

# 7318 BECBM

Popular item
SKF Explorer

## Angular contact ball bearings, single row

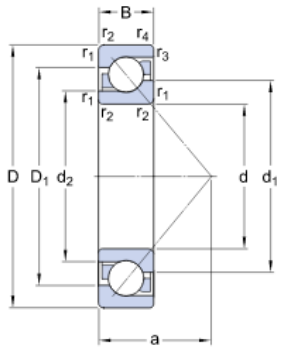
### Bearing data

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

### Bearing interfaces

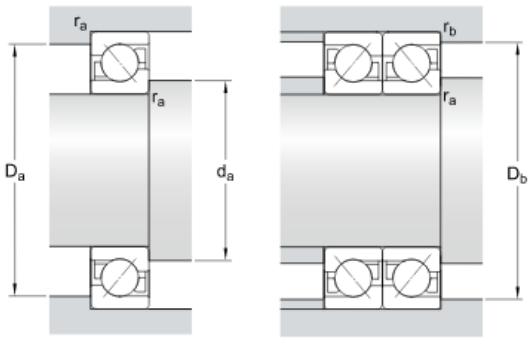
Seat tolerances for standard conditions,
Tolerances and resultant fit

## Technical specification




### DIMENSIONS

| | |
|---|---|
| d | 90 mm |
| D | 190 mm |
| B | 43 mm |
| $d_1$ | ≈ 129.2 mm |
| $d_2$ | ≈ 108.97 mm |
| $D_1$ | ≈ 153.1 mm |
| a | 80 mm |
| $r_{1,2}$ | min. 3 mm |
| $r_{3,4}$ | min. 1.1 mm |




### ABUTMENT DIMENSIONS

| | |
|---|---|
| $d_a$ | min. 104 mm |
| $D_a$ | max. 176 mm |
| $D_b$ | max. 183 mm |
| $r_a$ | max. 2.5 mm |
| $r_b$ | max. 1 mm |

## CALCULATION DATA

| | | |
|---|---|---|
| Basic dynamic load rating | C | 166 kN |
| Basic static load rating | $C_0$ | 146 kN |
| Fatigue load limit | $P_u$ | 5.3 kN |
| Reference speed | | 4300 r/min |
| Limiting speed | | 5600 r/min |
| Calculation factor | A | 0.333 |
| 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 | 5.2 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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