge	SimPro Quick
Single row deep groove ball bearings with filling slots	Bearing selection process	Engineering Calculator
Double row deep groove ball bearings	Bearing interfaces	LubeSelect for SKF greases
Bearing data	Seat tolerances for standard conditions	Heater selection tool
Loads	Selecting internal clearance	Rolling bearings mounting and dismounting instructions
Temperature limits	Lubrication	
Permissible speed	Sealing, mounting and dismounting	
Designation system	Bearing failure and how to prevent it	

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