

311-2ZNR

Deep groove ball bearings

Bearing data

Tolerances,

Normal (metric), P6, P5, Normal (inch), Radial internal clearance,

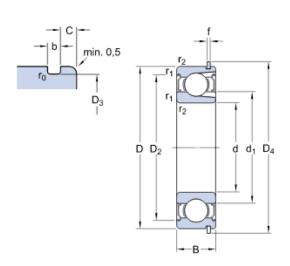
 $\label{eq:matched_pairs} \begin{tabular}{ll} Matched bearing pairs, Stainless steel \\ d < 10 mm, Other bearings \end{tabular}$

Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fits

Technical specification



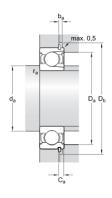
DIMENSIONS

d	55 mm
D	120 mm
В	29 mm
d_1	≈ 75.34 mm
D_2	≈ 103.7 mm
D_3	115.21 mm
D ₄	129.7 mm
b	3.1 mm
С	4.06 mm
f	2.82 mm
r_0	max. 0.6 mm
r _{1,2}	min. 2 mm

ABUTMENT DIMENSIONS

d _a	min. 66 mm
d_a	max. 75.2 mm
D _a	max. 109 mm
D_b	min. 131 mm
b _a	min. 3.5 mm





C_a	max. 6.88 mm
r _a	max. 2 mm

CALCULATION DATA

Basic dynamic load rating	С	79.2 kN
Basic static load rating	C_0	67 kN
Fatigue load limit	P_{u}	2.85 kN
Reference speed		10000 r/min
Limiting speed		5000 r/min
Calculation factor	k _r	0.05

MASS

INCLUDED PRODUCTS

Snap ring	SP 120
-----------	--------



More information

Product details	Product details	Engineering ir	nform Landgionn eering in	nformatoten	Tools
Single	Single			Bearing	Bearing
row deep	row deep	Principles	Principles	Select	Select
groove	groove	of rolling	of rolling		
ball	ball	bearing	bearing	SimPro	SimPro
bearings Stainless	bearings Stainless	-selection General	-selection General	Quick	Quick
steel	steel	bearing k	bearing k	Engineer	Engineer
deep	deep	nowledge	nowledge	ing Calcul	ing Calcul
groove	groove			ator	ator
ball	ball	Bearing	Bearing	LubeSele	LubeSele
bearings Single	bearings Single	selection	selection	ct for SKF	ct for SKF
row deep	row deep	process	process	greases	greases
groove	groove	Bearing	Bearing	Heater	Heater
ball	ball	interfaces	interfaces	selection	selection
bearings	bearings			tool	tool
with	with	Seat tole	Seat tole	Rolling	Rolling
filling	filling	rances	rances	bearings	bearings
Double stots	Double stots	for	for	mounting	mounting
row deep	row deep	standard	standard	and dism	and dism
groove	groove	condition	condition	ounting i	ounting i
ball	ball			nstructio	nstructio
bearings Bearing	bearings Bearing	Selecting	Selecting	ns	ns
data	data	internal	internal		
		clearance	clearance		
Loads	Loads	 Lubricati	Lubricati		
Tempera	Tempera	on	on		
ture	ture	Sealing,	Sealing,		
limits	limits	mounting	mounting		
Permissi	Permissi	and dism	and dism		
ble speed	ble speed	ounting	ounting		
		Bearing	Bearing		
Designati	Designati	failure	failure		
on	on	and how	and how		
system	system	to	to		
		prevent it	prevent it		



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.

SKF