



# 31305

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

7FB



### DIMENSIONS

d	25 mm
D	62 mm
T	18.25 mm
d <sub>1</sub>	≈ 45.8 mm
B	17 mm
C	13 mm
r <sub>1,2</sub>	min. 1.5 mm
r <sub>3,4</sub>	min. 1.5 mm
a	19.689 mm

### ABUTMENT DIMENSIONS

d <sub>a</sub>	max. 34 mm
d <sub>b</sub>	min. 33 mm
D <sub>a</sub>	min. 47 mm
D <sub>a</sub>	max. 55 mm



$D_b$	min. 59 mm
$C_a$	min. 3 mm
$C_b$	min. 5 mm
$r_a$	max. 1.5 mm
$r_b$	max. 1.5 mm

## CALCULATION DATA

Basic dynamic load rating	$C$	46.6 kN
Basic static load rating	$C_0$	40 kN
Fatigue load limit	$P_u$	4.4 kN
Reference speed		8 500 r/min
Limiting speed		11 000 r/min
Calculation factor	$e$	0.83
Calculation factor	$Y$	0.72
Calculation factor	$Y_0$	0.4

## MASS

Mass bearing	0.27 kg
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## More information

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

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