



30209

- 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

3DB



DIMENSIONS

d	45 mm	Bore diameter
D	85 mm	Outside diameter
T	20.75 mm	Total bearing width
d1	≈63.1 mm	Inner ring shoulder diameter
B	19 mm	Width inner ring
C	16 mm	Width outer ring
r1,2	min.1.5 mm	Corner radius inner ring
r3,4	min.1.5 mm	Corner radius outer ring
a	17.829 mm	Distance pressure point

ABUTMENT DIMENSIONS

da	max.54 mm	Abutment diameter shaft
	min.53.5	Abutment



db	mm	diameter shaft
Da	min.74 mm	Abutment diameter housing
Da	max.77.5 mm	Abutment diameter housing
Db	min.80 mm	Abutment diameter housing
Ca	min.3 mm	Abutment housing - axial space at the large side face/ both sides of the outer ring
Cb	min.4.5 mm	Abutment housing - axial space at the small side face/ both sides of the outer ring
ra	max.1.5 mm	Fillet radius
rb	max.1.5 mm	Fillet radius

CALCULATION DATA

Basic dynamic load rating	C	81.6 kN
Basic static load rating	C_0	76.5 kN
Fatigue load limit	P_u	8.65 kN
Reference speed		6 300 r/min
Limiting speed		8 000 r/min
Calculation factor	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

MASS

Mass bearing	0.47 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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