



Image may differ from product. See technical specification for details.

3310 A-2RS1

Double row angular contact ball bearing with seals or shields

Double row angular contact ball bearings, with seals or shields, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. Depending on the sealing execution, they can operate at high speeds and are more suitable than deep groove ball bearings for supporting large axial forces in both directions.

- High-speed capability
- Accommodate relatively high radial loads, high axial loads in both directions and tilting moments
- Suitable where a stiff bearing arrangement is required
- Require less axial space than equivalent pair of single row angular contact ball bearings
- Integral sealing prolongs bearing service life

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	44.4 mm
Contact angle	30 °

Performance

Basic dynamic load rating	95 kN
Basic static load rating	69.5 kN
Limiting speed	4 300 r/min
SKF performance class	SKF Explorer

Properties

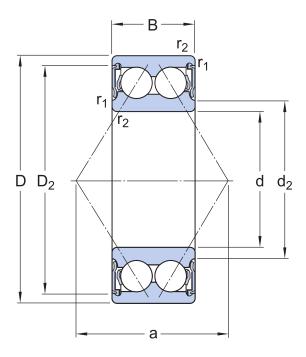
Contact type	Normal contact (two-point contact)
Number of rows	2
Locating feature, bearing outer ring	None
Ring type	One-piece inner and outer rings
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Back-to-back (O)
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

Logistics

Product net weight	1.71 kg
eClass code	23-05-08-03

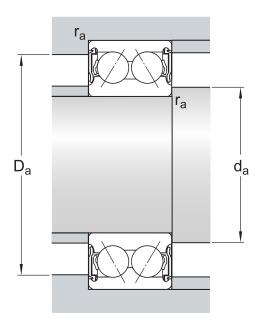
UNSPSC code 31171531

Technical specification



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
В	44.4 mm	Width
d_2	≈ 62 mm	Recess diameter inner ring shoulder
D_2	≈ 99.45 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 2 mm	Chamfer dimension inner ring
a	65 mm	Distance pressure point(s)



Abutment dimensions

d _a	min. 61 mm	Abutment diameter shaft
d _a	max. 61.5 mm	Abutment diameter shaft
D _a	max. 99.5 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	95 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P _u	3 kN
Limiting speed		4 300 r/min
Calculation factor	k _r	0.07
Limiting value	е	0.8
Calculation factor	Х	0.63
Calculation factor	Υ ₀	0.66
Calculation factor	Y ₁	0.78
Calculation factor	Y ₂	1.24

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

• Tolerances: Normal, P6, P5

• Internal clearance: table, drawing no

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

Engineering information	Tools
	SKF Product select
Principles of rolling bearing selection	SimPro Quick
General bearing knowledge	Bearing Frequency Calculator
Bearing selection process	LubeSelect for SKF greases
Bearing interfaces	Heater selection tool
Seat tolerances for standard conditions	
Selecting internal clearance or preload	SKF mounting and dismounting instructions
Lubrication	
Sealing, mounting and dismounting	
Bearing failure and how to prevent it	
	information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing interfaces Seat tolerances for standard conditions Selecting internal clearance or preload Lubrication Sealing, mounting and dismounting



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