



# 31307

Popular item  
SKF Explorer

## Tapered roller bearings, single row

### Bearing data

[Tolerances,](#)

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

### Bearing interfaces

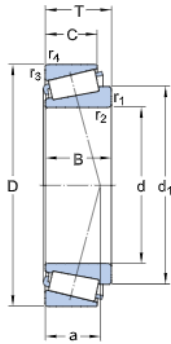
[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

## Technical specification

Dimension series

7FB

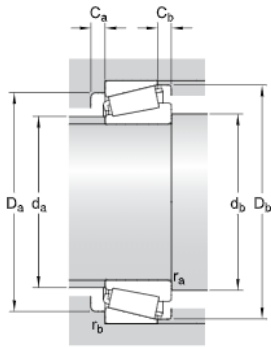


### DIMENSIONS

d	35 mm
D	80 mm
T	22.75 mm
d <sub>1</sub>	≈ 59.6 mm
B	21 mm
C	15 mm
r <sub>1,2</sub>	min. 2 mm
r <sub>3,4</sub>	min. 1.5 mm
a	24.916 mm

### ABUTMENT DIMENSIONS

d <sub>a</sub>	max. 45 mm
d <sub>b</sub>	min. 44.5 mm
D <sub>a</sub>	min. 62 mm
D <sub>a</sub>	max. 72.5 mm



$D_b$	min. 76 mm
$C_a$	min. 3 mm
$C_b$	min. 7.5 mm
$r_a$	max. 2 mm
$r_b$	max. 1.5 mm

## CALCULATION DATA

Basic dynamic load rating	C	75.4 kN
Basic static load rating	$C_0$	67 kN
Fatigue load limit	$P_u$	7.8 kN
Reference speed		6300 r/min
Limiting speed		8500 r/min
Calculation factor	e	0.83
Calculation factor	Y	0.72
Calculation factor	$Y_0$	0.4

## MASS

Mass bearing	0.52 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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