



309-2ZNR

Deep groove ball bearings

Bearing data

Tolerances,

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

Radial internal clearance,

Matched bearing pairs, Stainless steel

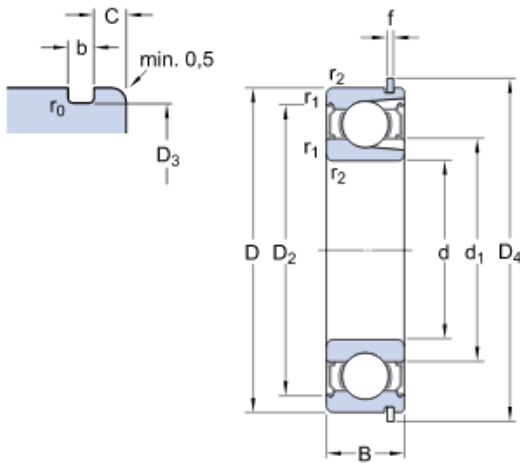
$d < 10$ mm, Other bearings

Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fits

Technical specification

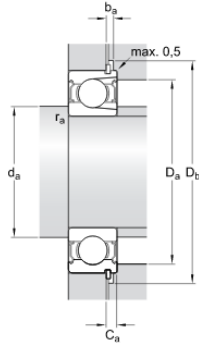


DIMENSIONS

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		13000 r/min
Limiting speed		6000 r/min
Calculation factor	k_r	0.05

MASS

Mass bearing	0.88 kg
--------------	---------

INCLUDED PRODUCTS

Snap ring	SP 100
-----------	--------

More information

Product details	Product details	Engineering information	Engineering information	Tools	Tools
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	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	Principles of rolling bearing selection General bearing knowledge	Principles of rolling bearing selection General bearing knowledge	Bearing Select	Bearing Select
		Bearing selection process	Bearing selection process	SimPro Quick	SimPro Quick
		Bearing interfaces	Bearing interfaces	Engineering Calculator	Engineering Calculator
		Seat tolerances for standard condition	Seat tolerances for standard condition	LubeSelect for SKF greases	LubeSelect for SKF greases
		Selecting internal clearance	Selecting internal clearance	Heater selection tool	Heater selection tool
		Lubrication	Lubrication	Rolling bearings mounting and dismounting instructions	Rolling bearings mounting and dismounting instructions
		Sealing, mounting and dismounting	Sealing, mounting and dismounting		
		Bearing failure and how to prevent it	Bearing failure and how to prevent it		
Loads	Loads				
Temperature limits	Temperature limits				
Permissible speed	Permissible speed				
Designation system	Designation system				

Terms and conditions

By accessing and using this website / app of SKF Group, meaning AB SKF and / or any of its affiliates ("SKF"), you agree to the following terms and conditions:

Warranty Disclaimer and Limitation of Liability

Although every care has been taken to assure the accuracy of the information on this website / app, SKF provides this information "AS IS" and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. You acknowledge that your use of this website / app is at your sole risk, that you assume full responsibility for all costs associated with use of this website / app, and that SKF shall not be liable for any direct, incidental, consequential, or indirect damages of any kind arising out of your access to, or use of the information or software made available on this website / app. Any warranties and representations in this website / app for SKF products or services that you purchase or use will be subject to the agreed upon terms and conditions in the contract for such product or service. Further, for non-SKF websites / apps that are referenced in our website / app or where a hyperlink appears, SKF makes no warranties concerning the accuracy or reliability of the information in these websites / apps and assumes no responsibility for material created or published by third parties contained therein. In addition, SKF does not warrant that this website / app or these other linked websites / apps are free from viruses or other harmful elements.

Copyright

Copyright in this website / app copyright of the information and software made available on this website / app rest with SKF or its licensors. All rights are reserved. All licensed material will reference the licensor that has granted SKF the right to use the material. The information and software made available on this website / app may not be reproduced, duplicated, copied, transferred, distributed, stored, modified, downloaded or otherwise exploited for any commercial use without the prior written approval of SKF. However, it may be reproduced, stored and downloaded for use by individuals without prior written approval of SKF. Under no circumstances may this information or software be supplied to third parties.

This website / app includes certain images used under license from Shutterstock, Inc.

Trademarks and Patents

All trademarks, brand names, and corporate logos displayed on the website / app are the property of SKF or its licensors, and may not be used in any way without prior written approval by SKF. All licensed trademarks published on this website / app reference the licensor that has granted SKF the right to use the trademark. Access to this website / app does not grant to the user any license under any patents owned by or licensed to SKF.

Changes

SKF reserves the right to make changes or additions to this website / app at any time.