



# 7314 BEGAJ

SKF Explorer

## Angular contact ball bearings, single row

### Bearing data

[Tolerances](#),

Normal (metric), P6, P5, Normal (inch),

[Internal clearance](#),

CA+CB+CC, G,

[Preload](#),

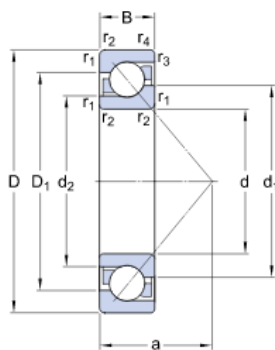
GA+GB+GC

### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fit](#)

## Technical specification



## DIMENSIONS

|                  |             |
|------------------|-------------|
| d                | 70 mm       |
| D                | 150 mm      |
| B                | 35 mm       |
| d <sub>1</sub>   | ≈ 101.1 mm  |
| d <sub>2</sub>   | ≈ 84.4 mm   |
| D <sub>1</sub>   | ≈ 121.5 mm  |
| a                | 64 mm       |
| r <sub>1,2</sub> | min. 2.1 mm |
| r <sub>3,4</sub> | min. 1.1 mm |

## ABUTMENT DIMENSIONS

|                |             |
|----------------|-------------|
| d <sub>a</sub> | min. 82 mm  |
| D <sub>a</sub> | max. 138 mm |
| D <sub>b</sub> | max. 143 mm |
| r <sub>a</sub> | max. 2 mm   |
| r <sub>b</sub> | max. 1 mm   |



## CALCULATION DATA

|                           |       |            |
|---------------------------|-------|------------|
| Basic dynamic load rating | C     | 127 kN     |
| Basic static load rating  | $C_0$ | 98 kN      |
| Fatigue load limit        | $P_u$ | 3.9 kN     |
| Reference speed           |       | 5600 r/min |
| Limiting speed            |       | 5600 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                             | Engineering information                                       | Tools  |
|---|---|--|
| <a href="#">Designs and variants</a> <hr/>  | <a href="#">Principles of rolling bearing selection</a> <hr/> | <a href="#">Bearing Select</a> <hr/>   |
| <a href="#">Bearing data</a> <hr/>          | <a href="#">General bearing knowledge</a> <hr/>               | <a href="#">SimPro Quick</a> <hr/>   |
| <a href="#">Loads</a> <hr/>                 | <a href="#">Bearing selection process</a> <hr/>               | <a href="#">Engineering Calculator</a> <hr/>                                 |
| <a href="#">Temperature limits</a> <hr/>    | <a href="#">Bearing interfaces</a> <hr/>                      | <a href="#">LubeSelect for SKF greases</a> <hr/>                             |
| <a href="#">Permissible speed</a> <hr/>     | <a href="#">Seat tolerances for standard conditions</a> <hr/> | <a href="#">Heater selection tool</a> <hr/>                                  |
| <a href="#">Design considerations</a> <hr/> | <a href="#">Selecting internal clearance or preload</a> <hr/> | <a href="#">Rolling bearings mounting and dismounting instructions</a> <hr/> |
| <a href="#">Designation system</a> <hr/>    | <a href="#">Lubrication</a> <hr/>                             |  |
|   | <a href="#">Sealing, mounting and dismounting</a> <hr/>       |  |
|   | <a href="#">Bearing failure and how to prevent it</a> <hr/>   |  |

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