

7209 BE-2RZP

Popular item

Angular contact ball bearings, single row

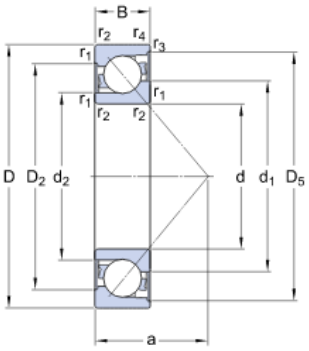
Bearing data

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

Bearing interfaces

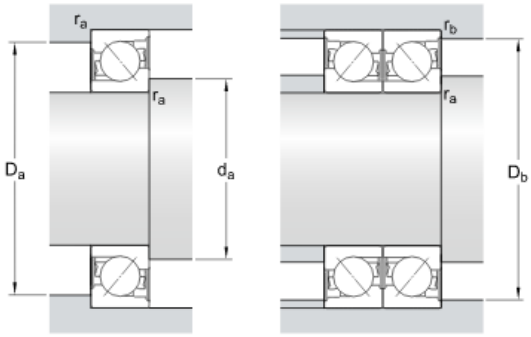
Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	45 mm
D	85 mm
B	19 mm
d_1	≈ 60.85 mm
d_2	≈ 52.68 mm
D_2	≈ 71.8 mm
D_5	≈ 77.9 mm
a	37 mm
$r_{1,2}$	min. 1.1 mm
$r_{3,4}$	min. 0.6 mm



ABUTMENT DIMENSIONS

d_a	min. 52 mm
d_a	max. 60 mm
D_a	max. 78 mm
D_b	max. 80.8 mm
r_a	max. 1 mm
r_b	max. 0.6 mm

CALCULATION DATA

Basic dynamic load rating	C	35.8 kN
Basic static load rating	C_0	26 kN
Fatigue load limit	P_u	1.12 kN
Reference speed		9500 r/min
Limiting speed		7500 r/min
Calculation factor	A	0.012
Calculation factor	k_r	0.095
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	0.52 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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