



32217

- Popular item
- SKF Explorer

Tapered roller bearings, single row

Bearing data

[Tolerances,](#)

Normal and CL7C, CLN, Normal and CL, deviating width

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification

Dimension series

3EC

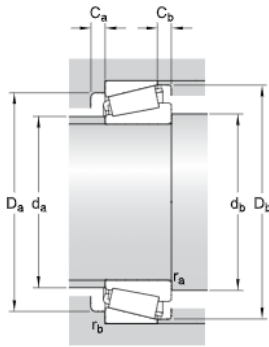


DIMENSIONS

| | | |
|------|------------|------------------------------|
| d | 85 mm | Bore diameter |
| D | 150 mm | Outside diameter |
| T | 38.5 mm | Total bearing width |
| d1 | ≈113.29 mm | Inner ring shoulder diameter |
| B | 36 mm | Width inner ring |
| C | 30 mm | Width outer ring |
| r1,2 | min.2.5 mm | Corner radius inner ring |
| r3,4 | min.2 mm | Corner radius outer ring |
| a | 33.228 mm | Distance pressure point |

ABUTMENT DIMENSIONS

| | | |
|----|-----------|-------------------------|
| da | max.97 mm | Abutment diameter shaft |
| | min.97 | Abutment |



| | | |
|----|---------------|---|
| db | mm | diameter shaft |
| Da | min.130 mm | Abutment diameter housing |
| Da | max.140 mm | Abutment diameter housing |
| Db | min.142 mm | Abutment diameter housing |
| Ca | min.5 mm | Abutment housing - axial space at the large side face/ both sides of the outer ring |
| Cb | min.8.5 mm | Abutment housing - axial space at the small side face/ both sides of the outer ring |
| ra | max.2.5 mm | Fillet radius |
| rb | max.2 mm | Fillet radius |

CALCULATION DATA

| | | |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C | 263 kN |
| Basic static load rating | C ₀ | 285 kN |
| Fatigue load limit | P _u | 33.5 kN |
| Reference speed | | 3 600 r/min |
| Limiting speed | | 4 300 r/min |
| Calculation factor | e | 0.43 |
| Calculation factor | Y | 1.4 |
| Calculation factor | Y ₀ | 0.8 |

MASS

| | |
|--------------|---------|
| Mass bearing | 2.61 kg |
|--------------|---------|

More information

| Product details | Engineering information | Tools |
|---------------------------------------|---|--|
| Designs and variants | Principles of rolling bearing selection | SimPro Quick |
| Bearing data | General bearing knowledge | Bearing Select |
| Loads | Bearing selection process | Engineering Calculator |
| Temperature limits | Bearing failure and how to prevent it | LubeSelect for SKF greases |
| Permissible speed | | Heater Selection Tool |
| Design considerations | | Oil Injection Method Program |
| Bearing designations | | skf.com/mount |
| Designation system | | |

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