



539/532 X

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

535



DIMENSIONS

| | |
|------------------|-------------|
| d | 53.975 mm |
| D | 107.95 mm |
| T | 36.512 mm |
| d ₁ | ≈ 76.5 mm |
| B | 36.957 mm |
| C | 28.575 mm |
| r _{1,2} | min. 3.5 mm |
| r _{3,4} | min. 3.3 mm |
| a | 23.799 mm |

ABUTMENT DIMENSIONS

| | |
|----------------|------------|
| d _a | max. 64 mm |
| d _b | min. 67 mm |
| D _a | min. 90 mm |
| D _a | max. 96 mm |



| | |
|-------|-------------|
| D_b | min. 97 mm |
| C_a | min. 5 mm |
| C_b | min. 7.5 mm |
| r_a | max. 3.5 mm |
| r_b | max. 3.3 mm |

CALCULATION DATA

| | | |
|---------------------------|-------|------------|
| Basic dynamic load rating | C | 183 kN |
| Basic static load rating | C_0 | 190 kN |
| Fatigue load limit | P_u | 21.6 kN |
| Reference speed | | 5300 r/min |
| Limiting speed | | 6300 r/min |
| Calculation factor | e | 0.3 |
| Calculation factor | Y | 2 |
| Calculation factor | Y_0 | 1.1 |

MASS

| | |
|--------------|---------|
| Mass bearing | 1.47 kg |
|--------------|---------|

More information

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

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