

30220

- Popular item

Tapered roller bearings, single row

Bearing data

[Tolerances,](#)

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

Bearing interfaces

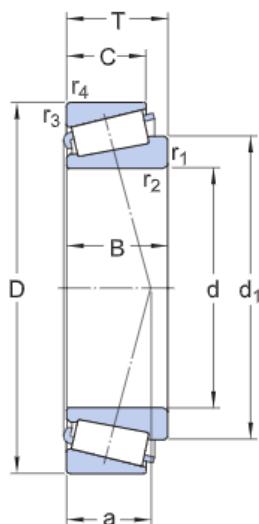
[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification

Dimension series

3FB

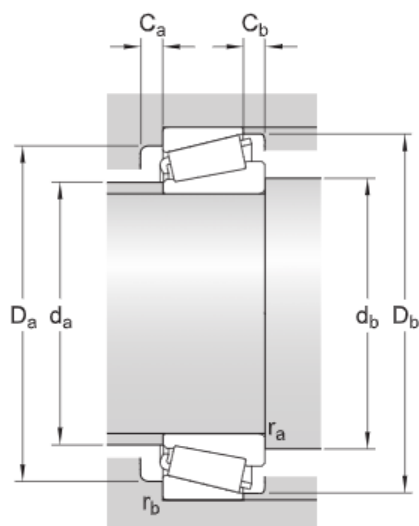


DIMENSIONS

d	100 mm	Bore diameter
D	180 mm	Outside diameter
T	37 mm	Total width
d ₁	≈ 134.48 mm	Shoulder diameter of inner ring
B	34 mm	Width of inner ring
C	29 mm	Width of outer ring
r _{1,2}	min. 3 mm	Chamfer dimension of inner ring
r _{3,4}	min. 2.5 mm	Chamfer dimension of outer ring
a	35.399 mm	Distance side face to pressure point

ABUTMENT DIMENSIONS

d max. 116 mm	Diameter of shaft abutment
d min. 113.5 mm	Diameter of shaft abutment
C min. 157	Diameter of housing abutment



mm

C max. 168.5 mm	Diameter of housing abutment
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C min. 168 mm	Diameter of housing abutment
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C min. 5 mm	Minimum width of space required in housing on large side face
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C min. 8 mm	Minimum width of space required in housing on small side face
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r_i max. 3 mm	Radius of shaft fillet
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r_l max. 2.5 mm	Radius of housing fillet
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CALCULATION DATA

Basic dynamic load rating	C	304 kN
Basic static load rating	C_0	320 kN
Fatigue load limit	P_u	36 kN
Reference speed		3 000 r/min
Limiting speed		3 600 r/min
Limiting value	e	0.43
Axial load factor	Y	1.4
Axial load factor	Y_0	0.8

MASS

Mass	3.63 kg
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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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