



31317/DF

SKF Explorer

Tapered roller bearings, single row,
matched face-to-face

Bearing data

[Tolerances,](#)

Normal + CL7C, P5, total width,

[Internal clearance,](#)

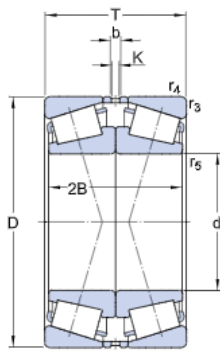
values

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification

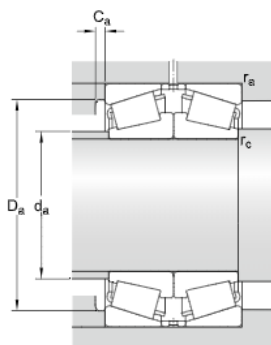


DIMENSIONS

d	85 mm
D	180 mm
T	89 mm
2B	82 mm
b	15 mm
K	10 mm
$r_{3,4}$	min. 3 mm
r_5	min. 1 mm

ABUTMENT DIMENSIONS

d_a	max. 104 mm
D_a	min. 143 mm
D_a	max. 167.5 mm
C_a	min. 5 mm
r_a	max. 4 mm
r_c	max. 1 mm



CALCULATION DATA

Basic dynamic load rating	C	510 kN
Basic static load rating	C ₀	570 kN
Fatigue load limit	P _u	64 kN
Reference speed		2 200 r/min
Limiting speed		3 800 r/min
Calculation factor	e	0.83
Calculation factor	Y ₁	
Calculation factor	Y ₂	0.72
Calculation factor	Y ₀	0.4

MASS

Mass bearing pair	9.89 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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