



T7FC 070

- SKF Explorer

Tapered roller bearings, single row

Bearing data

[Tolerances,](#)

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

Bearing interfaces

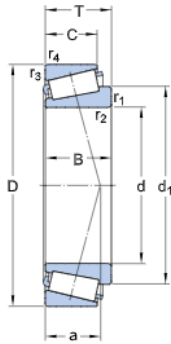
[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification

Dimension series

7FC

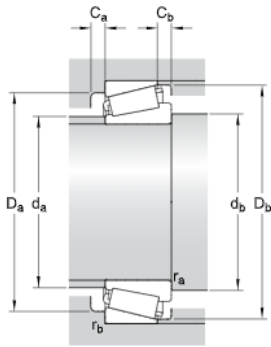


DIMENSIONS

d	70 mm	Bore diameter
D	140 mm	Outside diameter
T	39 mm	Total bearing width
d1	≈110.15 mm	Inner ring shoulder diameter
B	35.5 mm	Width inner ring
C	27 mm	Width outer ring
r1,2	min.3 mm	Corner radius inner ring
r3,4	min.3 mm	Corner radius outer ring
a	46.594 mm	Distance pressure point

ABUTMENT DIMENSIONS

da	max.82 mm	Abutment diameter shaft
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db	min.83 mm	Abutment diameter shaft
Da	min.106 mm	Abutment diameter housing
Da	max.128.5 mm	Abutment diameter housing
Db	min.133 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.12 mm	Abutment housing - axial space at the small side face/ both sides of the outer ring
ra	max.3 mm	Fillet radius
rb	max.3 mm	Fillet radius

CALCULATION DATA

Basic dynamic load rating	C	219 kN
Basic static load rating	C ₀	240 kN
Fatigue load limit	P _u	27.5 kN
Reference speed		3 400 r/min
Limiting speed		4 500 r/min
Calculation factor	e	0.88
Calculation factor	Y	0.68
Calculation factor	Y ₀	0.4

MASS

Mass bearing	2.65 kg
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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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