

31310

SKF Explorer

Tapered roller bearings, single row

Bearing data

Tolerances,

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

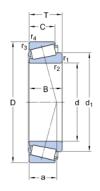
Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

Technical specification

Dimension series 7FB



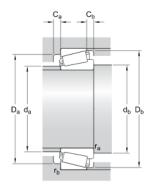
DIMENSIONS

d	50 mm
D	110 mm
Т	29.25 mm
d_1	≈ 81.5 mm
В	27 mm
С	19 mm
r _{1,2}	min. 2.5 mm
r _{3,4}	min. 2 mm
a	33.669 mm

ABUTMENT DIMENSIONS

d_a	max. 63 mm
d_b	min. 61 mm
D _a	min. 87 mm
D_a	max. 101 mm





$\begin{array}{c} C_a & \text{min. 4 mm} \\ C_b & \text{min. 10 mm} \\ r_a & \text{max. 2.5 mm} \\ r_b & \text{max. 2 mm} \end{array}$	D_b	min. 104 mm
r _a max. 2.5 mm	C_a	min. 4 mm
2	C_b	min. 10 mm
r _b max. 2 mm	r _a	max. 2.5 mm
	r_b	max. 2 mm

CALCULATION DATA

Basic dynamic load rating	С	131 kN
Basic static load rating	C_0	120 kN
Fatigue load limit	P_{u}	14.3 kN
Reference speed		4500 r/min
Limiting speed		6000 r/min
Calculation factor	е	0.83
Calculation factor	Υ	0.72
Calculation factor	Y ₀	0.4

MASS

Mass bearing	1.22 kg
1 lass bearing	Tiel Ng





More information

Designs	Designs			SimPro	SimPro
and variants	and variants	Principles of rolling	Principles of rolling	Quick ——— Bearing	Quick ——— Bearing
Bearing data	Bearing data	bearing -selection General bearing k nowledge	bearing -selection General	Select	Select
Loads	Loads			bearing k nowledge	Engineer ing Calcul ator
Tempera ture limits	Tempera ture limits	Bearing selection process	Bearing selection process	LubeSele ct for SKF greases	LubeSele ct for SKF greases
Permissi ble speed	Permissi ble speed	Bearing failure	Bearing failure	Heater Selection	Heater Selection
Design c onsiderati ons	Design c onsiderati ons	and how to prevent it	and how to prevent it	Tool Oil Injection Method	Tool Oil Injection Method
Bearing designati ons	Bearing designati ons			Program skf.com/ mount	Program skf.com/ mount
Designati on system	Designati on system				

5KF.



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