

7314 BEP

Popular item

Angular contact ball bearings, single row

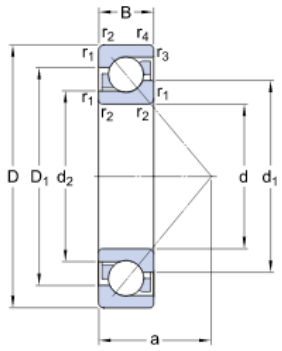
Bearing data

Tolerances,
Normal (metric), P6, P5, Normal (inch),
Internal clearance,
CA+CB+CC, G,
Preload,
GA+GB+GC

Bearing interfaces

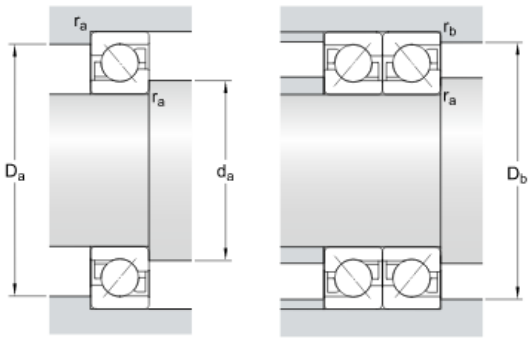
Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	70 mm
D	150 mm
B	35 mm
d_1	≈ 101.1 mm
d_2	≈ 84.4 mm
D_1	≈ 121.5 mm
a	64 mm
$r_{1,2}$	min. 2.1 mm
$r_{3,4}$	min. 1.1 mm



ABUTMENT DIMENSIONS

d_a	min. 82 mm
D_a	max. 138 mm
D_b	max. 143 mm
r_a	max. 2 mm
r_b	max. 1 mm

CALCULATION DATA

Basic dynamic load rating	C	119 kN
Basic static load rating	C_0	90 kN
Fatigue load limit	P_u	3.65 kN
Reference speed		5600 r/min
Limiting speed		5300 r/min
Calculation factor	A	0.145
Calculation factor	k_r	0.1
Calculation factor	e	1.14

SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

Calculation factor	X	0.35
Calculation factor	Y_0	0.26
Calculation factor	Y_2	0.57

BEARING PAIR ARRANGED BACK-TO-BACK OR FACE-TO-FACE

Calculation factor	X	0.57
Calculation factor	Y_0	0.52
Calculation factor	Y_1	0.55
Calculation factor	Y_2	0.93

MASS

Mass bearing	2.65 kg

More information

Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Designation system

Engineering 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
- Bearing failure and how to prevent it

Tools

- Bearing Select
- SimPro Quick
- Engineering Calculator
- LubeSelect for SKF greases
- Heater selection tool
- Rolling bearings mounting and dismounting instructions

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