



# 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
T	29.25 mm
d <sub>1</sub>	≈ 81.5 mm
B	27 mm
C	19 mm
r <sub>1,2</sub>	min. 2.5 mm
r <sub>3,4</sub>	min. 2 mm
a	33.669 mm

### ABUTMENT DIMENSIONS

d <sub>a</sub>	max. 63 mm
d <sub>b</sub>	min. 61 mm
D <sub>a</sub>	min. 87 mm
D <sub>a</sub>	max. 101 mm



$D_b$	min. 104 mm
$C_a$	min. 4 mm
$C_b$	min. 10 mm
$r_a$	max. 2.5 mm
$r_b$	max. 2 mm

## CALCULATION DATA

Basic dynamic load rating	$C$	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	$e$	0.83
Calculation factor	$Y$	0.72
Calculation factor	$Y_0$	0.4

## MASS

Mass bearing	1.22 kg
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More information

Product details	Product details	Engineering information	Engineering information	Tools	Tools
<a href="#">Designs and variants</a>	<a href="#">Designs and variants</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">SimPro Quick</a>	<a href="#">SimPro Quick</a>
<a href="#">Bearing data</a>	<a href="#">Bearing data</a>	<a href="#">General bearing knowledge</a>	<a href="#">General bearing knowledge</a>	<a href="#">Bearing Select</a>	<a href="#">Bearing Select</a>
<a href="#">Loads</a>	<a href="#">Loads</a>			<a href="#">Engineering Calculator</a>	<a href="#">Engineering Calculator</a>
<a href="#">Temperature limits</a>	<a href="#">Temperature limits</a>	<a href="#">Bearing selection process</a>	<a href="#">Bearing selection process</a>	<a href="#">LubeSelect for SKF greases</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">Permissible speed</a>	<a href="#">Permissible speed</a>	<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Heater Selection Tool</a>	<a href="#">Heater Selection Tool</a>
<a href="#">Design considerations</a>	<a href="#">Design considerations</a>			<a href="#">Oil Injection Method Program</a>	<a href="#">Oil Injection Method Program</a>
<a href="#">Bearing designations</a>	<a href="#">Bearing designations</a>			<a href="#">skf.com/mount</a>	<a href="#">skf.com/mount</a>
<a href="#">Designation system</a>	<a href="#">Designation system</a>				

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