

# 418/414

SKF Explorer

## Tapered roller bearings, single row

### Bearing data

[Tolerances,](#)

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

### Bearing interfaces

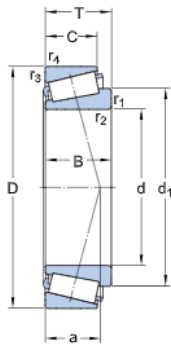
[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

## Technical Specification

Dimension series

415

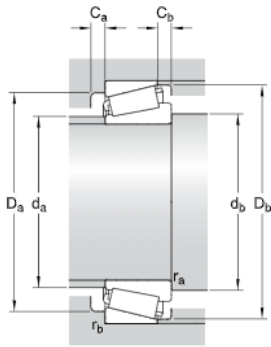


### DIMENSIONS

d	38.1 mm
D	88.5 mm
T	26.988 mm
d <sub>1</sub>	≈ 58.85 mm
B	29.083 mm
C	22.225 mm
r <sub>1,2</sub>	min. 3.5 mm
r <sub>3,4</sub>	min. 1.5 mm
a	16.971 mm

### ABUTMENT DIMENSIONS

d <sub>a</sub>	max. 49 mm
d <sub>b</sub>	min. 50.5 mm
D <sub>a</sub>	min. 73 mm



$D_a$	max. 81 mm
$D_b$	min. 78 mm
$C_a$	min. 5 mm
$C_b$	min. 4.5 mm
$r_a$	max. 3.5 mm
$r_b$	max. 1.5 mm

## CALCULATION DATA

Basic dynamic load rating	$C$	123 kN
Basic static load rating	$C_0$	114 kN
Fatigue load limit	$P_u$	13.2 kN
Reference speed		6700 r/min
Limiting speed		8500 r/min
Calculating load: Limiting value	$e$	0.26
Calculating load: Calculation factor	$Y$	2.3
Calculating load: Calculation factor	$Y_0$	1.3

## MASS

Mass bearing	0.83 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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