

# 3309 A-2Z

SKF Explorer

## Angular contact ball bearings, double row

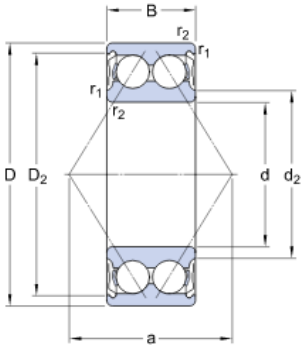
Bearing data

Tolerances,
Normal, P6, P5,
Internal clearance,
table, drawing no

Bearing interfaces

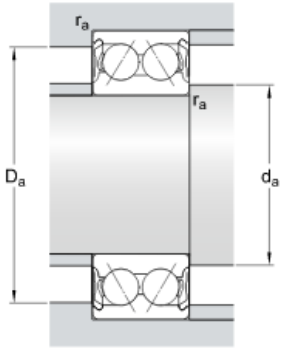
Seat tolerances for standard conditions,
Tolerances and resultant fit

## Technical specification




### DIMENSIONS

| | |
|---|---|
| d | 45 mm |
| D | 100 mm |
| B | 39.7 mm |
| $d_2$ | ≈ 55.6 mm |
| $D_2$ | ≈ 89.95 mm |
| $r_{1,2}$ | min. 1.5 mm |
| a | 58 mm |




### ABUTMENT DIMENSIONS

| | |
|---|---|
| $d_a$ | min. 54 mm |
| $d_a$ | max. 91 mm |
| $D_a$ | max. 91 mm |
| $r_a$ | max. 1.5 mm |

## CALCULATION DATA

| | | |
|---|---|---|
| Basic dynamic load rating | C | 75 kN |
| Basic static load rating | $C_0$ | 53 kN |
| Fatigue load limit | $P_u$ | 2.24 kN |
| Reference speed | | 7500 r/min |
| Limiting speed | | 6700 r/min |
| Calculation factor | $k_r$ | 0.07 |
| Calculation factor | e | 0.8 |
| Calculation factor | X | 0.63 |
| Calculation factor | $Y_0$ | 0.66 |
| Calculation factor | $Y_1$ | 0.78 |
| Calculation factor | $Y_2$ | 1.24 |

## MASS

| | |
|---|---|
| Mass bearing | 1.25 kg |

## More information

### Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- 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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