30203

- Popular item

Tapered roller bearings, single row

Bearing data

Tolerances,

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

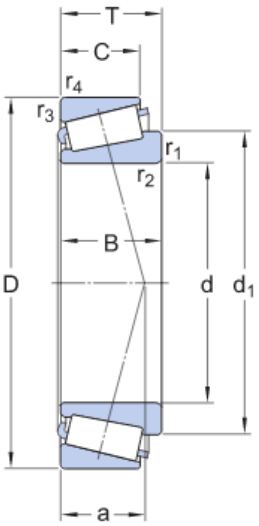
Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

Technical specification

Dimension series	2DB

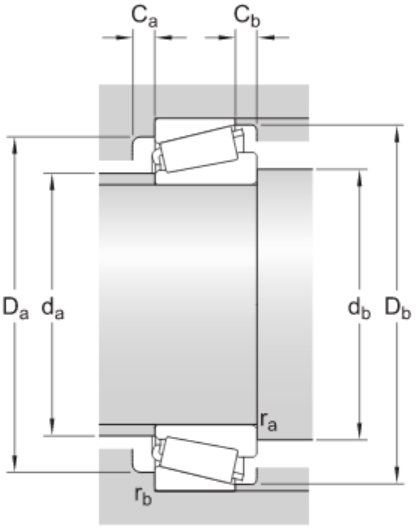


DIMENSIONS

d	17 mm	Bore diameter
D	40 mm	Outside diameter
T	13.25 mm	Total width
d_1	≈ 29 mm	Shoulder diameter of inner ring
B	12 mm	Width of inner ring
C	11 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	9.515 mm	Distance side face to pressure point

ABUTMENT DIMENSIONS

d_a	max. 23 mm	Diameter of shaft abutment
db	min.23.5 mm	Diameter of shaft abutment
D_a	min. 34 mm	Diameter of housing abutment



Da	max.34.5 mm	Diameter of housing abutment
D_b	min. 37 mm	Diameter of housing abutment
Ca	min.2 mm	Minimum width of space required in housing on large side face
Cb	min.2 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet
r_b	max. 1 mm	Radius of housing fillet

CALCULATION DATA

Basic dynamic load rating	C	23.4 kN
Basic static load rating	C_0	18.6 kN
Fatigue load limit	P_u	1.83 kN
Reference speed		15 000 r/min
Limiting speed		18 000 r/min
Limiting value	e	0.35
Axial load factor	Y	1.7
Axial load factor	Y_0	0.9

MASS

Mass	0.079 kg

More information

Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Bearing designations
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing failure and how to prevent it

Tools

- SimPro Quick
- Bearing Select
- Engineering Calculator
- LubeSelect for SKF greases
- Heater Selection Tool
- Oil Injection Method Program
- skf.com/mount

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